Appendix F

Phase II Investigation Field Report

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APPENDIX F

FINAL
PHASE II INVESTIGATION FIELD REPORT

Remedial Investigation
Camp Hero, Montauk, New York

Revision: 0

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ACRONYMS AND ABBREVIATIONS

ACWS	Aircraft Control and Warning Squadron
ADR	automated data review
AOC	area of concern
AST	aboveground storage tank
bgs	below ground surface
CAMP	Community Air Monitoring Plan
CERCLA	Comprehensive Environmental Restoration, Compensation, and Liability Act
CFR	Code of Federal Regulations
CP	Commissioner Policy
DER	Division of Environmental Remediation
DERP	Defense Environmental Restoration Program
DoD	Department of Defense, United States
DU	Decision Unit
ELLE	Eurofins Lancaster Laboratories Environmental, LLC
ft	foot or feet
FPS	Fixed-Pulse Radar-Surveillance
FUDS	Formerly Used Defense Site
gal	gallon
HHRA	human health risk assessment
ICP-MS	inductively-coupled plasma mass spectrometry
JV	joint venture
LIF	Laser Induced Fluorescence
LIMS	Laboratory Information Management System
MCL	maximum contaminant level
MEC	munitions and explosives of concern
mg/kg	milligram per kilogram
mm	millimeter
MS	matrix spike
MSD	matrix spike duplicate
NY	New York
NYCRR	New York Codes, Rules, and Regulations
NYNHP	New York Natural Heritage Program
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health

OPRHC	Office of Parks, Recreation, and Historic Preservation
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl
PSL	project screening level
QA	quality assurance
QC	quality control
RI	Remedial Investigation
SAP	Sampling and Analysis Plan
SEDD	Staged Electronic Data Deliverable
SDG	Sample Delivery Group
SIM	selected ion mass spectrometry
SLERA	screening-level ecological risk assessment
SVOC	semivolatile organic compound
TOGS	Technical & Operational Guidance Series (NYSDEC)
UFP	Uniform Federal Policy
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
UST	underground storage tank
UVOST®	Ultraviolet Optical Scanning Tool
UXO	unexploded ordnance
VOC	volatile organic compound
WP	Work Plan

EXECUTIVE SUMMARY

Camp Hero is a formerly used defense site (FUDS) undergoing a Remedial Investigation and Feasibility Study (RI/FS) under the Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA). The facility was originally established in early 1942 as a Coastal Defense Installation and was utilized by the Department of Defense over the course of the following decades. Camp Hero was later transferred to the State of New York and currently operates as a State Park under the jurisdiction of the Office of Parks, Recreation, and Historic Preservation. The location of Camp Hero is shown on **Figure 1-1** in **Attachment A**. A total of 47 areas of concern (AOCs) have been identified and evaluated during the RI process. AOC locations, including former Building 203, are shown on **Figure 1-2** in **Attachment A**.

The RI for this site is being completed in three phases, with the Phase I RI field investigation completed from May to June 2016 and the Phase II RI field investigation completed from November to December 2016. All other AOCs at Camp Hero warranting additional investigation based on the Preliminary Screening Evaluation will be addressed during the Phase III RI field investigation in the Spring of 2017 (AEOCM-Tidewater JV 2017b). This Phase II Investigation Field Report provides: (1) a documentation of the Phase II field activities, (2) details on any significant deviations from the Phase II Work Plan (WP) Addendum that occurred, and (3) the analytical laboratory reports for data collected during the Phase II RI field investigation.

The objectives of the Phase II RI field investigation included:

- Installation, development, and sampling of fifteen permanent background monitoring wells for collection of a sitewide background groundwater data; and
- Further evaluation of the former Building 203 area of concern (AOC), which was prioritized in the Phase II RE field investigation due to concerns of petroleum impacts to soil and groundwater observed in the Phase I investigation.

The Phase II RI field investigation included the installation, development, and sampling of fifteen background monitoring wells. The locations of the 15 background monitoring well locations installed during Phase II are shown on **Figure 4-1** in **Attachment A**. Additionally, a sitewide surface water drainage survey and habitat surveys of multiple AOCs were conducted to support a revised Screening-Level Ecological Risk Assessment (SLERA).

The Phase II RI field investigation at the former Building 203 AOC included subsurface screening for petroleum with Laser Induced Fluorescence (LIF) to assist in determining the vertical and horizontal extent of light non-aqueous phase liquid (LNAPL). Following the LIF investigations, unbiased surface soil sample collection was completed from thirty-two soil borings within two

sampling units (SUs): 16 sampling locations within the "hot spot" SU and 16 samples within the "outside of hotspot" SU. Subsurface soil samples were collected from the same locations but were biased to the depth intervals indicating petroleum impacts to further evaluate the vertical and horizontal extent of LNAPL. Six permanent monitoring wells were installed in the Building 203 area and groundwater samples were collected from five of the six. The sixth well contained LNAPL and a sample was not collected. Bail-down tests of LNAPL were completed at two well locations containing LNAPL. At the first well (CH-MW017), LNAPL measured approximately 2 feet (ft) in thickness initially and returned to 2.8 ft of product after four days. At the second well (PZ-03), LNAPL measured approximately 9 ft of thickness initially, but only recovered to 0.2 ft of thickness after four days. Fuel fingerprint analysis of a LNAPL sample was completed at the analytical laboratory and indicated that the LNAPL was weathered diesel (#2 fuel oil).

The Phase II RI field investigation was generally completed to the scope that was provided in the RI WP Addendum. Although the overall objectives were met, deviations to the RI WP Addendum included the following:

- Due to the extent of LNAPL in the study area, LIF was determined to be the more appropriate tool for the investigation and MIP was not utilized.
- Planned monitoring wells within the area most likely to have free product based on LIF results were relocated to other areas.
- Soil borings in the "hotspot" DU were advanced deeper than planned in an attempt to obtain vertical delineation.
- One background monitoring well (CH-MW008) was not sampled due to high pH readings (10+) prior to and after well development.
- Insufficient groundwater was present at two background wells (CH-MW007 and CH-MW011) to complete sampling via low-flow methodology. Instead, grab groundwater samples were collected at these locations for the dissolved and total metals.
- Surveying of monitoring wells was postponed to the Phase III RI field investigation.

In September 2017, a laboratory metals data quality breach was identified that affected samples collected during both the Phase II field investigation (affecting 4 sample delivery groups [SDGs]) and the Phase III field investigation (affecting 29 SDGs), conducted from May to June 2017. The affected data packages from the Phase III investigation are documented in the Final Phase III Investigation Field Report (AECOM-Tidewater JV 2018). A total of approximately 1,360 analytical metals results from 59 Phase II samples were affected. An evaluation of this matter was conducted by Eurofins Lancaster Laboratories Environmental, LLC (ELLE) and reviewed by the

AECOM Camp Hero project chemists. Of the potentially affected Phase II data, 1 sample result (0.07% of the 1,360 results) required an actual value change, and 1 sample result (0.07%) required a qualifier change. All revised data for the Phase II field investigation was deemed usable. Additional details regarding the laboratory data breach are discussed in Section 3.13 of this Field Report.

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1.0 INTRODUCTION

Camp Hero is a formerly used defense site (FUDS) undergoing a Remedial Investigation and Feasibility Study (RI/FS) under the Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA). A Camp Hero general location map is provided as **Figure 1-1** in **Attachment A**. A total of 47 areas of concern (AOCs) have been identified and evaluated during the RI process, including former waste disposal areas, coal storage areas, abandoned drum locations, and former storage tanks. A site map with AOC locations is provided as **Figure 1-2** in **Attachment A**.

The RI technical approach consists primarily of three phases of investigation: Phase I, Phase II, and Phase III. The Phase I RI field investigation was intended to confirm either the presence or the absence of suspected DoD waste at the site. The Phase I RI field investigation was conducted between 16 May and 24 June 2016 and is documented in the Phase I Investigation Field Report (AECOM-Tidewater JV 2016b).

The Phase II RI field investigation, presented in this Field Report, evaluated the nature and extent of residual LNAPL and related constituents identified during the Phase I investigation at the former Building 203 AOC. The Phase II investigation also included the installation and sampling of 15 sitewide background monitoring wells. This Phase II Field Investigation Report was prepared to provide: (1) a documentation of the Phase II field activities, (2) details on any significant deviations from the RI Work Plan (WP) Addendum that may have occurred, and (3) the analytical laboratory data and field data collected.

All other AOCs at Camp Hero warranting additional investigation based on the Preliminary Screening Evaluation will be addressed during the Phase III RI field investigation in the Spring of 2017 (AECOM-Tidewater JV, 2017b). The Phase III investigation will evaluate the nature and extent of the constituents at all AOCs which exceeded preliminary screening values and collect data needed to support the Conceptual Site Models (CSMs) and Feasibility Study (FS).

1.1 Facility Background

The Camp Hero State Park Site (Camp Hero) consists of 469 acres located on the eastern tip of the South Fork of Long Island, NY, approximately 5 miles east of the Village of Montauk in Suffolk County, NY (**Figure 1-1** in **Attachment A**). Camp Hero is split into two large subareas: the former Military Area (the Site) and the "Sanctuary Area." The Site is bounded by Montauk Highway (Route 27) to the north, the Atlantic Ocean to the south, Montauk Point State Park to the east, and Camp Hero's undeveloped sanctuary area to the west.

Camp Hero was originally established in early 1942 as a Coastal Defense Installation and was utilized by the DoD for training and other activities over the course of the following decades.

Between 1974 and 1984, site lands were incrementally transferred to state, local, and other federal agencies, and the facility was permanently closed in 1982. Camp Hero is now used as a State Park and is owned by the by the State of New York and operated under the jurisdiction of the Office of Parks, Recreation, and Historic Preservation. In order to streamline this field report, the full facility history is not provided in this document. A detailed facility history can be referenced in the Camp Hero Final RI Work Plan (AECOM-Tidewater JV, 2016a).

1.2 Scope and Objectives

The RI technical approach consists of three phases of investigation: Phase I, Phase II, and Phase III. The Phase I investigation evaluated the presence or the absence of suspected CERCLA DoD waste at an AOC. The Phase II investigation evaluated the nature and extent of residual LNAPL and related constituents identified during the Phase I investigation at the former Building 203 AOC. The Phase III investigation will evaluate the nature and extent of the constituents at AOCs warranting additional investigation based on the Preliminary Screening Evaluation (AECOM-Tidewater HV 2016b) and will collect data needed to support the Conceptual Site Models (CSMs) and Feasibility Study (FS).

This Phase II Investigation Field Report documents the Phase II RI field investigation at Camp Hero during November and December 2016. The objectives of this Field Report are to:

- Summarize the Phase II RI field activities, including field screening, soil borings, and monitoring well installation at Building 203 and the installation and sampling of sitewide background groundwater monitoring wells;
- Present details on any significant deviations from the work plan that occurred; and
- Provide field data and provide analytical data from the off-site laboratory.

1.3 Report Organization

This Field Report is organized into the following sections:

- **Section 1.0:** Introduction – provides an introduction to the project including the scope and objectives, installation background, and organization of this Field Report.
- **Section 2.0:** Technical Approach – provides the regulatory framework, description of the phased RI approach, and information on data analysis and validation.
- **Section 3.0:** General Phase II Investigation Operations – provides descriptions of general field investigation procedures and information on the data analysis and validation process.

- **Section 4.0:** Background Monitoring Wells – provides the approach and overview for the Camp Hero background monitoring well installation, development, and sampling.
- **Section 4.0:** Former Building 203 Investigation – presents brief historical information, reason for concern, and the Phase I RI activities for each AOC at Camp Hero.
- **Section** 7.0**5.0:** Deviations from the Phase II RI WP Addendum – presents a list of deviations from the Phase II RI WP Addendum.
- **Section 6.0:** References – lists the references utilized in this Field Report.

The following attachments are included in this Field Report:

- **Attachment A** contains the figures referred to in this Field Report.
- **Attachment B** contains the tables referred to in this Field Report.
- **Attachment C** contains photographs collected during the Phase II surface water drainage survey.
- **Attachment D** contains the Community Air Monitoring results. Continuous air monitoring was completed during Phase II RI activities downwind of intrusive activities, in accordance with the modified generic NY State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP), Attachment 1A of the NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation.
- **Attachment E** contains the Laser Induced Fluorescence (LIF) Ultraviolet Optical Scanning Tool (UVOST®) Screening Report. High resolution subsurface characterization using LIF UVOST® screening was utilized during the Phase II activities to characterize the extent of the light non-aqueous phase liquid (LNAPL) at former Building 203 and optimize monitoring well placement. The LIF UVOST® Report presents the individual LIF UVOST® logs for each boring location and provides additional information on the technology.
- **Attachment F** contains the laboratory analytical data results, laboratory investigation-derived waste report, the data validation reports, the Eurofins Lancaster Laboratories Environmental LLC (ELLE) Corrective Action Summary Letter, and the Camp Hero Project Laboratory Subcontractor Data Quality Breach Letter.
- **Attachment G** contains the Daily Reports completed during Phase II RI field work.
- **Attachment H** contains the Investigation-Derived Waste (IDW) disposal documentation.

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2.0 TECHNICAL APPROACH

2.1 Regulatory Framework

The RI work was conducted in accordance with CERCLA and the FUDS ER-200-3-1 (USACE 2004). New York State Department of Environmental Conservation (NYSDEC) is the lead regulator for this RI and will provide review and concurrence pursuant to CERCLA. United States Environmental Protection Agency (USEPA) screening criteria and New York State criteria will utilized in the screening evaluation process and supplemented with additional accepted criteria as needed. Additional details on the selected human health and ecological screening criteria will be provided in the Preliminary Screening Evaluation, which will be included in the Phase III RI Sampling and Analysis Plan (SAP) (AECOM-Tidewater JV 2017b).

The New York Codes, Rules, and Regulations (NYCRR) Subpart 375-6 Remedial Program Soil Cleanup Objectives will be utilized as screening criteria (NYCRR 2015a). For those areas of this project strictly addressing releases of fuels from formerly removed or used storage tanks, the 6 NYCRR 613.9 (b) Closure of Tanks Permanently Out of Service (NYCRR 2015b), and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation, will be considered. In accordance with NYSDEC policy CP-51, soil samples at suspected petroleum storage tank AOCs will analyzed for petroleum compounds by the NYSDEC Spills, Technology, and Remediation Services (STARS) list for either fuel oil or gasoline, which include volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and lead analyses (based on the suspected fuel type). In order to meet project data quality objectives, SVOCs in soil and groundwater were analyzed by Method 8270D with Selected Ion Mass Spectrometry (SIM).

2.2 Phased Approach

The RI for this site is being completed in three phases, with Phase I having been completed in June 2016 and Phase II having been completed in December 2016. Phase III RI activities are planned for Spring of 2017.

- **Phase I RI:** The primary objective of the Phase I RI was to determine the presence or absence of contamination at the Camp Hero AOCs. Phase I RI activities included aerial photography archival research, digital geophysical mapping of subsurface anomalies, a botanical survey, Geoprobe® soil borings, piezometer and temporary well installations, and field sample collection. Sample collection for the Phase I investigation included surface soil (defined as soil between 0 to 1 foot [ft] bgs], subsurface soil (greater than 1 ft bgs), wipe samples of concrete and building materials, concrete chip samples, and groundwater sampling.

  The Phase I Investigation Field Report summarized the Phase I field activities and provided the raw analytical data. The Phase II WP Addendum provided tables and figures of the Phase

I analytical data and detailed the Phase II investigation approach for the former Building 203 AOC. The Phase III WP Addendum will provide a Preliminary Screening Evaluation of the existing dataset at all remaining AOCs.

- **Phase II RI:** The primary objective of the Phase II RI was to install 15 background monitoring wells to develop background groundwater concentrations data and investigate the extent of soil and groundwater constituents at the former Building 203 AOC. Subsurface screening for petroleum with LIF UVOST® technology, soil borings, installation of six monitoring wells, and soil and groundwater sample collection were conducted at former Building 203. In addition, a botanical survey for rare and threatened species at Phase II sampling locations, and habitat assessments of multiple AOCs sitewide were conducted as part of the Phase II effort.

  The Phase I sampling results, in conjunction with the LIF screening results, were used as a basis for determining the locations of the Phase II permanent monitoring wells at former Building 203. A Visual Sample Plan (VSP) software tool was used to develop an unbiased sampling approach for soil decision units (DUs) established in the Phase II WP.

  This Phase II Investigation Field Report summarizes the Phase II field activities and provides the analytical data. The Phase III WP Addendum will provide tables and figures of the Phase II analytical data and detail the Phase III investigation approach AOCs, as described below.

- **Phase III RI:** The primary objectives of the Phase III RI is to determine the nature and extent of target constituents in soil, groundwater, surface water, and sediment at the Camp Hero AOCs warranting additional evaluation based on the Preliminary Screening Evaluation (AECOM-Tidewater JV 2017b), to collect data to support the CSMs and FS, and to determine if there are unacceptable risks to human health and ecological receptors associated with exposure to AOC-related constituents.

2.3 Coordination with Stakeholders

Project kick-off meetings were held to initiate coordination with stakeholders. Activities were coordinated with the Camp Hero State Park Superintendent, Mr. Tom Dess, to ensure activities did not impact park visitors or conflict with seasonal work restrictions. Additionally, activities were coordinated with the State Historic Preservation Officer and other interested parties and stakeholders, in accordance with Section 106 of the National Historic Preservation Act of 1996, as amended and 36 Code of Federal Regulations (CFR) 800.

The New York Natural Heritage Program (NYNHP) and NYS Office of Parks, Recreation, and Historic Preservation (OPRHC) were consulted regarding Camp Hero RI activities, with particular focus on

the botanical survey of rare and endangered species (see Section 2.4.1 below). Coordination letters were submitted to the NYDEC Region 1 Office, the United States Fisheries and Wildlife Service (USFWS) New York Field Office, and the Shinnecock Nation regarding planned Camp Hero activities. The coordination letters indicated the USACE's intent to conduct a RI at Camp Hero, with the purpose of assessing if the former DoD activities may have results in adverse environmental conditions. The letters additionally explained the scope of the project and stated that care will be taken to minimize impacts to vegetation and local threatened and endangered species. Copies of coordination correspondence are available in the Phase I Investigation Field Report (AECOM-Tidewater JV, 2016b).

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3.0 GENERAL PHASE II INVESTIGATION OPERATIONS

The Phase II RI field investigation at Camp Hero focused on installation of background monitoring wells and further defining the nature and extent of contamination at the former Building 203 AOC, where LNAPL was observed on shallow perched groundwater in a piezometer during the Phase I activities in June 2016. Phase II activities included a botanical survey for rare and threatened species, a surface water drainage survey, subsurface screening for petroleum with LIF UVOST® technology, soil borings, permanent monitoring well installation and development, bail down tests of LNAPL present in temporary or permanent monitoring wells, and field sample collection. Additionally, habitat surveys of multiple AOCs were conducted to collect information for the SLERA WP to be included in the Phase III RI SAP. Details of each activity are provided in the sections below.

3.1 Rare Plant Survey

A botanical survey for rare and threatened species at Camp Hero was completed in November 2016, prior to any vegetation removal activities. The NYNHP identified four rare plant species which have been historically reported within the Camp Hero RI project area, including: Little-leaf Tick-trefoil, Fringed boneset, Blunt mountain-mint, and Southern arrowwood (NYNHP, 2010).

Prior to the botanical survey field activities, the AECOM botanist researched the habitat requirements, phenology, critical diagnostic characteristics, and morphologically-similar congeners for the target plant species identified as potentially occurring in the vicinity of the Project survey area by the NYSDEC Natural Heritage Program. Botanical references and regional field manuals were consulted for the northeastern United States as well as Flora of North America.

During field preparation for the remedial investigation, each AOC and background soil sampling location was surveyed for the four rare plant species. If any rare plant species were identified, they were marked with pink and black striped flagging. The USACE and AECOM-Tidewater JV team was consulted to determine the best method to avoid destruction of any protected plants by subsequent investigative procedures, including brush clearing and use of heavy equipment.

One of the target rare plant species, *Viburnum dentatum* var. *venosum* (Southern arrowwood*),* was encountered with great frequency throughout Camp Hero; in some areas, it was co-dominate in the forested understory or upland successional shrub lands and it appears the population is stable and thriving. While all larger specimens were flagged, a small number of sites also had numerous seedlings that are almost impossible to avoid without employing extraordinary measures. In consultation with the NYSDEC Natural Heritage and NYS OPRHC, it was concluded that the destruction of a few seedlings during the course of further remedial investigation at Camp Hero would be acceptable in light of the large and stable population of *Viburnum dentatum* var. *venosum*.

3.2 Habitat Surveys

Habitat surveys of 30 Camp Hero AOCs were conducted between 29 November and 3 December 2016. Meandering surveys on foot were conducted at each AOC and dominate woody vegetation was determined to the genus level at a minimum. Dominate herbaceous vegetation was noted when possible; however, due to the lateness of the season, most herbaceous vegetation had senesced.

Habitats of the AOCs were dominated by six types:

- Dry to mesic mixed hardwood forests dominated by *Quercus* species, particularly *Q. velutina* and *A. alba*. *Quercus coccinea* was also detected in some drier sites. Other common trees include *Acer rubrum, Sassafras albidum, Prunus serotina, Tilia americana, and Carya tomentosa.* Common shrubs include *Ilex opaca, Amelanchier canadensis, Kalmia latifolia, Vaccinium corymbosum*, and *Hamamelis virginiana*. In some areas the rare *Viburnum dentatum* var. *venosum* is also co-dominant. *Smilax rotundifolia* thickets were also common.

- Mesic to moist mixed hardwood forests dominated by *Acer rubrum*. The shrub layer typically contains *Ilex opaca, Lindera benzoin, Vaccinium corymbosum*, *Clethra alnifolia;* with a *Symplocarpus foetidus* herbaceous layer.

- Dry to mesic successional shrub lands dominated by young *Prunus serotina* and *Quercus* spp., *Amelancheir canadensis*, and *Morella pensylvanica*. In some areas the rare *Viburnum dentatum* var. *venosum* is also co-dominant.

- Mesic to moist shrub thickets dominated by *Vaccinium corymbosum, Lindera benzoin*, and *Sambucus canadensis*.

- Disturbed/successional mesic grasslands dominated by *Schizachyrium scoparium, Panicum virgatum, Euthamia graminifolia*, and *Artemisia vulgaris*.

- Maintained weedy turf dominated by Poaceae, *Plantago* spp., *Trifolium* spp., *Hieracium* spp., *Hypochaeris radicata*, and *Fragaria virginica*.

Invasive species are common throughout Camp Hero and found in many of the AOCs; the most common include *Celastrus orbiculatus, Ligustrum* sp. (probably *vulgare* or possibly *obtusifolium*), *Elaeagnus umbellata, Rosa multiflora, Lonicera japonica, Lonicera morrowii, Alliaria petiolata, Phragmites australis* ssp. *australis*, and *Berberis thunbergii*.

Additionally, four New York State rarities have historically been recorded in the vicinity of Camp Hero, including three herbaceous species [*Desmodium ciliare* (Muhl. ex Willd.) DC. (Fabaceae),

Eupatorium torreyanum Short & Peter (Asteraceae), and *Pycnanthemum muticum* (Michx.) Pers. (Lamiaceae)] and one woody species, *Viburnum dentatum* var. *venosum* (Britton) Gleason (Adoxaceae). Due to the lateness of the season, most herbaceous vegetation had senesced and the three herbaceous rarities were not observed. *Viburnum dentatum* var. *venosum* is common throughout many mesic habitats of Camp Hero and is co-dominant in the shrub layer at some AOCs.

The habitat information for each AOC collected during the habitat survey is provided in **Table 2-1** (**Attachment B**).

3.3 Surface Water Drainage Survey

A surface water drainage field survey was conducted during the Phase II RI field investigation in December 2017. The purpose of the survey was to further understand the surface water flow drainage at Camp Hero and identify drainage channels which have revetments. The revetments consist of wooden planking that line each side of the drainage embankment and have wooden cross-ties for support. The revetments were built within some of the drainage channels during DoD site activities in the 1940s. **Figure 3-1** in **Attachment A** depicts the surface water drainage features and the location of revetments in drainage channels. **Attachment C** provides a photograph log of the surface water drainage features, including photographs of drainage channels with revetments. Photo point locations for photographs included in **Attachment C** were added to **Figure 3-1** for reference.

3.4 Anomaly Avoidance

An Unexploded Ordnance (UXO) Probability Assessment for Intrusive Investigation at Camp Hero completed by USACE Baltimore District determined that the Camp Hero RI activities had a low probability of encountering munitions and explosives of concern (MEC), except for areas H and K, which would not be entered at any point during RI field activities. However, as a precautionary measure, anomaly avoidance was conducted in accordance with EM 385-1-97 by a UXO Technician II during intrusive Phase II RI activities with a hand-held magnetometer. "Anomaly avoidance" is defined as the avoidance of surface MEC and any subsurface anomalies where the specific activity can be moved to another location.

Additionally, all field personnel, including AECOM-Tidewater JV employees and subcontractors, completed Ordnance Recognition Training prior to the start of field activities.

3.5 Community Air Monitoring

Continuous air monitoring was completed downwind of the drill rig during intrusive activities, in accordance with the modified generic NYSDOH Generic CAMP, Attachment 1A of the NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and

Remediation. The CAMP establishes air monitoring activities that were to be implemented to protect the community from any potential airborne releases that could result from field activities associated with the RI or interim remedial action efforts, as necessary (NYSDEC 2010b). No exceedances were observed during Phase II RI activities. Data from Phase II RI air monitoring are included as **Attachment D** to this Field Report.

3.6 Monitoring Well Installation

A total of 21 permanent monitoring wells were installed during the Phase II field activities at Camp Hero, including 15 background monitoring wells and 6 wells at the former Building 203 AOC. Sonic drilling methods were utilized for installation of the wells. An exclusion zone was established with cones surrounding the drilling operation. The drilling team put a sheet of plastic under the sonic drill rig and around the tracks to act as a containment barrier. The sonic drill was advanced through a tub or surface casing at the ground surface. A 4-inch core barrel and a 6-inch override casing was utilized to core and case through to the borehole target depth. Soil within each 5-foot long core barrel was extruded from the core barrel into a plastic sleeve. The plastic sleeve was then placed horizontally on clean plastic for logging and sampling purposes.

An unused 2-inch diameter milled slot PVC screen and casing was installed to the bottom of the borehole and sand pack was placed in lifts as the drilling crew pulled the casing back to expose the well screen. The borehole above sand pack was sealed with 2 feet of bentonite chips. The remaining annular space between the well casing and the 6-inch override casing from the top of the sand pack to the ground surface was pressure-grouted with a bentonite/cement grout using a tremie pipe. The remaining 6-inch diameter sonic casing was pulled from the ground. The vibration that is applied to the casing as it is pulled served to densify and degas the grout, as well as to knit the grout into the borehole wall. IDW generated during the well installation process was contained and transported to the IDW storage area.

3.7 Well Development

Permanent monitoring wells were developed at least 24 hours after completion of well installation. Development was completed by a combination of surging with a surge block and over-pumping with a submersible monsoon pump. Water clarity was visually monitored and water quality parameters, including dissolved oxygen (DO), specific conductivity (SC), oxidation-reduction potential (ORP), pH, temperature, and turbidity, were measured using a flow-through cell every 5 minutes during purging to determine progress of development. The multi-parameter water quality meter was calibrated at the beginning of each day and continually throughout the day if needed. A calibration check was performed at the end of each day. Each well was developed until the well produced clear (silt-free) water with a minimum of three stable water quality readings, as outlined below:

- pH – within ± 0.2 units.
- SC – within ± 3 percent (%).
- DO – within ± 10%
- ORP – within ± 10 millivolts.
- Temperature – within ±1 degree Celsius.
- Turbidity – at or below 10 nephelometric turbidity unit (NTU) or within ± 10% if above 10 NTU.

If any water was added to the well's borehole during development or drilling, three times the volume of water added was removed during well development, when possible. If the well had slow groundwater recharge and was purged dry, the well was considered developed pumped dry three times in succession.

3.8 Bail Down Tests

"Bail down" tests were conducted at permanent monitoring well CH-MW017 and piezometer PZ-03 to estimate the LNAPL transmissivity and recoverability identified at these two well locations. The bail down tests were conducted following initial gauging measurements with an oil/water interface probe. The entire volume of LNAPL existing within the casing (i.e. the effective borehole LNAPL volume) was then removed with a peristaltic pump and disposable tubing, while minimizing the amount of groundwater removed from the well. A graduated container was used to measure the amount of LNAPL removed. All LNAPL and groundwater was appropriately containerized.

Following LNAPL removal, the wells were gauged periodically from 11 December to 15 December, 2016. The wells were gauged to measure LNAPL recovery in approximately 1 to 10 minute intervals for the first 2 hours of recovery and every 30 minutes for the next 2 hours of recovery. The wells were then gauged periodically from 11 December to 15 December 2016. The LNAPL recovery data over time can be used to estimate the LNAPL transmissivity and recoverability. The bail down test results are discussed in section 4.1.2.4.

3.9 Field Sampling

Sample collection for the Phase II investigation included surface soil (defined as soil between 0 to 1 ft bgs), subsurface soil (greater than 1 ft bgs), and groundwater media. After sample collection, samples were transferred to the appropriate sample container for laboratory analysis and placed in a cooler on ice. The required sample containers, preservatives, and holding times were specified in the Uniform Federal Policy (UFP) Sampling and Analysis Plan (SAP), attachment to the RI WP Addendum (AECOM 2017b). Sample locations were marked with a pin flag with sample identification number and vertical and horizontal position coordinates are scheduled to be collected

by a New York licensed surveyor. All non-disposable sampling equipment (i.e., drill rig core barrel) was decontaminated between sample locations. Decontamination generally consisted of a water rinse to remove gross contamination (if needed), followed by a non-phosphate detergent (e.g., Liquinox) water rinse, and a rinse with de-ionized water. Smaller equipment needing to be stored or transported was wrapped in aluminum foil after air-drying.

Surface and Subsurface Soil: Surface and subsurface soil samples were collected using a Direct Push Geoprobe® drill rig. A Geoprobe® dual-tube sampling system was used to collect continuous soil cores by advancing a 5-ft (60-inch) coring barrel fitted with the dedicated, disposable polyvinyl chloride (PVC) liners to the target depth, as established in the Phase II RI WP Addendum and described below in Section 4.2. Soil cores were screened for VOCs immediately upon opening the sleeve with a PID utilizing an 10.6 electron-Volt bulb. Screening results, lithologic descriptions, and other observations and measurements were recorded on a soil boring log by the field geologist. At a minimum, depth interval, recovery thickness, PID concentrations, moisture, relative density, color (using a Munsell soil color chart), and texture using the Unified Soil Classification System were recorded. Additional observations recorded may have included detectable odors, groundwater or perched water depth, organic material, cultural debris, or color changes indicating staining. Photographs were also taken of significant boring cores.

One surface soil sample and one subsurface soil sample was generally collected from each location, with a few exceptions as described below in Section 4.1.2. Subsurface soil samples were collected from depth intervals where field screening or observations (i.e., highest VOC concentration measured with the photo-ionization detector, odor, staining) indicated the potential presence of contaminants or at the bottom of the boring, in attempt to vertically delineate the extent of contamination. VOC samples were collected directly from the recently-exposed soil using a sampling corer (Terra Core kits). For the other analyses, the soil was removed and transferred to a disposable, re-sealable plastic bag and was then homogenized, which consisted of mixing the soil until the sample is a uniform color, texture, and particle size. Any non-homogenous particles, organic matter, and debris were removed from the soil samples. After sample collection, the sample was transferred to the appropriate sample container for laboratory analysis and placed in a cooler on ice.

Groundwater Sample Collection from Permanent Monitoring Wells: Groundwater samples were collected from the newly-installed permanent monitoring wells a minimum of 72 hours after development using low-flow sampling methodology. Groundwater levels were measured in each well prior to sampling using a water level meter (Solonist or equivalent). The monitoring wells were purged using low-flow sampling techniques using peristaltic pump and disposable tubing. Water clarity was visually monitored and water quality parameters, including dissolved oxygen, SC, ORP, pH, temperature, and turbidity were measured using a flow-through cell. Readings were collected

every five minutes until the well produced clear (silt-free) water with a minimum of three stable water quality readings, as outlined above in the Well Development procedures. The multi-parameter water quality meter was calibrated initially and continually throughout its usage each day, as needed. A calibration check was performed at the end of each day.

Once the water quality parameters reached stabilization, samples were collected in laboratory-supplied bottleware. Groundwater samples for dissolved metals and hexavalent chromium were field-filtered using a clean, disposable in-line filter. The pH of dissolved and total hexavalent chromium samples will be adjusted according to the procedures outlined in the SAO (AECOM 2017).

Recharge in three wells was insufficient to complete sampling via low-flow methodology (see Section 6.0 for additional details). Instead, grab groundwater samples were collected at these locations for the same analyses. One set of water quality parameters were collected at the end of sampling if sufficient water was present. More details are provided in Sections 3.0 and 4.1.2 below.

Sample Identification: The sample identification (ID) number consisted of a Location ID (an alphanumeric designation related to the AOC or facility), plus alphanumeric designations for the event, media type, and/or consecutive number, according to the following conventions. Permanent monitoring wells locations utilized the Facility ID ("CH" for Camp Hero) instead of the AOC ID.

Location IDs for permanent monitoring wells used the Facility ID ("CH") followed by "-MW" and then the consecutive number (01, 02, 03, etc.). Permanent wells were numbered sequentially across the entire facility. The fifteen background monitoring wells were numbered 001 through 015; monitoring wells specific to the AOCs were numbered beginning at 016.

Groundwater Samples collected from permanent monitoring wells used the following naming convention:

Well Location ID: **203** = Building **203** *(see Table 3-1 for AOC IDs)*
Consecutive Sampling Event Number: 01, 02, 03, etc. *(Fall 2016 will have the sample event number ("01").*

For example, the sample identification number for the groundwater sample collected from monitoring well CH-MW016 in Fall 2016 was CH-MW016-01.

Soil samples collected from temporary soil borings used the following naming convention:

AOC Identification (ID): **203** = Building **203** *(see Table 3-1 for AOC IDs)*
Media Type: **SB** = **S**oil **B**oring
Consecutive Number: 01, 02, 03, etc.
Depth of sample (in ft): 01, 02, 03 etc.

For example, the sample identification number for the sixth soil boring sample collected at Building 203 from 1 to 3 ft bgs was 203-SB06-03. Phase II Soil Boring IDs continued consecutively from the Phase I Soil Boring IDs. This nomenclature applies to surface soil samples; surface soil sample IDs ended in "-01" to represent the 0 to 1 ft bgs depth.

Duplicate sample identification numbers were followed with a "DUP". MS sample identification numbers were followed with a "MS" and MSD sample identification numbers were followed with a "MSD."

Sample Handling, Storage, and Shipment: Samples were collected into laboratory-supplied bottleware and placed in a cooler on ice. Sample times, dates, and analyses were recorded on boring logs, field sample forms, and field team logbooks. Samples were then quality-control checked by the site Sample Manager and recorded on chain-of-custody (COC) records prior to being packed in coolers on fresh ice and transported via courier to the laboratory. Original COCs were transferred to the courier with their respective samples; carbon-copies of the COCs were kept on-site by the Sampler Manager and emailed to the laboratory and project chemist each night.

Borehole Abandonment: DPT borings and temporary wells were abandoned at completion of sampling activities by backfilling with bentonite chips. The surface at each location was restored to match the surrounding area.

3.10 Surveying

All Phase II sample locations were marked with a sample identification number and vertical and horizontal position coordinates will be obtained by a New York licensed surveyor during the Phase III field effort.

3.11 Investigation-Derived Waste Management:

AECOM-Tidewater JV managed IDW generated during the Phase II field activities pursuant to applicable Federal, State, and local regulations and guidance, including the USEPA Management of Investigation-Derived Wastes during Site Inspections (USEPA 1992), USACE guidance (2013), and NYSDEC Technical Guidance for Site Investigation and Remediation (2010b).

Liquid IDW from well installation, development, and sampling was stored in a 4,000-gallon (gal) two-compartment steel or a 2,000-gal poly tank provided by the waste hauler. Liquid IDW with potential petroleum impacts was segregated from IDW generated at background locations and stored in the back compartment of the 4,000-gal steel tank. Liquid IDW from locations without petroleum impacts was stored in the 2,000-gal poly tank or the front compartment of the steel tank. Solid (soil) IDW from well installation and sampling was stored in a lined roll-off with a locking lid. Solid IDW with petroleum impacts was segregated and stored in two 55-gal drums. Additionally,

approximately one gallon of petroleum product was removed from former Building 203 wells during bail-down tests. The petroleum waste was stored in a 55-gal drum. All drums were properly labeled indicating the generator, contact information, contents, and date of generation. The tanks, drums, and roll-off were stored at the Camp Hero State Park Motor Pool building, with the permission of State Park Superintendent Mr. Tom Dess.

In accordance with NYSDEC Technical Guidance for Site Investigation and Remediation (2010b), soil cuttings from soil borings without petroleum impacts were disposed at the site within the corresponding borehole to within 24 inches of the ground surface with the remainder of the borehole filled with bentonite.

Analytical samples of both the soil and liquid IDW were collected on 16 December 2016 and submitted to the laboratory for hazardous waste determination. **Tables 2-1** and **2-2** (**Attachment B**) present the IDW analytical results compared to NYSDEC regulatory levels. Soil results were compared to the 6 NYCRR Part 375-1 Soil Cleanup Objectives for restricted use for the protection of groundwater (NYCRR 2015a). Liquid IDW results were compared to the NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (NYSDEC 2004). Both soil and liquid IDW were determined to be non-hazardous. The analytical laboratory package of results from the liquid and solid IDW samples are included in **Attachment F**.

AECOM-Tidewater JV contracted Atlas Disposal (Dover, NJ) to transport and dispose of IDW accumulated on site. Atlas Disposal transported the liquid IDW to disposal facility LORCO Petroleum Services (Elizabeth, NJ) on 29 March 2017 under non-hazardous bill of lading (#21673). Atlas Disposal transported the roll-off with soil cuttings to Bayshore Management, LLC (Keasby, NJ) for disposal on 20 March 2017 under non-hazardous manifest (#24999). The two 55-gallon drums were transported to Cycle Chem Inc. (Elizabeth, NJ) for disposal on 29 March 2017 under non-hazardous manifest (#07773). All final waste documentation is included in **Attachment H**.

3.12 Quality Assurance/Quality Control Samples

Quality assurance/quality control (QA/QC) samples were collected to ensure field and laboratory protocols resulted in consistent and valid data. The following types of QA/QC samples were collected:

Field Duplicates: One additional set of sample containers were collected along with the normal sample. The duplicate was analyzed as a normal sample at the laboratory. Duplicates were collected at a frequency of one duplicate per ten samples.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)*:* Two additional sets of sample containers were collected along with the normal sample. A Matrix Spike and Spike Duplicate (MS/MSD) are

representative but randomly chosen samples with known concentrations of analytes of interest added to the samples prior to sample preparation and analysis. They are processed along with the same un-spiked sample.

Equipment Blanks: One equipment blank was collected from each drill rig used for soil sampling (for a total of three equipment blanks). The equipment blank was collected by pouring Type II deionized water over the decontaminated core barrel shoe and collecting the water in the appropriate sample containers.

Trip Blanks: Trip blanks for VOC analysis were provided by the laboratory. One trip blank was included in each cooler with VOC samples for VOC analysis.

3.13 Data Validation

Data validation was conducted on the Automated Data Review (ADR) output for the Camp Hero analytical data. All analytical data packages were validated to ensure compliance with specified analytical, QA/QC requirements, data reduction procedures, data reporting requirements, and required accuracy, precision, and completeness criteria. This includes, but is not limited to, the following:

- Sample preservation and holding times;
- Blanks (method and rinse);
- Matrix spikes and spike duplicates;
- Laboratory and field sample duplicates;
- Surrogates; and
- Laboratory control samples.

Analytical results were assessed for accuracy and precision of laboratory analysis to determine the limitations and quantity of data. The quality of the data collected in support of the sampling activity was considered acceptable. Data validation memos are provided in **Attachment F**.

The data validation process assigned data qualifiers to results that did not meet specified laboratory protocols (J, J-, J+, U, and UJ flags) but were still considered acceptable via the data validation process as well as the "R" qualifier for data that was not usable. The validation qualifiers assigned are:

- J: The result is positively identified and the associated numerical value is an estimated quantity with an unknown bias.
- J+: The result is an estimated quantity but the result may be biased high.
- J-: The result is an estimated quantity but the result may be biased low.
- UJ: The result is not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- U: The result is not detected above the reported sampled quantitation limit.
- NP: The result is not preferred for this analyte by this method as another result is available.
- R: The result is rejected and not usable due to QC reasons.

Hold Time Issues: Several Camp Hero samples were qualified due not meeting the recommended method hold times in hexavalent chromium, as detailed in **Table 2-2** (**Attachment B**). Analyte detects were qualified "J-" (estimated value) and non-detected values were qualified "UJ" (value under detection limit; estimated value) in the samples. Qualifiers due to hold time issues did not affect the usability of the results.

Nonconformance Issues: Volatile organic samples (203-SB27-05, 203-SB28-09, 203-SB21-24, and 203-SB30-10) were initially analyzed within hold time. However, the ending calibration check was run outside of the tune time for the instrument. The analyses were repeated one day after the hold time had expired with all the QC being within limits. The results between the two runs were consistent. The first set of results that were within hold time are presented in the final package with a case narrative addressing that a second run was done.

Additionally, two of the three vials submitted for sample 203-SB37-01 had leaked, making them unusable for analysis. The two vials that leaked were the sodium bisulfate vials intended for the low-level analysis (MDLs generally around one µg/L). The remaining vial was methanol-preserved and intended for high-level analysis, which has MDLs generally around 50 µg/L. The laboratory analyzed from the high level vial. These nonconformance issues did not affect the usability of the results.

ELLE Metals Data Breach: On 14 September 2017, an external data validator contacted ELLE in regard to an inductively-coupled plasma mass spectrometry (ICP-MS) result which could not be confirmed during the validation process. The metals department manager reviewed the concern and determined that the reason that the raw result did not match the result presented in the report out of the Laboratory Information Management System (LIMS) was due to a manual change made by an analyst to the data import file between the instrument and the LIMS. The analyst was

immediately terminated after admitting to changing numbers. Upon further review, ELLE determined that there were multiple instances where values were changed and launched a full-scale investigation encompassing the terminated employee's tenure. Potential impacts to the Camp Hero project included 13,826 metals data as part of four data packages from the Phase II field event and 29 data packages from the Phase III field event. The affected data packages from the Phase III field investigation are documented in the Final Phase III Investigation Field Report (AECOM-Tidewater JV 2018).

The vast majority of the data changes were made to quality control and/or calibration check samples and not to actual sample results. Where sample results changed, they were due to results exceeding the linear calibration range of the instrument. The results were changed to be slightly lower than the upper limit of the calibration range. Sample analytes that exceeded the calibration range were reanalyzed where within holding time.

AECOM received the final revised level II and level IV lab reports and Staged Electronic Data Deliverable (SEDD) version 5.2 Stage 2a files on 9 November 2017, which consisted of QC data and sample results. Only 14 SEDD files were impacted out of the 33 (from Phase II and Phase III) since laboratory instrument calibration was the main issue for the data breach and raw instrument data files are not included in SEDD 2a deliverables.

For Phase II sample delivery group (SDG) APP11, the result for manganese for field duplicate sample 203-SB16-01DUP changed from 299 mg/kg to 315 E mg/kg based on the metals breach. The result was based on an extrapolation of the calibration curve and the qualifier "E" means concentration exceeds the calibration range. The upper end of the linear range was 302 mg/kg. The manganese result for the normal sample (203-SB016-01) was 291 mg/kg. Since the field sample was out of holding time, the result for manganese in the field duplicate was not reanalyzed. The normal sample result was within calibration and was not qualified. Field duplicate precision increased slightly from 3% to 8%. A "J+" qualifier (biased high) was added to the manganese result for the field duplicate since the result was above calibration.

Out of 1,357 Phase II metals results in the affected SDGs, only 1 field sample result required value changes (0.07%). There was 1 result which required a qualifier change (0.07%). Additional information on the impacts of the metals breach will be discussed in data validation memos for each of the data packages, available in **Attachment F** of this Field Report.

The laboratory provided a Corrective Action letter, which is included in this Field Report as **Attachment F4**. Additionally, AECOM prepared the Camp Hero Project Laboratory Subcontractor Data Quality Breach Letter, which is included as **Attachment F5**. Both letters address affected samples from both the Phase II and Phase III field investigations.

4.0 BACKGROUND MONITORING WELLS

A total of 15 background monitoring wells, CH-MW001 through CH-MW015, were installed and developed during the Phase II RI to establish sitewide background groundwater levels for metals. Background monitoring well locations are identified on **Figure 4-1** (**Attachment A**). The total depth of the background wells ranged from 17 to 40 ft bgs, depending on subsurface conditions encountered and lithology at each location. Most locations utilized 15-foot screens, except for wells with more shallow depths, to screen across the variable perched water table and provide as much recharge to the well as possible. Well construction information for each monitoring well is provided in **Table 4-1** (**Attachment B**). The background wells were installed, developed, and sampled in accordance the procedures outlined in Section 2.4.

Background groundwater samples were collected at 14 of the 15 wells to evaluate sitewide groundwater background threshold values (BTVs). Background groundwater samples were analyzed for total and dissolved metals, including hexavalent chromium. Most samples were collected via low-flow methodology, as described in Section 2.4 above. However, the Fall of 2016 was a notably dry season with low-precipitation, leading to drought conditions and decreased perched groundwater availability at some background well locations. Insufficient groundwater was present at two background wells (CH-MW007 and CH-MW011) to complete sampling via low-flow methodology. Instead, grab groundwater samples were collected at these locations for the dissolved and total metals.

Additionally, one background well (CH-MW008) exhibited high pH readings (10+) prior to and after well development. It is suspected that the high pH in the groundwater may be a result of cement grouting of the well. The high pH in the groundwater could not be reduced due to the extremely low recharge at this well. After discussion, the USACE and AECOM-Tidewater JV team decided this well would not be sampled during the Phase II field effort and would be re-evaluated for additional development and sampling during the Phase III effort.

A statistical analysis of the variability of constituents in the background groundwater data set will be assessed prior to additional field activities. If necessary, an additional round of background groundwater samples will be collected in the Spring of 2017 as part of the Phase III RI field investigation. Additionally, the rationale and locations of sediment and surface water background data will be defined in the Phase II RI SAP.

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5.0 FORMER BUILDING 203 INVESTIGATION

The Phase II investigation at former Building 203 focused on defining the nature and extent of the LNAPL and associated constituents identified during Phase I RI field investigation. Due to petroleum LNAPL detected on the perched shallow groundwater at Building 203, and petroleum impacts observed in site soils, a petroleum release was reported by USACE to the NYS DEC and NYS DEC Pollution Complaint Number PC-1602757 assigned to this AOC. As a result of the petroleum impacts observed during Phase I and to provide data to NYS DEC regarding PC-1602757, former Building 203 was prioritized for investigation in Phase II activities. The Phase II investigation at former Building 203 consisted of high resolution characterization of the LNAPL using LIF UVOST® Screening, bail down tests of LNAPL present in temporary or permanent monitoring wells, unbiased surface soil sampling within two sampling units (SUs), biased subsurface soil sampling within two SUs to further define the vertical and horizontal extent of LNAPL, monitoring well installation and development, and groundwater sampling.

Analytical results from the Phase II sampling are provided in **Attachment F** (Laboratory Analytical Reports). Tables with analytical results from Phase II compared to PSLs will be provided as part of the Phase III WP Addendum and in the final RI Report for all AOCs. The field operations and results for the Phase II Investigation are provided for AOC in the subsections below and also documented in the Daily Reports (**Attachment G**). **Table 5-1** (**Attachment B**) provides a summary of the Phase II investigation activities and the analytical samples collected. Photographs of the Phase II effort are included in the Daily Reports (**Attachment G**).

5.1 Laser Induced Fluorescence Screening

High resolution characterization of the LNAPL at former Building 203 was conducted using LIF UVOST® technology to characterize the extent of free product and optimize monitoring well placement. LIF UVOST® is a high resolution LNAPL mapping tool used to delineate the depth and horizontal extent of free product and residual petroleum contamination. LIF utilizes a laser transmitted along a fiber optic cable routed through direct-push rods to a special probe containing lenses that emit the laser, which will cause any PAHs, which are a component of LNAPL, to fluoresce at characteristic waveforms. Induced fluorescence is conveyed to a detector at the system that can analyze waveforms to differentiate various types of LNAPL and individual LIF UVOST® logs were created to display a primary graph of total fluorescence as a percentage of a "Reference Emitter" test standard versus depth.

The LIF investigation initially focused on the location of piezometer PZ-3, where LNAPL was observed in Phase I, and then stepped outward as necessary in a grid-like pattern to bound the extent of LNAPL and residual petroleum contamination. The LIF screening was conducted at 44 locations, as shown on **Figure 5-1**, to a maximum depth of 40 ft bgs. The number of LIF screening

points was determined in the field through daily conversations between the USACE and AECOM-Tidewater JV team. Borings were abandoned by backfilling with bentonite chips. The screening results were discussed between the AECOM-Tidewater JV and USACE team on a daily basis to determine the selection of additional screening points. Additional information is available in the Camp Hero LIF UVOST® Report (**Attachment E**), which presents the individual LIF UVOST® and provides additional information on the technology. The results of the former Building 203 screening are discussed in Section 4 of this Phase II Field Investigation Report

Results of the LIF screening are displayed on **Figure 5-2**. The petroleum saturation in subsurface soils was bound to the North, South, and East sides. Due to the presence of subsurface concrete in the vicinity of the former Building 203 foundation, the LIF probe could not be advanced in this area (corresponding approximately to LIF locations NN through ZZ on **Figure 5-2**). In order to fill the gap in the LIF data in the area of concrete refusal, soil boring locations 203-SB33, 203-SB35, and 203-SB37 (see **Figure 5-1**) were advanced to 35 ft bgs and soil samples were collected. Details on the Phase II soil borings at former Building 203 are available in Section 4.1.2.3 below.

The LNAPL plume could not be bound to the West/Northwest using the LIF UVOST® due to the presence of a steep grade preventing access of the Geoprobe® rig and LIF van. However, three wells were installed downgradient of this area to support delineation of residual petroleum (see Section 4.1.2.2 below for more details).

The RI WP Addendum indicated that a Membrane Interface Probe (MIP)/Hydraulic Profiling Tool (HPT) may be utilized to delineate the dissolved-phase plume of residual petroleum. Due to the extent of petroleum saturation in soils indicated by the LIF, it was determined that the LIF would be the more appropriate screening tool for the Phase II effort and MIP/HPT was not utilized. The MIP/HPT could be damaged if petroleum saturation in is encountered and become unresponsive.

Additional information on the LIF UVOST® screening is available in the Camp Hero LIF UVOST® Report (**Attachment E**), which presents the individual LIF UVOST® logs for each boring location and provides additional information on the technology. As a result of the LIF UVOST® screening results, the former Building 203 "inside hotspot" SU was redrawn to reflect the updated petroleum saturated soils as detailed below in Section 4.1.2.3.

5.2 Soil Investigation

The Phase II soil investigation at former Building 203 consisted of unbiased surface soil sampling within two soil SUs within the site boundary: the "hotspot" area and the "outside hotspot" area. Subsurface soil samples were collected from the same locations but were biased to the depth intervals indicating petroleum impacts to further evaluate the vertical and horizontal extent of LNAPL. The site boundary, soil borings in the hotspot area, and soil borings outside the hotspot

area are shown on **Figure 5-1**. The original hotspot area in the RI WP Addendum was based on Phase I results and encompassed the suspected LNAPL area at the site. However, the LIF UVOST® screening results indicated that the LNAPL area was larger than originally expected and the "hotspot" area was redrawn during the Phase II activities to reflect the updated LNAPL plume. The Visual Sample Plan (VSP) version 7.7, developed by the Pacific Northwest National Laboratory (PNNL, 2016) was used to develop an unbiased sampling approach each SU, as described in the RI WP Addendum (AECOM-Tidewater JV 2017a). VSP was used to update the sampling approach when the hotspot area was redrawn based on LIF UVOST® results. To create an unbiased sampling approach, the samples were placed on a systematic triangular grid.

The soil borings were conducted with direct push drilling methods. At least one surface and subsurface soil sample was collected from each boring and analyzed for VOCs, SVOCs, and metals (including hexavalent chromium), per the sampling protocol described below. A total of 32 surface soil samples and 36 subsurface soil samples were collected.

Within the hotspot soil SU, 16 soil borings were advanced to 35 ft bgs or to the depth of clean soil, if petroleum impacts were noted at 35 ft bgs. In general, two soil samples were collected per boring; one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from either just above the perched groundwater-clay unit interface, where PID readings are above background, or where there are visual indicators of staining. In four of the borings, a third sample was collected from the bottom of the boring to define the vertical extent of potential contamination within the clay layer below the former UST pit.

Within the outside hotspot SU, 16 borings were advanced to 10 ft bgs, with the following exceptions:

- Three locations (203-SB33, 203-SB35, and 203-SB37) were advanced to 35 ft bgs in order to fill the gap in the LIF data in the area of concrete refusal.
- One location (203-SB34) was advanced to 35 ft bgs because it was hydraulically downgradient of the LNAPL source are and free product was present at the adjacent monitoring well, CH-MW017.

Two soil samples were collected from each boring; one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from either 9 to 10 ft bgs, from just above the perched groundwater-clay unit interface, where PID readings are above background, or where there are visual indicators of staining.

5.3 Groundwater Investigation

Six 4-inch permanent monitoring wells were installed at former Building 203 during Phase II activities. One monitoring well was installed hydraulically up-gradient, two were installed side-gradient, and three were installed downgradient of LNAPL source area, in areas suspected to be outside of the LNAPL hotspot. The well locations were optimized by LIF UVOST® characterization, as described above. The monitoring wells were installed and developed as described in Section 2.4. The locations of the monitoring wells are shown on **Figure 5-1** and well construction information is available in **Table 3-1.**

The depth of the perched groundwater encountered varied from approximately 10 to 22 ft bgs. The perched water bearing zone was typically encountered in silty sand and sandy silt above confining clay and silt units in the subsurface. The clay and silt units appeared to dip from east to west across the site. As discussed in the RI Work Plan, the clay and silt unit interface below the perched water table may represent the primary potential contaminant migration zone. Monitoring wells were constructed such that the screen was located across this interval, allowing available perched groundwater in this zone to be collected for analysis.

Upon gauging the wells after installation, approximately 2 ft of LNAPL was observed in well CH-MW017. As a result, development and sampling were not completed at this location. Groundwater samples were collected at four wells (CH-MW016, CH-MW018, CH-MW019, and CH-MW020) via low-flow methodology, as described in Section 2.4, and were analyzed for VOCs, SVOCs, and metals (dissolved and total, including hexavalent chromium). Insufficient groundwater was present at one well (CH-MW021) to complete sampling via low-flow methodology. Instead, a grab groundwater sample was collected at this location for the same analyses.

Additionally, one sample of LNAPL from PZ-03 was submitted for gas chromatograph (GC) fingerprint analysis for petroleum type matching and analysis of Aroclor PCBs. No PCBs were detected in the sample. The GC fingerprint for the sample was most similar to the laboratory's Diesel/#2 Fuel Oil reference chromatogram. Differences in relative peak intensities and ratios indicated that the product in this sample is weathered. The laboratory calculated total sample area in the C8-C40 normal hydrocarbon range as petroleum distillate and it was present at 83% by weight. Analytical results of the GC fingerprint analysis are included in the laboratory report (**Attachment F**).

5.4 Bail Down Tests

"Bail down" tests of the LNAPL on groundwater were conducted at Phase I temporary piezometer PZ-03 and Phase II permanent monitoring well CH-MW017, following the LIF UVOST® screening and well installation, to estimate the LNAPL transmissivity and recoverability. The wells were bailed

of LNAPL on 11 December and recovery was monitored periodically through 15 December, 2017. Results of the bail down test are presented in **Tables 5-2 and 5-3** and presented graphically in **Figures 5-3 and 5-4**, for CH-MW017 and PZ-03, respectively.

Prior to the bail-down test at CH-MW017, the initial thickness of LNAPL (three days after installation) was 1.98 ft. After two hours, the LNAPL had recovered to 0.56 feet; after four hours, the LNAPL had recovered to 0.82 feet; after 20 hours, the LNAPL had recovered to 1.57 ft; and after 4 days, the LNAPL had recovered to 2.81 ft.

Prior to the bail-down test at CH-MW017, the initial groundwater depth was 27.52 feet bgs. After two hours after the bail down, the groundwater had slightly fluctuated to 27.06 feet bgs. After 20 hours of measurements, the groundwater had fluctuated to 27.10 feet bgs and after four days, the groundwater had recovered to 28.08 with 2.81 feet of LNAPL.

LNAPL recovery information can be utilized as a factor in the decision process of whether an active recovery (i.e., pumping) LNAPL system would be productive as a remediation option. Based on the measurements of LNAPL recovery at CH-MW017, LNAPL recovers very slowly at this location, indicating that an active recovery LNAPL system may not be warranted. It appears from the fluctuation of the groundwater measurements in response to LNAPL removal that the soils in the area of CH-MW017 have low permeability. However, aquifer testing (slug testing) of the perched aquifer to determine the hydraulic conductivity should be conducted during Phase III activities.

Prior to the bail-down test at PZ-03 (six months after installation), the initial thickness of LNAPL was 8.81 ft. Upon evacuating all LNAPL from the temporary piezometer, LNAPL did no re-enter the borehole for 70 minutes. After four days of recovery measurements, LNAPL thickness had only returned to 0.18 ft and appeared to be stable (see **Figure 5-4**). Prior to the bail-down test at PZ-03, the initial groundwater level was measured at 19.50 feet bgs. After four days of recovery measurements, the groundwater had fluctuated to 11.75 feet bgs.

Based on the measurements of LNAPL recovery at PZ-03, very little LNAPL is available for recovery. This may be a result of the PZ-03 being located within the former USTs excavation pit at Building 203. Residual petroleum in the excavation pit fill material does not appear to have significant volume to transmit LNAPL to the well. The result of groundwater gauging at PZ-03 indicates that the perched groundwater was displaced by the LNAPL and recovered from 19.50 to 11.75 feet bgs once the LNAPL was evacuated. The rapid recovery of the perched groundwater indicates the soils in the former UST excavation have low permeability in the area of PZ-03.

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6.0 DEVIATIONS FROM THE PHASE II RI WP ADDENDUM

The Phase II investigation was generally completed to the scope that was provided in the RI WP Addendum. However, some field decisions and deviations to the RI WP Addendum occurred during the Phase II activities, as established in discussions between the USACE and AECOM-Tidewater JV team. Notable deviations and field decisions included the following:

- The RI WP Addendum indicated that a MIP tool may be utilized to delineate the dissolved-phase plume of residual petroleum. Due to the extent of LNAPL in the study area, LIF was determined to be the more appropriate tool for the Phase II effort and MIP was not utilized. The MIP tool could be severely damaged if LNAPL (saturated phase) is encountered and is more appropriate for lower concentrations of VOCs. Additionally, the RI WP Addendum indicated that the HPT may be utilized at up to three locations to assess soil porosity and indicate possible preferential pathways for contaminant migration. However, because the HPT tool is conjoined with the MIP tool and the MIP tool was not utilized, no HPT data was gathered during the Phase II LIF screening.

- The RI WP Addendum proposed one monitoring well (CH-MW021) to be installed immediately adjacent to LNAPL observed near piezometer PZ-03, to be used for LNAPL monitoring to provide information for potential remediation options. However, upon discussion during the Phase II event, the USACE and AECOM-Tidewater JV team decided that well installation during this phase should not focus on remediation, but rather, wells should be installed around the hotspot area to further delineate the nature and extent of contamination.

- The original hotspot area in the RI WP Addendum was based on Phase I results and encompassed the suspected LNAPL area at the site. However, the LIF UVOST® screening results indicated that the LNAPL area was larger than originally expected and the "hotspot" DU was redrawn during the Phase II activities to reflect the updated LNAPL plume.

- The RI WP Addendum indicated that soil borings within the "hotspot" DU would be advanced to 25 ft bgs. However, the LIF UVOST® screening indicated contamination was present at depths up to 35 ft bgs, so the soil borings in the "hotspot" DU were advanced to 35 ft bgs or deeper, if petroleum impacts were noted at 35 ft bgs.

- In order to fill the gap in the LIF data in the area of concrete refusal, the "outside hotspot" soil boring locations 203-SB33, 203-SB35, and 203-SB37 were advanced to 35 ft bgs and soil samples were collected, which was a deviation from the proposed 10 ft bgs depth stated in the RI WP Addendum.

- Groundwater samples from one of the background monitoring wells (CH-MW008) exhibited high pH readings (10+) prior to and after well development and it was suspected that the high pH in the groundwater may be a result of cement grouting of the well. The high pH in the groundwater could not be reduced via well development due to the extremely low recharge at this well. The USACE and AECOM-Tidewater JV team decided this well would not be sampled during the Phase II field effort and would be re-evaluated for additional development and sampling during the Phase III effort.

- Additionally, the Fall of 2016 was a notably dry season with low-precipitation, leading to drought conditions and decreased perched groundwater availability at some background well locations. Insufficient groundwater was present at two background wells (CH-MW007 and CH-MW011) and one well at Building 203 (CH-MW021) to complete sampling via low-flow methodology. Instead, grab groundwater samples were collected at these locations for the dissolved and total metals.

- Surveying of monitoring wells was postponed to the Phase III field effort.

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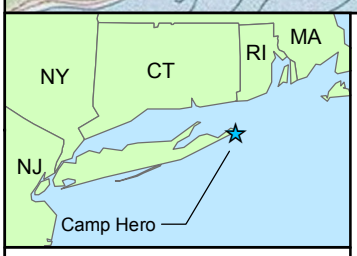
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Attachment A

Figures

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MAP LOCATION

N
W E
S

0 1,000 2,000 Feet

1 inch = 2,000 feet

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General Location Map

Camp Hero Phase II Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	January 2017	**Figure 1-1**

9/29/2016 1:24,000 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 1-1 General Location.mxd

Camp Hero Natural Features

DEC Wetlands

- Class 1
- Class 2

Surface Water

- Low Gradient Drainage
- Intermittent Drainage without Revetment
- Intermittent Drainage with Revetment
- Primary Drainage without Revetment
- Primary Drainage with Revetment
- Surface Water Divide

Camp Hero Built Features

- AGC Site (NFA)
- State Park Bluffs (NFA)

Buildings
- Existing Building
- Former Building

Restricted Areas
- Area H
- Area K

State Park Trails
- Battery 112 Trail
- Battery 113 Trail
- Paumanok Path

State Park Areas
- Camping
- Picnic
- Fence
- Road

Sanitary Sewer System
- Primary Sanitary Sewer Line
- Secondary WDS Line
- Septic Lines
- Drain Tilefields
- Septic Tank
- Other
- Manhole
- Box (cleanout or other)
- Cesspool

AOC ID	AOC Name
10	Building 10
034	Former Building 34
107	Electrical Substation
112	Battery 112
201	Building 201
203	Building 203 (LNAPL)
203	Building 203 (broader impacts)
216	Battery 216
2010	Building 2010 (UST 30)
AGC1	AGC Site 1
AGC2	AGC Site 2
AGC3	Camp Hero State Park Bluffs / AGC Site 3
AGC4	AGC Site 4
AST35	AST-35 (H-13)
B113	Battery 113
EFO	Engineering Field Office
F100C	Building F100C (UST 34)
FPH	FPH for AST-35
H1	Drum Location (H-1)
H11	Former Power Plant (H-11)
H12	Sewage Ejector Station (H-12)
H14	Former Coal Storage (H-14)
H15	Former Coal Storage (H-15)
H16	Former Sewage Treatment Area (H-16)
H17	Open Pits (H-17)
H18	Drum Location (H-18)
H19	Former AST (H-19)
H2	Drum Location (H-2)
H20	Drum Location (H-20)
H21	Open Pits (H-21)
H22	Drum Site (H-22)
H3	Drum Site (H-3)
H4	Construction Debris Area (H-4)
H5	Drum Location with Construction Debris (H-5)
H6	Construction Debris Area (H-6)
H7	H-7 Boiler
H8	H-8 Boiler
H9	Possible Boiler (H-9)
MP	Motor Pool
P113	Plotting Room 113
STA	Building 20 (Tank A)
STB	Suspected Tank B
STC	Building 2 (Tank C)
STD	Building 104R (Tank D)
STE	Building 3001 (Tank E)
STF	Pump House (Tank F)
STG	Pump House (Tank G)
STH	Building 109 (Tank H)
WDS	WDS SB01 - SB03 Chlorine Contact Chamber
WDS	WDS SB04 - SB05 Septic Tank
WDS	WDS SB06 - SB07 Suspected Septic Tank
WDS	WDS SB08 - SB09 Box and Manhole
WDS	WDS SB10 Box
WDS	WDS SB11 Cesspool
WDS	WDS SB12 - SB13 Manholes
WDS	WDS SB14 - SB17 Cesspools
WDS	WDS SB18 - SB19
WDS	WDS SB20 Septic Tank



MAP LOCATION

Surface water features obtained from National Hydrography Dataset (NHD) Dates of publication vary.

Wetlands shapes from New York State Department of Environmental Conservation (NYSDEC).

Coordinate System: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

0 75 150 300 Feet

1 inch = 150 feet

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Site Map with AOC Locations

Camp Hero Remedial Investigation
Montauk, New York

PROJECT NO	PREPARED BY	DATE	Figure 1-2
60443903	JB	April 2017	

4/18/2017 1:1,800 \\USCHL1FP001\Data\Projects\Gov\Projects\USACE\Camp_Hero\GIS\Projects\Phase_III_RI\MXD\Fig_10_3_Site_Map_with_AOCs.mxd





MAP LOCATION

Source: Adapted from National Hydrography Dataset (NHD)

Coordinate System: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

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1 inch = 650 feet

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Camp Hero Surface Water Drainage

Phase II Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	ACC	November 2017	**Figure 3-1**

4/13/2017 1:7,800 Y:\Projects\Camp_Hero\Maps\Phase II Field Investigation Report\Fig 2-1 Surface Water Drainage.mxd





MAP LOCATION

Groundwater Contour Interval = 5 feet

Surface water features obtained from National Hydrography Dataset (NHD) Dates of publication vary.

Groundwater measurements are from tempoary wells installed in June 2016

Coordinate System: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983

Hillshade Vertical Exaggeration = 3X

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1 inch = 400 feet

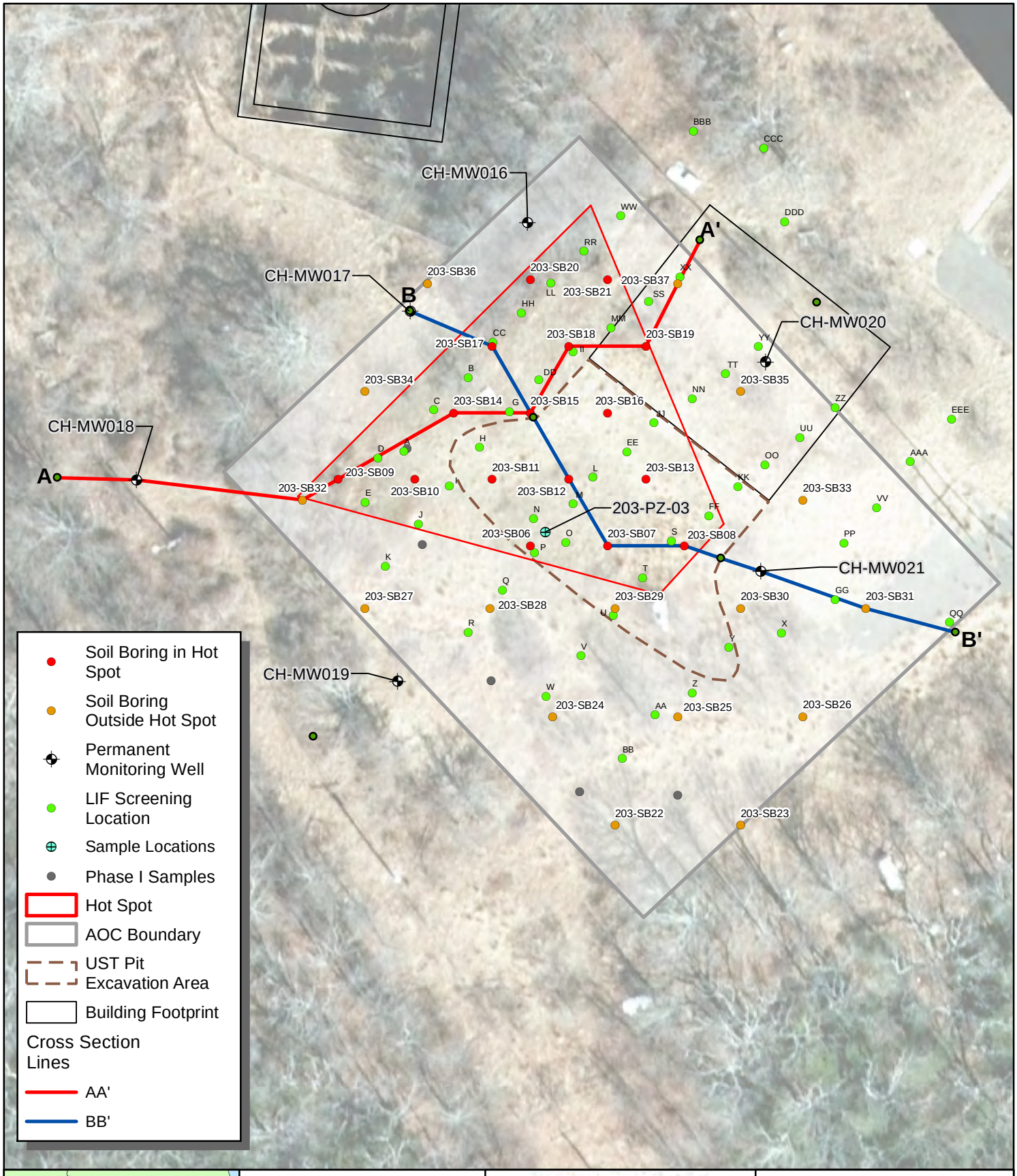
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Background Monitoring Well Locations

Camp Hero RI Workplan Addendum

PROJECT NO.	PREPARED BY:	DATE:	
60443903	ACC	November 2016	**Figure 4-1**

11/14/2016 1:4,800 Y:\Projects\Camp_Hero\Maps\Phase II Workplan\Fig 3-6 Background Groundwater Sampling.mxd



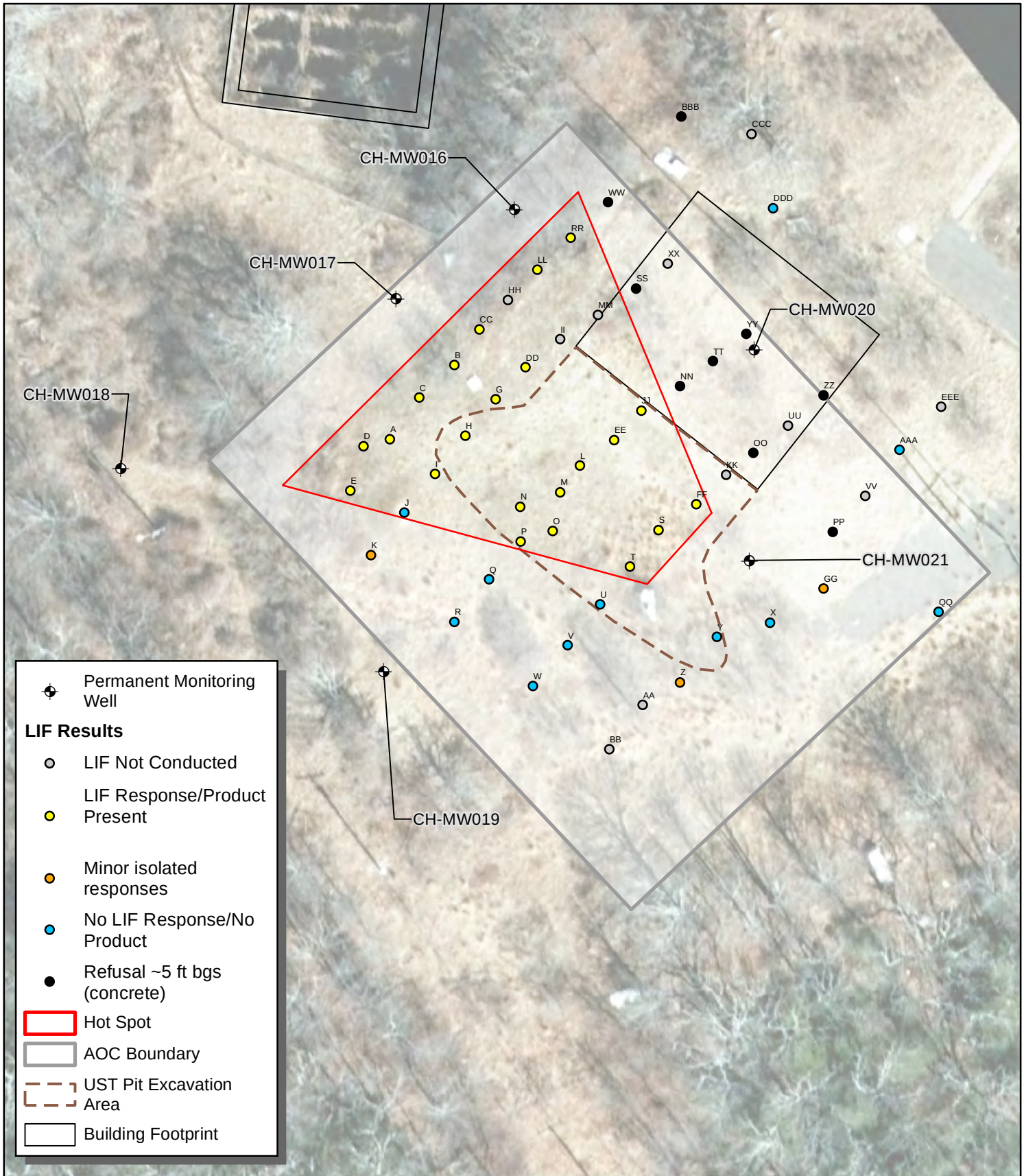
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Building 203
LIF Screening and Sampling Locations

Phase II Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	ACC	February 2017	**Figure 5-1**

2/28/2017 1:480 Y:\Projects\Camp_Hero\Maps\Phase II Field Investigation Report\Figure 4-2 Building 203 Phase II RI LIF Screening and Sampling Locations.mxd (USCHL1FP002\Data\Library\Gisprojects\)





MAP LOCATION

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1 inch = 40 feet

NAD 1983 StatePlane Long Island FIPS 3104

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Building 203 LIF Results

Phase II Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	ACC	February 2017	**Figure 5-2**

2/23/2017 1:480 Y:\Projects\Camp_Hero\Maps\Phase II Field Investigation Report\Figure 4-3 Building 203 Phase II RI LIF Results.mxd (USCHL1FP002\Data\Library\Gisprojects\)

Figure 5-3. LNAPL Thickness Recovery Data, CH-MW017

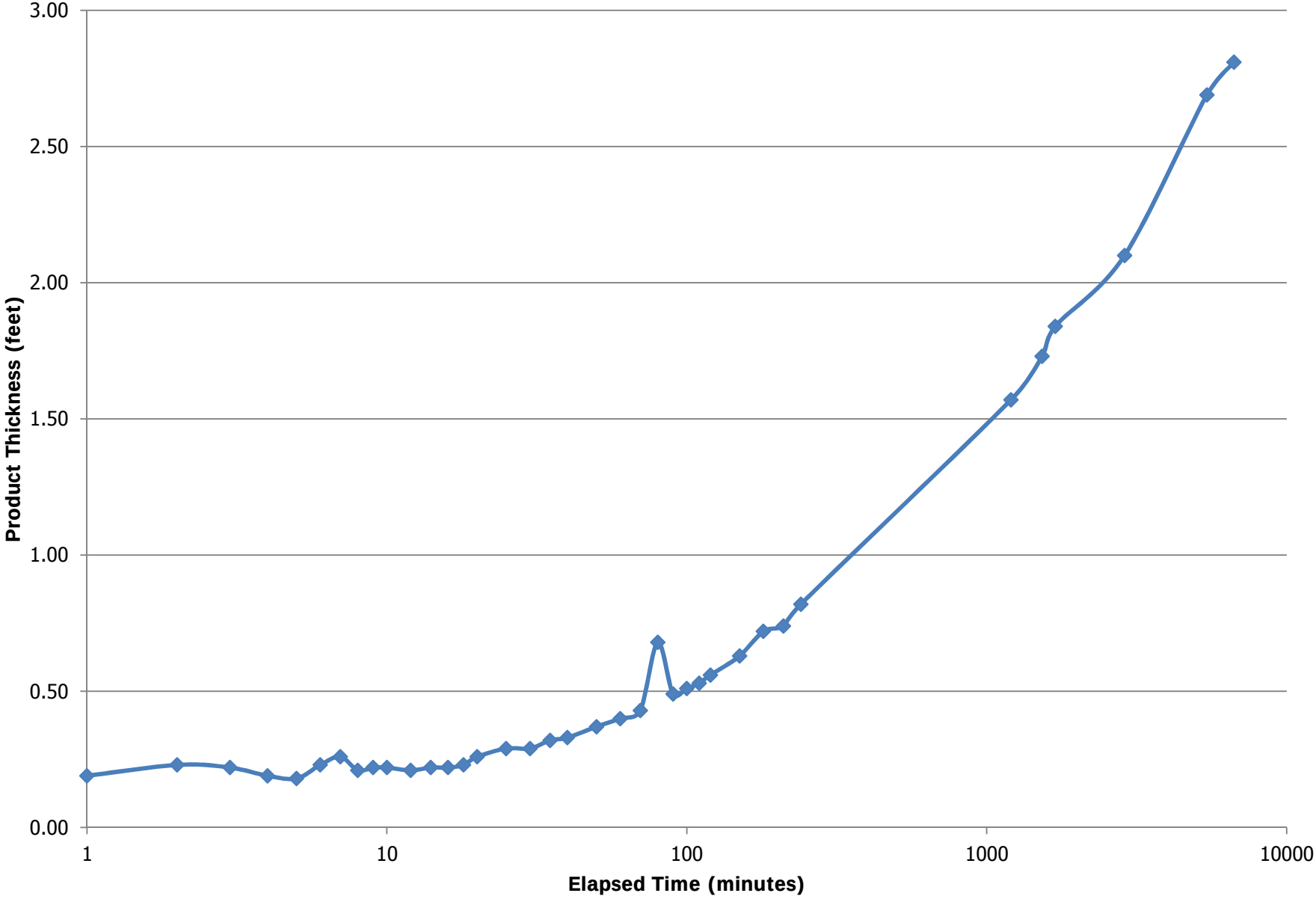
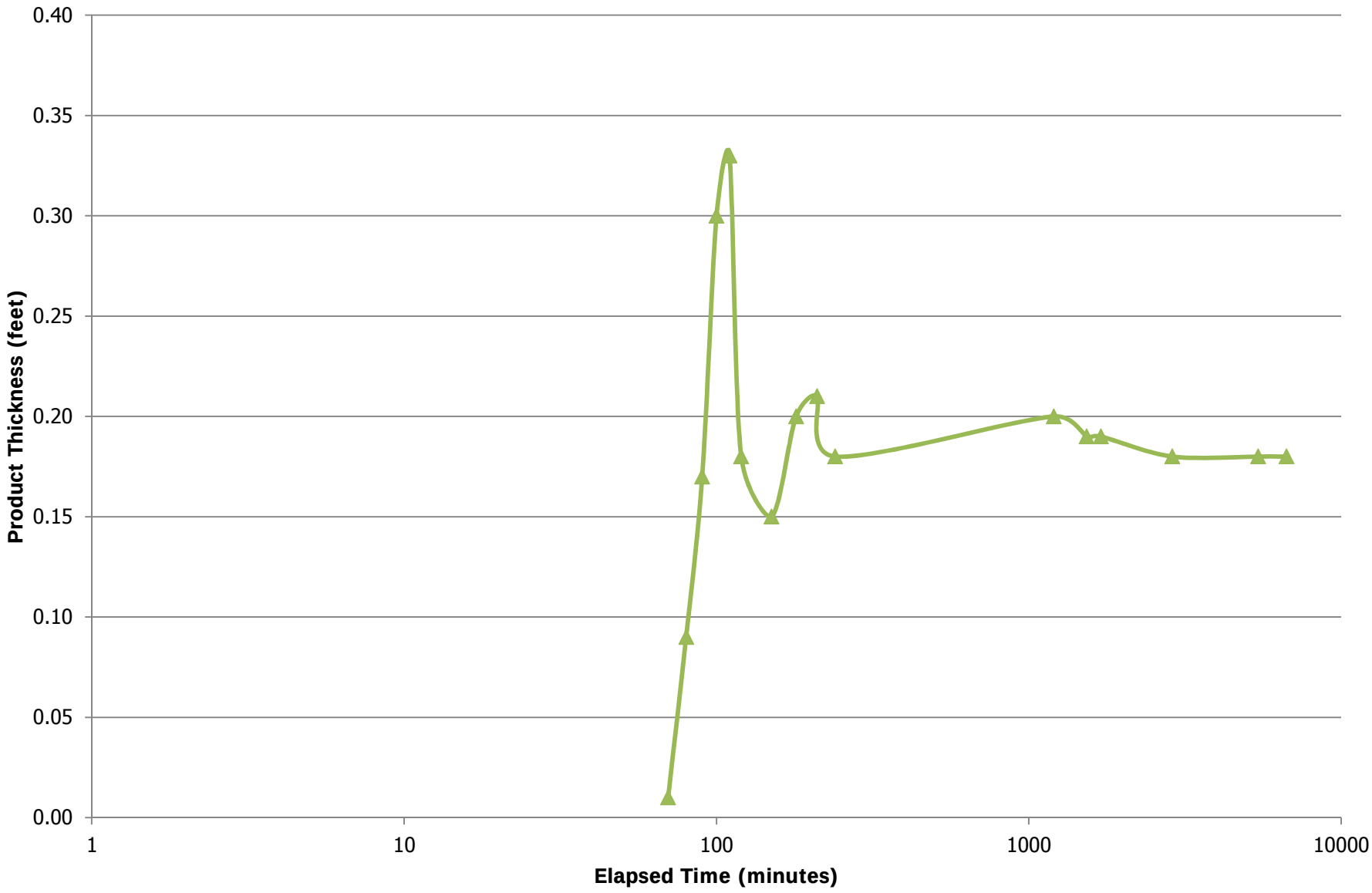


Figure 5-4. LNAPL Thickness Recovery Data, PZ-03



Attachment B

Tables

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Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
B113	Battery 113	Oil Staining	Bunker surrounded by mowed turf. Bunker proper consists of mixed hardwood forest dominated by *Quercus* species with *Tilia americana, Acer platanoides, Prunus serotina,* and *Acer rubrum.* The understory dominated by *Ilex opaca, Vaccinium corymbosum, Ligustrum* sp.*, Morella pensylvanica, Cornus amomum, Amelanchier canadensis,* and *Rosa multiflora.* Cultivated remnants include *Platanus* x *hispanica* and *Forsythia sp.* Herbaceous layer dominated by *Panicum virgatum, Setaria sp., Schizachyrium scoparium, Hypochaeris radicata, Trifolium repens, Plantago lanceloata,* and *Fragaria virginiica.* No T&E plant species detected within 50'.	Bunker situated on small knoll, general drainage radiating out in all directions, especially to the north-northeast. Palustrine forested wetland located downgradient to the southeast.
203	Former Building 203	Possible solvent and residual petroleum	Successional field with scattered shrub thickets dominated by *Elaeagnus umbellata, Schizachyrium scoparium, Panicum virgatum*, and *Euthamia graminifolia*. Also *Rosa multiflora, Vaccinium corymbosum*, and *Lonicera japonica* present. *Viburnum dentatum* var. *venosum* detected within 50'.	General drainage to west, south and southeast. Palustrine forested wetland located downgradient to the southeast.
2010	Building 2010 (UST 30)	Pb in Background	Weedy turf and semi-open mixed hardwood forest to the south dominated by *Prunus serotina, Acer rubrum, Sassafras albidum,* and *Carya tomentosa.* Understory shrub layer dominated by *Hamamelis virginiana, Ligustrum sp., Rosa multiflora, Kalmia latifolia, Lonicera japonica,* and *Ilex opaca.* Herbaceous layer dominated by *Juncus tenuis, Euthamia graminifolia, Cirsium arvense,* and *Schizachyrium scoparium.* No T&E plant species detected within 50'.	Palustrine forested wetland located downgradient to the north. Forested wetlands are dominated by an *Acer rubrum* canopy with a *Lindera benzoin, Vaccinium corymbosum, Symplocarpus foetidus,* and *Phragmites australis ssp. australis* understory.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
F100C	Building F100C (UST 34)	Pb in Background	Margin of moist thicket dominated by *Rosa multiflora, Sambucus canadensis, Ligustrum* sp., *Morella pensylvanica, Lindera benzoin, Lonicera japonica, Smilax rotundifolia, Vitis* sp., *Phragmites australis* ssp. *australis*, *Euthamia graminifolia, Artemisia vulgaris, Cirsium arvense*, and *Solanum cariolinense*. Only 1 tree observe- *Quercus velutina*. *Viburnum dentatum* var. *venosum* detected within 50'.	General drainage to west and south, emergent wetland located downgradient to the east across a road.
AST35	AST 35/H-13	Tank #35, 200,000 gallon tank associated with reported spill	Mixed hardwood forest dominated by *Quercus* spp. to the east. North, west, and south pavement and herbaceous fields and shrub thickets dominated by *Salix* (Sect. *Cineralla*?), *Morella pensylvanica, Rosa multiflora, Juniperus virginiana, Ligustrum* sp., *Phragmites australis* ssp. *australis, Euthamia graminifolia, Panicum virgatum, Cirsium vulgare, Schizachyrium scoparium, Artemiais vulgaris, Lonicera japonica*. No T&E plant species detected within 50'.	General drainage along streamlet to south. Palustrine forested wetland located downgradient to the southeast.
FPH	Fuel Pump House and Distribution Line for AST-35	Fuel Line	Mixed hardwood forest dominated by *Quercus* species to the east. North, west, and south pavement and herbaceous fields and shrub thickets dominated by *Salix* (Sect. *Cineralla*?), *Morella pensylvanica, Rosa multiflora, Juniperus virginiana, Ligustrum* sp., *Phragmites australis* ssp. *australis, Euthamia graminifolia, Panicum virgatum, Cirsium vulgare, Schizachyrium scoparium, Artemiais vulgaris, Lonicera japonica*. No T&E plant species detected within 50'.	General drainage along streamlet to south. Palustrine forested wetland located downgradient to the southeast.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
STB	Building 22 (Tank B)	Suspected former tank location 1	Weedy turf with mixed hardwood forest to north and ornamental conifers next to buildings. Mixed hardwood forest dominated by *Quercus* species with *Sassafras albidum, Ilex opaca, Ligustrum* sp., *Smilax rotundifolia, Celastrus orbiculatus*, and *Betula* sp. Turf areas dominated by Poaceae, *Hypochaeris radicata*, and *Plantago lanceolata*. No T&E plant species detected within 50'.	General drainage north into mixed harwood forest and south into turf areas. Also small closed basin along west-southwest corner of former building 22.
112	Battery 112 (UST 36, 37)	Oil Staining	Mixed hardwwod forest on bunker proper and north side of bunker- dominated by *Quercus* sp., *Prunus serotina*, *Acer platanoides*, and *Tilia americana*. Understroy dominated by *Ligustrum* sp., *Ilex opaca, Morella pensylvanica, Vaccinium corymbosum*, and *Amelanchier canadensis*. Also some relictal cultivated *Forsythia* sp. Herbaceous layer dominated by *Hypochaeris radicata, Plantago lanceloata, Trifolium repens, Solanum carolinense, Panicum virgatum, Alliaria petiolata, Setaria* sp., *Schizachyrium scoparium, Juncus tenuis, Euthamia graminifolia, Cirsium vulgare*, and *Hieracium* sp. *Viburnum dentatum* var. *venosum* detected around margins.	Bunker situated on small knoll, general drainage radiating out in all directions. Palustrine forested wetland located downgradient to the west.
201	Building 201	Cesspool	Building surrounded by weedy turf, shrub thickets, pavement, and debris. Dominant species include *Ligustrum* sp., *Prunus serotina, Celastrus orbiculatus, Euthamia graminaifolia, Achillea millifolium, Artemisia vulgaris, Schizachyrium scoparium, Panicum virgatum, Asclepias syriacus*, and *Verbascum thapsus*. No T&E plant species detected within 50'.	General drainage to south. Palustrine forested wetland located downgradient to the southeast.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
WDS	Abandoned Waste Disposal Systems (Line A)	Hazardous Material Disposal	Traverses along mixed hardwood forest; some areas wet, some areas mesic on upper banks. Dominanted by *Quercus* sp., *Betula* sp., *Acer rubrum, Tilia americana, Acer platanoides, Ligustrum* sp., *Hamamelis virginiana, Ilex opaca, Berberis thunbergii, Lonicera japonica, Smilax rotundifolia, Celastrus orbiculatus, Vitis* sp., *Symplocarpus foetidus*, and *Euthamia graminifolia*. Also relictal cultivated *Plantanus* x *hispanica* along roadside. *Viburnum dentatum* var. *venosum* possibly within 50' of SB25-27.	Sewer line skirts edge of low *Acer rubrum* dominated wet woods to the west.
WDS	Abandoned Waste Disposal Systems (Line C)	Hazardous Material Disposal	Traverses mowed weedy turf and shrubby thicket habitats. Dominant species in unmowed areas include *Prunus serotina, Elaeagnus umbellata, Vitis* sp., *Euthamia graminifolia, Panicum virgatum*, and *Sorghastrum nutans*. *Viburnum dentatum* var. *venosum* possibly within 50' of SB18.	The bulk of this line on a small knoll, general drainage radiating out in all directions. Palustrine forested wetland located downgradient to the north.
WDS	Abandoned Waste Disposal Systems (Line D)	Hazardous Material Disposal	Traverses along roadside of weedy, mowed turf along the southern section; transitioning into a mixed hardwood forest along the northern section. Forest dominated by *Quercus* sp., *Prunus serotina, Ligustrum* sp., *Lonicera morrowii, Ilex opaca, Amelanchier canadensis*, and *Panicum virgatum*. *Viburnum dentatum* var. *venosum* possibly within 50' of SB15-17.	General drainage to the east-northeast through mixed hardwood forest; palustrine forested wetland located downgradient approximately 500' to the east.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
WDS	Abandoned Waste Disposal Systems (Line E)	Hazardous Material Disposal	Traverses along roadside of weedy, mowed turf and adjacent to mixed hardwood forest. Small sections also adjacent to marshalling/storage yards. Dominant species include *Quercus* sp., *Acer platanoides, Tilia americana, Ilex opaca, Rosa multiflora, Clethra alnifolia, Vaccinium corymbosum, Lonicera japonica, Smilax rotundifolia, Artemisisa vulgaris*, and *Panicum virgatum*. Scattered *Viburnum dentatum* var. *venosum* along route within 50' of sewer line.	Bulk of line on relatively flat area, drainage not apparent; eastern terminus (at junction of F line) near south-flowing stream.
WDS	Abandoned Waste Disposal Systems (Line F)	Hazardous Material Disposal	Parallels south-southeast flowing stream. Bulk of line in the northern section traverses through mixed hardwood forests dominated by *Quercus* sp., *Prunus serotina*, *Amelanchier canadensis*, *Vaccinium corymbosum, Rosa multiflora, Smilax rotundifolia, Lonicera japonica,* and *Vitis* sp. Southeastern section transitions into a *Vaccinium corymbosum* dominated shrub swamp. The final section just west of the Chlorine Contact Chamber (CCC) is a more open marsh dominated in part by *Phragmites australis* ssp. *australis*. Around the CCC proper is a *Elaeagnus umbellata* and *Lonicera morrowii* dominated shrub habitat. *Viburnum dentatum* var. *venosum* possibly within 50' of the CCC along road.	General drainage follows south-southeast flowing stream with terminus in Atlantic Ocean. All nearby palustrine forested wetlands are upslope.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
MP	Motor Pool	Hydraulic Lift, Ordinance Repair, Cess Pool	Mesic turf, turf/gravel mix, and pavement/gravel with some scattered, relictal *Quercus* trees. Turf areas dominated by Poaceae and *Trifolium repens*. Wet woods to the south dominated by *Acer rubrum* and *Ilex opaca*, road to the north. No T&E plant species detected within 50'.	General drainage to south and east. Drainage east somewhat nebulous with a possible closed basin as well as an underground culvert leading to stream to northeast. The stream flows southeast.
034	Former Building 34	Former Building, Construction Debris	Mixed hardwood forest and thickets dominated by *Quercus* sp., *Acer rubrum, Sassafras albidum, Prunus serotina, Tilia americana, Rosa multiflora, Ilex opaca, Lonicera morrowii, Rubus* sp., *Celastrus orbiculatus*, and *Salix* (Section *Cinerella*). Herbaceous layer dominated by *Alliaria petiolata, Panicum virgatum*, and *Euthamia graminifolia*. Wet woods to the south and east dominated by *Acer rubrum* and *Ilex opaca*, road to the north. *Viburnum dentatum* var. *venosum* in area.	General drainage to west-southwest and east-northeast. Drainage west into a possible closed basin; an underground culvert leading to stream to northeast. The stream flows southeast.
H1	H-1	1 Drum	Mesic-moist semi-open woods and thickets dominated by *Acer rubrum, Ligustrum* sp., *Ilex opaca, Kalmia latifolia, Vacciinium corymbosum, Alnus* (*serrulata*?), *Phragmites australis* ssp. *australis*, and *Osmunda cinnamomea*. There are also some *Platanus* x *hispanica* present, probably relictal ornamental plantings. *Viburnum dentatum* var. *venosum* within 50' to the southwest.	General drainage to southeast. Palustrine forested wetland located downgradient to the southeast.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
H2	H-2	1 Drum	Mesic open thicket with shrubby thicket to the east, wet woods to the west, and *Phragmites australis* ssp. *australis* wetland to the north. Dominant species include *Acer rubrum, Lonicera morrowii, Rubus phoenicolasius, Lonicera japonica, Vitis* sp., *Euthamia graminifolia*, and *Solanum carolinense*. No T&E plant species detected within 50'.	General drainage to west into wet woods. Palustrine forested wetland located downgradient to the southeast.
H3	H-3	1 Drum	Mixed hardwwod forest dominated by *Quercus* sp., *Sassafras albidum, Carya tomentosa, Kalmia latifolia, Ilex opaca, Hamamelis virginiana, Vaccinium corymbosum, Amelanchier canadensis*, and *Smilax rotundifolia*. No T&E plant species detected within 50'.	General drainage to south into an east-flowing revetment.
H4	H-4	Construction Debris	Mixed hardwood forest dominated by *Quercus* sp., *Acer rubrum, Sassafras albidum, Carya tomentosa,* and *Prunus serotina*. Shrub layer dominated by *Ilex opaca, Vaccinium corymbosum, Lonicera morrowii, Elaeagnus umbellata, Celastrus orbiculatus, Lonicera japonica, Smilax rotundifolia, Vitis* sp., and *Hamamelis virginiana*. *Dennstaedtia punctilobula* and *Phragmites australis* ssp. *australis* dominated theherbaceous layer. No T&E plant species detected wihtin 50'.	General drainage to southeast through mixed hardwood forest.
H5	H-5	Drums	Disturbed semi-open woods with turf to the north and wet woods/swale to south. Dominant woody species include *Acer rubrum, Fagus* (relictal planted *F. sylvatica*?), *Quercus alba, Ilex opaca, Smilax rotundifolia*; with *Alliaria petiolata* in the herb layer. No T&E plant species detected within 50'.	General drainage to west, south and southeast leading to northeast flowing streamlet.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
H6	H-6	Construction Debris	Mixed hardwood forest dominated by *Quercus* sp., *Sassafras albidum, Acer rubrum, Betula* sp., *Ligustrum* sp., *Rubus* sp., *Lonicera morrowii, Berberis thunbergii, Ilex opaca, Prunus serotina, Clethra alnifolia, Lonicera japonica, Smilax rotundifolia, Celastrus orbiculatus*, and *Vitis* sp. No T&E plant species detected within 50'.	Debris on slightly elevated margin of woods with drainage to the north, west, and south into mixed hardwood forest.
H9	H-9	2 Boilers	Embankment bordering *Phragmites australis* ssp. *australis* wet woods to the north and semi-open mixed hardwoods to the south dominated by *Quercus* sp., *Acer platanoides*, and *Tilia americana*. Shrub layer dominated by *Ligustrum* sp., *Lonicera morrowii, Elaeagnus umbellata, Clethra alnifolia*, *Lonicera japonica, Smilax rotundifolia,* and *Rosa multiflora*. No T&E plant species detected within 50'.	General drainage to east through mixed hardwood forest.
H11	H-11	Former Power Plant	Mowed weedy turf adajent moist woods. Dominant species include *Acer rubrum, Betula* sp., *Ligustrum* sp., *Elaeagnus umbellata, Rubus* sp., and *Phragmites australis* ssp. *australis*. Turf areas dominated by Poaceae, *Plantago* sp., *Trifolium repens*, and *Taraxacum officinale*. No T&E plant species detected within 50'.	General drainage to west into *Acer rubrum* dominated wet woods.
H12	H-12	Sewage Ejector Station	Mowed weedy turf adajent moist woods. Dominant species include *Acer rubrum, Betula* sp., *Ligustrum* sp., *Elaeagnus umbellata, Rubus* sp., and *Phragmites australis* ssp. *australis*. Turf areas dominated by Poaceae, *Plantago* sp., *Trifolium repens*, and *Taraxacum officinale*. No T&E plant species detected within 50'.	General drainage to west into *Acer rubrum* dominated wet woods.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
H14	H-14	Coal Storage Area	Turf and successional shrub thickets with scattered young trees. Thickets dominated by *Quercus* sp., *Prunus serotina, Acer rubrum, Carya tomentosa, Lonicera morrowii, Kalmia latifolia, Hamamelis virginiana, Lonicera japonica, Smilax rotundifolia, Vitis* sp., and *Viburnum dentatum* var. *venosum*. Dominant herbs in the turf and thicket margins include *Plantago lanceolata, Trifolium repens, Panicum virgatum*, and *Schizachyrium scoparium*.	General drainage to east leading to small stream located downgradient to the east; stream flowing south-southeast.
H15	H-15	Coal Storage Area	Successional shrub thickets with scattered young trees. Dominated by *Quercus* sp., *Prunus serotina, Amelanchier canadensis, Morella pensylvanica, Vaccinium corymbosum Viburnum dentatum* var. *venosum, Ligustrum* sp., *Ilex opaca, Lonicera morrowii, Smilax rotundifolia, Lonicera japonica, Celastrus orbiculatus*, and *Vitis* sp. Dominant herbs include *Euthamia graminifolia, Alliiaria petiolata*, and *Panicum virgatum*.	General drainage to northeast and west-northwest.
H16	H-16	Sewage Treatment Area	Mixed hardwood forest and thickets dominated by *Quercus* sp., *Acer rubrum, Sassafras albidum, Prunus serotina, Tilia americana, Rosa multiflora, Ilex opaca, Lonicera morrowii, Rubus* sp., *Celastrus orbiculatus*, and *Salix* (Section *Cinerella*). Herbaceous layer dominated by *Alliaria petiolata, Panicum virgatum*, and *Euthamia graminifolia*. Wet woods to the south and east dominated by *Acer rubrum* and *Ilex opaca*, road to the north. Some *Viburnum dentatum* var. *venosum* within 50'.	General drainage to west-southwest and east-northeast. Drainage west into a possible closed basin; an underground culvert leading to stream to northeast. The stream flows southeast.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
H17	H-17	Open Pits	Mesic-dry mixed hardwood forest dominated by *Quercus* sp., *Amelanchier canadensis, Ilex opaca, Prunus serotina, Celastrus orbiculatus, Vitis* sp., and *Smilax rotundifolia*. *Viburnum dentatum* var. *venosum* within 50'.	General drainage to east through mixed hardwood forest.
H18	H-18	Drum Debris	Mixed hardwood forest dominated by *Quercus* sp., *Acer platanoides* and *Tilia americana*. No shrub layer, *Alliaria petiolata* in herbaceous layer. No T&E plant species detected within 50'.	Situated on small knoll, general drainage to possible palustrine forested wetland located downgradient to the west-northwest.
H19	H-19	550 gal Storage Tank	Mixed hardwood forest dominated by *Quercus* sp., *Prunus serotina, Celastrus orbiculatus, Smilax rotundifolia*, and *Lonicera japonica*. *Viburnum dentatum* var. *venosum* detected within 50'.	General drainage to south-southeast leading to a revetment also flowing east-southeast.
H20	H-20	1 Drum	Mixed hardwood forest dominated by *Quercus* sp., *Fagus grandifolia*, and *Acer rubrum*. Understory sominated by *Lindera benzoin, Ligustrum* sp., *Ilex opaca*, and *Amelanchier canadensis*. No T&E plant species detected within 50'.	In revetment which flows to southeast.
H21	H-21	Open Pits (coal also present)	Mixed hardwwod semi-open woods and thickets dominated by *Quercus* sp., *Acer rubrum, Carya tomentosa, Sassafras albidum, Viburnum dentatum* var. *venosum, Lonicera morrowii, Kalmia latifolia, Hamamelis virginiana, Lonicera japonica, Smilax rotundifolia*, and *Vitis* sp.	General drainage to west leading to small stream located downgradient to the west; stream flowing south-southeast.
H22	H-22	1 Drum	Mixed hardwood forest dominated by *Quercus* sp. and *Prunus serotina, Ilex opaca, Vaccinium corymbosum*, and *Smilax rotundifolia*. *Viburnum dentatum* var. *venosum* detected within 50' (one next to drum).	In revetment which flows west.

Table 2-1. Summary of Ecological Settings of Areas of Concern

AOC ID	AOC Name	Reason for Concern	Terrestrial Habitat at AOC	Aquatic Resources Associated with AOC
P113	Plotting Room 113	Possible Debris	Mixed hardwood forest dominated by *Quercus* sp., *Acer platanoides, Acer rubrum, Fagus grandifolia, Sassafras albidum, Prunus serotina*, and *Tilia americana*. Also relictal cultivated *Platanus* x *hispanica*. Shrub layer dominated by *Ligustrum* sp., *Ilex opaca, Vaccinium corymbosum, Smilax rotundifolia, Kalmia latifolia*, and relictal cultivated *Forsythia* sp. *Alliaria petiolata* in herbaceous layer. *Viburnum dentatum* var. *venosum* detected within 50'.	Small streams along north-east and south sides, confluence at southeast of structure and continuation of flow to southeast through mixed hardwood forest.

Notes

AOC	Area of Concern
AST	Aboveground Storage Tank
ID	Identification
T&E	Threatened and Endangered

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Table 2-2. Summary of Phase II IDW Soil Analytical Results

		Sample ID	ST-20161216-01	ST-20161216-02
		Sample Date	12/16/2016	12/16/2016
Chemical	Unit	NYSDEC RESTRICTED USE FOR PROTECTION OF GW		
Conventional				
Cyanide (CN-)	mg/kg	40	< 0.19 U	< 0.19 U
Percent Moisture	%	NE	9.2	10.4
Metals				
Aluminum	mg/kg	NE	19600	10600
Antimony	mg/kg	NE	< 0.100 U	< 0.0812 U
Arsenic	mg/kg	16	6.03	3.41
Barium	mg/kg	820	174	71.3
Beryllium	mg/kg	47	0.836	0.474
Cadmium	mg/kg	7.5	0.0744 J	< 0.0321 U
Calcium (Ca)	mg/kg	NE	8160	1160
Chromium	mg/kg	NE	40.7	21.4
Chromium(III), Insoluble Salts	mg/kg	NE	39.9	20.9
Chromium(VI)	mg/kg	19	0.79	0.51
Cobalt	mg/kg	NE	11.3	5.64
Copper	mg/kg	1720	25.0	10.9
Iron (Fe)	mg/kg	NE	26900	14500
Lead	mg/kg	450	8.56	4.35
Magnesium (Mg)	mg/kg	NE	8200	3560
Manganese (Mn)	mg/kg	2000	456	211
Mercury	mg/kg	0.73	< 0.0107 U	< 0.0110 U
Nickel	mg/kg	130	26.0	11.4
Potassium (K)	mg/kg	NE	7150	2660
Selenium	mg/kg	4	< 0.0891 U	< 0.0723 U
Silver	mg/kg	8.3	< 0.0241 U	< 0.0195 U
Sodium (Na)	mg/kg	NE	358	121
Thallium	mg/kg	NE	0.344	0.182
Vanadium	mg/kg	NE	58.3	28.4
Zinc	mg/kg	2480	61.2	29.4
PCBs				
Aroclor 1016	mg/kg	NE	< 0.0039 U	< 0.0040 U
Aroclor 1221	mg/kg	NE	< 0.0050 U	< 0.0051 U
Aroclor 1232	mg/kg	NE	< 0.0087 U	< 0.0089 U
Aroclor 1242	mg/kg	NE	< 0.0036 U	< 0.0037 U
Aroclor 1248	mg/kg	NE	< 0.0036 U	< 0.0037 U
Aroclor 1254	mg/kg	NE	< 0.0036 U	< 0.0037 U
Aroclor 1260	mg/kg	NE	< 0.0053 U	< 0.0055 U
Aroclor 1262	mg/kg	NE	< 0.0036 U	< 0.0037 U
Aroclor 1268	mg/kg	NE	< 0.0036 U	< 0.0037 U
Pesticides				
4,4'-DDD	mg/kg	14	< 0.00036 U	0.00044 J
4,4'-DDE	mg/kg	17	0.00066 J	0.00047 J
4,4'-DDT	mg/kg	136	< 0.00038 U	< 0.00039 U
Aldrin	mg/kg	0.19	< 0.00019 U	< 0.00019 U
alpha Chlordane	mg/kg	2.9	< 0.00019 U	< 0.00019 U
alpha-BHC	mg/kg	0.02	< 0.00019 U	0.00031 J
beta-BHC	mg/kg	0.09	< 0.00033 U	< 0.00033 U
Chlordan trans	mg/kg	NE	0.00087 J	< 0.00019 U
delta-BHC	mg/kg	0.25	< 0.00049 U	< 0.00050 U
Dieldrin	mg/kg	0.1	< 0.00036 U	< 0.00037 U
Endosulfan I	mg/kg	102	0.00043 J	< 0.00024 U
Endosulfan II	mg/kg	102	< 0.00036 U	< 0.00037 U
Endosulfan sulfate	mg/kg	1000	< 0.00036 U	< 0.00037 U
Endrin	mg/kg	0.06	< 0.00036 U	< 0.00037 U
Endrin aldehyde	mg/kg	NE	< 0.00036 U	< 0.00037 U
Endrin ketone	mg/kg	NE	< 0.00066 U	< 0.00067 U
gamma-BHC (Lindane)	mg/kg	0.1	0.00042 J	< 0.00019 U
Heptachlor	mg/kg	0.38	< 0.00019 U	< 0.00019 U

Table 2-2. Summary of Phase II IDW Soil Analytical Results

		Sample ID	ST-20161216-01	ST-20161216-02
		Sample Date	12/16/2016	12/16/2016
Chemical	**Unit**	**NYSDEC RESTRICTED USE FOR PROTECTION OF GW**		
Heptachlor epoxide	mg/kg	NE	0.00039 J	< 0.00019 U
Methoxychlor	mg/kg	NE	< 0.0019 U	< 0.0019 U
Toxaphene	mg/kg	NE	< 0.015 U	< 0.016 U
SVOC SIM				
1-Methylnaphthalene	mg/kg	NE	0.23	
2-Methylnaphthalene	mg/kg	NE	0.56	
Acenaphthene	mg/kg	98	0.048	
Acenaphthylene	mg/kg	107	< 0.00036 U	
Anthracene	mg/kg	1000	0.021	
Benzo(a)anthracene	mg/kg	1	0.0064	
Benzo(a)pyrene	mg/kg	22	0.0053	
Benzo(b)fluoranthene	mg/kg	1.7	0.0086	
Benzo(g,h,i)perylene	mg/kg	1000	0.0021	
Benzo(k)fluoranthene	mg/kg	1.7	0.0035	
Chrysene	mg/kg	1	0.0075	
Dibenz(a,h)anthracene	mg/kg	1000	0.00074 J	
Fluoranthene	mg/kg	1000	0.023	
Fluorene	mg/kg	386	0.12	
Indeno(1,2,3-cd)pyrene	mg/kg	8.2	0.0021	
Naphthalene	mg/kg	12	0.10	
Phenanthrene	mg/kg	1000	0.26	
Pyrene	mg/kg	1000	0.028	
SVOCs				
1,2,4-Trichlorobenzene	mg/kg	NE	< 0.018 U	< 0.018 U
1,2-Dichlorobenzene	mg/kg	1.1	< 0.018 U	< 0.018 U
1,3-Dichlorobenzene	mg/kg	2.4	< 0.018 U	< 0.018 U
1,4-Dichlorobenzene	mg/kg	1.8	< 0.018 U	< 0.018 U
1-Methylnaphthalene	mg/kg	NE	0.30	15
2,4,5-Trichlorophenol	mg/kg	NE	< 0.018 U	< 0.018 U
2,4,6-Trichlorophenol	mg/kg	NE	< 0.018 U	< 0.018 U
2,4-Dichlorophenol	mg/kg	NE	< 0.018 U	< 0.018 U
2,4-Dimethylphenol	mg/kg	NE	< 0.018 U	< 0.018 U
2,4-Dinitrophenol	mg/kg	NE	< 0.33 U	< 0.33 U
2,4-Dinitrotoluene	mg/kg	NE	< 0.073 U	< 0.074 U
2,6-Dinitrotoluene	mg/kg	NE	< 0.018 U	< 0.018 U
2-Chloronaphthalene	mg/kg	NE	< 0.007 U	< 0.007 U
2-Chlorophenol	mg/kg	NE	< 0.018 U	< 0.018 U
2-Methylnaphthalene	mg/kg	NE	0.51	24
2-Methylphenol	mg/kg	0.33	< 0.018 U	< 0.018 U
2-Nitroaniline	mg/kg	NE	< 0.018 U	< 0.018 U
2-Nitrophenol	mg/kg	NE	< 0.018 U	< 0.018 U
3,3-Dichlorobenzidine	mg/kg	NE	< 0.11 U	< 0.11 U
3-Nitroaniline	mg/kg	NE	< 0.073 U	< 0.074 U
4,6-Dinitro-2-methylphenol	mg/kg	NE	< 0.18 U	< 0.18 U
4-Bromophenyl-phenylether	mg/kg	NE	< 0.018 U	< 0.018 U
4-Chloro-3-methylphenol	mg/kg	NE	< 0.018 U	< 0.018 U
4-Chloroaniline	mg/kg	NE	< 0.036 U	< 0.037 U
4-Chlorophenyl-phenylether	mg/kg	NE	< 0.018 U	< 0.018 U
4-Nitroaniline	mg/kg	NE	< 0.073 U	< 0.074 U
4-Nitrophenol	mg/kg	NE	< 0.18 U	< 0.18 U
Acenaphthene	mg/kg	98	0.041	0.83
Acenaphthylene	mg/kg	107	< 0.004 U	< 0.004 U
Acetophenone	mg/kg	NE	< 0.018 U	< 0.018 U
Anthracene	mg/kg	1000	0.026	0.61
Atrazine	mg/kg	NE	< 0.036 U	< 0.037 U
Benzaldehyde	mg/kg	NE	< 0.073 U	< 0.074 U
Benzo(a)anthracene	mg/kg	1	0.008 J	0.069
Benzo(a)pyrene	mg/kg	22	0.007 J	0.045

Table 2-2. Summary of Phase II IDW Soil Analytical Results

		Sample ID	ST-20161216-01	ST-20161216-02
		Sample Date	12/16/2016	12/16/2016
Chemical	**Unit**	**NYSDEC RESTRICTED USE FOR PROTECTION OF GW**		
Benzo(b)fluoranthene	mg/kg	1.7	0.01 J	0.055
Benzo(g,h,i)perylene	mg/kg	1000	< 0.004 U	0.018 J
Benzo(k)fluoranthene	mg/kg	1.7	< 0.004 U	0.026
Benzoic acid	mg/kg	NE	< 0.18 U	< 0.18 U
Benzyl Alcohol	mg/kg	NE	< 0.18 U	< 0.18 U
Biphenyl, 1,1'-	mg/kg	NE	0.12	3.0
Bis(2-chloro-1-methylethyl) ether	mg/kg	NE	< 0.018 U	< 0.018 U
Bis(2-chloroethoxy)methane	mg/kg	NE	< 0.018 U	< 0.018 U
Bis(2-chloroethyl)ether	mg/kg	NE	< 0.018 U	< 0.018 U
Bis(2-ethylhexyl)phthalate	mg/kg	NE	< 0.073 U	0.60
Butyl benzyl phthalate	mg/kg	NE	< 0.073 U	< 0.074 U
Caprolactam	mg/kg	NE	< 0.036 U	< 0.037 U
CARBAZOLE	mg/kg	NE	< 0.018 U	< 0.018 U
Chrysene	mg/kg	1	0.01 J	0.071
Cresol, p-	mg/kg	0.33	< 0.018 U	< 0.018 U
Dibenz(a,h)anthracene	mg/kg	1000	< 0.004 U	0.006 J
Dibenzofuran	mg/kg	210	0.064	1.0
Diethyl phthalate	mg/kg	NE	< 0.073 U	< 0.074 U
Dimethyl phthalate	mg/kg	NE	< 0.073 U	< 0.074 U
Di-n-butyl phthalate	mg/kg	NE	< 0.073 U	< 0.074 U
Di-n-octyl phthalate	mg/kg	NE	< 0.073 U	< 0.074 U
Fluoranthene	mg/kg	1000	0.021	0.26
Fluorene	mg/kg	386	0.096	1.9
Hexachlorobenzene	mg/kg	3.2	< 0.004 U	< 0.004 U
Hexachlorobutadiene	mg/kg	NE	< 0.018 U	< 0.018 U
hexachlorocyclopentadiene	mg/kg	NE	< 0.18 U	< 0.18 U
Hexachloroethane	mg/kg	NE	< 0.036 U	< 0.037 U
Indeno(1,2,3-cd)pyrene	mg/kg	8.2	0.004 J	0.017 J
Isophorone	mg/kg	NE	< 0.018 U	< 0.018 U
Naphthalene	mg/kg	12	0.089	6.2
Nitrobenzene	mg/kg	NE	< 0.018 U	< 0.018 U
n-Nitrosodimethylamine	mg/kg	NE	< 0.073 U	< 0.074 U
n-Nitroso-di-n-propylamine	mg/kg	NE	< 0.018 U	< 0.018 U
n-Nitrosodiphenylamine	mg/kg	NE	< 0.018 U	< 0.018 U
Pentachlorophenol	mg/kg	0.8	< 0.036 U	< 0.037 U
Phenanthrene	mg/kg	1000	0.25	4.4
Phenol	mg/kg	0.33	< 0.018 U	< 0.018 U
Pyrene	mg/kg	1000	0.028	0.37
Tetrachlorobenzene, 1,2,4,5-	mg/kg	NE	< 0.018 U	< 0.018 U
Tetrachlorophenol, 2,3,4,6-	mg/kg	NE	< 0.073 U	< 0.074 U
VOCs				
1,1,1,2-Tetrachloroethane	mg/kg	NE	< 0.001 U	< 0.047 U
1,1,1-Trichloroethane	mg/kg	0.68	< 0.001 U	< 0.047 U
1,1,2,2-Tetrachloroethane	mg/kg	NE	< 0.001 U	< 0.047 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	mg/kg	NE	< 0.003 U	< 0.094 U
1,1,2-Trichloroethane	mg/kg	NE	< 0.001 U	< 0.047 U
1,1-Dichloroethane	mg/kg	0.27	< 0.001 U	< 0.047 U
1,1-Dichloroethene	mg/kg	0.33	< 0.001 U	< 0.047 U
1,2,3-Trichlorobenzene	mg/kg	NE	< 0.001 U	< 0.047 U
1,2,3-Trichloropropane	mg/kg	NE	< 0.001 U	< 0.047 U
1,2-Dibromo-3-chloropropane	mg/kg	NE	< 0.003 U	< 0.094 U
1,2-Dibromoethane	mg/kg	NE	< 0.001 U	< 0.047 U
1,2-Dichloroethane	mg/kg	*0.02*	< 0.001 U	*< 0.047 U*
1,2-Dichloropropane	mg/kg	NE	< 0.001 U	< 0.047 U
1,4-Dioxane	mg/kg	*0.1*	< 0.099 U	*< 3.3 U*
2-Butanone	mg/kg	*0.12*	< 0.006 U	*< 0.19 U*
2-Hexanone	mg/kg	NE	< 0.004 U	< 0.14 U
4-Methyl-2-pentanone	mg/kg	NE	< 0.004 U	< 0.14 U

Table 2-2. Summary of Phase II IDW Soil Analytical Results

		Sample ID	ST-20161216-01	ST-20161216-02
		Sample Date	12/16/2016	12/16/2016
Chemical	**Unit**	**NYSDEC RESTRICTED USE FOR PROTECTION OF GW**		
Acetone	mg/kg	*0.05*	0.014 J	*< 0.33 U*
Benzene	mg/kg	0.06	< 0.0007 U	< 0.023 U
Bromochloromethane	mg/kg	NE	< 0.001 U	< 0.047 U
Bromodichloromethane	mg/kg	NE	< 0.001 U	< 0.047 U
Bromoform	mg/kg	NE	< 0.001 U	< 0.047 U
Bromomethane	mg/kg	NE	< 0.003 U	< 0.094 U
Carbon disulfide	mg/kg	NE	< 0.001 U	< 0.047 U
Carbon tetrachloride	mg/kg	0.76	< 0.001 U	< 0.047 U
Chlorobenzene	mg/kg	1.1	< 0.001 U	< 0.047 U
Chloroethane	mg/kg	NE	< 0.003 U	< 0.094 U
Chloroform	mg/kg	0.37	< 0.001 U	< 0.047 U
Chloromethane	mg/kg	NE	< 0.003 U	< 0.094 U
cis-1,2-Dichloroethene	mg/kg	0.25	< 0.001 U	< 0.047 U
cis-1,3-Dichloropropene	mg/kg	NE	< 0.001 U	< 0.047 U
cyclohexane	mg/kg	NE	< 0.001 U	0.29
Dibromochloromethane	mg/kg	NE	< 0.001 U	< 0.047 U
Dichlorodifluoromethane	mg/kg	NE	< 0.003 U	< 0.094 U
Ethylbenzene	mg/kg	1	< 0.001 U	0.56
Isopropylbenzene	mg/kg	NE	< 0.001 U	0.38
m,p-Xylene	mg/kg	NE	< 0.001 U	0.63
Methyl tert-butyl ether	mg/kg	0.93	< 0.0007 U	< 0.023 U
Methylacetate	mg/kg	NE	< 0.003 U	< 0.094 U
methylcyclohexane	mg/kg	NE	< 0.001 U	1.3
Methylene chloride	mg/kg	*0.05*	< 0.003 U	*< 0.094 U*
o-Xylene	mg/kg	NE	< 0.001 U	0.10 J
Styrene	mg/kg	NE	< 0.001 U	< 0.047 U
Tetrachloroethene	mg/kg	1.3	< 0.001 U	< 0.047 U
Toluene	mg/kg	0.7	< 0.001 U	< 0.047 U
trans-1,2-Dichloroethene	mg/kg	0.19	< 0.001 U	< 0.047 U
trans-1,3-Dichloropropene	mg/kg	NE	< 0.001 U	< 0.047 U
Trichloroethene	mg/kg	0.47	< 0.001 U	< 0.047 U
Trichlorofluoromethane	mg/kg	NE	< 0.003 U	< 0.094 U
Vinyl Acetate	mg/kg	NE	< 0.003 U	< 0.094 U
Vinyl chloride	mg/kg	*0.02*	< 0.001 U	*< 0.047 U*
Xylenes (total)	mg/kg	1.6	< 0.001 U	0.73

Notes:
U/< = Non-detect at laboratory detection limit; J = Estimated Value
All units are in milligrams per kilogram (mg/kg) unless otherwise noted
NE = not established
NYCRR Restricted Use Soil Cleanup Objective for Protection of Groundwater
NYCRR = New York Compilation of Codes, Rules, and Regulations
Restricted Use Soil Cleanup Objective for Protection of Groundwater exceedances are highlighted and bolded
Results with Detection Levels above Screening Criteria are italicized

Table 2-3. Summary of IDW Water Analytical Results

	Sample ID	WW-20161216-01	WW-20161216-02
	Sample Date	12/16/2016	12/16/2016
Chemical	**NY TOGS[(a)]**		
Cyanide			
Cyanide (CN-)	200	< 5.0 U	< 5.0 U
Metals			
Aluminum	NE	8280	105000
Antimony	3	< 0.48 U	0.49 J
Arsenic	**25**	2.7 J	**32.9**
Barium	1000	99.3	828
Beryllium	**3**	0.37 J	**4.7**
Cadmium	5	< 0.19 U	2.5
Calcium (Ca)	NE	61900	80400
Chromium	**50**	32.9	**251**
Chromium(III), Insoluble Salts	NE	20	230
Chromium(VI)	50	13.3	17.1
Cobalt	NE	5.3	63.1
Copper	200	17.0	149
Iron (Fe)	**300**	**9740**	**139000**
Lead	**25**	5.4	**70.2**
Magnesium (Mg)	**35000**	5670	**46800**
Manganese (Mn)	**300**	**422**	**2750**
Mercury	0.7	< 0.050 U	0.11 J
Nickel	**100**	10.5	**137**
Potassium (K)	NE	16400	91700
Selenium	10	0.96 J	1.7 J
Silver	50	< 0.12 U	0.17 J
Sodium (Na)	**20000**	**81700**	**109000**
Thallium	**0.5**	< 0.16 U	**2.2**
Vanadium	NE	19.4	274
Zinc	2000	167	445
PCBs			
Aroclor 1016	NE	< 0.081 U	< 0.082 U
Aroclor 1221	NE	< 0.081 U	< 0.082 U
Aroclor 1232	NE	< 0.16 U	< 0.16 U
Aroclor 1242	NE	< 0.081 U	< 0.082 U
Aroclor 1248	NE	< 0.081 U	< 0.082 U
Aroclor 1254	NE	< 0.081 U	< 0.082 U
Aroclor 1260	NE	< 0.12 U	< 0.12 U
Aroclor 1262	NE	< 0.16 U	< 0.16 U
Aroclor 1268	NE	< 0.13 U	< 0.13 U
Pesticides			
4,4'-DDD	0.3	< 0.004 U	< 0.005 U
4,4'-DDE	0.2	< 0.004 U	< 0.005 U
4,4'-DDT	0.2	< 0.004 U	< 0.005 U
Aldrin	NE	< 0.002 U	< 0.002 U
alpha Chlordane	NE	< 0.002 U	< 0.003 U
alpha-BHC	0.01	< 0.004 U	0.008 J
beta-BHC	**0.04**	< 0.007 U	**0.1**
Chlordan trans	NE	< 0.006 U	< 0.007 U
delta-BHC	0.04	< 0.003 U	< 0.003 U
Dieldrin	0.004	< 0.004 U	< 0.005 U
Endosulfan I	NE	< 0.004 U	< 0.004 U

Table 2-3. Summary of IDW Water Analytical Results

	Sample ID	WW-20161216-01	WW-20161216-02
	Sample Date	12/16/2016	12/16/2016
Chemical	**NY TOGS[(a)]**		
Endosulfan II	NE	< 0.01 U	< 0.01 U
Endosulfan sulfate	NE	< 0.005 U	< 0.005 U
Endrin	NE	< 0.007 U	< 0.008 U
Endrin aldehyde	5	< 0.02 U	< 0.02 U
Endrin ketone	5	< 0.004 U	< 0.005 U
gamma-BHC (Lindane)	0.05	< 0.002 U	0.03
Heptachlor	0.04	< 0.002 U	< 0.002 U
Heptachlor epoxide	0.03	< 0.002 U	< 0.002 U
Methoxychlor	35	< 0.02 U	< 0.03 U
Toxaphene	0.06	< 0.2 U	< 0.3 U
SVOC SIM			
1-Methylnaphthalene	NE	10	130
2-Methylnaphthalene	NE	17	220
Acenaphthene	20	0.73	5.6
Acenaphthylene	NE	0.62	< 0.012 U
Anthracene	50	0.11	2.0
Benzo(a)anthracene	**0.002**	**0.015 J**	**0.95**
Benzo(a)pyrene	NE	< 0.011 U	0.63
Benzo(b)fluoranthene	**0.002**	< 0.011 U	**0.80**
Benzo(g,h,i)perylene	NE	< 0.011 U	0.30
Benzo(k)fluoranthene	**0.002**	< 0.011 U	**0.37**
Chrysene	**0.002**	**0.018 J**	**0.97**
Dibenz(a,h)anthracene	NE	< 0.011 U	0.12
Fluoranthene	50	0.031 J	2.0
Fluorene	50	0.95	6.9
Indeno(1,2,3-cd)pyrene	**0.002**	< 0.011 U	**0.31**
Naphthalene	**10**	**26**	**67**
Phenanthrene	50	0.87	26
Pyrene	50	0.042 J	1.9
SVOCs			
1,2,4-Trichlorobenzene	NE	< 0.53 U	< 0.62 U
1,2-Dichlorobenzene	3	< 0.53 U	< 0.62 U
1,3-Dichlorobenzene	3	< 0.53 U	< 0.62 U
1,4-Dichlorobenzene	NE	< 0.53 U	< 0.62 U
1-Methylnaphthalene	NE	9.7	110
2,4,5-Trichlorophenol	NE	< 0.53 U	< 0.62 U
2,4,6-Trichlorophenol	NE	< 0.53 U	< 0.62 U
2,4-Dichlorophenol	NE	< 0.53 U	< 0.62 U
2,4-Dimethylphenol	50	< 0.53 U	< 0.62 U
2,4-Dinitrophenol	10	< 11 U	< 12 U
2,4-Dinitrotoluene	5	< 1.1 U	< 1.2 U
2,6-Dinitrotoluene	5	< 0.53 U	< 0.62 U
2-Chloronaphthalene	10	< 0.43 U	< 0.50 U
2-Chlorophenol	NE	< 0.53 U	< 0.62 U
2-Methylnaphthalene	NE	14	240
2-Methylphenol	NE	< 0.53 U	< 0.62 U
2-Nitroaniline	5	< 0.53 U	< 0.62 U
2-Nitrophenol	NE	< 0.53 U	< 0.62 U
3,3-Dichlorobenzidine	5	< 2.1 U	< 2.5 U
3-Nitroaniline	5	< 0.53 U	< 0.62 U

Table 2-3. Summary of IDW Water Analytical Results

	Sample ID	WW-20161216-01	WW-20161216-02
	Sample Date	12/16/2016	12/16/2016
Chemical	**NY TOGS[(a)]**		
4,6-Dinitro-2-methylphenol	NE	< 5.3 U	< 6.2 U
4-Bromophenyl-phenylether	NE	< 0.53 U	< 0.62 U
4-Chloro-3-methylphenol	NE	0.82 J	< 0.62 U
4-Chloroaniline	5	< 2.1 U	< 2.5 U
4-Chlorophenyl-phenylether	NE	< 0.53 U	< 0.62 U
4-Nitroaniline	5	< 0.53 U	< 0.62 U
4-Nitrophenol	NE	< 11 U	< 12 U
Acenaphthene	20	0.75	6.5
Acenaphthylene	NE	0.76	< 0.12 U
Acetophenone	NE	< 0.53 U	< 0.62 U
Anthracene	50	0.16 J	2.8
Atrazine	7.5	< 2.1 U	< 2.5 U
Benzaldehyde	NE	< 1.1 U	< 1.2 U
Benzo(a)anthracene	**0.002**	< 0.11 U	**1.0**
Benzo(a)pyrene	NE	< 0.11 U	0.66
Benzo(b)fluoranthene	**0.002**	< 0.11 U	**0.80**
Benzo(g,h,i)perylene	NE	< 0.11 U	0.31 J
Benzo(k)fluoranthene	**0.002**	< 0.11 U	**0.37 J**
Benzoic acid	NE	< 6.4 U	< 7.5 U
Benzyl Alcohol	NE	< 11 U	< 12 U
Biphenyl, 1,1'-	**5**	2.5	**28**
Bis(2-chloro-1-methylethyl) ether	5	< 0.53 U	< 0.62 U
Bis(2-chloroethoxy)methane	5	< 0.53 U	< 0.62 U
Bis(2-chloroethyl)ether	1	< 0.53 U	< 0.62 U
Bis(2-ethylhexyl)phthalate	**5**	< 2.1 U	**430**
Butyl benzyl phthalate	50	< 2.1 U	< 2.5 U
Caprolactam	NE	< 5.3 U	< 6.2 U
CARBAZOLE	NE	0.87 J	2.5
Chrysene	**0.002**	< 0.11 U	**1.2**
Cresol, p-	NE	0.92 J	< 0.62 U
Dibenz(a,h)anthracene	NE	< 0.11 U	< 0.12 U
Dibenzofuran	NE	< 0.53 U	8.4
Diethyl phthalate	50	< 2.1 U	< 2.5 U
Dimethyl phthalate	50	< 2.1 U	< 2.5 U
Di-n-butyl phthalate	50	< 2.1 U	< 2.5 U
Di-n-octyl phthalate	50	< 2.1 U	< 2.5 U
Fluoranthene	50	< 0.11 U	2.4
Fluorene	50	1.0	13
Hexachlorobenzene	0.04	< 0.11 U	< 0.12 U
Hexachlorobutadiene	0.5	< 0.53 U	< 0.62 U
hexachlorocyclopentadiene	5	< 5.3 U	< 6.2 U
Hexachloroethane	5	< 1.1 U	< 1.2 U
Indeno(1,2,3-cd)pyrene	**0.002**	< 0.11 U	**0.26 J**
Isophorone	50	< 0.53 U	< 0.62 U
Naphthalene	**10**	**23**	**57**
Nitrobenzene	0.4	< 0.53 U	< 0.62 U
n-Nitrosodimethylamine	NE	< 2.1 U	< 2.5 U
n-Nitroso-di-n-propylamine	NE	< 0.53 U	< 0.62 U
n-Nitrosodiphenylamine	50	< 0.53 U	< 0.62 U
Pentachlorophenol	NE	< 1.1 U	< 1.2 U

Table 2-3. Summary of IDW Water Analytical Results

	Sample ID	WW-20161216-01	WW-20161216-02
	Sample Date	12/16/2016	12/16/2016
Chemical	**NY TOGS[(a)]**		
Phenanthrene	50	0.84	24
Phenol	NE	1.4	< 0.62 U
Pyrene	50	< 0.11 U	2.5
Tetrachlorobenzene, 1,2,4,5-	NE	< 0.53 U	< 0.62 U
Tetrachlorophenol, 2,3,4,6-	NE	< 0.53 U	< 0.62 U
VOCs			
1,1,1,2-Tetrachloroethane	5	< 5 U	< 5 U
1,1,1-Trichloroethane	5	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	5	< 5 U	< 5 U
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	5	< 20 U	< 20 U
1,1,2-Trichloroethane	1	< 5 U	< 5 U
1,1-Dichloroethane	5	< 5 U	< 5 U
1,1-Dichloroethene	5	< 5 U	< 5 U
1,2,3-Trichlorobenzene	NE	< 10 U	< 10 U
1,2,3-Trichloropropane	0.04	< 10 U	< 10 U
1,2-Dibromo-3-chloropropane	0.04	< 20 U	< 20 U
1,2-Dibromoethane	0.0006	< 5 U	< 5 U
1,2-Dichloroethane	0.6	< 5 U	< 5 U
1,2-Dichloropropane	1	< 5 U	< 5 U
1,4-Dioxane	NE	< 700 U	< 700 U
2-Butanone	**50**	< 30 U	**430**
2-Hexanone	50	< 30 U	< 30 U
4-Methyl-2-pentanone	NE	< 30 U	< 30 U
Acetone	**50**	< 60 U	**230**
Benzene	1	< 5 U	< 5 U
Bromochloromethane	5	< 10 U	< 10 U
Bromodichloromethane	50	< 5 U	< 5 U
Bromoform	50	< 5 U	< 5 U
Bromomethane	5	< 5 U	< 5 U
Carbon disulfide	60	< 10 U	< 10 U
Carbon tetrachloride	5	< 5 U	< 5 U
Chlorobenzene	5	< 5 U	< 5 U
Chloroethane	5	< 5 U	< 5 U
Chloroform	7	< 5 U	< 5 U
Chloromethane	5	< 5 U	< 5 U
cis-1,2-Dichloroethene	5	< 5 U	< 5 U
cis-1,3-Dichloropropene	NE	< 5 U	< 5 U
cyclohexane	NE	< 20 U	< 20 U
Dibromochloromethane	50	< 5 U	< 5 U
Dichlorodifluoromethane	5	< 5 U	< 5 U
Ethylbenzene	**5**	< 5 U	**8 J**
Isopropylbenzene	5	< 10 U	< 10 U
m,p-Xylene	NE	< 5 U	10
Methyl tert-butyl ether	10	< 5 U	< 5 U
Methylacetate	NE	< 10 U	< 10 U
methylcyclohexane	NE	< 10 U	< 10 U
Methylene chloride	5	< 20 U	< 20 U
o-Xylene	**5**	< 5 U	**6 J**
Styrene	5	< 10 U	< 10 U
Tetrachloroethene	5	< 5 U	< 5 U

Table 2-3. Summary of IDW Water Analytical Results

	Sample ID	WW-20161216-01	WW-20161216-02
	Sample Date	12/16/2016	12/16/2016
Chemical	**NY TOGS[(a)]**		
Toluene	**5**	< 5 U	**6 J**
trans-1,2-Dichloroethene	5	< 5 U	< 5 U
trans-1,3-Dichloropropene	NE	< 5 U	< 5 U
Trichloroethene	**5**	< 5 U	**7 J**
Trichlorofluoromethane	5	< 5 U	< 5 U
Vinyl Acetate	NE	< 20 U	< 20 U
Vinyl chloride	2	< 5 U	< 5 U
Xylenes (total)	NE	< 5 U	16

Notes:

U/< = Non-detect at laboratory detection limit; J = Estimated Value

All units are in micrograms per liter (ug/l)

NE = not established

(a) NYCRR TOGS Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998.

NY TOGS = New York Technical and Operational Guidance Series, ambient water quality standards and guidance values and groundwater effluent limitations.

NY TOGS exceedances are highlighted and bolded

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Table 3-1. Phase II Well Construction Information

Well ID	AOC	Boring Depth (ft bgs)	Bottom of Screen (ft bgs)	Top of Screen (ft bgs)	Screen Length (ft bgs)	Date Installed	Construction
CH-MW001	Background	25	20	5	15	12/6/2016	Stick-Up
CH-MW002	Background	30	30	15	15	12/5/2016	Stick-Up
CH-MW003	Background	30	30	15	15	12/5/2016	Stick-Up
CH-MW004	Background	35	32	17	15	12/6/2016	Stick-Up
CH-MW005	Background	31	30	15	15	12/7/2016	Stick-Up
CH-MW006	Background	31	30	15	15	12/7/2016	Stick-Up
CH-MW007	Background	40	35	20	15	12/6/2016	Flushmount
CH-MW008	Background	20	17	7	10	12/7/2016	Stick-Up
CH-MW009	Background	25	20	5	15	12/7/2016	Stick-Up
CH-MW010	Background	25	25	10	15	12/7/2016	Stick-Up
CH-MW011	Background	27	25	10	15	12/6/2016	Flushmount
CH-MW012	Background	30	30	15	15	12/7/2016	Stick-Up
CH-MW013	Background	31	30	15	15	12/5/2016	Stick-Up
CH-MW014	Background	31	30	15	15	12/5/2016	Flushmount
CH-MW015	Background	40	40	25	15	12/6/2016	Flushmount
CH-MW016	203	30	30	15	15	12/8/2016	Stick-Up
CH-MW017	203	30	30	15	15	12/8/2016	Stick-Up
CH-MW018	203	20	15	5	10	12/8/2016	Stick-Up
CH-MW019	203	21	20	5	15	12/8/2016	Stick-Up
CH-MW020	203	25	25	10	15	12/8/2016	Stick-Up
CH-MW021	203	25	15	5	10	12/7/2016	Stick-Up

Table 4-1. Summary of Phase II Investigation Activities and Analytical Samples

AOC ID	AOC Name	Decision Unit/Sub-AOC	Permanent Monitoring Wells	Boring for SS/SO	Boring/ Well Depth (ft bgs)	Sample Quantities			Analyses	Other Information
						SS (Surface)	SO (Subsurface)	GW		
Areas of Concern										
		Groundwater Decision Unit	6		15 - 30 (*A)			5	GW: VOCs, SVOCs, Metals (*B)	
203	Former Building 203	Soil Inside Hot Spot		16	35 - 45 (*C)	16	20		SS and SO: VOCs, SVOCs, Metals (*B)	LIF Screening at 44 Locations
		Soil Outside Hot Spot		16	10 (*D)	16	16		SS and SO: VOCs, SVOCs, Metals (*B)	
Background Groundwater										
BG	Background Samples		15		17 - 40 (*A)			14	GW: Metals (*B)	

Acronyms

AOC	Area of Concern
AST	Aboveground Storage Tank
ID	Identification
N/A	Not Applicable
PCB	Polychlorinated Biphenyls
STARS	[NYSDEC] Spills, Technology, and Remediation Services
SVOC	Semi-Volatile Organic Compound
TOC	Total Organic Carbon
UST	Underground Storage Tank
VOC	Volatile Organic Compound

Media Type Codes

GW	Groundwater Sample
SD	Sediment
SO	Soil (Subsurface)
SS	Soil (Surface)
SW	Surface Water

Notes

A Monitoring wells were constructed such that the well screen is located across the silt/sandy-silt and clay interface. See Table 3-1 for details.

B Metals analysis for SO and SS included hexavalent chromium and Oxidantion-Reduction Potential Analysis. Metals analysis for GW included filtered/unfiltered metals and filtered/unfiltered hexavalent chromium.

C Borings within the hotspot were advanced to a target depth of 35 ft bgs; borings were advanced to a greater depth to clean soils if petroleum impacts were noted at 35 ft bgs.

D Borings within the hotspot were advanced to a target depth of 10 ft bgs, with the exception of four locations, which were advanced to 35 ft bgs, to fill LIF data gaps to the North and Northwest of the LNAPL plume.

Table 4-2. LNAPL Thickness Recovery Data, CH-MW017 (Baildown Test Results)

Date	Time (min)	Elapsed Time (min)	DTP (ft btoc)	DTW (ft btoc)	Thickness (ft)
12/11/2016	1120	Pre-Purge	25.54	27.52	1.98
12/11/2016	1140	0	NA	27.32	NA
12/11/2016	1141	1	27.07	27.26	0.19
12/11/2016	1142	2	27.03	27.26	0.23
12/11/2016	1143	3	27.02	27.24	0.22
12/11/2016	1144	4	27.01	27.20	0.19
12/11/2016	1145	5	27.00	27.18	0.18
12/11/2016	1146	6	26.95	27.18	0.23
12/11/2016	1147	7	26.92	27.18	0.26
12/11/2016	1148	8	26.90	27.11	0.21
12/11/2016	1149	9	26.88	27.10	0.22
12/11/2016	1150	10	26.87	27.09	0.22
12/11/2016	1152	12	26.86	27.07	0.21
12/11/2016	1154	14	26.85	27.07	0.22
12/11/2016	1156	16	26.85	27.07	0.22
12/11/2016	1158	18	26.83	27.06	0.23
12/11/2016	1200	20	26.8	27.06	0.26
12/11/2016	1205	25	26.77	27.06	0.29
12/11/2016	1210	30	26.77	27.06	0.29
12/11/2016	1215	35	26.74	27.06	0.32
12/11/2016	1220	40	26.73	27.06	0.33
12/11/2016	1230	50	26.69	27.06	0.37
12/11/2016	1240	60	26.66	27.06	0.40
12/11/2016	1250	70	26.63	27.06	0.43
12/11/2016	1300	80	26.38	27.06	0.68
12/11/2016	1310	90	26.57	27.06	0.49
12/11/2016	1320	100	26.55	27.06	0.51
12/11/2016	1330	110	26.53	27.06	0.53
12/11/2016	1340	120	26.5	27.06	0.56
12/11/2016	1410	150	26.43	27.06	0.63
12/11/2016	1440	180	26.35	27.07	0.72
12/11/2016	1510	210	26.33	27.07	0.74
12/11/2016	1540	240	26.28	27.10	0.82
12/12/2016	745	1205	25.53	27.10	1.57
12/12/2016	1310	1530	25.38	27.11	1.73
12/12/2016	1600	1693	25.34	27.18	1.84
12/13/2016	815	2880	25.55	27.65	2.10
12/14/2016	1440	5425	25.39	28.08	2.69
12/15/2016	1130	6675	25.27	28.08	2.81

Table 4-3. LNAPL Thickness Recovery Data, PZ-03 (Baildown Test Results)

Date	Time (min)	Elapsed Time (min)	DTP (ft btoc)	DTW (ft btoc)	Thickness (ft)
12/11/2016	0	Pre-purge	10.69	19.50	8.81
12/11/2016	1143	0	NA	24.20	NA
12/11/2016	1144	1	NA	24.19	NA
12/11/2016	1145	2	NA	24.18	NA
12/11/2016	1146	3	NA	24.17	NA
12/11/2016	1147	4	NA	24.16	NA
12/11/2016	1148	5	NA	24.16	NA
12/11/2016	1149	6	NA	24.15	NA
12/11/2016	1150	7	NA	24.14	NA
12/11/2016	1151	8	NA	24.14	NA
12/11/2016	1152	9	NA	24.13	NA
12/11/2016	1153	10	NA	24.13	NA
12/11/2016	1155	12	NA	24.11	NA
12/11/2016	1157	14	NA	24.09	NA
12/11/2016	1159	16	NA	24.08	NA
12/11/2016	1201	18	NA	24.06	NA
12/11/2016	1203	20	NA	24.06	NA
12/11/2016	1208	25	NA	24.01	NA
12/11/2016	1213	30	NA	23.97	NA
12/11/2016	1218	35	NA	23.94	NA
12/11/2016	1223	40	NA	23.9	NA
12/11/2016	1233	50	NA	24.22	NA
12/11/2016	1243	60	NA	24.46	NA
12/11/2016	1253	70	24.70	24.71	0.01
12/11/2016	1303	80	24.64	24.73	0.09
12/11/2016	1313	90	24.57	24.74	0.17
12/11/2016	1323	100	24.44	24.74	0.30
12/11/2016	1333	110	24.41	24.74	0.33
12/11/2016	1343	120	23.63	23.81	0.18
12/11/2016	1413	150	23.2	23.35	0.15
12/11/2016	1443	180	23	23.2	0.20
12/11/2016	1513	210	22.74	22.95	0.21
12/11/2016	1543	240	22.66	22.84	0.18
12/12/2016	745	1203	16.32	16.52	0.20
12/12/2016	1313	1530	14.63	14.82	0.19
12/12/2016	1600	1700	14.12	14.31	0.19
12/13/2016	815	2880	12.66	12.84	0.18
12/14/2016	1440	5425	11.82	12	0.18
12/15/2016	1143	6688	11.57	11.75	0.18

Attachment C

Surface Water Drainage Survey Photograph Log

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Attachment C. Surface Water Drainage Survey Photograph Log
Phase II Investigation Field Report
Remedial Investigation, Former Camp Hero, Montauk, New York



1. View North from Building 113 Trail Bridge. Surface water drainage from wetland on left to unreveted portion of primary channel to North. Potential background surface water and sediment sample location in drainage from wetland tributary.



2. View North from same Building 113 Trail Bridge as Photograph 1. Second Building 113 Trail Bridge can be seen in the distance.



3. View North from Building 113 Trail of same bridge shown in distance in Photograph 2. There were no revetments in this portion of the north to south primary channel.



4. View North from Building 113 Trail Bridge shown in Photograph 3. Degraded revetments in primary channel can be north of this area.

Attachment C. Surface Water Drainage Survey Photograph Log
Phase II Investigation Field Report
Remedial Investigation, Former Camp Hero, Montauk, New York



5. Northwest view of confluence of reveted drainage tributary from the east to the primary channel. This location is north of where sanitry Line J crosses the primary channel and the septic tank shown in Photographs 7 and 8. The primary channel becomes reveted again at this point. There is minor surface water drainage from wetlands to the northwest.



6. View West of sanitary Line J crossing the primary channel just north of the Line F septic tank.



7. Line J crossing primary channel to Line F.



8.View South of buried septic tank on Line F south of intersection of Lines J and F shown in Photograph 7.

Attachment C. Surface Water Drainage Survey Photograph Log
Phase II Investigation Field Report
Remedial Investigation, Former Camp Hero, Montauk, New York



9. Exposed corner of septic tank on Line F south of intersection of Lines J and F shown in Photograph 7.



10. Septic tank on Line F south of intersection of Lines J and F shown in Photograph 7.



11. View north of wooden culvert and tributary running south through the Camp Hero perimeter fence located west of Camp Hero Road and Route 12 intersection. Route 12 is in far background. Potential background surface water and sediment sample location.



12. View South of tributary from culvert shown in Photograph 10. Potential background surface water and sediment sample location.

Attachment C. Surface Water Drainage Survey Photograph Log
Phase II Investigation Field Report
Remedial Investigation, Former Camp Hero, Montauk, New York



13. View North of tributary shown in Photographs 10 and 11 from Paumanok Path prior to tributary confluence with primary east to west running channel from Camp Hero Road to the East. Potential background surface water and sediment sample location.



14. View East of primary east to west running drainage channel which flows east to west across Camp Hero. View east from Paumanok Path bridge. Camp Hero Road is approximately 300 feet to the east. The west to east flowing primary channel has revetments throughout Camp Hero and terminate as shown appoximately 200 feet west of Camp Hero Road.



15. View west of primary east to west running drainage channel west of Camp Hero road on Paumanok Path at location shown in Photograph 13.



16. The east to west running tributary shown in 13 and 14 flows westerly and then northerly through marshy areas.

Attachment C. Surface Water Drainage Survey Photograph Log
Phase II Investigation Field Report
Remedial Investigation, Former Camp Hero, Montauk, New York



17. Stromwater pipe outlet that drains commisary area and Camp Hero Road next to bridge on Bridal Path and drains to down-graident surface water in marshland shown in Photograph 17.



18. View West of surface water and marshland from Bridal Path Bridge. Surface water in part is contributed by stormwater outlet shown on Photograph 16.



19. View northwest of marsh area from Photograph 17 location.



20. View East of tributary to primary north to south drainage channel. The tributary runs easterly south of Coast Artillery Road behind the Motor Pool, former buildings, and the former coal storage area.

Attachment C. Surface Water Drainage Survey Photograph Log
Phase II Investigation Field Report
Remedial Investigation, Former Camp Hero, Montauk, New York



21. View Northwest of tributary to the primary north to south channel shown in photo 19 from behind the former coal storage area.



22. View North from Building 113 Trail Bridge showing primary north to south channel south of Coast Artillary Road. The former coal storage area is in far left background.



23. Building 113 Trail. View south from Photograph 19 location.



24. View Southeast of confluence of tributary and primary drainage channel south of Coast Artillery Road.

Attachment C. Surface Water Drainage Survey Photograph Log
Phase II Investigation Field Report
Remedial Investigation, Former Camp Hero, Montauk, New York



25. First Bridge encountered on Point Woods Trail/Paumonok Path north of the Old Montauk Highway in southwest portion of Camp Hero. Potential background surface water and sediment location.



26. Bridge encountered on Point Woods Trail/Paumonok Path west of Camp Hero Road. Flowing surface water was observed at bridge and in nearby marshy areas. Potential for background surface water and sediment sampling location.



27. Flowing surface water from upgradient wetlands and marsh areas at bridge shown in Photograph 25.



28. Surface water in wetland area east of Colonel John Dunn Road. Potential background surface water and sediment sampling location.

Attachment C. Surface Water Drainage Survey Photograph Log
Phase II Investigation Field Report
Remedial Investigation, Former Camp Hero, Montauk, New York



29. View south of primary north to south channel from north side of Coast Artillery Road at culvert.



30. View North of primary north to south channel from Coast Artillery Road.



31. View North of underground culvert at AOC Building 34. The culvert directs surface water from motor pool area to the east flowing tributary south of Coast Artillery Road. The culvert outlet is near the road and guardrail in background.



32. View northwest of drainage in the area downgradient of the former heating plant building at site H11 and H12.

Attachment C. Surface Water Drainage Survey Photograph Log
Phase II Investigation Field Report
Remedial Investigation, Former Camp Hero, Montauk, New York



33. View south of drainage in the area downgradient of the former heating plant building at site H11 and H12.



34. View north of drainage in the area downgradient of the former heating plant building at site H11 and H12.



35. View north of drainage from the area downgradient of the former heating plant building at site H11 and H12. The draiange has eroded revetments which drain to the primary east to west flowing channel.



36. View south of drainage from the area downgradient of the former heating plant building at site H11 and H12. The draiange has eroded revetments which drain to the primary east to west flowing channel.

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Attachment D

Community Air Monitoring Data

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Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/05/2016 10:02	0.0	0.0	0.0
2	12/05/2016 10:03	0.0	0.0	0.0
3	12/05/2016 10:04	0.0	0.0	0.0
4	12/05/2016 10:05	0.0	0.0	0.0
5	12/05/2016 10:06	0.0	0.0	0.0
6	12/05/2016 10:07	0.0	0.0	0.0
7	12/05/2016 10:08	0.0	0.0	0.0
8	12/05/2016 10:09	0.0	0.0	0.0
9	12/05/2016 10:10	0.0	0.0	0.0
10	12/05/2016 10:11	0.0	0.0	0.0
11	12/05/2016 10:12	0.0	0.0	0.0
12	12/05/2016 10:13	0.0	0.0	0.0
13	12/05/2016 10:14	0.0	0.0	0.0
14	12/05/2016 10:15	0.0	0.0	0.0
15	12/05/2016 10:16	0.0	0.0	0.0
16	12/05/2016 10:17	0.0	0.0	0.0
17	12/05/2016 10:18	0.0	0.0	0.0
18	12/05/2016 10:19	0.0	0.0	0.0
19	12/05/2016 10:20	0.0	0.0	0.0
20	12/05/2016 10:21	0.0	0.0	0.0
21	12/05/2016 10:22	0.0	0.0	0.0
22	12/05/2016 10:23	0.0	0.0	0.0
23	12/05/2016 10:24	0.0	0.0	0.0
24	12/05/2016 10:25	0.0	0.0	0.0
25	12/05/2016 10:26	0.0	0.0	0.0
26	12/05/2016 10:27	0.0	0.0	0.0
27	12/05/2016 10:28	0.0	0.0	0.0
28	12/05/2016 10:29	0.0	0.0	0.0
29	12/05/2016 10:30	0.0	0.0	0.0
30	12/05/2016 10:31	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/05/2016 10:32	0.0	0.0	0.0
32	12/05/2016 10:33	0.0	0.0	0.0
33	12/05/2016 10:34	0.0	0.0	0.0
34	12/05/2016 10:35	0.0	0.0	0.0
35	12/05/2016 10:36	0.0	0.0	0.0
36	12/05/2016 10:37	0.0	0.0	0.0
37	12/05/2016 10:38	0.0	0.0	0.0
38	12/05/2016 10:39	0.0	0.0	0.0
39	12/05/2016 10:40	0.0	0.0	0.0
40	12/05/2016 10:41	0.0	0.0	0.0
41	12/05/2016 10:42	0.0	0.0	0.0
42	12/05/2016 10:43	0.0	0.0	0.0
43	12/05/2016 10:44	0.0	0.0	0.0
44	12/05/2016 10:45	0.0	0.0	0.0
45	12/05/2016 10:46	0.0	0.0	0.0
46	12/05/2016 10:47	0.0	0.0	0.0
47	12/05/2016 10:48	0.0	0.0	0.0
48	12/05/2016 10:49	0.0	0.0	0.0
49	12/05/2016 10:50	0.0	0.0	0.0
50	12/05/2016 10:51	0.0	0.0	0.0
51	12/05/2016 10:52	0.0	0.0	0.0
52	12/05/2016 10:53	0.0	0.0	0.0
53	12/05/2016 10:54	0.0	0.0	0.0
54	12/05/2016 10:55	0.0	0.0	0.0
55	12/05/2016 10:56	0.0	0.0	0.0
56	12/05/2016 10:57	0.0	0.0	0.0
57	12/05/2016 10:58	0.0	0.0	0.0
58	12/05/2016 10:59	0.0	0.0	0.0
59	12/05/2016 11:00	0.0	0.0	0.0
60	12/05/2016 11:01	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/05/2016 11:02	0.0	0.0	0.0
62	12/05/2016 11:03	0.0	0.0	0.0
63	12/05/2016 11:04	0.0	0.0	0.0
64	12/05/2016 11:05	0.0	0.0	0.0
65	12/05/2016 11:06	0.0	0.0	0.0
66	12/05/2016 11:07	0.0	0.0	0.0
67	12/05/2016 11:08	0.0	0.0	0.0
68	12/05/2016 11:09	0.0	0.0	0.0
69	12/05/2016 11:10	0.0	0.0	0.0
70	12/05/2016 11:11	0.0	0.0	0.0
71	12/05/2016 11:12	0.0	0.0	0.0
72	12/05/2016 11:13	0.0	0.0	0.0
73	12/05/2016 11:14	0.0	0.0	0.0
74	12/05/2016 11:15	0.0	0.0	0.0
75	12/05/2016 11:16	0.0	0.0	0.0
76	12/05/2016 11:17	0.0	0.0	0.0
77	12/05/2016 11:18	0.0	0.0	0.0
78	12/05/2016 11:19	0.0	0.0	0.0
79	12/05/2016 11:20	0.0	0.0	0.0
80	12/05/2016 11:21	0.0	0.0	0.0
81	12/05/2016 11:22	0.0	0.0	0.0
82	12/05/2016 11:23	0.0	0.0	0.0
83	12/05/2016 11:24	0.0	0.0	0.0
84	12/05/2016 11:25	0.0	0.0	0.0
85	12/05/2016 11:26	0.0	0.0	0.0
86	12/05/2016 11:27	0.0	0.0	0.0
87	12/05/2016 11:28	0.0	0.0	0.0
88	12/05/2016 11:29	0.0	0.0	0.0
89	12/05/2016 11:30	0.0	0.0	0.0
90	12/05/2016 11:31	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/05/2016 11:32	0.0	0.0	0.0
92	12/05/2016 11:33	0.0	0.0	0.0
93	12/05/2016 11:34	0.0	0.0	0.0
94	12/05/2016 11:35	0.0	0.0	0.0
95	12/05/2016 11:36	0.0	0.0	0.0
96	12/05/2016 11:37	0.0	0.0	0.0
97	12/05/2016 11:38	0.0	0.0	0.0
98	12/05/2016 11:39	0.0	0.0	0.0
99	12/05/2016 11:40	0.0	0.0	0.0
100	12/05/2016 11:41	0.0	0.0	0.0
101	12/05/2016 11:42	0.0	0.0	0.0
102	12/05/2016 11:43	0.0	0.0	0.0
103	12/05/2016 11:44	0.0	0.0	0.0
104	12/05/2016 11:45	0.0	0.0	0.0
105	12/05/2016 11:46	0.0	0.0	0.0
106	12/05/2016 11:47	0.0	0.0	0.0
107	12/05/2016 11:48	0.0	0.0	0.0
108	12/05/2016 11:49	0.0	0.0	0.0
109	12/05/2016 11:50	0.0	0.0	0.0
110	12/05/2016 11:51	0.0	0.0	0.0
111	12/05/2016 11:52	0.0	0.0	0.0
112	12/05/2016 11:53	0.0	0.0	0.0
113	12/05/2016 11:54	0.0	0.0	0.0
114	12/05/2016 11:55	0.0	0.0	0.0
115	12/05/2016 11:56	0.0	0.0	0.0
116	12/05/2016 11:57	0.0	0.0	0.0
117	12/05/2016 11:58	0.0	0.0	0.0
118	12/05/2016 11:59	0.0	0.0	0.0
119	12/05/2016 12:00	0.0	0.0	0.0
120	12/05/2016 12:01	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/05/2016 12:02	0.0	0.0	0.0
122	12/05/2016 12:03	0.0	0.0	0.0
123	12/05/2016 12:04	0.0	0.0	0.0
124	12/05/2016 12:05	0.0	0.0	0.0
125	12/05/2016 12:06	0.0	0.0	0.0
126	12/05/2016 12:07	0.0	0.0	0.0
127	12/05/2016 12:08	0.0	0.0	0.0
128	12/05/2016 12:09	0.0	0.0	0.0
129	12/05/2016 12:10	0.0	0.0	0.0
130	12/05/2016 12:11	0.0	0.0	0.0
131	12/05/2016 12:12	0.0	0.0	0.0
132	12/05/2016 12:13	0.0	0.0	0.0
133	12/05/2016 12:14	0.0	0.0	0.0
134	12/05/2016 12:15	0.0	0.0	0.0
135	12/05/2016 12:16	0.0	0.0	0.0
136	12/05/2016 12:17	0.0	0.0	0.0
137	12/05/2016 12:18	0.0	0.0	0.0
138	12/05/2016 12:19	0.0	0.0	0.0
139	12/05/2016 12:20	0.0	0.0	0.0
140	12/05/2016 12:21	0.0	0.0	0.0
141	12/05/2016 12:22	0.0	0.0	0.0
142	12/05/2016 12:23	0.0	0.0	0.0
143	12/05/2016 12:24	0.0	0.0	0.0
144	12/05/2016 12:25	0.0	0.0	0.0
145	12/05/2016 12:26	0.0	0.0	0.0
146	12/05/2016 12:27	0.0	0.0	0.0
147	12/05/2016 12:28	0.0	0.0	0.0
148	12/05/2016 12:29	0.0	0.0	0.0
149	12/05/2016 12:30	0.0	0.0	0.0
150	12/05/2016 12:31	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877

User ID: 00000001 Site ID: 00000000

Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/05/2016 12:32	0.0	0.0	0.0
152	12/05/2016 12:33	0.0	0.0	0.0
153	12/05/2016 12:34	0.0	0.0	0.0
154	12/05/2016 12:35	0.0	0.0	0.0
155	12/05/2016 12:36	0.0	0.0	0.0
156	12/05/2016 12:37	0.0	0.0	0.0
157	12/05/2016 12:38	0.0	0.0	0.0
158	12/05/2016 12:39	0.0	0.0	0.0
159	12/05/2016 12:40	0.0	0.0	0.0
160	12/05/2016 12:41	0.0	0.0	0.0
161	12/05/2016 12:42	0.0	0.0	0.0
162	12/05/2016 12:43	0.0	0.0	0.0
163	12/05/2016 12:44	0.0	0.0	0.0
164	12/05/2016 12:45	0.0	0.0	0.0
165	12/05/2016 12:46	0.0	0.0	0.0
166	12/05/2016 12:47	0.0	0.0	0.0
167	12/05/2016 12:48	0.0	0.0	0.0
168	12/05/2016 12:49	0.0	0.0	0.0
169	12/05/2016 12:50	0.0	0.0	0.0
170	12/05/2016 12:51	0.0	0.0	0.0
171	12/05/2016 12:52	0.0	0.0	0.0
172	12/05/2016 12:53	0.0	0.0	0.0
173	12/05/2016 12:54	0.0	0.0	0.0
174	12/05/2016 12:55	0.0	0.0	0.0
175	12/05/2016 12:56	0.0	0.0	0.0
176	12/05/2016 12:57	0.0	0.0	0.0
177	12/05/2016 12:58	0.0	0.0	0.0
178	12/05/2016 12:59	0.0	0.0	0.0
179	12/05/2016 13:00	0.0	0.0	0.0
180	12/05/2016 13:01	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
181	12/05/2016 13:02	0.0	0.0	0.0
182	12/05/2016 13:03	0.0	0.0	0.0
183	12/05/2016 13:04	0.0	0.0	0.0
184	12/05/2016 13:05	0.0	0.0	0.0
185	12/05/2016 13:06	0.0	0.0	0.0
186	12/05/2016 13:07	0.0	0.0	0.0
187	12/05/2016 13:08	0.0	0.0	0.0
188	12/05/2016 13:09	0.0	0.0	0.0
189	12/05/2016 13:10	0.0	0.0	0.0
190	12/05/2016 13:11	0.0	0.0	0.0
191	12/05/2016 13:12	0.0	0.0	0.0
192	12/05/2016 13:13	0.0	0.0	0.0
193	12/05/2016 13:14	0.0	0.0	0.0
194	12/05/2016 13:15	0.0	0.0	0.0
195	12/05/2016 13:16	0.0	0.0	0.0
196	12/05/2016 13:17	0.0	0.0	0.0
197	12/05/2016 13:18	0.0	0.0	0.0
198	12/05/2016 13:19	0.0	0.0	0.0
199	12/05/2016 13:20	0.0	0.0	0.0
200	12/05/2016 13:21	0.0	0.0	0.0
201	12/05/2016 13:22	0.0	0.0	0.0
202	12/05/2016 13:23	0.0	0.0	0.0
203	12/05/2016 13:24	0.0	0.0	0.0
204	12/05/2016 13:25	0.0	0.0	0.0
205	12/05/2016 13:26	0.0	0.0	0.0
206	12/05/2016 13:27	0.0	0.0	0.0
207	12/05/2016 13:28	0.0	0.0	0.0
208	12/05/2016 13:29	0.0	0.0	0.0
209	12/05/2016 13:30	0.0	0.0	0.0
210	12/05/2016 13:31	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
211	12/05/2016 13:32	0.0	0.0	0.0
212	12/05/2016 13:33	0.0	0.0	0.0
213	12/05/2016 13:34	0.0	0.0	0.0
214	12/05/2016 13:35	0.0	0.0	0.0
215	12/05/2016 13:36	0.0	0.0	0.0
216	12/05/2016 13:37	0.0	0.0	0.0
217	12/05/2016 13:38	0.0	0.0	0.0
218	12/05/2016 13:39	0.0	0.0	0.0
219	12/05/2016 13:40	0.0	0.0	0.0
220	12/05/2016 13:41	0.0	0.0	0.0
221	12/05/2016 13:42	0.0	0.0	0.0
222	12/05/2016 13:43	0.0	0.0	0.0
223	12/05/2016 13:44	0.0	0.0	0.0
224	12/05/2016 13:45	0.0	0.0	0.0
225	12/05/2016 13:46	0.0	0.0	0.0
226	12/05/2016 13:47	0.0	0.0	0.0
227	12/05/2016 13:48	0.0	0.0	0.0
228	12/05/2016 13:49	0.0	0.0	0.0
229	12/05/2016 13:50	0.0	0.0	0.0
230	12/05/2016 13:51	0.0	0.0	0.0
231	12/05/2016 13:52	0.0	0.0	0.0
232	12/05/2016 13:53	0.0	0.0	0.0
233	12/05/2016 13:54	0.0	0.0	0.0
234	12/05/2016 13:55	0.0	0.0	0.0
235	12/05/2016 13:56	0.0	0.0	0.0
236	12/05/2016 13:57	0.0	0.0	0.0
237	12/05/2016 13:58	0.0	0.0	0.0
238	12/05/2016 13:59	0.0	0.0	0.0
239	12/05/2016 14:00	0.0	0.0	0.0
240	12/05/2016 14:01	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
241	12/05/2016 14:02	0.0	0.0	0.0
242	12/05/2016 14:03	0.0	0.0	0.0
243	12/05/2016 14:04	0.0	0.0	0.0
244	12/05/2016 14:05	0.0	0.0	0.0
245	12/05/2016 14:06	0.0	0.0	0.0
246	12/05/2016 14:07	0.0	0.0	0.0
247	12/05/2016 14:08	0.0	0.0	0.0
248	12/05/2016 14:09	0.0	0.0	0.0
249	12/05/2016 14:10	0.0	0.0	0.0
250	12/05/2016 14:11	0.0	0.0	0.0
251	12/05/2016 14:12	0.0	0.0	0.0
252	12/05/2016 14:13	0.0	0.0	0.0
253	12/05/2016 14:14	0.0	0.0	0.0
254	12/05/2016 14:15	0.0	0.0	0.0
255	12/05/2016 14:16	0.0	0.0	0.0
256	12/05/2016 14:17	0.0	0.0	0.0
257	12/05/2016 14:18	0.0	0.0	0.0
258	12/05/2016 14:19	0.0	0.0	0.0
259	12/05/2016 14:20	0.0	0.0	0.0
260	12/05/2016 14:21	0.0	0.0	0.0
261	12/05/2016 14:22	0.0	0.0	0.0
262	12/05/2016 14:23	0.0	0.0	0.0
263	12/05/2016 14:24	0.0	0.0	0.0
264	12/05/2016 14:25	0.0	0.0	0.0
265	12/05/2016 14:26	0.0	0.0	0.0
266	12/05/2016 14:27	0.0	0.0	0.0
267	12/05/2016 14:28	0.0	0.0	0.0
268	12/05/2016 14:29	0.0	0.0	0.0
269	12/05/2016 14:30	0.0	0.0	0.0
270	12/05/2016 14:31	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
271	12/05/2016 14:32	0.0	0.0	0.0
272	12/05/2016 14:33	0.0	0.0	0.0
273	12/05/2016 14:34	0.0	0.0	0.0
274	12/05/2016 14:35	0.0	0.0	0.0
275	12/05/2016 14:36	0.0	0.0	0.0
276	12/05/2016 14:37	0.0	0.0	0.0
277	12/05/2016 14:38	0.0	0.0	0.0
278	12/05/2016 14:39	0.0	0.0	0.0
279	12/05/2016 14:40	0.0	0.0	0.0
280	12/05/2016 14:41	0.0	0.0	0.0
281	12/05/2016 14:42	0.0	0.0	0.0
282	12/05/2016 14:43	0.0	0.0	0.0
283	12/05/2016 14:44	0.0	0.0	0.0
284	12/05/2016 14:45	0.0	0.0	0.0
285	12/05/2016 14:46	0.0	0.0	0.0
286	12/05/2016 14:47	0.0	0.0	0.0
287	12/05/2016 14:48	0.0	0.0	0.0
288	12/05/2016 14:49	0.0	0.0	0.0
289	12/05/2016 14:50	0.0	0.0	0.0
290	12/05/2016 14:51	0.0	0.0	0.0
291	12/05/2016 14:52	0.0	0.0	0.0
292	12/05/2016 14:53	0.0	0.0	0.0
293	12/05/2016 14:54	0.0	0.0	0.0
294	12/05/2016 14:55	0.0	0.0	0.0
295	12/05/2016 14:56	0.0	0.0	0.0
296	12/05/2016 14:57	0.0	0.0	0.0
297	12/05/2016 14:58	0.0	0.0	0.0
298	12/05/2016 14:59	0.0	0.0	0.0
299	12/05/2016 15:00	0.0	0.0	0.0
300	12/05/2016 15:01	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 324 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/05/2016 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
301	12/05/2016 15:02	0.0	0.0	0.0
302	12/05/2016 15:03	0.0	0.0	0.0
303	12/05/2016 15:04	0.0	0.0	0.0
304	12/05/2016 15:05	0.0	0.0	0.0
305	12/05/2016 15:06	0.0	0.0	0.0
306	12/05/2016 15:07	0.0	0.0	0.0
307	12/05/2016 15:08	0.0	0.0	0.0
308	12/05/2016 15:09	0.0	0.0	0.0
309	12/05/2016 15:10	0.0	0.0	0.0
310	12/05/2016 15:11	0.0	0.0	0.0
311	12/05/2016 15:12	0.0	0.0	0.0
312	12/05/2016 15:13	0.0	0.0	0.0
313	12/05/2016 15:14	0.0	0.0	0.0
314	12/05/2016 15:15	0.0	0.0	0.0
315	12/05/2016 15:16	0.0	0.0	0.0
316	12/05/2016 15:17	0.0	0.0	0.0
317	12/05/2016 15:18	0.0	0.0	0.0
318	12/05/2016 15:19	0.0	0.0	0.0
319	12/05/2016 15:20	0.0	0.0	0.0
320	12/05/2016 15:21	0.0	0.0	0.0
321	12/05/2016 15:22	0.0	0.0	0.0
322	12/05/2016 15:23	0.0	0.0	0.0
323	12/05/2016 15:24	0.0	0.0	0.0
324	12/05/2016 15:25	0.0	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877

User ID: 00000001 Site ID: 00000000

Data Points: 192 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/06/2016 08:22	0.0	0.0	0.0
2	12/06/2016 08:23	0.0	0.0	0.0
3	12/06/2016 08:24	0.0	0.0	0.0
4	12/06/2016 08:25	0.0	0.0	0.0
5	12/06/2016 08:26	0.0	0.0	0.0
6	12/06/2016 08:27	0.0	0.0	0.0
7	12/06/2016 08:28	0.0	0.0	0.0
8	12/06/2016 08:29	0.0	0.0	0.0
9	12/06/2016 08:30	0.0	0.0	0.0
10	12/06/2016 08:31	0.0	0.0	0.0
11	12/06/2016 08:32	0.0	0.0	0.0
12	12/06/2016 08:33	0.0	0.0	0.0
13	12/06/2016 08:34	0.0	0.0	0.0
14	12/06/2016 08:35	0.0	0.0	0.0
15	12/06/2016 08:36	0.0	0.0	0.0
16	12/06/2016 08:37	0.0	0.0	0.0
17	12/06/2016 08:38	0.0	0.0	0.0
18	12/06/2016 08:39	0.0	0.0	0.0
19	12/06/2016 08:40	0.0	0.0	0.0
20	12/06/2016 08:41	0.0	0.0	0.0
21	12/06/2016 08:42	0.0	0.0	0.0
22	12/06/2016 08:43	0.0	0.0	0.0
23	12/06/2016 08:44	0.0	0.0	0.0
24	12/06/2016 08:45	0.0	0.0	0.0
25	12/06/2016 08:46	0.0	0.0	0.0
26	12/06/2016 08:47	0.0	0.0	0.0
27	12/06/2016 08:48	0.0	0.0	0.0
28	12/06/2016 08:49	0.0	0.0	0.0
29	12/06/2016 08:50	0.0	0.0	0.0
30	12/06/2016 08:51	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 192 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/06/2016 08:52	0.0	0.0	0.0
32	12/06/2016 08:53	0.0	0.0	0.0
33	12/06/2016 08:54	0.0	0.0	0.0
34	12/06/2016 08:55	0.0	0.0	0.0
35	12/06/2016 08:56	0.0	0.0	0.0
36	12/06/2016 08:57	0.0	0.0	0.0
37	12/06/2016 08:58	0.0	0.0	0.0
38	12/06/2016 08:59	0.0	0.0	0.0
39	12/06/2016 09:00	0.0	0.0	0.0
40	12/06/2016 09:01	0.0	0.0	0.0
41	12/06/2016 09:02	0.0	0.0	0.1
42	12/06/2016 09:03	0.0	0.0	0.0
43	12/06/2016 09:04	0.0	0.0	0.0
44	12/06/2016 09:05	0.0	0.0	0.0
45	12/06/2016 09:06	0.0	0.0	0.0
46	12/06/2016 09:07	0.0	0.0	0.0
47	12/06/2016 09:08	0.0	0.0	0.0
48	12/06/2016 09:09	0.0	0.0	0.0
49	12/06/2016 09:10	0.0	0.0	0.0
50	12/06/2016 09:11	0.0	0.0	0.0
51	12/06/2016 09:12	0.0	0.0	0.0
52	12/06/2016 09:13	0.0	0.0	0.0
53	12/06/2016 09:14	0.0	0.0	0.0
54	12/06/2016 09:15	0.0	0.0	0.0
55	12/06/2016 09:16	0.0	0.0	0.0
56	12/06/2016 09:17	0.0	0.0	0.0
57	12/06/2016 09:18	0.0	0.0	0.0
58	12/06/2016 09:19	0.0	0.0	0.0
59	12/06/2016 09:20	0.0	0.0	0.0
60	12/06/2016 09:21	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 192 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/06/2016 09:22	0.0	0.0	0.0
62	12/06/2016 09:23	0.0	0.0	0.0
63	12/06/2016 09:24	0.0	0.0	0.0
64	12/06/2016 09:25	0.0	0.0	0.0
65	12/06/2016 09:26	0.0	0.0	0.0
66	12/06/2016 09:27	0.0	0.0	0.0
67	12/06/2016 09:28	0.0	0.0	0.0
68	12/06/2016 09:29	0.0	0.0	0.0
69	12/06/2016 09:30	0.0	0.0	0.0
70	12/06/2016 09:31	0.0	0.0	0.0
71	12/06/2016 09:32	0.0	0.0	0.0
72	12/06/2016 09:33	0.0	0.0	0.0
73	12/06/2016 09:34	0.0	0.0	0.0
74	12/06/2016 09:35	0.0	0.0	0.0
75	12/06/2016 09:36	0.0	0.0	0.0
76	12/06/2016 09:37	0.0	0.0	0.0
77	12/06/2016 09:38	0.0	0.0	0.0
78	12/06/2016 09:39	0.0	0.0	0.0
79	12/06/2016 09:40	0.0	0.0	0.0
80	12/06/2016 09:41	0.0	0.0	0.0
81	12/06/2016 09:42	0.0	0.0	0.0
82	12/06/2016 09:43	0.0	0.0	0.0
83	12/06/2016 09:44	0.0	0.0	0.0
84	12/06/2016 09:45	0.0	0.0	0.0
85	12/06/2016 09:46	0.0	0.0	0.0
86	12/06/2016 09:47	0.0	0.0	0.0
87	12/06/2016 09:48	0.0	0.0	0.0
88	12/06/2016 09:49	0.0	0.0	0.0
89	12/06/2016 09:50	0.0	0.0	0.0
90	12/06/2016 09:51	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 192 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/06/2016 09:52	0.0	0.0	0.0
92	12/06/2016 09:53	0.0	0.0	0.0
93	12/06/2016 09:54	0.0	0.0	0.0
94	12/06/2016 09:55	0.0	0.0	0.0
95	12/06/2016 09:56	0.0	0.0	0.0
96	12/06/2016 09:57	0.0	0.0	0.0
97	12/06/2016 09:58	0.0	0.0	0.1
98	12/06/2016 09:59	0.0	0.0	0.0
99	12/06/2016 10:00	0.0	0.0	0.0
100	12/06/2016 10:01	0.0	0.0	0.0
101	12/06/2016 10:02	0.0	0.0	0.0
102	12/06/2016 10:03	0.0	0.0	0.0
103	12/06/2016 10:04	0.0	0.0	0.0
104	12/06/2016 10:05	0.0	0.0	0.0
105	12/06/2016 10:06	0.0	0.0	0.0
106	12/06/2016 10:07	0.0	0.0	0.0
107	12/06/2016 10:08	0.0	0.0	0.0
108	12/06/2016 10:09	0.0	0.0	0.0
109	12/06/2016 10:10	0.0	0.0	0.0
110	12/06/2016 10:11	0.0	0.0	0.0
111	12/06/2016 10:12	0.0	0.0	0.0
112	12/06/2016 10:13	0.0	0.0	0.0
113	12/06/2016 10:14	0.0	0.0	0.0
114	12/06/2016 10:15	0.0	0.0	0.0
115	12/06/2016 10:16	0.0	0.0	0.0
116	12/06/2016 10:17	0.0	0.0	0.0
117	12/06/2016 10:18	0.0	0.0	0.1
118	12/06/2016 10:19	0.0	0.0	0.2
119	12/06/2016 10:20	0.0	0.0	0.2
120	12/06/2016 10:21	0.0	0.0	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 192 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/06/2016 10:22	0.0	0.0	0.2
122	12/06/2016 10:23	0.0	0.0	0.1
123	12/06/2016 10:24	0.0	0.0	0.0
124	12/06/2016 10:25	0.0	0.0	0.0
125	12/06/2016 10:26	0.0	0.0	0.0
126	12/06/2016 10:27	0.0	0.0	0.0
127	12/06/2016 10:28	0.0	0.0	0.0
128	12/06/2016 10:29	0.0	0.0	0.0
129	12/06/2016 10:30	0.0	0.0	0.0
130	12/06/2016 10:31	0.0	0.0	0.0
131	12/06/2016 10:32	0.0	0.0	0.0
132	12/06/2016 10:33	0.0	0.0	0.0
133	12/06/2016 10:34	0.0	0.0	0.0
134	12/06/2016 10:35	0.0	0.0	0.0
135	12/06/2016 10:36	0.0	0.0	0.0
136	12/06/2016 10:37	0.0	0.0	0.0
137	12/06/2016 10:38	0.0	0.0	0.0
138	12/06/2016 10:39	0.0	0.0	0.0
139	12/06/2016 10:40	0.0	0.0	0.0
140	12/06/2016 10:41	0.0	0.0	0.0
141	12/06/2016 10:42	0.0	0.0	0.0
142	12/06/2016 10:43	0.0	0.0	0.0
143	12/06/2016 10:44	0.0	0.0	0.0
144	12/06/2016 10:45	0.0	0.0	0.0
145	12/06/2016 10:46	0.0	0.0	0.0
146	12/06/2016 10:47	0.0	0.0	0.0
147	12/06/2016 10:48	0.0	0.0	0.0
148	12/06/2016 10:49	0.0	0.0	0.0
149	12/06/2016 10:50	0.0	0.0	0.0
150	12/06/2016 10:51	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 192 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/06/2016 10:52	0.0	0.0	0.0
152	12/06/2016 10:53	0.0	0.0	0.0
153	12/06/2016 10:54	0.0	0.0	0.0
154	12/06/2016 10:55	0.0	0.0	0.0
155	12/06/2016 10:56	0.0	0.0	0.0
156	12/06/2016 10:57	0.0	0.0	0.0
157	12/06/2016 10:58	0.0	0.0	0.0
158	12/06/2016 10:59	0.0	0.0	0.0
159	12/06/2016 11:00	0.0	0.0	0.0
160	12/06/2016 11:01	0.0	0.0	0.0
161	12/06/2016 11:02	0.0	0.0	0.0
162	12/06/2016 11:03	0.0	0.0	0.0
163	12/06/2016 11:04	0.0	0.0	0.0
164	12/06/2016 11:05	0.0	0.0	0.0
165	12/06/2016 11:06	0.0	0.0	0.0
166	12/06/2016 11:07	0.0	0.0	0.0
167	12/06/2016 11:08	0.0	0.0	0.0
168	12/06/2016 11:09	0.0	0.0	0.0
169	12/06/2016 11:10	0.0	0.0	0.0
170	12/06/2016 11:11	0.0	0.0	0.0
171	12/06/2016 11:12	0.0	0.0	0.0
172	12/06/2016 11:13	0.0	0.0	0.0
173	12/06/2016 11:14	0.0	0.0	0.0
174	12/06/2016 11:15	0.0	0.0	0.0
175	12/06/2016 11:16	0.0	0.0	0.0
176	12/06/2016 11:17	0.0	0.0	0.0
177	12/06/2016 11:18	0.0	0.0	0.0
178	12/06/2016 11:19	0.0	0.0	0.0
179	12/06/2016 11:20	0.0	0.0	0.0
180	12/06/2016 11:21	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 192 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
181	12/06/2016 11:22	0.0	0.0	0.0
182	12/06/2016 11:23	0.0	0.0	0.0
183	12/06/2016 11:24	0.0	0.0	0.0
184	12/06/2016 11:25	0.0	0.0	0.0
185	12/06/2016 11:26	0.0	0.0	0.0
186	12/06/2016 11:27	0.0	0.0	0.0
187	12/06/2016 11:28	0.0	0.0	0.0
188	12/06/2016 11:29	0.0	0.0	0.0
189	12/06/2016 11:30	0.0	0.0	0.0
190	12/06/2016 11:31	0.0	0.0	0.0
191	12/06/2016 11:32	0.0	0.0	0.0
192	12/06/2016 11:33	0.0	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/06/2016 12:00	0.0	0.0	0.1
2	12/06/2016 12:01	0.0	0.0	0.0
3	12/06/2016 12:02	0.0	0.0	0.0
4	12/06/2016 12:03	0.0	0.0	0.0
5	12/06/2016 12:04	0.0	0.0	0.0
6	12/06/2016 12:05	0.0	0.0	0.0
7	12/06/2016 12:06	0.0	0.0	0.0
8	12/06/2016 12:07	0.0	0.0	0.0
9	12/06/2016 12:08	0.0	0.0	0.0
10	12/06/2016 12:09	0.0	0.0	0.0
11	12/06/2016 12:10	0.0	0.0	0.0
12	12/06/2016 12:11	0.0	0.0	0.0
13	12/06/2016 12:12	0.0	0.0	0.0
14	12/06/2016 12:13	0.0	0.0	0.0
15	12/06/2016 12:14	0.0	0.0	0.0
16	12/06/2016 12:15	0.0	0.0	0.0
17	12/06/2016 12:16	0.0	0.0	0.0
18	12/06/2016 12:17	0.0	0.0	0.0
19	12/06/2016 12:18	0.0	0.0	0.0
20	12/06/2016 12:19	0.0	0.0	0.0
21	12/06/2016 12:20	0.0	0.0	0.0
22	12/06/2016 12:21	0.0	0.0	0.0
23	12/06/2016 12:22	0.0	0.0	0.0
24	12/06/2016 12:23	0.0	0.0	0.0
25	12/06/2016 12:24	0.0	0.0	0.0
26	12/06/2016 12:25	0.0	0.0	0.0
27	12/06/2016 12:26	0.0	0.0	0.0
28	12/06/2016 12:27	0.0	0.0	0.0
29	12/06/2016 12:28	0.0	0.0	0.0
30	12/06/2016 12:29	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/06/2016 12:30	0.0	0.0	0.0
32	12/06/2016 12:31	0.0	0.0	0.0
33	12/06/2016 12:32	0.0	0.0	0.0
34	12/06/2016 12:33	0.0	0.0	0.0
35	12/06/2016 12:34	0.0	0.0	0.0
36	12/06/2016 12:35	0.0	0.0	0.0
37	12/06/2016 12:36	0.0	0.0	0.0
38	12/06/2016 12:37	0.0	0.0	0.0
39	12/06/2016 12:38	0.0	0.0	0.0
40	12/06/2016 12:39	0.0	0.0	0.0
41	12/06/2016 12:40	0.0	0.0	0.0
42	12/06/2016 12:41	0.0	0.0	0.0
43	12/06/2016 12:42	0.0	0.0	0.0
44	12/06/2016 12:43	0.0	0.0	0.0
45	12/06/2016 12:44	0.0	0.0	0.0
46	12/06/2016 12:45	0.0	0.0	0.0
47	12/06/2016 12:46	0.0	0.0	0.0
48	12/06/2016 12:47	0.0	0.0	0.0
49	12/06/2016 12:48	0.0	0.0	0.0
50	12/06/2016 12:49	0.0	0.0	0.0
51	12/06/2016 12:50	0.0	0.0	0.0
52	12/06/2016 12:51	0.0	0.0	0.0
53	12/06/2016 12:52	0.0	0.0	0.0
54	12/06/2016 12:53	0.0	0.0	0.0
55	12/06/2016 12:54	0.0	0.0	0.0
56	12/06/2016 12:55	0.0	0.0	0.0
57	12/06/2016 12:56	0.0	0.0	0.0
58	12/06/2016 12:57	0.0	0.0	0.0
59	12/06/2016 12:58	0.0	0.0	0.0
60	12/06/2016 12:59	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/06/2016 13:00	0.0	0.0	0.0
62	12/06/2016 13:01	0.0	0.0	0.0
63	12/06/2016 13:02	0.0	0.0	0.1
64	12/06/2016 13:03	0.0	0.0	0.1
65	12/06/2016 13:04	0.0	0.0	0.1
66	12/06/2016 13:05	0.0	0.0	0.1
67	12/06/2016 13:06	0.0	0.0	0.2
68	12/06/2016 13:07	0.0	0.0	0.2
69	12/06/2016 13:08	0.0	0.0	0.2
70	12/06/2016 13:09	0.0	0.0	0.2
71	12/06/2016 13:10	0.0	0.0	0.2
72	12/06/2016 13:11	0.0	0.0	0.2
73	12/06/2016 13:12	0.0	0.0	0.2
74	12/06/2016 13:13	0.0	0.0	0.2
75	12/06/2016 13:14	0.0	0.0	0.2
76	12/06/2016 13:15	0.0	0.0	0.2
77	12/06/2016 13:16	0.0	0.0	0.2
78	12/06/2016 13:17	0.0	0.0	0.2
79	12/06/2016 13:18	0.0	0.0	0.1
80	12/06/2016 13:19	0.0	0.0	0.1
81	12/06/2016 13:20	0.0	0.0	0.1
82	12/06/2016 13:21	0.0	0.0	0.1
83	12/06/2016 13:22	0.0	0.0	0.1
84	12/06/2016 13:23	0.0	0.0	0.1
85	12/06/2016 13:24	0.0	0.0	0.1
86	12/06/2016 13:25	0.0	0.0	0.1
87	12/06/2016 13:26	0.0	0.0	0.1
88	12/06/2016 13:27	0.0	0.0	0.0
89	12/06/2016 13:28	0.0	0.0	0.0
90	12/06/2016 13:29	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/06/2016 13:30	0.0	0.0	0.0
92	12/06/2016 13:31	0.0	0.0	0.1
93	12/06/2016 13:32	0.0	0.0	0.0
94	12/06/2016 13:33	0.0	0.0	0.0
95	12/06/2016 13:34	0.0	0.0	0.0
96	12/06/2016 13:35	0.0	0.0	0.1
97	12/06/2016 13:36	0.0	0.0	0.1
98	12/06/2016 13:37	0.0	0.0	0.1
99	12/06/2016 13:38	0.0	0.0	0.0
100	12/06/2016 13:39	0.0	0.0	0.1
101	12/06/2016 13:40	0.0	0.0	0.1
102	12/06/2016 13:41	0.0	0.0	0.1
103	12/06/2016 13:42	0.0	0.0	0.1
104	12/06/2016 13:43	0.0	0.0	0.1
105	12/06/2016 13:44	0.0	0.0	0.2
106	12/06/2016 13:45	0.0	0.0	0.1
107	12/06/2016 13:46	0.0	0.0	0.2
108	12/06/2016 13:47	0.0	0.0	0.1
109	12/06/2016 13:48	0.0	0.0	0.1
110	12/06/2016 13:49	0.0	0.0	0.2
111	12/06/2016 13:50	0.0	0.0	0.1
112	12/06/2016 13:51	0.0	0.0	0.1
113	12/06/2016 13:52	0.0	0.0	0.1
114	12/06/2016 13:53	0.0	0.0	0.2
115	12/06/2016 13:54	0.0	0.0	0.1
116	12/06/2016 13:55	0.0	0.0	0.1
117	12/06/2016 13:56	0.0	0.0	0.1
118	12/06/2016 13:57	0.0	0.0	0.2
119	12/06/2016 13:58	0.0	0.0	0.2
120	12/06/2016 13:59	0.0	0.0	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/06/2016 14:00	0.0	0.0	0.1
122	12/06/2016 14:01	0.0	0.0	0.2
123	12/06/2016 14:02	0.0	0.0	0.1
124	12/06/2016 14:03	0.0	0.0	0.1
125	12/06/2016 14:04	0.0	0.0	0.2
126	12/06/2016 14:05	0.0	0.0	0.2
127	12/06/2016 14:06	0.0	0.0	0.1
128	12/06/2016 14:07	0.0	0.0	0.2
129	12/06/2016 14:08	0.0	0.0	0.2
130	12/06/2016 14:09	0.0	0.0	0.2
131	12/06/2016 14:10	0.0	0.0	0.2
132	12/06/2016 14:11	0.0	0.0	0.2
133	12/06/2016 14:12	0.0	0.0	0.2
134	12/06/2016 14:13	0.0	0.0	0.1
135	12/06/2016 14:14	0.0	0.0	0.2
136	12/06/2016 14:15	0.0	0.0	0.2
137	12/06/2016 14:16	0.0	0.0	0.2
138	12/06/2016 14:17	0.0	0.0	0.2
139	12/06/2016 14:18	0.0	0.0	0.2
140	12/06/2016 14:19	0.0	0.0	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877

User ID: 00000001 Site ID: 00000000

Data Points: 47 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/06/2016 15:22	0.0	0.0	0.0
2	12/06/2016 15:23	0.0	0.0	0.0
3	12/06/2016 15:24	0.0	0.0	0.0
4	12/06/2016 15:25	0.0	0.0	0.0
5	12/06/2016 15:26	0.0	0.0	0.0
6	12/06/2016 15:27	0.0	0.0	0.0
7	12/06/2016 15:28	0.0	0.0	0.0
8	12/06/2016 15:29	0.0	0.0	0.0
9	12/06/2016 15:30	0.0	0.0	0.0
10	12/06/2016 15:31	0.0	0.0	0.0
11	12/06/2016 15:32	0.0	0.0	0.1
12	12/06/2016 15:33	0.0	0.0	0.0
13	12/06/2016 15:34	0.0	0.0	0.0
14	12/06/2016 15:35	0.0	0.0	0.0
15	12/06/2016 15:36	0.0	0.0	0.0
16	12/06/2016 15:37	0.0	0.0	0.0
17	12/06/2016 15:38	0.0	0.0	0.0
18	12/06/2016 15:39	0.0	0.0	0.0
19	12/06/2016 15:40	0.0	0.0	0.1
20	12/06/2016 15:41	0.0	0.0	0.1
21	12/06/2016 15:42	0.0	0.0	0.0
22	12/06/2016 15:43	0.0	0.0	0.1
23	12/06/2016 15:44	0.0	0.0	0.0
24	12/06/2016 15:45	0.0	0.0	0.1
25	12/06/2016 15:46	0.0	0.0	0.1
26	12/06/2016 15:47	0.0	0.0	0.0
27	12/06/2016 15:48	0.0	0.0	0.0
28	12/06/2016 15:49	0.0	0.0	0.0
29	12/06/2016 15:50	0.0	0.0	0.0
30	12/06/2016 15:51	0.0	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 47 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/06/2016 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/06/2016 15:52	0.0	0.0	0.0
32	12/06/2016 15:53	0.0	0.0	0.0
33	12/06/2016 15:54	0.0	0.0	0.1
34	12/06/2016 15:55	0.0	0.0	0.1
35	12/06/2016 15:56	0.0	0.0	0.1
36	12/06/2016 15:57	0.0	0.0	0.1
37	12/06/2016 15:58	0.0	0.0	0.1
38	12/06/2016 15:59	0.0	0.0	0.1
39	12/06/2016 16:00	0.0	0.0	0.2
40	12/06/2016 16:01	0.0	0.0	0.2
41	12/06/2016 16:02	0.0	0.0	0.2
42	12/06/2016 16:03	0.0	0.0	0.2
43	12/06/2016 16:04	0.0	0.0	0.1
44	12/06/2016 16:05	0.0	0.0	0.0
45	12/06/2016 16:06	0.0	0.0	0.0
46	12/06/2016 16:07	0.0	0.0	0.0
47	12/06/2016 16:08	0.0	0.0	0.1

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 86 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/08/2016 08:05	0.1	0.1	0.2
2	12/08/2016 08:06	0.1	0.1	0.2
3	12/08/2016 08:07	0.1	0.1	0.2
4	12/08/2016 08:08	0.1	0.1	0.2
5	12/08/2016 08:09	0.1	0.1	0.2
6	12/08/2016 08:10	0.1	0.1	0.2
7	12/08/2016 08:11	0.1	0.1	0.2
8	12/08/2016 08:12	0.1	0.1	0.1
9	12/08/2016 08:13	0.1	0.1	0.1
10	12/08/2016 08:14	0.1	0.1	0.1
11	12/08/2016 08:15	0.1	0.1	0.2
12	12/08/2016 08:16	0.1	0.1	0.1
13	12/08/2016 08:17	0.1	0.1	0.1
14	12/08/2016 08:18	0.1	0.1	0.2
15	12/08/2016 08:19	0.1	0.1	0.1
16	12/08/2016 08:20	0.1	0.1	0.4
17	12/08/2016 08:21	0.1	0.1	0.7
18	12/08/2016 08:22	0.1	0.1	0.7
19	12/08/2016 08:23	0.1	0.1	0.2
20	12/08/2016 08:24	0.1	0.1	0.2
21	12/08/2016 08:25	0.1	0.1	0.2
22	12/08/2016 08:26	0.1	0.1	0.3
23	12/08/2016 08:27	0.1	0.1	0.3
24	12/08/2016 08:28	0.1	0.1	1.2
25	12/08/2016 08:29	0.1	0.1	0.2
26	12/08/2016 08:30	0.1	0.1	0.3
27	12/08/2016 08:31	0.1	0.1	0.2
28	12/08/2016 08:32	0.1	0.1	0.2
29	12/08/2016 08:33	0.1	0.1	0.3
30	12/08/2016 08:34	0.1	0.1	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 86 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/08/2016 08:35	0.1	0.1	0.8
32	12/08/2016 08:36	0.1	0.1	0.3
33	12/08/2016 08:37	0.1	0.2	1.8
34	12/08/2016 08:38	0.1	0.1	0.2
35	12/08/2016 08:39	0.1	0.1	0.2
36	12/08/2016 08:40	0.1	0.1	0.2
37	12/08/2016 08:41	0.1	0.1	0.2
38	12/08/2016 08:42	0.1	0.1	0.2
39	12/08/2016 08:43	0.1	0.1	0.2
40	12/08/2016 08:44	0.1	0.1	0.2
41	12/08/2016 08:45	0.1	0.2	1.5
42	12/08/2016 08:46	0.1	0.1	0.2
43	12/08/2016 08:47	0.1	0.1	0.7
44	12/08/2016 08:48	0.1	0.1	0.4
45	12/08/2016 08:49	0.1	0.1	0.6
46	12/08/2016 08:50	0.2	0.4	2.0
47	12/08/2016 08:51	0.2	0.2	1.5
48	12/08/2016 08:52	0.2	0.4	1.7
49	12/08/2016 08:53	0.2	0.2	0.2
50	12/08/2016 08:54	0.2	0.2	0.2
51	12/08/2016 08:55	0.2	0.2	0.2
52	12/08/2016 08:56	0.1	0.1	0.2
53	12/08/2016 08:57	0.1	0.1	0.2
54	12/08/2016 08:58	0.1	0.1	0.2
55	12/08/2016 08:59	0.1	0.1	0.2
56	12/08/2016 09:00	0.2	0.2	0.2
57	12/08/2016 09:01	0.1	0.1	0.2
58	12/08/2016 09:02	0.1	0.1	0.2
59	12/08/2016 09:03	0.1	0.1	0.2
60	12/08/2016 09:04	0.2	0.2	0.2

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 86 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/08/2016 09:05	0.2	0.2	0.2
62	12/08/2016 09:06	0.1	0.1	0.2
63	12/08/2016 09:07	0.2	0.2	0.2
64	12/08/2016 09:08	0.2	0.2	0.2
65	12/08/2016 09:09	0.1	0.1	0.2
66	12/08/2016 09:10	0.2	0.2	0.2
67	12/08/2016 09:11	0.1	0.1	0.2
68	12/08/2016 09:12	0.1	0.1	0.2
69	12/08/2016 09:13	0.2	0.2	0.2
70	12/08/2016 09:14	0.2	0.2	0.4
71	12/08/2016 09:15	0.2	0.2	0.6
72	12/08/2016 09:16	0.2	0.2	0.4
73	12/08/2016 09:17	0.2	0.2	0.3
74	12/08/2016 09:18	0.2	0.2	0.4
75	12/08/2016 09:19	0.2	0.2	0.3
76	12/08/2016 09:20	0.2	0.2	0.3
77	12/08/2016 09:21	0.2	0.2	0.2
78	12/08/2016 09:22	0.2	0.2	0.3
79	12/08/2016 09:23	0.2	0.2	0.2
80	12/08/2016 09:24	0.2	0.2	0.3
81	12/08/2016 09:25	0.2	0.2	0.3
82	12/08/2016 09:26	0.2	0.2	0.3
83	12/08/2016 09:27	0.2	0.2	0.2
84	12/08/2016 09:28	0.2	0.2	0.2
85	12/08/2016 09:29	0.2	0.2	0.2
86	12/08/2016 09:30	0.2	0.2	0.3

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/08/2016 11:27	0.2	0.2	0.3
2	12/08/2016 11:28	0.2	0.2	0.3
3	12/08/2016 11:29	0.2	0.2	0.2
4	12/08/2016 11:30	0.2	0.2	0.3
5	12/08/2016 11:31	0.2	0.2	0.3
6	12/08/2016 11:32	0.2	0.2	0.3
7	12/08/2016 11:33	0.2	0.2	0.2
8	12/08/2016 11:34	0.2	0.2	0.3
9	12/08/2016 11:35	0.2	0.2	0.3
10	12/08/2016 11:36	0.2	0.2	0.2
11	12/08/2016 11:37	0.2	0.2	0.4
12	12/08/2016 11:38	0.2	0.2	0.2
13	12/08/2016 11:39	0.2	0.2	0.3
14	12/08/2016 11:40	0.2	0.2	0.3
15	12/08/2016 11:41	0.2	0.2	0.2
16	12/08/2016 11:42	0.2	0.2	0.3
17	12/08/2016 11:43	0.2	0.2	0.3
18	12/08/2016 11:44	0.2	0.2	0.3
19	12/08/2016 11:45	0.2	0.2	0.3
20	12/08/2016 11:46	0.2	0.2	0.3
21	12/08/2016 11:47	0.2	0.2	0.3
22	12/08/2016 11:48	0.2	0.2	0.3
23	12/08/2016 11:49	0.2	0.2	0.3
24	12/08/2016 11:50	0.2	0.2	0.2
25	12/08/2016 11:51	0.2	0.2	0.3
26	12/08/2016 11:52	0.2	0.2	0.3
27	12/08/2016 11:53	0.2	0.2	0.3
28	12/08/2016 11:54	0.2	0.2	0.3
29	12/08/2016 11:55	0.2	0.2	0.3
30	12/08/2016 11:56	0.2	0.2	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/08/2016 11:57	0.2	0.2	0.3
32	12/08/2016 11:58	0.2	0.2	0.2
33	12/08/2016 11:59	0.2	0.2	0.3
34	12/08/2016 12:00	0.2	0.2	0.2
35	12/08/2016 12:01	0.2	0.2	0.3
36	12/08/2016 12:02	0.2	0.2	0.3
37	12/08/2016 12:03	0.2	0.2	0.3
38	12/08/2016 12:04	0.2	0.2	0.3
39	12/08/2016 12:05	0.2	0.2	0.3
40	12/08/2016 12:06	0.2	0.2	0.3
41	12/08/2016 12:07	0.2	0.2	0.3
42	12/08/2016 12:08	0.2	0.2	0.3
43	12/08/2016 12:09	0.2	0.2	0.3
44	12/08/2016 12:10	0.2	0.2	0.3
45	12/08/2016 12:11	0.2	0.2	0.3
46	12/08/2016 12:12	0.2	0.2	0.3
47	12/08/2016 12:13	0.2	0.2	0.3
48	12/08/2016 12:14	0.2	0.2	0.3
49	12/08/2016 12:15	0.2	0.2	0.3
50	12/08/2016 12:16	0.2	0.2	0.3
51	12/08/2016 12:17	0.2	0.2	0.3
52	12/08/2016 12:18	0.2	0.2	0.3
53	12/08/2016 12:19	0.2	0.2	0.3
54	12/08/2016 12:20	0.2	0.2	0.3
55	12/08/2016 12:21	0.2	0.2	0.3
56	12/08/2016 12:22	0.2	0.2	0.3
57	12/08/2016 12:23	0.2	0.2	0.2
58	12/08/2016 12:24	0.2	0.2	0.3
59	12/08/2016 12:25	0.2	0.2	0.3
60	12/08/2016 12:26	0.2	0.2	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/08/2016 12:27	0.2	0.2	0.3
62	12/08/2016 12:28	0.2	0.2	0.2
63	12/08/2016 12:29	0.2	0.2	0.3
64	12/08/2016 12:30	0.2	0.2	0.3
65	12/08/2016 12:31	0.2	0.2	0.3
66	12/08/2016 12:32	0.2	0.2	0.3
67	12/08/2016 12:33	0.2	0.2	0.3
68	12/08/2016 12:34	0.2	0.2	0.3
69	12/08/2016 12:35	0.2	0.2	0.2
70	12/08/2016 12:36	0.2	0.2	0.2
71	12/08/2016 12:37	0.2	0.2	0.3
72	12/08/2016 12:38	0.2	0.2	0.2
73	12/08/2016 12:39	0.2	0.2	0.2
74	12/08/2016 12:40	0.2	0.2	0.2
75	12/08/2016 12:41	0.2	0.2	0.3
76	12/08/2016 12:42	0.2	0.2	0.2
77	12/08/2016 12:43	0.2	0.2	0.3
78	12/08/2016 12:44	0.2	0.2	0.3
79	12/08/2016 12:45	0.2	0.2	0.3
80	12/08/2016 12:46	0.2	0.2	0.3
81	12/08/2016 12:47	0.2	0.2	0.3
82	12/08/2016 12:48	0.2	0.2	0.3
83	12/08/2016 12:49	0.2	0.2	0.3
84	12/08/2016 12:50	0.2	0.2	0.3
85	12/08/2016 12:51	0.2	0.3	0.5
86	12/08/2016 12:52	0.3	0.3	0.5
87	12/08/2016 12:53	0.2	0.3	0.5
88	12/08/2016 12:54	0.2	0.2	0.3
89	12/08/2016 12:55	0.2	0.2	0.3
90	12/08/2016 12:56	0.2	0.2	0.3

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/08/2016 12:57	0.2	0.2	0.3
92	12/08/2016 12:58	0.2	0.2	0.3
93	12/08/2016 12:59	0.2	0.2	0.3
94	12/08/2016 13:00	0.2	0.2	0.4
95	12/08/2016 13:01	0.2	0.2	0.4
96	12/08/2016 13:02	0.2	0.2	0.4
97	12/08/2016 13:03	0.2	0.2	0.5
98	12/08/2016 13:04	0.2	0.2	0.3
99	12/08/2016 13:05	0.2	0.2	0.3
100	12/08/2016 13:06	0.2	0.2	0.3
101	12/08/2016 13:07	0.2	0.2	0.4
102	12/08/2016 13:08	0.2	0.3	0.4
103	12/08/2016 13:09	0.2	0.2	0.3
104	12/08/2016 13:10	0.2	0.2	0.3
105	12/08/2016 13:11	0.2	0.2	0.3
106	12/08/2016 13:12	0.2	0.2	0.3
107	12/08/2016 13:13	0.2	0.2	0.3
108	12/08/2016 13:14	0.2	0.2	0.3
109	12/08/2016 13:15	0.2	0.2	0.3
110	12/08/2016 13:16	0.2	0.2	0.3
111	12/08/2016 13:17	0.2	0.2	0.3
112	12/08/2016 13:18	0.2	0.2	0.5
113	12/08/2016 13:19	0.2	0.2	0.3
114	12/08/2016 13:20	0.2	0.2	0.3
115	12/08/2016 13:21	0.2	0.2	0.3
116	12/08/2016 13:22	0.2	0.2	0.3
117	12/08/2016 13:23	0.2	0.2	0.3
118	12/08/2016 13:24	0.2	0.2	0.3
119	12/08/2016 13:25	0.2	0.2	0.3
120	12/08/2016 13:26	0.2	0.2	0.3

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 140 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/08/2016 13:27	0.2	0.2	0.3
122	12/08/2016 13:28	0.2	0.2	0.3
123	12/08/2016 13:29	0.2	0.2	0.3
124	12/08/2016 13:30	0.2	0.2	0.3
125	12/08/2016 13:31	0.2	0.2	0.3
126	12/08/2016 13:32	0.2	0.2	0.3
127	12/08/2016 13:33	0.2	0.2	0.3
128	12/08/2016 13:34	0.2	0.3	0.4
129	12/08/2016 13:35	0.2	0.2	0.3
130	12/08/2016 13:36	0.2	0.2	0.3
131	12/08/2016 13:37	0.2	0.2	0.3
132	12/08/2016 13:38	0.3	0.3	0.5
133	12/08/2016 13:39	0.2	0.2	0.3
134	12/08/2016 13:40	0.2	0.2	0.3
135	12/08/2016 13:41	0.2	0.2	0.3
136	12/08/2016 13:42	0.2	0.3	0.4
137	12/08/2016 13:43	0.3	0.3	0.7
138	12/08/2016 13:44	0.3	0.3	0.5
139	12/08/2016 13:45	0.3	0.3	0.4
140	12/08/2016 13:46	0.3	0.3	0.5

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 206 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/08/2016 13:54	0.3	0.3	0.3
2	12/08/2016 13:55	0.2	0.2	0.3
3	12/08/2016 13:56	0.2	0.2	0.3
4	12/08/2016 13:57	0.2	0.2	0.3
5	12/08/2016 13:58	0.2	0.2	0.3
6	12/08/2016 13:59	0.2	0.2	0.3
7	12/08/2016 14:00	0.2	0.2	0.3
8	12/08/2016 14:01	0.2	0.2	0.3
9	12/08/2016 14:02	0.2	0.2	0.3
10	12/08/2016 14:03	0.2	0.2	0.3
11	12/08/2016 14:04	0.2	0.2	0.3
12	12/08/2016 14:05	0.3	0.3	0.3
13	12/08/2016 14:06	0.2	0.2	0.3
14	12/08/2016 14:07	0.2	0.2	0.3
15	12/08/2016 14:08	0.2	0.2	0.3
16	12/08/2016 14:09	0.2	0.2	0.3
17	12/08/2016 14:10	0.2	0.2	0.3
18	12/08/2016 14:11	0.2	0.2	0.3
19	12/08/2016 14:12	0.2	0.2	0.3
20	12/08/2016 14:13	0.2	0.2	0.3
21	12/08/2016 14:14	0.2	0.2	0.3
22	12/08/2016 14:15	0.2	0.2	0.3
23	12/08/2016 14:16	0.2	0.2	0.3
24	12/08/2016 14:17	0.2	0.2	0.3
25	12/08/2016 14:18	0.2	0.2	0.3
26	12/08/2016 14:19	0.2	0.2	0.3
27	12/08/2016 14:20	0.2	0.2	0.3
28	12/08/2016 14:21	0.2	0.2	0.3
29	12/08/2016 14:22	0.2	0.2	0.3
30	12/08/2016 14:23	0.2	0.2	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 206 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/08/2016 14:24	0.2	0.2	0.3
32	12/08/2016 14:25	0.2	0.2	0.3
33	12/08/2016 14:26	0.3	0.3	0.3
34	12/08/2016 14:27	0.3	0.3	0.3
35	12/08/2016 14:28	0.3	0.3	0.3
36	12/08/2016 14:29	0.3	0.3	0.3
37	12/08/2016 14:30	0.2	0.2	0.3
38	12/08/2016 14:31	0.3	0.3	0.3
39	12/08/2016 14:32	0.3	0.3	0.3
40	12/08/2016 14:33	0.3	0.3	0.3
41	12/08/2016 14:34	0.2	0.2	0.3
42	12/08/2016 14:35	0.3	0.3	0.3
43	12/08/2016 14:36	0.2	0.2	0.3
44	12/08/2016 14:37	0.3	0.3	0.3
45	12/08/2016 14:38	0.3	0.3	0.3
46	12/08/2016 14:39	0.3	0.3	0.3
47	12/08/2016 14:40	0.3	0.3	0.3
48	12/08/2016 14:41	0.3	0.3	0.3
49	12/08/2016 14:42	0.3	0.3	0.3
50	12/08/2016 14:43	0.3	0.3	0.3
51	12/08/2016 14:44	0.3	0.3	0.3
52	12/08/2016 14:45	0.3	0.3	0.3
53	12/08/2016 14:46	0.3	0.3	0.3
54	12/08/2016 14:47	0.3	0.3	0.3
55	12/08/2016 14:48	0.3	0.3	0.3
56	12/08/2016 14:49	0.3	0.3	0.3
57	12/08/2016 14:50	0.3	0.3	0.3
58	12/08/2016 14:51	0.3	0.3	0.3
59	12/08/2016 14:52	0.3	0.3	0.3
60	12/08/2016 14:53	0.3	0.3	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 206 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/08/2016 14:54	0.3	0.3	0.3
62	12/08/2016 14:55	0.2	0.3	0.5
63	12/08/2016 14:56	0.3	0.3	0.3
64	12/08/2016 14:57	0.3	0.3	0.3
65	12/08/2016 14:58	0.3	0.3	0.3
66	12/08/2016 14:59	0.2	0.2	0.3
67	12/08/2016 15:00	0.2	0.2	0.3
68	12/08/2016 15:01	0.3	0.3	0.3
69	12/08/2016 15:02	0.3	0.3	0.3
70	12/08/2016 15:03	0.3	0.3	0.3
71	12/08/2016 15:04	0.3	0.3	0.3
72	12/08/2016 15:05	0.3	0.3	0.3
73	12/08/2016 15:06	0.3	0.3	0.3
74	12/08/2016 15:07	0.3	0.3	0.3
75	12/08/2016 15:08	0.3	0.3	0.3
76	12/08/2016 15:09	0.3	0.3	0.3
77	12/08/2016 15:10	0.3	0.3	0.3
78	12/08/2016 15:11	0.3	0.3	0.3
79	12/08/2016 15:12	0.2	0.3	0.5
80	12/08/2016 15:13	0.2	0.2	0.3
81	12/08/2016 15:14	0.3	0.3	0.3
82	12/08/2016 15:15	0.3	0.3	0.6
83	12/08/2016 15:16	0.3	0.3	0.3
84	12/08/2016 15:17	0.3	0.3	0.3
85	12/08/2016 15:18	0.2	0.2	0.3
86	12/08/2016 15:19	0.3	0.3	0.3
87	12/08/2016 15:20	0.3	0.3	0.3
88	12/08/2016 15:21	0.3	0.3	0.5
89	12/08/2016 15:22	0.3	0.3	0.4
90	12/08/2016 15:23	0.3	0.3	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 206 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/08/2016 15:24	0.3	0.3	0.3
92	12/08/2016 15:25	0.3	0.3	0.4
93	12/08/2016 15:26	0.3	0.3	0.3
94	12/08/2016 15:27	0.3	0.3	0.3
95	12/08/2016 15:28	0.3	0.3	0.3
96	12/08/2016 15:29	0.3	0.3	0.3
97	12/08/2016 15:30	0.3	0.3	0.4
98	12/08/2016 15:31	0.3	0.3	0.4
99	12/08/2016 15:32	0.3	0.3	0.5
100	12/08/2016 15:33	0.3	0.3	0.3
101	12/08/2016 15:34	0.3	0.3	0.3
102	12/08/2016 15:35	0.3	0.3	0.3
103	12/08/2016 15:36	0.3	0.3	0.4
104	12/08/2016 15:37	0.3	0.3	0.4
105	12/08/2016 15:38	0.3	0.3	0.4
106	12/08/2016 15:39	0.3	0.3	0.4
107	12/08/2016 15:40	0.3	0.3	0.3
108	12/08/2016 15:41	0.3	0.3	0.4
109	12/08/2016 15:42	0.3	0.3	0.4
110	12/08/2016 15:43	0.3	0.3	0.4
111	12/08/2016 15:44	0.3	0.3	0.4
112	12/08/2016 15:45	0.3	0.3	0.5
113	12/08/2016 15:46	0.3	0.3	0.5
114	12/08/2016 15:47	0.3	0.3	0.4
115	12/08/2016 15:48	0.3	0.3	0.3
116	12/08/2016 15:49	0.3	0.3	0.4
117	12/08/2016 15:50	0.3	0.3	0.4
118	12/08/2016 15:51	0.3	0.3	0.4
119	12/08/2016 15:52	0.3	0.3	0.3
120	12/08/2016 15:53	0.3	0.3	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 206 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/08/2016 15:54	0.3	0.3	0.3
122	12/08/2016 15:55	0.3	0.3	0.3
123	12/08/2016 15:56	0.3	0.3	0.3
124	12/08/2016 15:57	0.3	0.3	0.4
125	12/08/2016 15:58	0.3	0.3	0.3
126	12/08/2016 15:59	0.3	0.3	0.4
127	12/08/2016 16:00	0.3	0.3	0.4
128	12/08/2016 16:01	0.3	0.3	0.5
129	12/08/2016 16:02	0.3	0.3	0.3
130	12/08/2016 16:03	0.3	0.3	0.4
131	12/08/2016 16:04	0.3	0.3	0.4
132	12/08/2016 16:05	0.3	0.3	0.4
133	12/08/2016 16:06	0.3	0.3	0.4
134	12/08/2016 16:07	0.3	0.3	0.4
135	12/08/2016 16:08	0.3	0.3	0.5
136	12/08/2016 16:09	0.3	0.3	0.3
137	12/08/2016 16:10	0.3	0.3	0.3
138	12/08/2016 16:11	0.3	0.3	0.3
139	12/08/2016 16:12	0.3	0.3	0.3
140	12/08/2016 16:13	0.3	0.3	0.3
141	12/08/2016 16:14	0.3	0.3	0.3
142	12/08/2016 16:15	0.3	0.3	0.3
143	12/08/2016 16:16	0.3	0.3	0.3
144	12/08/2016 16:17	0.3	0.3	0.3
145	12/08/2016 16:18	0.3	0.3	0.3
146	12/08/2016 16:19	0.3	0.3	0.3
147	12/08/2016 16:20	0.3	0.3	0.3
148	12/08/2016 16:21	0.3	0.8	2.6
149	12/08/2016 16:22	0.3	0.3	0.5
150	12/08/2016 16:23	0.3	0.3	0.5

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 206 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/08/2016 16:24	0.3	0.3	0.4
152	12/08/2016 16:25	0.3	0.3	0.4
153	12/08/2016 16:26	0.3	0.3	0.4
154	12/08/2016 16:27	0.3	0.3	0.4
155	12/08/2016 16:28	0.3	0.3	0.4
156	12/08/2016 16:29	0.3	0.3	0.4
157	12/08/2016 16:30	0.3	0.3	0.3
158	12/08/2016 16:31	0.3	0.3	0.4
159	12/08/2016 16:32	0.3	0.3	0.4
160	12/08/2016 16:33	0.3	0.3	0.4
161	12/08/2016 16:34	0.3	0.3	0.4
162	12/08/2016 16:35	0.3	0.3	0.4
163	12/08/2016 16:36	0.3	0.3	0.4
164	12/08/2016 16:37	0.3	0.3	0.4
165	12/08/2016 16:38	0.3	0.3	0.4
166	12/08/2016 16:39	0.3	0.3	0.3
167	12/08/2016 16:40	0.3	0.3	0.4
168	12/08/2016 16:41	0.3	0.3	0.3
169	12/08/2016 16:42	0.3	0.3	0.3
170	12/08/2016 16:43	0.3	0.3	0.3
171	12/08/2016 16:44	0.3	0.3	0.3
172	12/08/2016 16:45	0.3	0.3	0.3
173	12/08/2016 16:46	0.3	0.3	0.4
174	12/08/2016 16:47	0.3	0.3	0.3
175	12/08/2016 16:48	0.3	0.3	0.3
176	12/08/2016 16:49	0.3	0.3	0.4
177	12/08/2016 16:50	0.3	0.3	0.3
178	12/08/2016 16:51	0.3	0.3	0.3
179	12/08/2016 16:52	0.3	0.3	0.3
180	12/08/2016 16:53	0.3	0.3	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 206 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/08/2016 07:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
181	12/08/2016 16:54	0.3	0.3	0.3
182	12/08/2016 16:55	0.3	0.3	0.3
183	12/08/2016 16:56	0.3	0.3	0.3
184	12/08/2016 16:57	0.3	0.3	0.3
185	12/08/2016 16:58	0.3	0.3	0.3
186	12/08/2016 16:59	0.3	0.3	0.4
187	12/08/2016 17:00	0.0	0.2	0.3
188	12/08/2016 17:01	0.3	0.3	0.3
189	12/08/2016 17:02	0.3	0.3	0.6
190	12/08/2016 17:03	0.3	0.3	0.3
191	12/08/2016 17:04	0.3	0.3	0.3
192	12/08/2016 17:05	0.3	0.3	0.5
193	12/08/2016 17:06	0.3	0.3	0.4
194	12/08/2016 17:07	0.3	0.3	0.9
195	12/08/2016 17:08	0.3	0.5	0.9
196	12/08/2016 17:09	0.3	0.4	0.8
197	12/08/2016 17:10	0.3	0.3	0.6
198	12/08/2016 17:11	0.1	0.3	0.5
199	12/08/2016 17:12	0.2	0.3	0.4
200	12/08/2016 17:13	0.2	0.3	0.7
201	12/08/2016 17:14	0.3	0.3	0.4
202	12/08/2016 17:15	0.3	0.3	0.4
203	12/08/2016 17:16	0.3	0.3	0.4
204	12/08/2016 17:17	0.2	0.3	0.4
205	12/08/2016 17:18	0.2	0.3	0.6
206	12/08/2016 17:19	0.0	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/12/2016 09:16	0.5	0.5	0.6
2	12/12/2016 09:17	0.5	0.5	0.6
3	12/12/2016 09:18	0.5	0.5	0.7
4	12/12/2016 09:19	0.5	0.5	0.6
5	12/12/2016 09:20	0.5	0.5	0.7
6	12/12/2016 09:21	0.5	0.5	0.9
7	12/12/2016 09:22	0.5	0.5	0.7
8	12/12/2016 09:23	0.5	0.5	0.6
9	12/12/2016 09:24	0.5	0.5	0.9
10	12/12/2016 09:25	0.5	0.5	0.6
11	12/12/2016 09:26	0.5	0.5	0.6
12	12/12/2016 09:27	0.5	0.5	0.6
13	12/12/2016 09:28	0.5	0.6	0.9
14	12/12/2016 09:29	0.5	0.5	0.6
15	12/12/2016 09:30	0.5	0.5	0.6
16	12/12/2016 09:31	0.5	0.5	0.6
17	12/12/2016 09:32	0.5	0.5	0.6
18	12/12/2016 09:33	0.6	0.6	0.6
19	12/12/2016 09:34	0.6	0.6	0.6
20	12/12/2016 09:35	0.6	0.6	0.7
21	12/12/2016 09:36	0.6	0.6	0.7
22	12/12/2016 09:37	0.7	0.7	0.7
23	12/12/2016 09:38	0.7	0.7	0.7
24	12/12/2016 09:39	0.7	0.7	0.7
25	12/12/2016 09:40	0.7	0.7	0.9
26	12/12/2016 09:41	0.7	0.7	0.8
27	12/12/2016 09:42	0.7	0.7	0.8
28	12/12/2016 09:43	0.7	0.7	0.8
29	12/12/2016 09:44	0.7	0.7	0.9
30	12/12/2016 09:45	0.8	0.8	0.9

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/12/2016 09:46	0.8	0.8	0.9
32	12/12/2016 09:47	0.8	0.8	0.9
33	12/12/2016 09:48	0.8	0.8	0.9
34	12/12/2016 09:49	0.9	0.9	0.9
35	12/12/2016 09:50	0.9	0.9	0.9
36	12/12/2016 09:51	0.9	0.9	1.0
37	12/12/2016 09:52	0.9	0.9	0.9
38	12/12/2016 09:53	0.9	0.9	1.0
39	12/12/2016 09:54	0.9	0.9	1.0
40	12/12/2016 09:55	0.9	0.9	1.0
41	12/12/2016 09:56	0.9	0.9	1.0
42	12/12/2016 09:57	0.9	0.9	1.0
43	12/12/2016 09:58	1.0	1.0	1.0
44	12/12/2016 09:59	1.0	1.0	1.0
45	12/12/2016 10:00	1.0	1.0	1.0
46	12/12/2016 10:01	1.0	1.0	1.0
47	12/12/2016 10:02	1.0	1.0	1.1
48	12/12/2016 10:03	1.0	1.0	1.1
49	12/12/2016 10:04	1.0	1.0	1.1
50	12/12/2016 10:05	1.0	1.0	1.1
51	12/12/2016 10:06	1.0	1.0	1.2
52	12/12/2016 10:07	1.1	1.1	1.2
53	12/12/2016 10:08	1.1	1.1	1.2
54	12/12/2016 10:09	1.1	1.1	1.2
55	12/12/2016 10:10	1.2	1.2	1.2
56	12/12/2016 10:11	1.2	1.2	1.2
57	12/12/2016 10:12	1.2	1.2	1.3
58	12/12/2016 10:13	1.3	1.3	1.4
59	12/12/2016 10:14	1.3	1.3	1.5
60	12/12/2016 10:15	1.4	1.4	1.6

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/12/2016 10:16	1.5	1.5	1.6
62	12/12/2016 10:17	1.5	1.6	1.7
63	12/12/2016 10:18	1.7	1.7	1.8
64	12/12/2016 10:19	1.8	1.8	1.9
65	12/12/2016 10:20	1.8	1.8	1.9
66	12/12/2016 10:21	1.8	1.8	1.9
67	12/12/2016 10:22	1.9	1.9	2.0
68	12/12/2016 10:23	1.9	1.9	2.0
69	12/12/2016 10:24	1.9	2.0	2.1
70	12/12/2016 10:25	2.1	2.1	2.2
71	12/12/2016 10:26	2.0	2.0	2.1
72	12/12/2016 10:27	2.1	2.1	2.2
73	12/12/2016 10:28	2.1	2.1	2.3
74	12/12/2016 10:29	2.1	2.2	2.3
75	12/12/2016 10:30	2.2	2.2	2.4
76	12/12/2016 10:31	2.3	2.3	2.4
77	12/12/2016 10:32	2.4	2.4	2.5
78	12/12/2016 10:33	2.4	2.4	2.5
79	12/12/2016 10:34	2.4	2.4	2.5
80	12/12/2016 10:35	2.3	2.3	2.4
81	12/12/2016 10:36	2.4	2.4	2.6
82	12/12/2016 10:37	2.5	2.6	2.7
83	12/12/2016 10:38	2.6	2.6	2.7
84	12/12/2016 10:39	2.5	2.6	2.7
85	12/12/2016 10:40	2.5	2.6	2.7
86	12/12/2016 10:41	2.6	2.6	2.7
87	12/12/2016 10:42	2.5	2.5	2.6
88	12/12/2016 10:43	2.5	2.5	2.6
89	12/12/2016 10:44	2.6	2.6	2.7
90	12/12/2016 10:45	2.6	2.6	2.8

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/12/2016 10:46	2.6	2.7	2.8
92	12/12/2016 10:47	2.6	2.6	2.7
93	12/12/2016 10:48	2.5	2.6	2.7
94	12/12/2016 10:49	2.5	2.5	2.6
95	12/12/2016 10:50	2.6	2.6	2.7
96	12/12/2016 10:51	2.6	2.6	2.7
97	12/12/2016 10:52	2.7	2.7	2.9
98	12/12/2016 10:53	2.6	2.7	2.9
99	12/12/2016 10:54	2.6	2.6	2.7
100	12/12/2016 10:55	2.6	2.6	2.7
101	12/12/2016 10:56	2.7	2.8	2.9
102	12/12/2016 10:57	2.7	2.7	2.9
103	12/12/2016 10:58	2.7	2.7	2.9
104	12/12/2016 10:59	2.9	2.9	3.2
105	12/12/2016 11:00	2.9	3.1	3.3
106	12/12/2016 11:01	2.9	3.0	3.2
107	12/12/2016 11:02	3.1	3.1	3.3
108	12/12/2016 11:03	3.2	3.3	3.5
109	12/12/2016 11:04	3.3	3.4	3.5
110	12/12/2016 11:05	3.3	3.3	3.5
111	12/12/2016 11:06	3.3	3.4	3.5
112	12/12/2016 11:07	3.3	3.4	3.5
113	12/12/2016 11:08	3.3	3.3	3.5
114	12/12/2016 11:09	3.4	3.4	3.5
115	12/12/2016 11:10	3.3	3.4	3.6
116	12/12/2016 11:11	3.3	3.3	3.4
117	12/12/2016 11:12	3.4	3.5	3.7
118	12/12/2016 11:13	3.2	3.3	3.5
119	12/12/2016 11:14	3.4	3.5	3.8
120	12/12/2016 11:15	3.7	3.7	3.9

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/12/2016 11:16	3.6	3.7	3.9
122	12/12/2016 11:17	3.7	3.8	3.9
123	12/12/2016 11:18	3.8	4.0	4.3
124	12/12/2016 11:19	3.5	3.6	3.9
125	12/12/2016 11:20	3.6	3.7	3.9
126	12/12/2016 11:21	3.9	4.1	4.3
127	12/12/2016 11:22	4.0	4.0	4.1
128	12/12/2016 11:23	4.0	4.1	4.4
129	12/12/2016 11:24	4.1	4.3	4.5
130	12/12/2016 11:25	4.1	4.3	4.6
131	12/12/2016 11:26	4.2	4.3	4.5
132	12/12/2016 11:27	4.0	4.2	4.4
133	12/12/2016 11:28	4.0	4.2	4.5
134	12/12/2016 11:29	4.3	4.4	4.6
135	12/12/2016 11:30	4.2	4.4	4.6
136	12/12/2016 11:31	4.3	4.4	4.6
137	12/12/2016 11:32	4.3	4.4	4.6
138	12/12/2016 11:33	4.1	4.2	4.5
139	12/12/2016 11:34	4.2	4.4	4.6
140	12/12/2016 11:35	4.3	4.4	4.6
141	12/12/2016 11:36	4.3	4.5	4.6
142	12/12/2016 11:37	4.3	4.4	4.6
143	12/12/2016 11:38	4.3	4.4	4.6
144	12/12/2016 11:39	4.4	4.5	4.6
145	12/12/2016 11:40	4.5	4.5	4.7
146	12/12/2016 11:41	4.6	4.8	5.0
147	12/12/2016 11:42	4.4	4.8	5.0
148	12/12/2016 11:43	4.4	4.6	4.8
149	12/12/2016 11:44	4.3	4.5	4.9
150	12/12/2016 11:45	4.9	5.0	5.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/12/2016 11:46	5.0	5.2	5.5
152	12/12/2016 11:47	4.8	5.3	5.8
153	12/12/2016 11:48	4.6	4.8	5.0
154	12/12/2016 11:49	4.6	4.8	5.0
155	12/12/2016 11:50	4.3	4.5	4.7
156	12/12/2016 11:51	4.2	4.3	4.5
157	12/12/2016 11:52	4.2	4.5	4.9
158	12/12/2016 11:53	4.4	4.5	4.7
159	12/12/2016 11:54	4.5	4.6	4.8
160	12/12/2016 11:55	4.6	4.7	5.0
161	12/12/2016 11:56	4.2	4.4	4.7
162	12/12/2016 11:57	4.4	4.8	5.2
163	12/12/2016 11:58	4.6	4.8	5.0
164	12/12/2016 11:59	4.6	4.9	5.4
165	12/12/2016 12:00	4.4	4.7	5.4
166	12/12/2016 12:01	3.9	4.1	4.7
167	12/12/2016 12:02	3.9	4.0	4.2
168	12/12/2016 12:03	4.2	4.5	4.8
169	12/12/2016 12:04	4.1	4.2	4.5
170	12/12/2016 12:05	3.8	4.0	4.5
171	12/12/2016 12:06	3.7	3.9	4.2
172	12/12/2016 12:07	3.9	4.2	4.6
173	12/12/2016 12:08	4.0	4.3	4.6
174	12/12/2016 12:09	3.9	4.0	4.2
175	12/12/2016 12:10	3.9	4.0	4.1
176	12/12/2016 12:11	4.0	4.2	4.5
177	12/12/2016 12:12	4.0	4.2	4.6
178	12/12/2016 12:13	3.9	4.0	4.2
179	12/12/2016 12:14	3.7	3.9	4.1
180	12/12/2016 12:15	4.0	4.1	4.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
181	12/12/2016 12:16	4.1	4.1	4.3
182	12/12/2016 12:17	3.8	4.0	4.2
183	12/12/2016 12:18	4.2	4.3	4.6
184	12/12/2016 12:19	4.0	4.1	4.5
185	12/12/2016 12:20	4.2	4.3	4.6
186	12/12/2016 12:21	3.7	4.1	4.4
187	12/12/2016 12:22	3.7	3.9	4.4
188	12/12/2016 12:23	3.7	4.2	4.6
189	12/12/2016 12:24	3.7	4.1	4.5
190	12/12/2016 12:25	4.0	4.5	5.0
191	12/12/2016 12:26	3.9	4.4	5.1
192	12/12/2016 12:27	4.4	4.6	5.0
193	12/12/2016 12:28	4.2	4.5	5.0
194	12/12/2016 12:29	3.8	4.3	4.8
195	12/12/2016 12:30	3.7	4.1	4.5
196	12/12/2016 12:31	4.1	4.2	4.5
197	12/12/2016 12:32	3.7	3.9	4.1
198	12/12/2016 12:33	3.7	4.0	4.5
199	12/12/2016 12:34	3.4	3.6	3.9
200	12/12/2016 12:35	3.3	3.6	3.9
201	12/12/2016 12:36	3.2	3.3	3.5
202	12/12/2016 12:37	3.2	3.3	3.5
203	12/12/2016 12:38	3.4	3.5	3.7
204	12/12/2016 12:39	3.4	3.5	3.6
205	12/12/2016 12:40	3.3	3.4	3.8
206	12/12/2016 12:41	3.1	3.2	3.5
207	12/12/2016 12:42	2.9	3.0	3.2
208	12/12/2016 12:43	2.9	3.2	3.4
209	12/12/2016 12:44	2.9	3.0	3.3
210	12/12/2016 12:45	3.1	3.3	3.6

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
211	12/12/2016 12:46	3.2	3.4	3.8
212	12/12/2016 12:47	2.7	2.8	3.2
213	12/12/2016 12:48	2.7	2.8	3.0
214	12/12/2016 12:49	2.6	2.8	3.0
215	12/12/2016 12:50	2.8	2.9	3.2
216	12/12/2016 12:51	2.7	2.8	3.1
217	12/12/2016 12:52	2.6	2.8	3.4
218	12/12/2016 12:53	2.5	2.6	2.8
219	12/12/2016 12:54	2.5	2.6	2.9
220	12/12/2016 12:55	2.5	2.7	3.3
221	12/12/2016 12:56	2.4	2.5	2.7
222	12/12/2016 12:57	2.5	2.8	3.0
223	12/12/2016 12:58	2.1	2.3	2.6
224	12/12/2016 12:59	2.1	2.1	2.3
225	12/12/2016 13:00	2.1	2.2	2.4
226	12/12/2016 13:01	2.0	2.1	2.3
227	12/12/2016 13:02	2.0	2.1	2.3
228	12/12/2016 13:03	2.1	2.1	2.4
229	12/12/2016 13:04	2.1	2.1	2.3
230	12/12/2016 13:05	2.2	2.2	2.4
231	12/12/2016 13:06	2.1	2.2	2.5
232	12/12/2016 13:07	2.1	2.2	2.4
233	12/12/2016 13:08	2.1	2.2	2.4
234	12/12/2016 13:09	2.0	2.1	2.3
235	12/12/2016 13:10	2.1	2.2	2.4
236	12/12/2016 13:11	2.0	2.0	2.1
237	12/12/2016 13:12	2.1	2.2	2.5
238	12/12/2016 13:13	1.9	2.1	2.3
239	12/12/2016 13:14	2.0	2.1	2.3
240	12/12/2016 13:15	1.9	2.0	2.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
241	12/12/2016 13:16	2.0	2.1	2.4
242	12/12/2016 13:17	2.0	2.2	2.4
243	12/12/2016 13:18	1.9	2.0	2.1
244	12/12/2016 13:19	1.9	2.0	2.2
245	12/12/2016 13:20	1.9	1.9	2.1
246	12/12/2016 13:21	1.8	1.9	2.3
247	12/12/2016 13:22	0.5	0.8	2.1
248	12/12/2016 13:23	0.5	0.5	0.6
249	12/12/2016 13:24	0.5	0.5	0.6
250	12/12/2016 13:25	0.5	0.5	0.6
251	12/12/2016 13:26	0.5	0.5	0.6
252	12/12/2016 13:27	0.5	0.5	0.6
253	12/12/2016 13:28	0.5	0.5	0.6
254	12/12/2016 13:29	0.5	0.5	0.6
255	12/12/2016 13:30	0.5	0.5	0.6
256	12/12/2016 13:31	0.5	0.5	0.6
257	12/12/2016 13:32	0.5	0.5	0.6
258	12/12/2016 13:33	0.5	0.5	0.6
259	12/12/2016 13:34	0.5	0.5	0.6
260	12/12/2016 13:35	0.5	0.5	0.6
261	12/12/2016 13:36	0.5	0.5	0.6
262	12/12/2016 13:37	0.5	0.5	0.6
263	12/12/2016 13:38	0.5	0.5	0.6
264	12/12/2016 13:39	0.5	0.5	0.6
265	12/12/2016 13:40	0.5	0.5	0.6
266	12/12/2016 13:41	0.5	0.5	0.6
267	12/12/2016 13:42	0.5	0.5	0.6
268	12/12/2016 13:43	0.5	0.5	0.6
269	12/12/2016 13:44	0.5	0.5	0.6
270	12/12/2016 13:45	0.5	0.5	0.6

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
271	12/12/2016 13:46	0.6	0.6	0.6
272	12/12/2016 13:47	0.5	0.5	0.6
273	12/12/2016 13:48	0.5	0.5	0.6
274	12/12/2016 13:49	0.6	0.6	0.6
275	12/12/2016 13:50	0.6	0.6	0.6
276	12/12/2016 13:51	0.5	0.5	0.6
277	12/12/2016 13:52	0.5	0.5	0.6
278	12/12/2016 13:53	0.6	0.6	0.7
279	12/12/2016 13:54	0.5	0.5	0.6
280	12/12/2016 13:55	0.5	0.5	0.6
281	12/12/2016 13:56	0.5	0.5	0.6
282	12/12/2016 13:57	0.6	0.6	0.6
283	12/12/2016 13:58	0.5	0.5	0.6
284	12/12/2016 13:59	0.5	0.5	0.6
285	12/12/2016 14:00	0.6	0.6	0.6
286	12/12/2016 14:01	0.5	0.5	0.6
287	12/12/2016 14:02	0.6	0.6	0.6
288	12/12/2016 14:03	0.6	0.6	0.6
289	12/12/2016 14:04	0.5	0.5	0.6
290	12/12/2016 14:05	0.6	0.6	0.6
291	12/12/2016 14:06	0.6	0.6	0.6
292	12/12/2016 14:07	0.6	0.6	0.6
293	12/12/2016 14:08	0.6	0.6	0.6
294	12/12/2016 14:09	0.5	0.5	0.6
295	12/12/2016 14:10	0.6	0.6	0.6
296	12/12/2016 14:11	0.6	0.6	0.6
297	12/12/2016 14:12	0.6	0.6	0.6
298	12/12/2016 14:13	0.6	0.6	0.6
299	12/12/2016 14:14	0.6	0.6	0.6
300	12/12/2016 14:15	0.6	0.6	0.6

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
301	12/12/2016 14:16	0.6	0.6	0.6
302	12/12/2016 14:17	0.6	0.6	0.6
303	12/12/2016 14:18	0.6	0.6	0.6
304	12/12/2016 14:19	0.6	0.6	0.6
305	12/12/2016 14:20	0.5	0.5	0.6
306	12/12/2016 14:21	0.6	0.6	0.6
307	12/12/2016 14:22	0.6	0.6	0.6
308	12/12/2016 14:23	0.6	0.6	0.6
309	12/12/2016 14:24	0.6	0.6	0.6
310	12/12/2016 14:25	0.6	0.6	0.6
311	12/12/2016 14:26	0.6	0.6	0.6
312	12/12/2016 14:27	0.6	0.6	0.6
313	12/12/2016 14:28	0.6	0.6	0.6
314	12/12/2016 14:29	0.6	0.6	0.6
315	12/12/2016 14:30	0.6	0.6	0.6
316	12/12/2016 14:31	0.6	0.6	0.6
317	12/12/2016 14:32	0.6	0.6	0.6
318	12/12/2016 14:33	0.6	0.6	0.6
319	12/12/2016 14:34	0.6	0.6	0.6
320	12/12/2016 14:35	0.6	0.6	0.6
321	12/12/2016 14:36	0.6	0.6	0.6
322	12/12/2016 14:37	0.6	0.6	0.6
323	12/12/2016 14:38	0.6	0.6	0.6
324	12/12/2016 14:39	0.6	0.6	0.6
325	12/12/2016 14:40	0.6	0.6	0.6
326	12/12/2016 14:41	0.6	0.6	0.6
327	12/12/2016 14:42	0.6	0.6	0.6
328	12/12/2016 14:43	0.6	0.6	0.6
329	12/12/2016 14:44	0.6	0.6	0.6
330	12/12/2016 14:45	0.6	0.6	0.6

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
331	12/12/2016 14:46	0.6	0.6	0.6
332	12/12/2016 14:47	0.6	0.6	0.6
333	12/12/2016 14:48	0.6	0.6	0.6
334	12/12/2016 14:49	0.6	0.6	0.6
335	12/12/2016 14:50	0.6	0.6	0.6
336	12/12/2016 14:51	0.6	0.6	0.6
337	12/12/2016 14:52	0.6	0.6	0.6
338	12/12/2016 14:53	0.6	0.6	0.6
339	12/12/2016 14:54	0.6	0.6	0.6
340	12/12/2016 14:55	0.6	0.6	0.6
341	12/12/2016 14:56	0.6	0.6	0.6
342	12/12/2016 14:57	0.6	0.6	0.6
343	12/12/2016 14:58	0.6	0.6	0.6
344	12/12/2016 14:59	0.6	0.6	0.6
345	12/12/2016 15:00	0.6	0.6	0.6
346	12/12/2016 15:01	0.6	0.6	0.6
347	12/12/2016 15:02	0.6	0.6	0.6
348	12/12/2016 15:03	0.6	0.6	0.6
349	12/12/2016 15:04	0.6	0.6	0.6
350	12/12/2016 15:05	0.6	0.6	0.6
351	12/12/2016 15:06	0.6	0.6	0.6
352	12/12/2016 15:07	0.6	0.6	0.6
353	12/12/2016 15:08	0.6	0.6	0.6
354	12/12/2016 15:09	0.6	0.6	0.7
355	12/12/2016 15:10	0.6	0.6	0.6
356	12/12/2016 15:11	0.6	0.6	0.6
357	12/12/2016 15:12	0.6	0.6	0.6
358	12/12/2016 15:13	0.6	0.6	0.7
359	12/12/2016 15:14	0.6	0.6	0.6
360	12/12/2016 15:15	0.6	0.6	0.6

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
361	12/12/2016 15:16	0.6	0.6	0.6
362	12/12/2016 15:17	0.6	0.6	0.6
363	12/12/2016 15:18	0.6	0.6	0.6
364	12/12/2016 15:19	0.6	0.6	0.6
365	12/12/2016 15:20	0.6	0.6	0.6
366	12/12/2016 15:21	0.6	0.6	0.6
367	12/12/2016 15:22	0.6	0.6	0.6
368	12/12/2016 15:23	0.6	0.6	0.7
369	12/12/2016 15:24	0.6	0.6	0.6
370	12/12/2016 15:25	0.6	0.6	0.7
371	12/12/2016 15:26	0.6	0.6	0.6
372	12/12/2016 15:27	0.6	0.6	0.6
373	12/12/2016 15:28	0.6	0.6	0.6
374	12/12/2016 15:29	0.6	0.6	0.6
375	12/12/2016 15:30	0.6	0.6	0.6
376	12/12/2016 15:31	0.6	0.6	0.6
377	12/12/2016 15:32	0.6	0.6	0.6
378	12/12/2016 15:33	0.6	0.6	0.6
379	12/12/2016 15:34	0.6	0.6	0.6
380	12/12/2016 15:35	0.6	0.6	0.6
381	12/12/2016 15:36	0.6	0.6	0.6
382	12/12/2016 15:37	0.6	0.6	0.7
383	12/12/2016 15:38	0.6	0.6	0.7
384	12/12/2016 15:39	0.6	0.6	0.7
385	12/12/2016 15:40	0.6	0.6	0.6
386	12/12/2016 15:41	0.6	0.6	0.6
387	12/12/2016 15:42	0.6	0.6	0.6
388	12/12/2016 15:43	0.6	0.6	0.6
389	12/12/2016 15:44	0.6	0.6	0.6
390	12/12/2016 15:45	0.6	0.6	0.6

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 417 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/12/2016 07:56

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
391	12/12/2016 15:46	0.6	0.6	0.6
392	12/12/2016 15:47	0.6	0.6	0.6
393	12/12/2016 15:48	0.6	0.6	0.6
394	12/12/2016 15:49	0.6	0.6	0.6
395	12/12/2016 15:50	0.6	0.6	0.6
396	12/12/2016 15:51	0.6	0.6	0.6
397	12/12/2016 15:52	0.6	0.6	0.7
398	12/12/2016 15:53	0.6	0.6	0.7
399	12/12/2016 15:54	0.6	0.6	0.6
400	12/12/2016 15:55	0.6	0.6	0.6
401	12/12/2016 15:56	0.6	0.6	0.7
402	12/12/2016 15:57	0.6	0.6	0.7
403	12/12/2016 15:58	0.6	0.6	0.6
404	12/12/2016 15:59	0.6	0.6	0.6
405	12/12/2016 16:00	0.6	0.6	0.6
406	12/12/2016 16:01	0.6	0.6	0.7
407	12/12/2016 16:02	0.6	0.6	0.6
408	12/12/2016 16:03	0.6	0.6	0.7
409	12/12/2016 16:04	0.6	0.6	0.7
410	12/12/2016 16:05	0.6	0.6	0.7
411	12/12/2016 16:06	0.6	0.6	0.6
412	12/12/2016 16:07	0.6	0.6	0.7
413	12/12/2016 16:08	0.6	0.6	0.7
414	12/12/2016 16:09	0.6	0.6	0.6
415	12/12/2016 16:10	0.6	0.6	0.7
416	12/12/2016 16:11	0.6	0.6	0.7
417	12/12/2016 16:12	0.6	0.6	0.7

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/13/2016 07:40	0.0	0.0	0.2
2	12/13/2016 07:41	0.0	0.0	0.2
3	12/13/2016 07:42	0.0	0.0	0.2
4	12/13/2016 07:43	0.0	0.0	0.2
5	12/13/2016 07:44	0.0	0.0	0.2
6	12/13/2016 07:45	0.0	0.0	0.2
7	12/13/2016 07:46	0.0	0.0	0.2
8	12/13/2016 07:47	0.0	0.0	0.2
9	12/13/2016 07:48	0.0	0.0	0.2
10	12/13/2016 07:49	0.0	0.0	0.2
11	12/13/2016 07:50	0.0	0.0	0.2
12	12/13/2016 07:51	0.0	0.0	0.2
13	12/13/2016 07:52	0.0	0.0	0.2
14	12/13/2016 07:53	0.0	0.0	0.2
15	12/13/2016 07:54	0.0	0.0	0.2
16	12/13/2016 07:55	0.0	0.0	0.2
17	12/13/2016 07:56	0.0	0.0	0.1
18	12/13/2016 07:57	0.0	0.0	0.1
19	12/13/2016 07:58	0.0	0.0	0.2
20	12/13/2016 07:59	0.0	0.0	0.2
21	12/13/2016 08:00	0.0	0.0	0.1
22	12/13/2016 08:01	0.0	0.0	0.1
23	12/13/2016 08:02	0.0	0.0	0.1
24	12/13/2016 08:03	0.0	0.0	0.1
25	12/13/2016 08:04	0.0	0.0	0.1
26	12/13/2016 08:05	0.0	0.0	0.1
27	12/13/2016 08:06	0.0	0.0	0.1
28	12/13/2016 08:07	0.0	0.0	0.1
29	12/13/2016 08:08	0.0	0.0	0.1
30	12/13/2016 08:09	0.0	0.0	0.1

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/13/2016 08:10	0.0	0.0	0.1
32	12/13/2016 08:11	0.0	0.0	0.1
33	12/13/2016 08:12	0.0	0.0	0.1
34	12/13/2016 08:13	0.1	0.1	0.1
35	12/13/2016 08:14	0.0	0.0	0.1
36	12/13/2016 08:15	0.1	0.1	0.1
37	12/13/2016 08:16	0.0	0.0	0.1
38	12/13/2016 08:17	0.1	0.1	0.1
39	12/13/2016 08:18	0.0	0.0	0.1
40	12/13/2016 08:19	0.0	0.0	0.1
41	12/13/2016 08:20	0.0	0.0	0.1
42	12/13/2016 08:21	0.0	0.0	0.1
43	12/13/2016 08:22	0.0	0.0	0.1
44	12/13/2016 08:23	0.1	0.1	0.1
45	12/13/2016 08:24	0.0	0.0	0.1
46	12/13/2016 08:25	0.0	0.0	0.1
47	12/13/2016 08:26	0.1	0.1	0.1
48	12/13/2016 08:27	0.1	0.1	0.1
49	12/13/2016 08:28	0.1	0.1	0.1
50	12/13/2016 08:29	0.0	0.0	0.1
51	12/13/2016 08:30	0.0	0.0	0.1
52	12/13/2016 08:31	0.1	0.1	0.1
53	12/13/2016 08:32	0.1	0.1	0.1
54	12/13/2016 08:33	0.0	0.0	0.1
55	12/13/2016 08:34	0.0	0.0	0.1
56	12/13/2016 08:35	0.1	0.1	0.1
57	12/13/2016 08:36	0.1	0.1	0.1
58	12/13/2016 08:37	0.1	0.1	0.1
59	12/13/2016 08:38	0.1	0.1	0.1
60	12/13/2016 08:39	0.1	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/13/2016 08:40	0.1	0.1	0.1
62	12/13/2016 08:41	0.1	0.1	0.1
63	12/13/2016 08:42	0.1	0.1	0.1
64	12/13/2016 08:43	0.1	0.1	0.1
65	12/13/2016 08:44	0.1	0.1	0.1
66	12/13/2016 08:45	0.1	0.1	0.1
67	12/13/2016 08:46	0.1	0.1	0.1
68	12/13/2016 08:47	0.1	0.1	0.1
69	12/13/2016 08:48	0.1	0.1	0.1
70	12/13/2016 08:49	0.1	0.1	0.1
71	12/13/2016 08:50	0.1	0.1	0.1
72	12/13/2016 08:51	0.1	0.1	0.1
73	12/13/2016 08:52	0.1	0.1	0.1
74	12/13/2016 08:53	0.1	0.1	0.1
75	12/13/2016 08:54	0.1	0.1	0.1
76	12/13/2016 08:55	0.1	0.1	0.1
77	12/13/2016 08:56	0.1	0.1	0.1
78	12/13/2016 08:57	0.1	0.1	0.2
79	12/13/2016 08:58	0.1	0.1	0.2
80	12/13/2016 08:59	0.1	0.1	0.1
81	12/13/2016 09:00	0.1	0.1	0.1
82	12/13/2016 09:01	0.1	0.1	0.1
83	12/13/2016 09:02	0.1	0.1	0.1
84	12/13/2016 09:03	0.1	0.1	0.2
85	12/13/2016 09:04	0.1	0.1	0.1
86	12/13/2016 09:05	0.1	0.1	0.1
87	12/13/2016 09:06	0.1	0.1	0.1
88	12/13/2016 09:07	0.1	0.1	0.1
89	12/13/2016 09:08	0.1	0.1	0.1
90	12/13/2016 09:09	0.1	0.1	0.2

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/13/2016 09:10	0.1	0.1	0.1
92	12/13/2016 09:11	0.1	0.1	0.1
93	12/13/2016 09:12	0.1	0.1	0.1
94	12/13/2016 09:13	0.1	0.1	0.2
95	12/13/2016 09:14	0.1	0.1	0.1
96	12/13/2016 09:15	0.1	0.1	0.1
97	12/13/2016 09:16	0.1	0.1	0.1
98	12/13/2016 09:17	0.1	0.1	0.2
99	12/13/2016 09:18	0.1	0.1	0.2
100	12/13/2016 09:19	0.1	0.1	0.2
101	12/13/2016 09:20	0.1	0.1	0.2
102	12/13/2016 09:21	0.1	0.1	0.1
103	12/13/2016 09:22	0.1	0.1	0.1
104	12/13/2016 09:23	0.1	0.1	0.2
105	12/13/2016 09:24	0.1	0.1	0.2
106	12/13/2016 09:25	0.1	0.1	0.2
107	12/13/2016 09:26	0.1	0.1	0.1
108	12/13/2016 09:27	0.1	0.1	0.1
109	12/13/2016 09:28	0.1	0.1	0.2
110	12/13/2016 09:29	0.1	0.1	0.2
111	12/13/2016 09:30	0.1	0.1	0.2
112	12/13/2016 09:31	0.1	0.1	0.2
113	12/13/2016 09:32	0.0	0.1	0.2
114	12/13/2016 09:33	0.0	0.1	0.2
115	12/13/2016 09:34	0.1	0.1	0.2
116	12/13/2016 09:35	0.0	0.1	0.2
117	12/13/2016 09:36	0.0	0.1	0.2
118	12/13/2016 09:37	0.0	0.1	0.2
119	12/13/2016 09:38	0.0	0.1	0.3
120	12/13/2016 09:39	0.0	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/13/2016 09:40	0.0	0.1	0.3
122	12/13/2016 09:41	0.0	0.1	0.2
123	12/13/2016 09:42	0.0	0.1	0.2
124	12/13/2016 09:43	0.0	0.1	0.2
125	12/13/2016 09:44	0.0	0.1	0.2
126	12/13/2016 09:45	0.0	0.1	0.2
127	12/13/2016 09:46	0.0	0.1	0.2
128	12/13/2016 09:47	0.1	0.1	0.2
129	12/13/2016 09:48	0.0	0.1	0.2
130	12/13/2016 09:49	0.1	0.1	0.1
131	12/13/2016 09:50	0.1	0.1	0.2
132	12/13/2016 09:51	0.1	0.1	0.2
133	12/13/2016 09:52	0.1	0.1	0.2
134	12/13/2016 09:53	0.1	0.1	0.2
135	12/13/2016 09:54	0.1	0.1	0.2
136	12/13/2016 09:55	0.1	0.1	0.2
137	12/13/2016 09:56	0.1	0.1	0.1
138	12/13/2016 09:57	0.1	0.1	0.2
139	12/13/2016 09:58	0.1	0.1	0.2
140	12/13/2016 09:59	0.1	0.1	0.1
141	12/13/2016 10:00	0.1	0.1	0.2
142	12/13/2016 10:01	0.1	0.1	0.1
143	12/13/2016 10:02	0.1	0.1	0.2
144	12/13/2016 10:03	0.1	0.1	0.1
145	12/13/2016 10:04	0.1	0.1	0.2
146	12/13/2016 10:05	0.1	0.1	0.1
147	12/13/2016 10:06	0.1	0.1	0.1
148	12/13/2016 10:07	0.1	0.1	0.1
149	12/13/2016 10:08	0.1	0.1	0.2
150	12/13/2016 10:09	0.1	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/13/2016 10:10	0.1	0.1	0.2
152	12/13/2016 10:11	0.1	0.1	0.1
153	12/13/2016 10:12	0.1	0.1	0.1
154	12/13/2016 10:13	0.1	0.1	0.2
155	12/13/2016 10:14	0.1	0.1	0.1
156	12/13/2016 10:15	0.1	0.1	0.1
157	12/13/2016 10:16	0.1	0.1	0.1
158	12/13/2016 10:17	0.1	0.1	0.1
159	12/13/2016 10:18	0.1	0.1	0.2
160	12/13/2016 10:19	0.1	0.1	0.1
161	12/13/2016 10:20	0.1	0.1	0.2
162	12/13/2016 10:21	0.1	0.1	0.2
163	12/13/2016 10:22	0.1	0.1	0.2
164	12/13/2016 10:23	0.1	0.1	0.2
165	12/13/2016 10:24	0.1	0.1	0.2
166	12/13/2016 10:25	0.1	0.1	0.2
167	12/13/2016 10:26	0.1	0.1	0.2
168	12/13/2016 10:27	0.1	0.1	0.2
169	12/13/2016 10:28	0.1	0.1	0.2
170	12/13/2016 10:29	0.1	0.1	0.2
171	12/13/2016 10:30	0.1	0.1	0.2
172	12/13/2016 10:31	0.1	0.1	0.2
173	12/13/2016 10:32	0.1	0.1	0.2
174	12/13/2016 10:33	0.1	0.1	0.2
175	12/13/2016 10:34	0.1	0.1	0.1
176	12/13/2016 10:35	0.1	0.1	0.2
177	12/13/2016 10:36	0.1	0.1	0.2
178	12/13/2016 10:37	0.1	0.1	0.1
179	12/13/2016 10:38	0.1	0.1	0.1
180	12/13/2016 10:39	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
181	12/13/2016 10:40	0.1	0.1	0.1
182	12/13/2016 10:41	0.1	0.1	0.2
183	12/13/2016 10:42	0.1	0.1	0.1
184	12/13/2016 10:43	0.1	0.1	0.2
185	12/13/2016 10:44	0.1	0.1	0.2
186	12/13/2016 10:45	0.1	0.1	0.1
187	12/13/2016 10:46	0.1	0.1	0.1
188	12/13/2016 10:47	0.1	0.1	0.2
189	12/13/2016 10:48	0.1	0.1	0.1
190	12/13/2016 10:49	0.1	0.1	0.1
191	12/13/2016 10:50	0.1	0.1	0.2
192	12/13/2016 10:51	0.1	0.1	0.1
193	12/13/2016 10:52	0.1	0.1	0.2
194	12/13/2016 10:53	0.1	0.1	0.2
195	12/13/2016 10:54	0.1	0.1	0.2
196	12/13/2016 10:55	0.1	0.1	0.2
197	12/13/2016 10:56	0.1	0.1	0.2
198	12/13/2016 10:57	0.1	0.1	0.2
199	12/13/2016 10:58	0.1	0.1	0.1
200	12/13/2016 10:59	0.1	0.1	0.1
201	12/13/2016 11:00	0.1	0.1	0.1
202	12/13/2016 11:01	0.1	0.1	0.1
203	12/13/2016 11:02	0.1	0.1	0.1
204	12/13/2016 11:03	0.1	0.1	0.2
205	12/13/2016 11:04	0.1	0.1	0.2
206	12/13/2016 11:05	0.1	0.1	0.1
207	12/13/2016 11:06	0.1	0.1	0.2
208	12/13/2016 11:07	0.1	0.1	0.1
209	12/13/2016 11:08	0.1	0.1	0.1
210	12/13/2016 11:09	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
211	12/13/2016 11:10	0.1	0.1	0.1
212	12/13/2016 11:11	0.1	0.1	0.1
213	12/13/2016 11:12	0.1	0.1	0.1
214	12/13/2016 11:13	0.1	0.1	0.2
215	12/13/2016 11:14	0.1	0.1	0.2
216	12/13/2016 11:15	0.1	0.1	0.1
217	12/13/2016 11:16	0.1	0.1	0.1
218	12/13/2016 11:17	0.1	0.1	0.1
219	12/13/2016 11:18	0.1	0.1	0.2
220	12/13/2016 11:19	0.1	0.1	0.2
221	12/13/2016 11:20	0.1	0.1	0.2
222	12/13/2016 11:21	0.1	0.1	0.2
223	12/13/2016 11:22	0.1	0.1	0.2
224	12/13/2016 11:23	0.1	0.1	0.1
225	12/13/2016 11:24	0.1	0.1	0.1
226	12/13/2016 11:25	0.1	0.1	0.2
227	12/13/2016 11:26	0.1	0.1	0.2
228	12/13/2016 11:27	0.1	0.1	0.2
229	12/13/2016 11:28	0.1	0.1	0.1
230	12/13/2016 11:29	0.1	0.1	0.1
231	12/13/2016 11:30	0.1	0.1	0.1
232	12/13/2016 11:31	0.1	0.1	0.2
233	12/13/2016 11:32	0.1	0.1	0.2
234	12/13/2016 11:33	0.1	0.1	0.1
235	12/13/2016 11:34	0.1	0.1	0.2
236	12/13/2016 11:35	0.1	0.1	0.1
237	12/13/2016 11:36	0.1	0.1	0.1
238	12/13/2016 11:37	0.1	0.1	0.1
239	12/13/2016 11:38	0.1	0.1	0.1
240	12/13/2016 11:39	0.1	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
241	12/13/2016 11:40	0.1	0.1	0.1
242	12/13/2016 11:41	0.1	0.1	0.2
243	12/13/2016 11:42	0.1	0.1	0.2
244	12/13/2016 11:43	0.1	0.1	0.2
245	12/13/2016 11:44	0.1	0.1	0.1
246	12/13/2016 11:45	0.1	0.1	0.1
247	12/13/2016 11:46	0.1	0.1	0.2
248	12/13/2016 11:47	0.1	0.1	0.2
249	12/13/2016 11:48	0.1	0.1	0.1
250	12/13/2016 11:49	0.1	0.1	0.1
251	12/13/2016 11:50	0.1	0.1	0.1
252	12/13/2016 11:51	0.1	0.1	0.1
253	12/13/2016 11:52	0.1	0.1	0.1
254	12/13/2016 11:53	0.1	0.1	0.1
255	12/13/2016 11:54	0.1	0.1	0.1
256	12/13/2016 11:55	0.1	0.1	0.2
257	12/13/2016 11:56	0.1	0.1	0.1
258	12/13/2016 11:57	0.1	0.1	0.1
259	12/13/2016 11:58	0.1	0.1	0.1
260	12/13/2016 11:59	0.1	0.1	0.1
261	12/13/2016 12:00	0.1	0.1	0.1
262	12/13/2016 12:01	0.1	0.1	0.1
263	12/13/2016 12:02	0.1	0.1	0.1
264	12/13/2016 12:03	0.1	0.1	0.1
265	12/13/2016 12:04	0.1	0.1	0.1
266	12/13/2016 12:05	0.1	0.1	0.1
267	12/13/2016 12:06	0.1	0.1	0.1
268	12/13/2016 12:07	0.1	0.1	0.2
269	12/13/2016 12:08	0.1	0.1	0.1
270	12/13/2016 12:09	0.0	0.0	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
271	12/13/2016 12:10	0.1	0.1	0.1
272	12/13/2016 12:11	0.1	0.1	0.1
273	12/13/2016 12:12	0.1	0.1	0.1
274	12/13/2016 12:13	0.1	0.1	0.1
275	12/13/2016 12:14	0.1	0.1	0.1
276	12/13/2016 12:15	0.1	0.1	0.1
277	12/13/2016 12:16	0.1	0.1	0.1
278	12/13/2016 12:17	0.1	0.1	0.1
279	12/13/2016 12:18	0.1	0.1	0.1
280	12/13/2016 12:19	0.1	0.1	0.1
281	12/13/2016 12:20	0.1	0.1	0.1
282	12/13/2016 12:21	0.1	0.1	0.1
283	12/13/2016 12:22	0.1	0.1	0.1
284	12/13/2016 12:23	0.1	0.1	0.1
285	12/13/2016 12:24	0.1	0.1	0.1
286	12/13/2016 12:25	0.1	0.1	0.1
287	12/13/2016 12:26	0.1	0.1	0.1
288	12/13/2016 12:27	0.1	0.1	0.1
289	12/13/2016 12:28	0.1	0.1	0.1
290	12/13/2016 12:29	0.1	0.1	0.1
291	12/13/2016 12:30	0.1	0.1	0.2
292	12/13/2016 12:31	0.1	0.1	0.1
293	12/13/2016 12:32	0.1	0.1	0.1
294	12/13/2016 12:33	0.1	0.1	0.2
295	12/13/2016 12:34	0.1	0.1	0.1
296	12/13/2016 12:35	0.1	0.1	0.1
297	12/13/2016 12:36	0.1	0.1	0.2
298	12/13/2016 12:37	0.1	0.1	0.1
299	12/13/2016 12:38	0.1	0.1	0.1
300	12/13/2016 12:39	0.1	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
301	12/13/2016 12:40	0.1	0.1	0.1
302	12/13/2016 12:41	0.1	0.1	0.1
303	12/13/2016 12:42	0.1	0.1	0.1
304	12/13/2016 12:43	0.1	0.1	0.1
305	12/13/2016 12:44	0.1	0.1	0.1
306	12/13/2016 12:45	0.1	0.1	0.1
307	12/13/2016 12:46	0.1	0.1	0.1
308	12/13/2016 12:47	0.1	0.1	0.1
309	12/13/2016 12:48	0.1	0.1	0.1
310	12/13/2016 12:49	0.1	0.1	0.1
311	12/13/2016 12:50	0.1	0.1	0.1
312	12/13/2016 12:51	0.1	0.1	0.1
313	12/13/2016 12:52	0.1	0.1	0.1
314	12/13/2016 12:53	0.1	0.1	0.1
315	12/13/2016 12:54	0.1	0.1	0.1
316	12/13/2016 12:55	0.1	0.1	0.1
317	12/13/2016 12:56	0.1	0.1	0.1
318	12/13/2016 12:57	0.1	0.1	0.1
319	12/13/2016 12:58	0.1	0.1	0.1
320	12/13/2016 12:59	0.1	0.1	0.1
321	12/13/2016 13:00	0.1	0.1	0.1
322	12/13/2016 13:01	0.1	0.1	0.1
323	12/13/2016 13:02	0.1	0.1	0.2
324	12/13/2016 13:03	0.1	0.1	0.1
325	12/13/2016 13:04	0.1	0.1	0.1
326	12/13/2016 13:05	0.1	0.1	0.1
327	12/13/2016 13:06	0.1	0.1	0.1
328	12/13/2016 13:07	0.1	0.1	0.1
329	12/13/2016 13:08	0.1	0.1	0.1
330	12/13/2016 13:09	0.1	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
331	12/13/2016 13:10	0.1	0.1	0.2
332	12/13/2016 13:11	0.1	0.1	0.1
333	12/13/2016 13:12	0.1	0.1	0.1
334	12/13/2016 13:13	0.1	0.1	0.1
335	12/13/2016 13:14	0.1	0.1	0.2
336	12/13/2016 13:15	0.1	0.1	0.1
337	12/13/2016 13:16	0.1	0.1	0.2
338	12/13/2016 13:17	0.1	0.1	0.1
339	12/13/2016 13:18	0.1	0.1	0.2
340	12/13/2016 13:19	0.1	0.1	0.2
341	12/13/2016 13:20	0.1	0.1	0.1
342	12/13/2016 13:21	0.1	0.1	0.1
343	12/13/2016 13:22	0.1	0.1	0.1
344	12/13/2016 13:23	0.1	0.1	0.1
345	12/13/2016 13:24	0.1	0.1	0.1
346	12/13/2016 13:25	0.1	0.1	0.2
347	12/13/2016 13:26	0.1	0.1	0.1
348	12/13/2016 13:27	0.1	0.1	0.1
349	12/13/2016 13:28	0.1	0.1	0.1
350	12/13/2016 13:29	0.1	0.1	0.2
351	12/13/2016 13:30	0.1	0.1	0.1
352	12/13/2016 13:31	0.1	0.1	0.1
353	12/13/2016 13:32	0.1	0.1	0.1
354	12/13/2016 13:33	0.1	0.1	0.2
355	12/13/2016 13:34	0.1	0.1	0.1
356	12/13/2016 13:35	0.1	0.1	0.1
357	12/13/2016 13:36	0.1	0.1	0.1
358	12/13/2016 13:37	0.1	0.1	0.1
359	12/13/2016 13:38	0.1	0.1	0.1
360	12/13/2016 13:39	0.1	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
361	12/13/2016 13:40	0.1	0.1	0.2
362	12/13/2016 13:41	0.1	0.1	0.1
363	12/13/2016 13:42	0.1	0.1	0.2
364	12/13/2016 13:43	0.1	0.1	0.1
365	12/13/2016 13:44	0.1	0.1	0.2
366	12/13/2016 13:45	0.1	0.1	0.2
367	12/13/2016 13:46	0.1	0.1	0.2
368	12/13/2016 13:47	0.1	0.1	0.2
369	12/13/2016 13:48	0.1	0.1	0.2
370	12/13/2016 13:49	0.1	0.1	0.2
371	12/13/2016 13:50	0.1	0.1	0.2
372	12/13/2016 13:51	0.1	0.1	0.2
373	12/13/2016 13:52	0.1	0.1	0.2
374	12/13/2016 13:53	0.1	0.1	0.2
375	12/13/2016 13:54	0.1	0.1	0.2
376	12/13/2016 13:55	0.1	0.1	0.2
377	12/13/2016 13:56	0.1	0.1	0.2
378	12/13/2016 13:57	0.1	0.1	0.2
379	12/13/2016 13:58	0.1	0.1	0.1
380	12/13/2016 13:59	0.1	0.1	0.2
381	12/13/2016 14:00	0.1	0.1	0.2
382	12/13/2016 14:01	0.1	0.1	0.1
383	12/13/2016 14:02	0.1	0.1	0.2
384	12/13/2016 14:03	0.1	0.1	0.2
385	12/13/2016 14:04	0.1	0.1	0.2
386	12/13/2016 14:05	0.1	0.1	0.2
387	12/13/2016 14:06	0.1	0.1	0.2
388	12/13/2016 14:07	0.1	0.1	0.2
389	12/13/2016 14:08	0.1	0.1	0.2
390	12/13/2016 14:09	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
391	12/13/2016 14:10	0.1	0.1	0.2
392	12/13/2016 14:11	0.1	0.1	0.2
393	12/13/2016 14:12	0.1	0.1	0.2
394	12/13/2016 14:13	0.1	0.1	0.2
395	12/13/2016 14:14	0.1	0.1	0.1
396	12/13/2016 14:15	0.1	0.1	0.2
397	12/13/2016 14:16	0.1	0.1	0.2
398	12/13/2016 14:17	0.1	0.1	0.2
399	12/13/2016 14:18	0.1	0.1	0.2
400	12/13/2016 14:19	0.1	0.1	0.2
401	12/13/2016 14:20	0.1	0.1	0.2
402	12/13/2016 14:21	0.1	0.1	0.1
403	12/13/2016 14:22	0.1	0.1	0.2
404	12/13/2016 14:23	0.1	0.1	0.2
405	12/13/2016 14:24	0.1	0.1	0.2
406	12/13/2016 14:25	0.1	0.1	0.2
407	12/13/2016 14:26	0.1	0.1	0.2
408	12/13/2016 14:27	0.1	0.1	0.2
409	12/13/2016 14:28	0.1	0.1	0.2
410	12/13/2016 14:29	0.1	0.1	0.2
411	12/13/2016 14:30	0.1	0.1	0.2
412	12/13/2016 14:31	0.1	0.1	0.2
413	12/13/2016 14:32	0.1	0.1	0.1
414	12/13/2016 14:33	0.1	0.1	0.2
415	12/13/2016 14:34	0.1	0.1	0.2
416	12/13/2016 14:35	0.1	0.1	0.2
417	12/13/2016 14:36	0.1	0.1	0.2
418	12/13/2016 14:37	0.1	0.1	0.2
419	12/13/2016 14:38	0.1	0.1	0.2
420	12/13/2016 14:39	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
421	12/13/2016 14:40	0.1	0.1	0.2
422	12/13/2016 14:41	0.1	0.1	0.2
423	12/13/2016 14:42	0.1	0.1	0.2
424	12/13/2016 14:43	0.1	0.1	0.2
425	12/13/2016 14:44	0.1	0.1	0.2
426	12/13/2016 14:45	0.1	0.1	0.2
427	12/13/2016 14:46	0.1	0.1	0.2
428	12/13/2016 14:47	0.1	0.1	0.2
429	12/13/2016 14:48	0.1	0.1	0.1
430	12/13/2016 14:49	0.1	0.1	0.2
431	12/13/2016 14:50	0.1	0.1	0.2
432	12/13/2016 14:51	0.1	0.1	0.2
433	12/13/2016 14:52	0.1	0.1	0.2
434	12/13/2016 14:53	0.1	0.1	0.2
435	12/13/2016 14:54	0.1	0.1	0.2
436	12/13/2016 14:55	0.1	0.1	0.2
437	12/13/2016 14:56	0.1	0.1	0.2
438	12/13/2016 14:57	0.1	0.1	0.2
439	12/13/2016 14:58	0.1	0.1	0.2
440	12/13/2016 14:59	0.1	0.1	0.2
441	12/13/2016 15:00	0.1	0.1	0.2
442	12/13/2016 15:01	0.1	0.1	0.2
443	12/13/2016 15:02	0.1	0.1	0.2
444	12/13/2016 15:03	0.1	0.1	0.1
445	12/13/2016 15:04	0.1	0.1	0.1
446	12/13/2016 15:05	0.1	0.1	0.1
447	12/13/2016 15:06	0.1	0.1	0.2
448	12/13/2016 15:07	0.1	0.1	0.2
449	12/13/2016 15:08	0.1	0.1	0.2
450	12/13/2016 15:09	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
451	12/13/2016 15:10	0.1	0.1	0.2
452	12/13/2016 15:11	0.1	0.1	0.1
453	12/13/2016 15:12	0.1	0.1	0.2
454	12/13/2016 15:13	0.1	0.1	0.2
455	12/13/2016 15:14	0.1	0.1	0.2
456	12/13/2016 15:15	0.1	0.1	0.2
457	12/13/2016 15:16	0.1	0.1	0.1
458	12/13/2016 15:17	0.1	0.1	0.2
459	12/13/2016 15:18	0.1	0.1	0.2
460	12/13/2016 15:19	0.1	0.1	0.2
461	12/13/2016 15:20	0.1	0.1	0.2
462	12/13/2016 15:21	0.1	0.1	0.2
463	12/13/2016 15:22	0.1	0.1	0.2
464	12/13/2016 15:23	0.1	0.1	0.2
465	12/13/2016 15:24	0.1	0.1	0.2
466	12/13/2016 15:25	0.1	0.1	0.2
467	12/13/2016 15:26	0.1	0.1	0.2
468	12/13/2016 15:27	0.1	0.1	0.2
469	12/13/2016 15:28	0.1	0.1	0.2
470	12/13/2016 15:29	0.1	0.1	0.2
471	12/13/2016 15:30	0.1	0.1	0.2
472	12/13/2016 15:31	0.1	0.1	0.2
473	12/13/2016 15:32	0.1	0.1	0.2
474	12/13/2016 15:33	0.1	0.1	0.2
475	12/13/2016 15:34	0.1	0.1	0.2
476	12/13/2016 15:35	0.1	0.1	0.2
477	12/13/2016 15:36	0.1	0.1	0.2
478	12/13/2016 15:37	0.1	0.1	0.2
479	12/13/2016 15:38	0.1	0.1	0.2
480	12/13/2016 15:39	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
481	12/13/2016 15:40	0.1	0.1	0.2
482	12/13/2016 15:41	0.1	0.1	0.2
483	12/13/2016 15:42	0.1	0.1	0.2
484	12/13/2016 15:43	0.1	0.1	0.2
485	12/13/2016 15:44	0.1	0.1	0.2
486	12/13/2016 15:45	0.1	0.1	0.2
487	12/13/2016 15:46	0.1	0.1	0.2
488	12/13/2016 15:47	0.1	0.1	0.2
489	12/13/2016 15:48	0.1	0.1	0.2
490	12/13/2016 15:49	0.1	0.1	0.2
491	12/13/2016 15:50	0.1	0.1	0.2
492	12/13/2016 15:51	0.1	0.1	0.2
493	12/13/2016 15:52	0.1	0.1	0.2
494	12/13/2016 15:53	0.1	0.1	0.2
495	12/13/2016 15:54	0.1	0.1	0.2
496	12/13/2016 15:55	0.1	0.1	0.2
497	12/13/2016 15:56	0.1	0.1	0.2
498	12/13/2016 15:57	0.1	0.1	0.2
499	12/13/2016 15:58	0.1	0.1	0.2
500	12/13/2016 15:59	0.1	0.1	0.2
501	12/13/2016 16:00	0.1	0.1	0.2
502	12/13/2016 16:01	0.1	0.1	0.2
503	12/13/2016 16:02	0.1	0.1	0.2
504	12/13/2016 16:03	0.1	0.1	0.2
505	12/13/2016 16:04	0.1	0.1	0.2
506	12/13/2016 16:05	0.1	0.1	0.2
507	12/13/2016 16:06	0.1	0.1	0.2
508	12/13/2016 16:07	0.1	0.1	0.2
509	12/13/2016 16:08	0.1	0.1	0.2
510	12/13/2016 16:09	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 539 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/13/2016 07:04

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
511	12/13/2016 16:10	0.1	0.1	0.2
512	12/13/2016 16:11	0.1	0.1	0.2
513	12/13/2016 16:12	0.1	0.1	0.2
514	12/13/2016 16:13	0.1	0.1	0.2
515	12/13/2016 16:14	0.1	0.1	0.2
516	12/13/2016 16:15	0.1	0.1	0.2
517	12/13/2016 16:16	0.1	0.1	0.2
518	12/13/2016 16:17	0.1	0.1	0.2
519	12/13/2016 16:18	0.1	0.1	0.2
520	12/13/2016 16:19	0.1	0.1	0.2
521	12/13/2016 16:20	0.1	0.1	0.2
522	12/13/2016 16:21	0.1	0.1	0.2
523	12/13/2016 16:22	0.1	0.1	0.2
524	12/13/2016 16:23	0.1	0.1	0.2
525	12/13/2016 16:24	0.1	0.1	0.2
526	12/13/2016 16:25	0.1	0.1	0.2
527	12/13/2016 16:26	0.1	0.1	0.2
528	12/13/2016 16:27	0.1	0.1	0.2
529	12/13/2016 16:28	0.1	0.1	0.2
530	12/13/2016 16:29	0.1	0.1	0.2
531	12/13/2016 16:30	0.1	0.1	0.2
532	12/13/2016 16:31	0.1	0.1	0.2
533	12/13/2016 16:32	0.1	0.1	0.2
534	12/13/2016 16:33	0.1	0.1	0.2
535	12/13/2016 16:34	0.1	0.1	0.2
536	12/13/2016 16:35	0.1	0.1	0.2
537	12/13/2016 16:36	0.1	0.1	0.2
538	12/13/2016 16:37	0.1	0.1	0.2
539	12/13/2016 16:38	0.2	0.2	0.2

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/14/2016 07:32	0.0	0.0	0.0
2	12/14/2016 07:33	0.0	0.0	0.0
3	12/14/2016 07:34	0.0	0.0	0.1
4	12/14/2016 07:35	0.0	0.0	0.1
5	12/14/2016 07:36	0.0	0.0	0.1
6	12/14/2016 07:37	0.0	0.0	0.1
7	12/14/2016 07:38	0.0	0.0	0.1
8	12/14/2016 07:39	0.0	0.0	0.1
9	12/14/2016 07:40	0.0	0.0	0.1
10	12/14/2016 07:41	0.0	0.0	0.1
11	12/14/2016 07:42	0.0	0.0	0.1
12	12/14/2016 07:43	0.0	0.0	0.1
13	12/14/2016 07:44	0.0	0.0	0.1
14	12/14/2016 07:45	0.0	0.0	0.1
15	12/14/2016 07:46	0.1	0.1	0.1
16	12/14/2016 07:47	0.0	0.0	0.1
17	12/14/2016 07:48	0.1	0.1	0.1
18	12/14/2016 07:49	0.1	0.1	0.1
19	12/14/2016 07:50	0.1	0.1	0.1
20	12/14/2016 07:51	0.1	0.1	0.1
21	12/14/2016 07:52	0.1	0.1	0.1
22	12/14/2016 07:53	0.1	0.1	0.1
23	12/14/2016 07:54	0.1	0.1	0.1
24	12/14/2016 07:55	0.1	0.1	0.1
25	12/14/2016 07:56	0.1	0.1	0.1
26	12/14/2016 07:57	0.1	0.1	0.1
27	12/14/2016 07:58	0.1	0.1	0.1
28	12/14/2016 07:59	0.1	0.1	0.2
29	12/14/2016 08:00	0.1	0.1	0.1
30	12/14/2016 08:01	0.1	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/14/2016 08:02	0.1	0.1	0.2
32	12/14/2016 08:03	0.1	0.1	0.2
33	12/14/2016 08:04	0.1	0.1	0.2
34	12/14/2016 08:05	0.1	0.1	0.2
35	12/14/2016 08:06	0.1	0.1	0.2
36	12/14/2016 08:07	0.1	0.1	0.2
37	12/14/2016 08:08	0.1	0.1	0.2
38	12/14/2016 08:09	0.1	0.1	0.2
39	12/14/2016 08:10	0.1	0.1	0.2
40	12/14/2016 08:11	0.1	0.1	0.2
41	12/14/2016 08:12	0.1	0.1	0.2
42	12/14/2016 08:13	0.1	0.1	0.2
43	12/14/2016 08:14	0.1	0.1	0.2
44	12/14/2016 08:15	0.1	0.1	0.2
45	12/14/2016 08:16	0.1	0.1	0.2
46	12/14/2016 08:17	0.1	0.1	0.2
47	12/14/2016 08:18	0.2	0.2	0.2
48	12/14/2016 08:19	0.2	0.2	0.2
49	12/14/2016 08:20	0.2	0.2	0.2
50	12/14/2016 08:21	0.2	0.2	0.3
51	12/14/2016 08:22	0.1	0.1	0.2
52	12/14/2016 08:23	0.2	0.2	0.2
53	12/14/2016 08:24	0.1	0.1	0.2
54	12/14/2016 08:25	0.2	0.2	0.2
55	12/14/2016 08:26	0.2	0.2	0.2
56	12/14/2016 08:27	0.2	0.2	0.2
57	12/14/2016 08:28	0.2	0.2	0.2
58	12/14/2016 08:29	0.2	0.2	0.2
59	12/14/2016 08:30	0.2	0.2	0.2
60	12/14/2016 08:31	0.2	0.2	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/14/2016 08:32	0.2	0.2	0.3
62	12/14/2016 08:33	0.2	0.2	0.2
63	12/14/2016 08:34	0.2	0.2	0.2
64	12/14/2016 08:35	0.2	0.2	0.2
65	12/14/2016 08:36	0.2	0.2	0.2
66	12/14/2016 08:37	0.2	0.2	0.2
67	12/14/2016 08:38	0.2	0.2	0.2
68	12/14/2016 08:39	0.2	0.2	0.2
69	12/14/2016 08:40	0.2	0.2	0.2
70	12/14/2016 08:41	0.2	0.2	0.3
71	12/14/2016 08:42	0.2	0.2	0.3
72	12/14/2016 08:43	0.2	0.2	0.3
73	12/14/2016 08:44	0.2	0.2	0.3
74	12/14/2016 08:45	0.2	0.2	0.3
75	12/14/2016 08:46	0.2	0.2	0.3
76	12/14/2016 08:47	0.2	0.2	0.3
77	12/14/2016 08:48	0.2	0.2	0.3
78	12/14/2016 08:49	0.2	0.2	0.3
79	12/14/2016 08:50	0.2	0.2	0.3
80	12/14/2016 08:51	0.2	0.2	0.3
81	12/14/2016 08:52	0.2	0.2	0.3
82	12/14/2016 08:53	0.2	0.2	0.3
83	12/14/2016 08:54	0.2	0.2	0.3
84	12/14/2016 08:55	0.2	0.2	0.3
85	12/14/2016 08:56	0.2	0.2	0.3
86	12/14/2016 08:57	0.2	0.2	0.3
87	12/14/2016 08:58	0.2	0.2	0.3
88	12/14/2016 08:59	0.2	0.2	0.3
89	12/14/2016 09:00	0.2	0.2	0.3
90	12/14/2016 09:01	0.2	0.2	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/14/2016 09:02	0.2	0.2	0.3
92	12/14/2016 09:03	0.2	0.2	0.3
93	12/14/2016 09:04	0.2	0.2	0.3
94	12/14/2016 09:05	0.2	0.2	0.3
95	12/14/2016 09:06	0.2	0.2	0.3
96	12/14/2016 09:07	0.2	0.2	0.3
97	12/14/2016 09:08	0.2	0.2	0.3
98	12/14/2016 09:09	0.2	0.2	0.3
99	12/14/2016 09:10	0.2	0.2	0.3
100	12/14/2016 09:11	0.2	0.2	0.3
101	12/14/2016 09:12	0.2	0.2	0.3
102	12/14/2016 09:13	0.2	0.2	0.3
103	12/14/2016 09:14	0.2	0.2	0.3
104	12/14/2016 09:15	0.2	0.2	0.3
105	12/14/2016 09:16	0.2	0.2	0.3
106	12/14/2016 09:17	0.2	0.2	0.3
107	12/14/2016 09:18	0.2	0.2	0.3
108	12/14/2016 09:19	0.3	0.3	0.3
109	12/14/2016 09:20	0.3	0.3	0.3
110	12/14/2016 09:21	0.3	0.3	0.3
111	12/14/2016 09:22	0.2	0.2	0.3
112	12/14/2016 09:23	0.3	0.3	0.3
113	12/14/2016 09:24	0.2	0.2	0.3
114	12/14/2016 09:25	0.2	0.2	0.3
115	12/14/2016 09:26	0.2	0.2	0.3
116	12/14/2016 09:27	0.2	0.2	0.3
117	12/14/2016 09:28	0.2	0.2	0.4
118	12/14/2016 09:29	0.2	0.2	0.3
119	12/14/2016 09:30	0.2	0.2	0.3
120	12/14/2016 09:31	0.3	0.3	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/14/2016 09:32	0.2	0.2	0.3
122	12/14/2016 09:33	0.2	0.2	0.3
123	12/14/2016 09:34	0.2	0.2	0.3
124	12/14/2016 09:35	0.2	0.2	0.3
125	12/14/2016 09:36	0.2	0.2	0.3
126	12/14/2016 09:37	0.2	0.2	0.3
127	12/14/2016 09:38	0.3	0.3	0.3
128	12/14/2016 09:39	0.3	0.3	0.4
129	12/14/2016 09:40	0.3	0.3	0.3
130	12/14/2016 09:41	0.2	0.2	0.3
131	12/14/2016 09:42	0.2	0.2	0.3
132	12/14/2016 09:43	0.3	0.3	0.3
133	12/14/2016 09:44	0.2	0.2	0.3
134	12/14/2016 09:45	0.3	0.3	0.3
135	12/14/2016 09:46	0.3	0.3	0.4
136	12/14/2016 09:47	0.2	0.2	0.3
137	12/14/2016 09:48	0.3	0.3	0.3
138	12/14/2016 09:49	0.3	0.3	0.3
139	12/14/2016 09:50	0.3	0.3	0.4
140	12/14/2016 09:51	0.3	0.3	0.4
141	12/14/2016 09:52	0.3	0.3	0.4
142	12/14/2016 09:53	0.3	0.3	0.4
143	12/14/2016 09:54	0.3	0.3	0.4
144	12/14/2016 09:55	0.3	0.3	0.4
145	12/14/2016 09:56	0.3	0.3	0.4
146	12/14/2016 09:57	0.3	0.3	0.4
147	12/14/2016 09:58	0.3	0.3	0.4
148	12/14/2016 09:59	0.3	0.3	0.4
149	12/14/2016 10:00	0.3	0.3	0.4
150	12/14/2016 10:01	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/14/2016 10:02	0.3	0.3	0.4
152	12/14/2016 10:03	0.3	0.3	0.5
153	12/14/2016 10:04	0.3	0.3	0.4
154	12/14/2016 10:05	0.3	0.3	0.4
155	12/14/2016 10:06	0.3	0.3	0.4
156	12/14/2016 10:07	0.3	0.3	0.3
157	12/14/2016 10:08	0.3	0.3	0.4
158	12/14/2016 10:09	0.3	0.3	0.4
159	12/14/2016 10:10	0.3	0.3	0.4
160	12/14/2016 10:11	0.3	0.3	0.4
161	12/14/2016 10:12	0.3	0.3	0.4
162	12/14/2016 10:13	0.3	0.3	0.4
163	12/14/2016 10:14	0.3	0.3	0.3
164	12/14/2016 10:15	0.3	0.3	0.4
165	12/14/2016 10:16	0.3	0.3	0.4
166	12/14/2016 10:17	0.3	0.3	0.4
167	12/14/2016 10:18	0.3	0.3	0.4
168	12/14/2016 10:19	0.3	0.3	0.3
169	12/14/2016 10:20	0.3	0.3	0.3
170	12/14/2016 10:21	0.3	0.3	0.4
171	12/14/2016 10:22	0.3	0.3	0.4
172	12/14/2016 10:23	0.3	0.3	0.4
173	12/14/2016 10:24	0.3	0.3	0.4
174	12/14/2016 10:25	0.3	0.3	0.4
175	12/14/2016 10:26	0.3	0.3	0.4
176	12/14/2016 10:27	0.3	0.3	0.4
177	12/14/2016 10:28	0.3	0.3	0.4
178	12/14/2016 10:29	0.3	0.3	0.4
179	12/14/2016 10:30	0.3	0.3	0.4
180	12/14/2016 10:31	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
181	12/14/2016 10:32	0.3	0.3	0.4
182	12/14/2016 10:33	0.3	0.3	0.4
183	12/14/2016 10:34	0.3	0.3	0.4
184	12/14/2016 10:35	0.3	0.3	0.4
185	12/14/2016 10:36	0.3	0.3	0.3
186	12/14/2016 10:37	0.3	0.3	0.4
187	12/14/2016 10:38	0.3	0.3	0.4
188	12/14/2016 10:39	0.3	0.3	0.4
189	12/14/2016 10:40	0.3	0.3	0.4
190	12/14/2016 10:41	0.3	0.3	0.4
191	12/14/2016 10:42	0.3	0.3	0.4
192	12/14/2016 10:43	0.3	0.3	0.4
193	12/14/2016 10:44	0.3	0.3	0.4
194	12/14/2016 10:45	0.3	0.3	0.4
195	12/14/2016 10:46	0.3	0.3	0.4
196	12/14/2016 10:47	0.3	0.3	0.4
197	12/14/2016 10:48	0.3	0.3	0.4
198	12/14/2016 10:49	0.3	0.3	0.4
199	12/14/2016 10:50	0.3	0.3	0.4
200	12/14/2016 10:51	0.3	0.3	0.4
201	12/14/2016 10:52	0.3	0.3	0.4
202	12/14/2016 10:53	0.3	0.3	0.4
203	12/14/2016 10:54	0.3	0.3	0.4
204	12/14/2016 10:55	0.3	0.3	0.4
205	12/14/2016 10:56	0.3	0.3	0.4
206	12/14/2016 10:57	0.3	0.3	0.4
207	12/14/2016 10:58	0.3	0.3	0.4
208	12/14/2016 10:59	0.3	0.3	0.4
209	12/14/2016 11:00	0.3	0.3	0.4
210	12/14/2016 11:01	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
211	12/14/2016 11:02	0.3	0.3	0.4
212	12/14/2016 11:03	0.3	0.3	0.4
213	12/14/2016 11:04	0.3	0.3	0.4
214	12/14/2016 11:05	0.3	0.3	0.4
215	12/14/2016 11:06	0.3	0.3	0.4
216	12/14/2016 11:07	0.3	0.3	0.4
217	12/14/2016 11:08	0.3	0.3	0.4
218	12/14/2016 11:09	0.3	0.3	0.4
219	12/14/2016 11:10	0.3	0.3	0.4
220	12/14/2016 11:11	0.3	0.3	0.4
221	12/14/2016 11:12	0.3	0.3	0.4
222	12/14/2016 11:13	0.3	0.3	0.4
223	12/14/2016 11:14	0.3	0.3	0.4
224	12/14/2016 11:15	0.3	0.3	0.4
225	12/14/2016 11:16	0.3	0.3	0.4
226	12/14/2016 11:17	0.3	0.3	0.4
227	12/14/2016 11:18	0.3	0.3	0.4
228	12/14/2016 11:19	0.3	0.3	0.4
229	12/14/2016 11:20	0.3	0.3	0.4
230	12/14/2016 11:21	0.3	0.3	0.4
231	12/14/2016 11:22	0.3	0.3	0.4
232	12/14/2016 11:23	0.3	0.3	0.4
233	12/14/2016 11:24	0.3	0.3	0.4
234	12/14/2016 11:25	0.3	0.3	0.4
235	12/14/2016 11:26	0.3	0.3	0.4
236	12/14/2016 11:27	0.3	0.3	0.4
237	12/14/2016 11:28	0.3	0.3	0.4
238	12/14/2016 11:29	0.3	0.3	0.5
239	12/14/2016 11:30	0.3	0.3	0.4
240	12/14/2016 11:31	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
241	12/14/2016 11:32	0.3	0.3	0.4
242	12/14/2016 11:33	0.3	0.3	0.4
243	12/14/2016 11:34	0.3	0.3	0.4
244	12/14/2016 11:35	0.3	0.3	0.4
245	12/14/2016 11:36	0.3	0.3	0.4
246	12/14/2016 11:37	0.3	0.3	0.4
247	12/14/2016 11:38	0.3	0.3	0.4
248	12/14/2016 11:39	0.3	0.3	0.4
249	12/14/2016 11:40	0.3	0.3	0.4
250	12/14/2016 11:41	0.3	0.3	0.4
251	12/14/2016 11:42	0.3	0.3	0.4
252	12/14/2016 11:43	0.3	0.3	0.4
253	12/14/2016 11:44	0.3	0.3	0.4
254	12/14/2016 11:45	0.3	0.3	0.4
255	12/14/2016 11:46	0.3	0.3	0.4
256	12/14/2016 11:47	0.3	0.3	0.4
257	12/14/2016 11:48	0.3	0.3	0.4
258	12/14/2016 11:49	0.3	0.3	0.4
259	12/14/2016 11:50	0.3	0.3	0.4
260	12/14/2016 11:51	0.3	0.3	0.4
261	12/14/2016 11:52	0.3	0.3	0.4
262	12/14/2016 11:53	0.3	0.3	0.4
263	12/14/2016 11:54	0.3	0.3	0.4
264	12/14/2016 11:55	0.3	0.4	0.5
265	12/14/2016 11:56	0.3	0.3	0.4
266	12/14/2016 11:57	0.3	0.3	0.4
267	12/14/2016 11:58	0.3	0.3	0.4
268	12/14/2016 11:59	0.3	0.3	0.5
269	12/14/2016 12:00	0.4	0.4	0.5
270	12/14/2016 12:01	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
271	12/14/2016 12:02	0.3	0.3	0.4
272	12/14/2016 12:03	0.4	0.4	0.4
273	12/14/2016 12:04	0.3	0.3	0.4
274	12/14/2016 12:05	0.3	0.3	0.4
275	12/14/2016 12:06	0.3	0.3	0.4
276	12/14/2016 12:07	0.3	0.3	0.4
277	12/14/2016 12:08	0.3	0.3	0.4
278	12/14/2016 12:09	0.3	0.3	0.4
279	12/14/2016 12:10	0.3	0.3	0.4
280	12/14/2016 12:11	0.3	0.3	0.4
281	12/14/2016 12:12	0.3	0.3	0.4
282	12/14/2016 12:13	0.3	0.3	0.4
283	12/14/2016 12:14	0.3	0.3	0.4
284	12/14/2016 12:15	0.3	0.3	0.4
285	12/14/2016 12:16	0.3	0.3	0.4
286	12/14/2016 12:17	0.3	0.3	0.4
287	12/14/2016 12:18	0.4	0.4	0.4
288	12/14/2016 12:19	0.3	0.3	0.4
289	12/14/2016 12:20	0.4	0.4	0.4
290	12/14/2016 12:21	0.3	0.3	0.4
291	12/14/2016 12:22	0.3	0.3	0.4
292	12/14/2016 12:23	0.3	0.3	0.4
293	12/14/2016 12:24	0.3	0.3	0.4
294	12/14/2016 12:25	0.3	0.3	0.4
295	12/14/2016 12:26	0.3	0.3	0.4
296	12/14/2016 12:27	0.3	0.3	0.4
297	12/14/2016 12:28	0.3	0.3	0.4
298	12/14/2016 12:29	0.3	0.3	0.4
299	12/14/2016 12:30	0.3	0.3	0.4
300	12/14/2016 12:31	0.3	0.3	0.5

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
301	12/14/2016 12:32	0.3	0.3	0.4
302	12/14/2016 12:33	0.3	0.3	0.4
303	12/14/2016 12:34	0.3	0.3	0.4
304	12/14/2016 12:35	0.3	0.3	0.4
305	12/14/2016 12:36	0.3	0.3	0.4
306	12/14/2016 12:37	0.3	0.3	0.4
307	12/14/2016 12:38	0.3	0.3	0.4
308	12/14/2016 12:39	0.3	0.3	0.4
309	12/14/2016 12:40	0.3	0.3	0.4
310	12/14/2016 12:41	0.3	0.3	0.4
311	12/14/2016 12:42	0.3	0.3	0.4
312	12/14/2016 12:43	0.3	0.3	0.4
313	12/14/2016 12:44	0.3	0.3	0.4
314	12/14/2016 12:45	0.3	0.3	0.4
315	12/14/2016 12:46	0.3	0.3	0.4
316	12/14/2016 12:47	0.3	0.3	0.4
317	12/14/2016 12:48	0.3	0.3	0.4
318	12/14/2016 12:49	0.3	0.3	0.4
319	12/14/2016 12:50	0.3	0.3	0.4
320	12/14/2016 12:51	0.3	0.3	0.4
321	12/14/2016 12:52	0.3	0.3	0.4
322	12/14/2016 12:53	0.3	0.3	0.4
323	12/14/2016 12:54	0.3	0.3	0.4
324	12/14/2016 12:55	0.3	0.3	0.4
325	12/14/2016 12:56	0.3	0.3	0.4
326	12/14/2016 12:57	0.3	0.3	0.4
327	12/14/2016 12:58	0.3	0.3	0.4
328	12/14/2016 12:59	0.3	0.3	0.4
329	12/14/2016 13:00	0.3	0.3	0.4
330	12/14/2016 13:01	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
331	12/14/2016 13:02	0.3	0.3	0.4
332	12/14/2016 13:03	0.3	0.3	0.4
333	12/14/2016 13:04	0.3	0.3	0.4
334	12/14/2016 13:05	0.3	0.3	0.4
335	12/14/2016 13:06	0.3	0.3	0.4
336	12/14/2016 13:07	0.3	0.3	0.4
337	12/14/2016 13:08	0.3	0.3	0.4
338	12/14/2016 13:09	0.3	0.3	0.4
339	12/14/2016 13:10	0.3	0.3	0.4
340	12/14/2016 13:11	0.3	0.3	0.4
341	12/14/2016 13:12	0.3	0.3	0.4
342	12/14/2016 13:13	0.3	0.3	0.4
343	12/14/2016 13:14	0.3	0.3	0.4
344	12/14/2016 13:15	0.3	0.3	0.4
345	12/14/2016 13:16	0.3	0.3	0.4
346	12/14/2016 13:17	0.3	0.3	0.4
347	12/14/2016 13:18	0.3	0.3	0.4
348	12/14/2016 13:19	0.3	0.3	0.4
349	12/14/2016 13:20	0.3	0.3	0.4
350	12/14/2016 13:21	0.3	0.3	0.4
351	12/14/2016 13:22	0.3	0.3	0.4
352	12/14/2016 13:23	0.3	0.3	0.4
353	12/14/2016 13:24	0.3	0.3	0.4
354	12/14/2016 13:25	0.3	0.3	0.4
355	12/14/2016 13:26	0.3	0.3	0.4
356	12/14/2016 13:27	0.3	0.3	0.4
357	12/14/2016 13:28	0.3	0.3	0.4
358	12/14/2016 13:29	0.3	0.3	0.4
359	12/14/2016 13:30	0.3	0.3	0.4
360	12/14/2016 13:31	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
361	12/14/2016 13:32	0.3	0.3	0.4
362	12/14/2016 13:33	0.3	0.3	0.4
363	12/14/2016 13:34	0.3	0.3	0.4
364	12/14/2016 13:35	0.3	0.3	0.4
365	12/14/2016 13:36	0.3	0.3	0.4
366	12/14/2016 13:37	0.3	0.3	0.4
367	12/14/2016 13:38	0.3	0.4	0.5
368	12/14/2016 13:39	0.4	0.4	0.6
369	12/14/2016 13:40	0.4	0.4	0.5
370	12/14/2016 13:41	0.3	0.3	0.4
371	12/14/2016 13:42	0.3	0.3	0.4
372	12/14/2016 13:43	0.3	0.3	0.4
373	12/14/2016 13:44	0.3	0.3	0.4
374	12/14/2016 13:45	0.3	0.3	0.4
375	12/14/2016 13:46	0.3	0.3	0.4
376	12/14/2016 13:47	0.3	0.3	0.4
377	12/14/2016 13:48	0.3	0.3	0.4
378	12/14/2016 13:49	0.3	0.3	0.4
379	12/14/2016 13:50	0.3	0.3	0.4
380	12/14/2016 13:51	0.3	0.3	0.4
381	12/14/2016 13:52	0.3	0.3	0.4
382	12/14/2016 13:53	0.3	0.3	0.4
383	12/14/2016 13:54	0.3	0.3	0.4
384	12/14/2016 13:55	0.3	0.3	0.4
385	12/14/2016 13:56	0.3	0.3	0.4
386	12/14/2016 13:57	0.3	0.3	0.4
387	12/14/2016 13:58	0.3	0.3	0.4
388	12/14/2016 13:59	0.3	0.3	0.4
389	12/14/2016 14:00	0.3	0.3	0.4
390	12/14/2016 14:01	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
391	12/14/2016 14:02	0.3	0.3	0.4
392	12/14/2016 14:03	0.3	0.3	0.4
393	12/14/2016 14:04	0.3	0.3	0.4
394	12/14/2016 14:05	0.3	0.3	0.4
395	12/14/2016 14:06	0.3	0.3	0.4
396	12/14/2016 14:07	0.3	0.3	0.4
397	12/14/2016 14:08	0.3	0.3	0.4
398	12/14/2016 14:09	0.3	0.3	0.4
399	12/14/2016 14:10	0.3	0.3	0.4
400	12/14/2016 14:11	0.3	0.3	0.4
401	12/14/2016 14:12	0.3	0.3	0.4
402	12/14/2016 14:13	0.3	0.3	0.4
403	12/14/2016 14:14	0.3	0.3	0.4
404	12/14/2016 14:15	0.3	0.3	0.4
405	12/14/2016 14:16	0.3	0.3	0.4
406	12/14/2016 14:17	0.3	0.3	0.4
407	12/14/2016 14:18	0.3	0.3	0.4
408	12/14/2016 14:19	0.3	0.3	0.4
409	12/14/2016 14:20	0.3	0.3	0.4
410	12/14/2016 14:21	0.3	0.3	0.4
411	12/14/2016 14:22	0.3	0.3	0.4
412	12/14/2016 14:23	0.3	0.3	0.4
413	12/14/2016 14:24	0.3	0.3	0.4
414	12/14/2016 14:25	0.3	0.3	0.4
415	12/14/2016 14:26	0.3	0.3	0.4
416	12/14/2016 14:27	0.3	0.3	0.4
417	12/14/2016 14:28	0.3	0.3	0.4
418	12/14/2016 14:29	0.3	0.3	0.4
419	12/14/2016 14:30	0.3	0.3	0.4
420	12/14/2016 14:31	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
421	12/14/2016 14:32	0.3	0.3	0.4
422	12/14/2016 14:33	0.3	0.3	0.4
423	12/14/2016 14:34	0.3	0.3	0.4
424	12/14/2016 14:35	0.3	0.3	0.4
425	12/14/2016 14:36	0.3	0.3	0.4
426	12/14/2016 14:37	0.3	0.3	0.4
427	12/14/2016 14:38	0.3	0.3	0.4
428	12/14/2016 14:39	0.3	0.3	0.4
429	12/14/2016 14:40	0.3	0.3	0.4
430	12/14/2016 14:41	0.3	0.3	0.4
431	12/14/2016 14:42	0.3	0.3	0.4
432	12/14/2016 14:43	0.3	0.3	0.4
433	12/14/2016 14:44	0.3	0.3	0.4
434	12/14/2016 14:45	0.3	0.3	0.4
435	12/14/2016 14:46	0.3	0.3	0.4
436	12/14/2016 14:47	0.3	0.3	0.4
437	12/14/2016 14:48	0.3	0.3	0.4
438	12/14/2016 14:49	0.3	0.3	0.4
439	12/14/2016 14:50	0.3	0.3	0.4
440	12/14/2016 14:51	0.3	0.3	0.4
441	12/14/2016 14:52	0.3	0.3	0.4
442	12/14/2016 14:53	0.3	0.3	0.4
443	12/14/2016 14:54	0.3	0.3	0.4
444	12/14/2016 14:55	0.3	0.3	0.4
445	12/14/2016 14:56	0.3	0.3	0.4
446	12/14/2016 14:57	0.3	0.3	0.4
447	12/14/2016 14:58	0.3	0.3	0.4
448	12/14/2016 14:59	0.3	0.3	0.4
449	12/14/2016 15:00	0.3	0.3	0.4
450	12/14/2016 15:01	0.3	0.3	0.4

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
451	12/14/2016 15:02	0.3	0.3	0.4
452	12/14/2016 15:03	0.3	0.3	0.4
453	12/14/2016 15:04	0.3	0.3	0.4
454	12/14/2016 15:05	0.3	0.3	0.4
455	12/14/2016 15:06	0.3	0.3	0.4
456	12/14/2016 15:07	0.3	0.3	0.4
457	12/14/2016 15:08	0.3	0.3	0.4
458	12/14/2016 15:09	0.3	0.3	0.4
459	12/14/2016 15:10	0.3	0.3	0.4
460	12/14/2016 15:11	0.3	0.3	0.4
461	12/14/2016 15:12	0.3	0.3	0.4
462	12/14/2016 15:13	0.3	0.3	0.4
463	12/14/2016 15:14	0.3	0.3	0.4
464	12/14/2016 15:15	0.3	0.3	0.4
465	12/14/2016 15:16	0.3	0.3	0.4
466	12/14/2016 15:17	0.3	0.3	0.4
467	12/14/2016 15:18	0.3	0.3	0.4
468	12/14/2016 15:19	0.3	0.3	0.4
469	12/14/2016 15:20	0.3	0.3	0.4
470	12/14/2016 15:21	0.3	0.3	0.4
471	12/14/2016 15:22	0.3	0.3	0.4
472	12/14/2016 15:23	0.3	0.3	0.4
473	12/14/2016 15:24	0.3	0.3	0.4
474	12/14/2016 15:25	0.3	0.3	0.4
475	12/14/2016 15:26	0.3	0.3	0.4
476	12/14/2016 15:27	0.3	0.3	0.4
477	12/14/2016 15:28	0.3	0.3	0.4
478	12/14/2016 15:29	0.3	0.3	0.4
479	12/14/2016 15:30	0.3	0.3	0.4
480	12/14/2016 15:31	0.3	0.3	0.4

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
481	12/14/2016 15:32	0.3	0.3	0.4
482	12/14/2016 15:33	0.3	0.3	0.4
483	12/14/2016 15:34	0.3	0.3	0.4
484	12/14/2016 15:35	0.3	0.3	0.4
485	12/14/2016 15:36	0.3	0.3	0.4
486	12/14/2016 15:37	0.3	0.3	0.4
487	12/14/2016 15:38	0.3	0.3	0.4
488	12/14/2016 15:39	0.3	0.3	0.4
489	12/14/2016 15:40	0.3	0.3	0.4
490	12/14/2016 15:41	0.3	0.3	0.4
491	12/14/2016 15:42	0.3	0.3	0.4
492	12/14/2016 15:43	0.3	0.3	0.4
493	12/14/2016 15:44	0.3	0.3	0.4
494	12/14/2016 15:45	0.3	0.3	0.4
495	12/14/2016 15:46	0.3	0.3	0.4
496	12/14/2016 15:47	0.3	0.3	0.4
497	12/14/2016 15:48	0.3	0.3	0.4
498	12/14/2016 15:49	0.3	0.3	0.4
499	12/14/2016 15:50	0.3	0.3	0.4
500	12/14/2016 15:51	0.3	0.3	0.4
501	12/14/2016 15:52	0.3	0.3	0.4
502	12/14/2016 15:53	0.3	0.3	0.4
503	12/14/2016 15:54	0.3	0.3	0.4
504	12/14/2016 15:55	0.3	0.3	0.4
505	12/14/2016 15:56	0.3	0.3	0.4
506	12/14/2016 15:57	0.3	0.3	0.4
507	12/14/2016 15:58	0.3	0.3	0.4
508	12/14/2016 15:59	0.3	0.3	0.4
509	12/14/2016 16:00	0.3	0.3	0.4
510	12/14/2016 16:01	0.3	0.3	0.4

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 525 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/14/2016 07:17

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
511	12/14/2016 16:02	0.3	0.3	0.4
512	12/14/2016 16:03	0.3	0.3	0.4
513	12/14/2016 16:04	0.3	0.3	0.4
514	12/14/2016 16:05	0.3	0.3	0.4
515	12/14/2016 16:06	0.3	0.3	0.4
516	12/14/2016 16:07	0.3	0.3	0.4
517	12/14/2016 16:08	0.3	0.3	0.4
518	12/14/2016 16:09	0.3	0.3	0.4
519	12/14/2016 16:10	0.4	0.4	0.4
520	12/14/2016 16:11	0.4	0.4	0.4
521	12/14/2016 16:12	0.4	0.4	0.4
522	12/14/2016 16:13	0.3	0.3	0.4
523	12/14/2016 16:14	0.3	0.3	0.4
524	12/14/2016 16:15	0.3	0.3	0.4
525	12/14/2016 16:16	0.4	0.4	0.4

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/15/2016 07:33	0.0	0.0	0.0
2	12/15/2016 07:34	0.0	0.0	0.0
3	12/15/2016 07:35	0.0	0.0	0.0
4	12/15/2016 07:36	0.0	0.0	0.0
5	12/15/2016 07:37	0.0	0.0	0.0
6	12/15/2016 07:38	0.0	0.0	0.0
7	12/15/2016 07:39	0.0	0.0	0.0
8	12/15/2016 07:40	0.0	0.0	0.0
9	12/15/2016 07:41	0.0	0.0	0.0
10	12/15/2016 07:42	0.0	0.0	0.0
11	12/15/2016 07:43	0.0	0.0	0.0
12	12/15/2016 07:44	0.0	0.0	0.0
13	12/15/2016 07:45	0.0	0.0	0.0
14	12/15/2016 07:46	0.0	0.0	0.0
15	12/15/2016 07:47	0.0	0.0	0.0
16	12/15/2016 07:48	0.0	0.0	0.0
17	12/15/2016 07:49	0.0	0.0	0.0
18	12/15/2016 07:50	0.0	0.0	0.0
19	12/15/2016 07:51	0.0	0.0	0.0
20	12/15/2016 07:52	0.0	0.0	0.0
21	12/15/2016 07:53	0.0	0.0	0.0
22	12/15/2016 07:54	0.0	0.0	0.0
23	12/15/2016 07:55	0.0	0.0	0.0
24	12/15/2016 07:56	0.0	0.0	0.0
25	12/15/2016 07:57	0.0	0.0	0.0
26	12/15/2016 07:58	0.0	0.0	0.0
27	12/15/2016 07:59	0.0	0.0	0.0
28	12/15/2016 08:00	0.0	0.0	0.0
29	12/15/2016 08:01	0.0	0.0	0.0
30	12/15/2016 08:02	0.0	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/15/2016 08:03	0.0	0.0	0.0
32	12/15/2016 08:04	0.0	0.0	0.0
33	12/15/2016 08:05	0.0	0.0	0.0
34	12/15/2016 08:06	0.0	0.0	0.0
35	12/15/2016 08:07	0.0	0.0	0.0
36	12/15/2016 08:08	0.0	0.0	0.0
37	12/15/2016 08:09	0.0	0.0	0.0
38	12/15/2016 08:10	0.0	0.0	0.0
39	12/15/2016 08:11	0.0	0.0	0.0
40	12/15/2016 08:12	0.0	0.0	0.0
41	12/15/2016 08:13	0.0	0.0	0.0
42	12/15/2016 08:14	0.0	0.0	0.1
43	12/15/2016 08:15	0.0	0.0	0.0
44	12/15/2016 08:16	0.0	0.0	0.0
45	12/15/2016 08:17	0.0	0.0	0.0
46	12/15/2016 08:18	0.0	0.0	0.0
47	12/15/2016 08:19	0.0	0.0	0.0
48	12/15/2016 08:20	0.0	0.0	0.0
49	12/15/2016 08:21	0.0	0.0	0.0
50	12/15/2016 08:22	0.0	0.0	0.0
51	12/15/2016 08:23	0.0	0.0	0.0
52	12/15/2016 08:24	0.0	0.0	0.0
53	12/15/2016 08:25	0.0	0.0	0.0
54	12/15/2016 08:26	0.0	0.0	0.0
55	12/15/2016 08:27	0.0	0.0	0.0
56	12/15/2016 08:28	0.0	0.0	0.0
57	12/15/2016 08:29	0.0	0.0	0.0
58	12/15/2016 08:30	0.0	0.0	0.0
59	12/15/2016 08:31	0.0	0.0	0.0
60	12/15/2016 08:32	0.0	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/15/2016 08:33	0.0	0.0	0.0
62	12/15/2016 08:34	0.0	0.0	0.0
63	12/15/2016 08:35	0.0	0.0	0.0
64	12/15/2016 08:36	0.0	0.0	0.0
65	12/15/2016 08:37	0.0	0.0	0.1
66	12/15/2016 08:38	0.0	0.0	0.0
67	12/15/2016 08:39	0.0	0.0	0.0
68	12/15/2016 08:40	0.0	0.0	0.1
69	12/15/2016 08:41	0.0	0.0	0.1
70	12/15/2016 08:42	0.0	0.0	0.1
71	12/15/2016 08:43	0.0	0.0	0.1
72	12/15/2016 08:44	0.0	0.0	0.1
73	12/15/2016 08:45	0.0	0.0	0.1
74	12/15/2016 08:46	0.0	0.0	0.1
75	12/15/2016 08:47	0.0	0.0	0.1
76	12/15/2016 08:48	0.0	0.0	0.1
77	12/15/2016 08:49	0.0	0.0	0.1
78	12/15/2016 08:50	0.0	0.0	0.0
79	12/15/2016 08:51	0.0	0.0	0.1
80	12/15/2016 08:52	0.0	0.0	0.1
81	12/15/2016 08:53	0.0	0.0	0.1
82	12/15/2016 08:54	0.0	0.0	0.1
83	12/15/2016 08:55	0.0	0.0	0.1
84	12/15/2016 08:56	0.0	0.0	0.1
85	12/15/2016 08:57	0.0	0.0	0.1
86	12/15/2016 08:58	0.0	0.0	0.1
87	12/15/2016 08:59	0.0	0.0	0.1
88	12/15/2016 09:00	0.0	0.0	0.1
89	12/15/2016 09:01	0.0	0.0	0.1
90	12/15/2016 09:02	0.0	0.0	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/15/2016 09:03	0.0	0.0	0.1
92	12/15/2016 09:04	0.0	0.0	0.1
93	12/15/2016 09:05	0.0	0.0	0.1
94	12/15/2016 09:06	0.0	0.0	0.1
95	12/15/2016 09:07	0.0	0.0	0.1
96	12/15/2016 09:08	0.0	0.0	0.1
97	12/15/2016 09:09	0.0	0.0	0.1
98	12/15/2016 09:10	0.0	0.0	0.1
99	12/15/2016 09:11	0.0	0.0	0.1
100	12/15/2016 09:12	0.0	0.0	0.1
101	12/15/2016 09:13	0.0	0.0	0.1
102	12/15/2016 09:14	0.0	0.0	0.1
103	12/15/2016 09:15	0.0	0.0	0.1
104	12/15/2016 09:16	0.0	0.0	0.1
105	12/15/2016 09:17	0.0	0.0	0.1
106	12/15/2016 09:18	0.0	0.0	0.1
107	12/15/2016 09:19	0.1	0.1	0.1
108	12/15/2016 09:20	0.0	0.0	0.1
109	12/15/2016 09:21	0.1	0.1	0.1
110	12/15/2016 09:22	0.1	0.1	0.1
111	12/15/2016 09:23	0.1	0.1	0.1
112	12/15/2016 09:24	0.1	0.1	0.1
113	12/15/2016 09:25	0.1	0.1	0.1
114	12/15/2016 09:26	0.1	0.1	0.1
115	12/15/2016 09:27	0.1	0.1	0.1
116	12/15/2016 09:28	0.1	0.1	0.1
117	12/15/2016 09:29	0.1	0.1	0.1
118	12/15/2016 09:30	0.1	0.1	0.1
119	12/15/2016 09:31	0.1	0.1	0.1
120	12/15/2016 09:32	0.1	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/15/2016 09:33	0.1	0.1	0.1
122	12/15/2016 09:34	0.1	0.1	0.1
123	12/15/2016 09:35	0.1	0.1	0.1
124	12/15/2016 09:36	0.1	0.1	0.1
125	12/15/2016 09:37	0.1	0.1	0.1
126	12/15/2016 09:38	0.1	0.1	0.1
127	12/15/2016 09:39	0.1	0.1	0.1
128	12/15/2016 09:40	0.1	0.1	0.1
129	12/15/2016 09:41	0.1	0.1	0.1
130	12/15/2016 09:42	0.1	0.1	0.1
131	12/15/2016 09:43	0.1	0.1	0.2
132	12/15/2016 09:44	0.1	0.1	0.1
133	12/15/2016 09:45	0.1	0.1	0.1
134	12/15/2016 09:46	0.1	0.1	0.1
135	12/15/2016 09:47	0.1	0.1	0.1
136	12/15/2016 09:48	0.1	0.1	0.1
137	12/15/2016 09:49	0.1	0.1	0.1
138	12/15/2016 09:50	0.1	0.1	0.1
139	12/15/2016 09:51	0.1	0.1	0.1
140	12/15/2016 09:52	0.1	0.1	0.1
141	12/15/2016 09:53	0.1	0.1	0.1
142	12/15/2016 09:54	0.1	0.1	0.1
143	12/15/2016 09:55	0.1	0.1	0.1
144	12/15/2016 09:56	0.1	0.1	0.2
145	12/15/2016 09:57	0.1	0.1	0.1
146	12/15/2016 09:58	0.1	0.1	0.1
147	12/15/2016 09:59	0.1	0.1	0.2
148	12/15/2016 10:00	0.1	0.1	0.1
149	12/15/2016 10:01	0.1	0.1	0.1
150	12/15/2016 10:02	0.1	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/15/2016 10:03	0.1	0.1	0.2
152	12/15/2016 10:04	0.1	0.1	0.2
153	12/15/2016 10:05	0.1	0.1	0.2
154	12/15/2016 10:06	0.1	0.1	0.2
155	12/15/2016 10:07	0.1	0.1	0.2
156	12/15/2016 10:08	0.1	0.1	0.2
157	12/15/2016 10:09	0.1	0.1	0.2
158	12/15/2016 10:10	0.1	0.1	0.2
159	12/15/2016 10:11	0.1	0.1	0.2
160	12/15/2016 10:12	0.1	0.1	0.2
161	12/15/2016 10:13	0.1	0.1	0.2
162	12/15/2016 10:14	0.2	0.2	0.2
163	12/15/2016 10:15	0.2	0.2	0.2
164	12/15/2016 10:16	0.2	0.2	0.2
165	12/15/2016 10:17	0.2	0.2	0.2
166	12/15/2016 10:18	0.2	0.2	0.2
167	12/15/2016 10:19	0.2	0.2	0.2
168	12/15/2016 10:20	0.2	0.2	0.2
169	12/15/2016 10:21	0.2	0.2	0.2
170	12/15/2016 10:22	0.2	0.2	0.2
171	12/15/2016 10:23	0.2	0.2	0.2
172	12/15/2016 10:24	0.2	0.2	0.2
173	12/15/2016 10:25	0.2	0.2	0.2
174	12/15/2016 10:26	0.2	0.2	0.2
175	12/15/2016 10:27	0.2	0.2	0.2
176	12/15/2016 10:28	0.2	0.2	0.2
177	12/15/2016 10:29	0.2	0.2	0.2
178	12/15/2016 10:30	0.2	0.2	0.2
179	12/15/2016 10:31	0.2	0.2	0.2
180	12/15/2016 10:32	0.2	0.2	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
181	12/15/2016 10:33	0.2	0.2	0.2
182	12/15/2016 10:34	0.2	0.2	0.2
183	12/15/2016 10:35	0.2	0.2	0.2
184	12/15/2016 10:36	0.2	0.2	0.2
185	12/15/2016 10:37	0.1	0.1	0.2
186	12/15/2016 10:38	0.1	0.1	0.2
187	12/15/2016 10:39	0.1	0.1	0.2
188	12/15/2016 10:40	0.2	0.2	0.2
189	12/15/2016 10:41	0.1	0.1	0.2
190	12/15/2016 10:42	0.1	0.1	0.2
191	12/15/2016 10:43	0.2	0.2	0.2
192	12/15/2016 10:44	0.2	0.2	0.2
193	12/15/2016 10:45	0.1	0.1	0.2
194	12/15/2016 10:46	0.2	0.2	0.2
195	12/15/2016 10:47	0.2	0.2	0.2
196	12/15/2016 10:48	0.2	0.2	0.2
197	12/15/2016 10:49	0.2	0.2	0.2
198	12/15/2016 10:50	0.1	0.1	0.2
199	12/15/2016 10:51	0.2	0.2	0.2
200	12/15/2016 10:52	0.2	0.2	0.2
201	12/15/2016 10:53	0.2	0.2	0.2
202	12/15/2016 10:54	0.2	0.2	0.2
203	12/15/2016 10:55	0.2	0.2	0.2
204	12/15/2016 10:56	0.2	0.2	0.2
205	12/15/2016 10:57	0.2	0.2	0.2
206	12/15/2016 10:58	0.1	0.1	0.2
207	12/15/2016 10:59	0.2	0.2	0.2
208	12/15/2016 11:00	0.1	0.1	0.2
209	12/15/2016 11:01	0.2	0.2	0.2
210	12/15/2016 11:02	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
211	12/15/2016 11:03	0.2	0.2	0.2
212	12/15/2016 11:04	0.2	0.2	0.2
213	12/15/2016 11:05	0.2	0.2	0.2
214	12/15/2016 11:06	0.2	0.2	0.2
215	12/15/2016 11:07	0.2	0.2	0.2
216	12/15/2016 11:08	0.2	0.2	0.2
217	12/15/2016 11:09	0.1	0.1	0.2
218	12/15/2016 11:10	0.1	0.1	0.2
219	12/15/2016 11:11	0.2	0.2	0.2
220	12/15/2016 11:12	0.1	0.1	0.2
221	12/15/2016 11:13	0.1	0.1	0.2
222	12/15/2016 11:14	0.2	0.2	0.2
223	12/15/2016 11:15	0.2	0.2	0.2
224	12/15/2016 11:16	0.1	0.1	0.2
225	12/15/2016 11:17	0.1	0.1	0.2
226	12/15/2016 11:18	0.1	0.1	0.2
227	12/15/2016 11:19	0.2	0.2	0.2
228	12/15/2016 11:20	0.1	0.1	0.2
229	12/15/2016 11:21	0.2	0.2	0.2
230	12/15/2016 11:22	0.1	0.1	0.2
231	12/15/2016 11:23	0.2	0.2	0.2
232	12/15/2016 11:24	0.2	0.2	0.2
233	12/15/2016 11:25	0.2	0.2	0.2
234	12/15/2016 11:26	0.2	0.2	0.2
235	12/15/2016 11:27	0.1	0.1	0.2
236	12/15/2016 11:28	0.1	0.1	0.2
237	12/15/2016 11:29	0.1	0.1	0.2
238	12/15/2016 11:30	0.1	0.1	0.2
239	12/15/2016 11:31	0.1	0.1	0.2
240	12/15/2016 11:32	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
241	12/15/2016 11:33	0.2	0.2	0.2
242	12/15/2016 11:34	0.1	0.1	0.2
243	12/15/2016 11:35	0.1	0.1	0.2
244	12/15/2016 11:36	0.2	0.2	0.2
245	12/15/2016 11:37	0.1	0.1	0.2
246	12/15/2016 11:38	0.1	0.1	0.2
247	12/15/2016 11:39	0.1	0.1	0.2
248	12/15/2016 11:40	0.1	0.1	0.2
249	12/15/2016 11:41	0.1	0.1	0.2
250	12/15/2016 11:42	0.1	0.1	0.2
251	12/15/2016 11:43	0.1	0.1	0.2
252	12/15/2016 11:44	0.1	0.1	0.2
253	12/15/2016 11:45	0.1	0.1	0.2
254	12/15/2016 11:46	0.1	0.1	0.2
255	12/15/2016 11:47	0.1	0.1	0.2
256	12/15/2016 11:48	0.1	0.1	0.2
257	12/15/2016 11:49	0.1	0.1	0.2
258	12/15/2016 11:50	0.1	0.1	0.2
259	12/15/2016 11:51	0.1	0.1	0.2
260	12/15/2016 11:52	0.1	0.1	0.2
261	12/15/2016 11:53	0.1	0.1	0.2
262	12/15/2016 11:54	0.1	0.1	0.2
263	12/15/2016 11:55	0.1	0.1	0.2
264	12/15/2016 11:56	0.1	0.1	0.2
265	12/15/2016 11:57	0.1	0.1	0.2
266	12/15/2016 11:58	0.1	0.1	0.2
267	12/15/2016 11:59	0.1	0.1	0.2
268	12/15/2016 12:00	0.1	0.1	0.2
269	12/15/2016 12:01	0.1	0.1	0.2
270	12/15/2016 12:02	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
271	12/15/2016 12:03	0.1	0.1	0.2
272	12/15/2016 12:04	0.1	0.1	0.2
273	12/15/2016 12:05	0.1	0.1	0.2
274	12/15/2016 12:06	0.1	0.1	0.2
275	12/15/2016 12:07	0.1	0.1	0.2
276	12/15/2016 12:08	0.1	0.1	0.2
277	12/15/2016 12:09	0.1	0.1	0.2
278	12/15/2016 12:10	0.1	0.1	0.2
279	12/15/2016 12:11	0.1	0.1	0.2
280	12/15/2016 12:12	0.1	0.1	0.2
281	12/15/2016 12:13	0.1	0.1	0.2
282	12/15/2016 12:14	0.1	0.1	0.2
283	12/15/2016 12:15	0.1	0.1	0.2
284	12/15/2016 12:16	0.1	0.1	0.2
285	12/15/2016 12:17	0.1	0.1	0.2
286	12/15/2016 12:18	0.1	0.1	0.2
287	12/15/2016 12:19	0.1	0.1	0.3
288	12/15/2016 12:20	0.1	0.1	0.2
289	12/15/2016 12:21	0.1	0.1	0.2
290	12/15/2016 12:22	0.1	0.1	0.2
291	12/15/2016 12:23	0.1	0.1	0.2
292	12/15/2016 12:24	0.1	0.1	0.2
293	12/15/2016 12:25	0.1	0.1	0.2
294	12/15/2016 12:26	0.1	0.1	0.2
295	12/15/2016 12:27	0.1	0.1	0.2
296	12/15/2016 12:28	0.1	0.1	0.2
297	12/15/2016 12:29	0.1	0.1	0.2
298	12/15/2016 12:30	0.1	0.1	0.2
299	12/15/2016 12:31	0.1	0.1	0.2
300	12/15/2016 12:32	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
301	12/15/2016 12:33	0.1	0.1	0.2
302	12/15/2016 12:34	0.1	0.1	0.2
303	12/15/2016 12:35	0.1	0.1	0.2
304	12/15/2016 12:36	0.1	0.1	0.2
305	12/15/2016 12:37	0.1	0.1	0.2
306	12/15/2016 12:38	0.1	0.1	0.2
307	12/15/2016 12:39	0.1	0.1	0.2
308	12/15/2016 12:40	0.1	0.1	0.2
309	12/15/2016 12:41	0.1	0.1	0.2
310	12/15/2016 12:42	0.1	0.1	0.2
311	12/15/2016 12:43	0.1	0.1	0.2
312	12/15/2016 12:44	0.1	0.1	0.2
313	12/15/2016 12:45	0.1	0.1	0.2
314	12/15/2016 12:46	0.1	0.1	0.2
315	12/15/2016 12:47	0.1	0.1	0.2
316	12/15/2016 12:48	0.1	0.1	0.2
317	12/15/2016 12:49	0.1	0.1	0.2
318	12/15/2016 12:50	0.1	0.1	0.2
319	12/15/2016 12:51	0.1	0.1	0.2
320	12/15/2016 12:52	0.1	0.1	0.2
321	12/15/2016 12:53	0.1	0.1	0.2
322	12/15/2016 12:54	0.1	0.1	0.2
323	12/15/2016 12:55	0.1	0.1	0.2
324	12/15/2016 12:56	0.1	0.1	0.2
325	12/15/2016 12:57	0.1	0.1	0.2
326	12/15/2016 12:58	0.1	0.1	0.2
327	12/15/2016 12:59	0.1	0.1	0.2
328	12/15/2016 13:00	0.1	0.1	0.2
329	12/15/2016 13:01	0.1	0.1	0.2
330	12/15/2016 13:02	0.1	0.1	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
331	12/15/2016 13:03	0.2	0.2	0.2
332	12/15/2016 13:04	0.1	0.1	0.2
333	12/15/2016 13:05	0.1	0.1	0.2
334	12/15/2016 13:06	0.1	0.1	0.2
335	12/15/2016 13:07	0.1	0.1	0.2
336	12/15/2016 13:08	0.1	0.1	0.2
337	12/15/2016 13:09	0.2	0.2	0.2
338	12/15/2016 13:10	0.2	0.2	0.2
339	12/15/2016 13:11	0.2	0.2	0.2
340	12/15/2016 13:12	0.1	0.1	0.2
341	12/15/2016 13:13	0.2	0.2	0.2
342	12/15/2016 13:14	0.2	0.2	0.3
343	12/15/2016 13:15	0.2	0.2	0.3
344	12/15/2016 13:16	0.2	0.2	0.2
345	12/15/2016 13:17	0.2	0.2	0.2
346	12/15/2016 13:18	0.2	0.2	0.2
347	12/15/2016 13:19	0.2	0.2	0.2
348	12/15/2016 13:20	0.2	0.2	0.2
349	12/15/2016 13:21	0.2	0.2	0.2
350	12/15/2016 13:22	0.2	0.2	0.2
351	12/15/2016 13:23	0.2	0.2	0.2
352	12/15/2016 13:24	0.2	0.2	0.2
353	12/15/2016 13:25	0.2	0.2	0.2
354	12/15/2016 13:26	0.2	0.2	0.2
355	12/15/2016 13:27	0.2	0.2	0.2
356	12/15/2016 13:28	0.2	0.2	0.2
357	12/15/2016 13:29	0.2	0.2	0.2
358	12/15/2016 13:30	0.2	0.2	0.2
359	12/15/2016 13:31	0.2	0.2	0.2
360	12/15/2016 13:32	0.2	0.2	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
361	12/15/2016 13:33	0.2	0.2	0.2
362	12/15/2016 13:34	0.2	0.2	0.2
363	12/15/2016 13:35	0.2	0.2	0.2
364	12/15/2016 13:36	0.2	0.2	0.2
365	12/15/2016 13:37	0.2	0.2	0.2
366	12/15/2016 13:38	0.2	0.2	0.2
367	12/15/2016 13:39	0.2	0.2	0.2
368	12/15/2016 13:40	0.2	0.2	0.2
369	12/15/2016 13:41	0.2	0.2	0.2
370	12/15/2016 13:42	0.2	0.2	0.2
371	12/15/2016 13:43	0.2	0.2	0.3
372	12/15/2016 13:44	0.2	0.2	0.3
373	12/15/2016 13:45	0.2	0.2	0.3
374	12/15/2016 13:46	0.2	0.2	0.3
375	12/15/2016 13:47	0.2	0.2	0.3
376	12/15/2016 13:48	0.2	0.2	0.3
377	12/15/2016 13:49	0.2	0.2	0.3
378	12/15/2016 13:50	0.2	0.2	0.3
379	12/15/2016 13:51	0.2	0.2	0.3
380	12/15/2016 13:52	0.2	0.2	0.3
381	12/15/2016 13:53	0.2	0.2	0.3
382	12/15/2016 13:54	0.2	0.2	0.3
383	12/15/2016 13:55	0.2	0.2	0.3
384	12/15/2016 13:56	0.2	0.2	0.3
385	12/15/2016 13:57	0.2	0.2	0.3
386	12/15/2016 13:58	0.2	0.2	0.3
387	12/15/2016 13:59	0.2	0.2	0.3
388	12/15/2016 14:00	0.2	0.2	0.3
389	12/15/2016 14:01	0.2	0.2	0.3
390	12/15/2016 14:02	0.2	0.2	0.3

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
391	12/15/2016 14:03	0.2	0.2	0.3
392	12/15/2016 14:04	0.2	0.2	0.3
393	12/15/2016 14:05	0.2	0.2	0.3
394	12/15/2016 14:06	0.2	0.2	0.2
395	12/15/2016 14:07	0.2	0.2	0.2
396	12/15/2016 14:08	0.2	0.2	0.3
397	12/15/2016 14:09	0.2	0.2	0.2
398	12/15/2016 14:10	0.2	0.2	0.2
399	12/15/2016 14:11	0.2	0.2	0.2
400	12/15/2016 14:12	0.2	0.2	0.2
401	12/15/2016 14:13	0.2	0.2	0.2
402	12/15/2016 14:14	0.2	0.2	0.2
403	12/15/2016 14:15	0.2	0.2	0.2
404	12/15/2016 14:16	0.2	0.2	0.2
405	12/15/2016 14:17	0.2	0.2	0.2
406	12/15/2016 14:18	0.2	0.2	0.2
407	12/15/2016 14:19	0.2	0.2	0.2
408	12/15/2016 14:20	0.2	0.2	0.2
409	12/15/2016 14:21	0.2	0.2	0.2
410	12/15/2016 14:22	0.2	0.2	0.2
411	12/15/2016 14:23	0.2	0.2	0.2
412	12/15/2016 14:24	0.2	0.2	0.2
413	12/15/2016 14:25	0.2	0.2	0.2
414	12/15/2016 14:26	0.2	0.2	0.2
415	12/15/2016 14:27	0.2	0.2	0.2
416	12/15/2016 14:28	0.2	0.2	0.3
417	12/15/2016 14:29	0.2	0.2	0.3
418	12/15/2016 14:30	0.2	0.2	0.2
419	12/15/2016 14:31	0.2	0.2	0.2
420	12/15/2016 14:32	0.2	0.2	0.2

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
421	12/15/2016 14:33	0.2	0.2	0.2
422	12/15/2016 14:34	0.2	0.2	0.3
423	12/15/2016 14:35	0.2	0.2	0.2
424	12/15/2016 14:36	0.2	0.2	0.2
425	12/15/2016 14:37	0.2	0.2	0.2
426	12/15/2016 14:38	0.2	0.2	0.2
427	12/15/2016 14:39	0.2	0.2	0.3
428	12/15/2016 14:40	0.2	0.2	0.2
429	12/15/2016 14:41	0.2	0.2	0.3
430	12/15/2016 14:42	0.2	0.2	0.2
431	12/15/2016 14:43	0.2	0.2	0.3
432	12/15/2016 14:44	0.2	0.2	0.2
433	12/15/2016 14:45	0.2	0.2	0.3
434	12/15/2016 14:46	0.2	0.2	0.3
435	12/15/2016 14:47	0.2	0.2	0.3
436	12/15/2016 14:48	0.2	0.2	0.2
437	12/15/2016 14:49	0.2	0.2	0.2
438	12/15/2016 14:50	0.2	0.2	0.2
439	12/15/2016 14:51	0.2	0.2	0.2
440	12/15/2016 14:52	0.2	0.2	0.2
441	12/15/2016 14:53	0.2	0.2	0.3
442	12/15/2016 14:54	0.2	0.2	0.3
443	12/15/2016 14:55	0.2	0.2	0.3
444	12/15/2016 14:56	0.2	0.2	0.3
445	12/15/2016 14:57	0.2	0.2	0.3
446	12/15/2016 14:58	0.2	0.2	0.3
447	12/15/2016 14:59	0.2	0.2	0.3
448	12/15/2016 15:00	0.2	0.2	0.3
449	12/15/2016 15:01	0.2	0.2	0.3
450	12/15/2016 15:02	0.2	0.2	0.3

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations
Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), M. Glinski (AECOM)
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902877
User ID: 00000001 Site ID: 00000000
Data Points: 475 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 12/15/2016 07:05

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
451	12/15/2016 15:03	0.2	0.2	0.3
452	12/15/2016 15:04	0.2	0.2	0.3
453	12/15/2016 15:05	0.2	0.2	0.3
454	12/15/2016 15:06	0.2	0.2	0.3
455	12/15/2016 15:07	0.2	0.2	0.3
456	12/15/2016 15:08	0.2	0.2	0.2
457	12/15/2016 15:09	0.2	0.2	0.2
458	12/15/2016 15:10	0.2	0.2	0.2
459	12/15/2016 15:11	0.2	0.2	0.2
460	12/15/2016 15:12	0.2	0.2	0.2
461	12/15/2016 15:13	0.2	0.2	0.2
462	12/15/2016 15:14	0.2	0.2	0.2
463	12/15/2016 15:15	0.2	0.2	0.2
464	12/15/2016 15:16	0.2	0.2	0.2
465	12/15/2016 15:17	0.2	0.2	0.2
466	12/15/2016 15:18	0.2	0.2	0.2
467	12/15/2016 15:19	0.2	0.2	0.2
468	12/15/2016 15:20	0.2	0.2	0.2
469	12/15/2016 15:21	0.2	0.2	0.3
470	12/15/2016 15:22	0.2	0.2	0.3
471	12/15/2016 15:23	0.2	0.2	0.3
472	12/15/2016 15:24	0.2	0.2	0.3
473	12/15/2016 15:25	0.2	0.2	0.3
474	12/15/2016 15:26	0.2	0.2	0.3
475	12/15/2016 15:27	0.2	0.2	0.3

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	9:25:44 AM
Test Start Date	12/5/2016
Test Length [D:H:M]	0:00:00
Test Interval [M:S]	0:01
Mass Average [mg/m3]	0.006
Mass Minimum [mg/m3]	0.003
Mass Maximum [mg/m3]	0.008
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	20

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1	0.005		
2	0.005		
3	0.004		
4	0.004		
5	0.005		
6	0.004		
7	0.005		
8	0.006		
9	0.007		
10	0.008		
11	0.008		
12	0.007		
13	0.004		
14	0.004		
15	0.008		
16	0.008		
17	0.003		
18	0.004		
19	0.005		
20	0.008		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	10:28:16 AM
Test Start Date	12/5/2016
Test Length [D:H:M]	0:00:01
Test Interval [M:S]	0:01
Mass Average [mg/m3]	0.006
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.031
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	60

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1	0.003		
2	0.001		
3	0.002		
4	0.002		
5	0.002		
6	0.002		
7	0.002		
8	0.002		
9	0.007		
10	0.018		
11	0.02		
12	0.003		
13	0.003		
14	0.004		
15	0.004		
16	0.024		
17	0.031		
18	0.003		
19	0.003		
20	0.003		
21	0.003		
22	0.003		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23	0.006		
24	0.008		
25	0.004		
26	0.004		
27	0.006		
28	0.005		
29	0.004		
30	0.005		
31	0.006		
32	0.006		
33	0.005		
34	0.006		
35	0.007		
36	0.008		
37	0.006		
38	0.007		
39	0.008		
40	0.006		
41	0.008		
42	0.008		
43	0.004		
44	0.004		
45	0.005		
46	0.004		
47	0.004		
48	0.004		
49	0.004		
50	0.004		
51	0.005		
52	0.006		
53	0.004		
54	0.003		
55	0.003		
56	0.003		
57	0.004		
58	0.003		
59	0.003		
60	0.003		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	2:01:37 PM
Test Start Date	12/5/2016
Test Length [D:H:M]	0:00:01
Test Interval [M:S]	0:01
Mass Average [mg/m3]	0.012
Mass Minimum [mg/m3]	0.008
Mass Maximum [mg/m3]	0.014
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	60

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1	0.009		
2	0.008		
3	0.008		
4	0.009		
5	0.01		
6	0.01		
7	0.01		
8	0.01		
9	0.01		
10	0.011		
11	0.011		
12	0.011		
13	0.012		
14	0.013		
15	0.013		
16	0.012		
17	0.012		
18	0.013		
19	0.012		
20	0.013		
21	0.013		
22	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23	0.014		
24	0.014		
25	0.013		
26	0.013		
27	0.013		
28	0.013		
29	0.013		
30	0.013		
31	0.013		
32	0.013		
33	0.013		
34	0.013		
35	0.013		
36	0.013		
37	0.013		
38	0.013		
39	0.013		
40	0.013		
41	0.013		
42	0.013		
43	0.013		
44	0.013		
45	0.013		
46	0.014		
47	0.014		
48	0.013		
49	0.013		
50	0.014		
51	0.013		
52	0.013		
53	0.014		
54	0.014		
55	0.014		
56	0.013		
57	0.013		
58	0.013		
59	0.013		
60	0.013		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	4:04:29 PM
Test Start Date	12/5/2016
Test Length [D:H:M]	0:00:01
Test Interval [M:S]	0:01
Mass Average [mg/m3]	0.011
Mass Minimum [mg/m3]	0.008
Mass Maximum [mg/m3]	0.013
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	60

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1	0.008		
2	0.008		
3	0.008		
4	0.009		
5	0.01		
6	0.01		
7	0.01		
8	0.01		
9	0.011		
10	0.01		
11	0.01		
12	0.011		
13	0.01		
14	0.011		
15	0.011		
16	0.011		
17	0.012		
18	0.012		
19	0.011		
20	0.01		
21	0.011		
22	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23	0.011		
24	0.011		
25	0.012		
26	0.012		
27	0.012		
28	0.013		
29	0.012		
30	0.012		
31	0.012		
32	0.011		
33	0.012		
34	0.011		
35	0.011		
36	0.012		
37	0.012		
38	0.011		
39	0.012		
40	0.012		
41	0.012		
42	0.012		
43	0.011		
44	0.012		
45	0.012		
46	0.011		
47	0.012		
48	0.012		
49	0.012		
50	0.012		
51	0.011		
52	0.011		
53	0.011		
54	0.011		
55	0.011		
56	0.012		
57	0.013		
58	0.013		
59	0.012		
60	0.011		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	9:09:59 AM
Test Start Date	12/6/2016
Test Length [D:H:M]	0:01:30
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.008
Mass Minimum [mg/m3]	0.005
Mass Maximum [mg/m3]	0.022
Mass TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	540

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.008		
20	0.012		
30	0.022		
40	0.01		
50	0.009		
60	0.009		
70	0.009		
80	0.009		
90	0.009		
100	0.008		
110	0.009		
120	0.009		
130	0.008		
140	0.009		
150	0.009		
160	0.009		
170	0.009		
180	0.009		
190	0.009		
200	0.008		
210	0.009		
220	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.009		
240	0.009		
250	0.009		
260	0.009		
270	0.009		
280	0.009		
290	0.009		
300	0.009		
310	0.009		
320	0.012		
330	0.01		
340	0.009		
350	0.009		
360	0.009		
370	0.009		
380	0.009		
390	0.009		
400	0.01		
410	0.015		
420	0.013		
430	0.011		
440	0.01		
450	0.01		
460	0.01		
470	0.009		
480	0.009		
490	0.009		
500	0.009		
510	0.009		
520	0.008		
530	0.009		
540	0.009		
550	0.008		
560	0.009		
570	0.009		
580	0.009		
590	0.009		
600	0.009		
610	0.009		
620	0.009		
630	0.009		
640	0.009		
650	0.011		
660	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.01		
680	0.01		
690	0.009		
700	0.009		
710	0.009		
720	0.009		
730	0.009		
740	0.009		
750	0.009		
760	0.009		
770	0.008		
780	0.009		
790	0.009		
800	0.01		
810	0.011		
820	0.013		
830	0.012		
840	0.01		
850	0.009		
860	0.01		
870	0.009		
880	0.009		
890	0.009		
900	0.008		
910	0.009		
920	0.008		
930	0.009		
940	0.009		
950	0.009		
960	0.009		
970	0.009		
980	0.008		
990	0.008		
1000	0.008		
1010	0.008		
1020	0.009		
1030	0.009		
1040	0.01		
1050	0.012		
1060	0.015		
1070	0.014		
1080	0.012		
1090	0.01		
1100	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.008		
1120	0.009		
1130	0.008		
1140	0.008		
1150	0.009		
1160	0.009		
1170	0.01		
1180	0.009		
1190	0.008		
1200	0.008		
1210	0.008		
1220	0.008		
1230	0.008		
1240	0.008		
1250	0.008		
1260	0.008		
1270	0.008		
1280	0.008		
1290	0.008		
1300	0.009		
1310	0.009		
1320	0.011		
1330	0.013		
1340	0.01		
1350	0.008		
1360	0.008		
1370	0.009		
1380	0.011		
1390	0.011		
1400	0.011		
1410	0.011		
1420	0.01		
1430	0.01		
1440	0.011		
1450	0.014		
1460	0.017		
1470	0.015		
1480	0.01		
1490	0.009		
1500	0.008		
1510	0.008		
1520	0.009		
1530	0.008		
1540	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.008		
1560	0.008		
1570	0.008		
1580	0.008		
1590	0.009		
1600	0.009		
1610	0.008		
1620	0.008		
1630	0.008		
1640	0.008		
1650	0.008		
1660	0.008		
1670	0.008		
1680	0.008		
1690	0.008		
1700	0.008		
1710	0.008		
1720	0.01		
1730	0.009		
1740	0.008		
1750	0.008		
1760	0.008		
1770	0.008		
1780	0.008		
1790	0.007		
1800	0.008		
1810	0.007		
1820	0.007		
1830	0.007		
1840	0.008		
1850	0.008		
1860	0.008		
1870	0.008		
1880	0.009		
1890	0.009		
1900	0.008		
1910	0.009		
1920	0.009		
1930	0.008		
1940	0.008		
1950	0.008		
1960	0.008		
1970	0.008		
1980	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.008		
2000	0.008		
2010	0.008		
2020	0.007		
2030	0.007		
2040	0.008		
2050	0.008		
2060	0.008		
2070	0.008		
2080	0.008		
2090	0.008		
2100	0.008		
2110	0.008		
2120	0.008		
2130	0.008		
2140	0.007		
2150	0.008		
2160	0.008		
2170	0.008		
2180	0.008		
2190	0.008		
2200	0.008		
2210	0.008		
2220	0.007		
2230	0.008		
2240	0.008		
2250	0.008		
2260	0.008		
2270	0.007		
2280	0.007		
2290	0.007		
2300	0.007		
2310	0.008		
2320	0.008		
2330	0.008		
2340	0.008		
2350	0.007		
2360	0.008		
2370	0.007		
2380	0.007		
2390	0.007		
2400	0.007		
2410	0.007		
2420	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.007		
2440	0.007		
2450	0.007		
2460	0.008		
2470	0.01		
2480	0.009		
2490	0.008		
2500	0.008		
2510	0.008		
2520	0.007		
2530	0.007		
2540	0.008		
2550	0.007		
2560	0.007		
2570	0.007		
2580	0.007		
2590	0.007		
2600	0.007		
2610	0.007		
2620	0.007		
2630	0.007		
2640	0.008		
2650	0.007		
2660	0.007		
2670	0.008		
2680	0.008		
2690	0.008		
2700	0.007		
2710	0.008		
2720	0.008		
2730	0.009		
2740	0.008		
2750	0.007		
2760	0.007		
2770	0.007		
2780	0.007		
2790	0.007		
2800	0.007		
2810	0.007		
2820	0.007		
2830	0.007		
2840	0.007		
2850	0.007		
2860	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.007		
2880	0.007		
2890	0.007		
2900	0.007		
2910	0.007		
2920	0.007		
2930	0.007		
2940	0.007		
2950	0.007		
2960	0.007		
2970	0.007		
2980	0.007		
2990	0.007		
3000	0.007		
3010	0.007		
3020	0.006		
3030	0.007		
3040	0.007		
3050	0.007		
3060	0.007		
3070	0.007		
3080	0.007		
3090	0.007		
3100	0.007		
3110	0.007		
3120	0.007		
3130	0.007		
3140	0.01		
3150	0.01		
3160	0.008		
3170	0.008		
3180	0.007		
3190	0.007		
3200	0.007		
3210	0.009		
3220	0.013		
3230	0.013		
3240	0.009		
3250	0.009		
3260	0.008		
3270	0.008		
3280	0.009		
3290	0.009		
3300	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.008		
3320	0.009		
3330	0.008		
3340	0.009		
3350	0.009		
3360	0.007		
3370	0.009		
3380	0.01		
3390	0.008		
3400	0.007		
3410	0.007		
3420	0.007		
3430	0.006		
3440	0.007		
3450	0.007		
3460	0.008		
3470	0.007		
3480	0.007		
3490	0.006		
3500	0.006		
3510	0.007		
3520	0.006		
3530	0.006		
3540	0.006		
3550	0.007		
3560	0.006		
3570	0.006		
3580	0.009		
3590	0.013		
3600	0.014		
3610	0.013		
3620	0.01		
3630	0.007		
3640	0.006		
3650	0.006		
3660	0.006		
3670	0.006		
3680	0.006		
3690	0.006		
3700	0.006		
3710	0.006		
3720	0.006		
3730	0.006		
3740	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.008		
3760	0.011		
3770	0.013		
3780	0.009		
3790	0.007		
3800	0.007		
3810	0.009		
3820	0.009		
3830	0.011		
3840	0.013		
3850	0.012		
3860	0.007		
3870	0.006		
3880	0.006		
3890	0.006		
3900	0.005		
3910	0.006		
3920	0.006		
3930	0.006		
3940	0.006		
3950	0.006		
3960	0.006		
3970	0.009		
3980	0.007		
3990	0.007		
4000	0.007		
4010	0.007		
4020	0.006		
4030	0.007		
4040	0.007		
4050	0.006		
4060	0.006		
4070	0.006		
4080	0.006		
4090	0.006		
4100	0.006		
4110	0.006		
4120	0.006		
4130	0.006		
4140	0.006		
4150	0.006		
4160	0.006		
4170	0.006		
4180	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.006		
4200	0.006		
4210	0.006		
4220	0.006		
4230	0.006		
4240	0.01		
4250	0.01		
4260	0.007		
4270	0.006		
4280	0.006		
4290	0.006		
4300	0.006		
4310	0.006		
4320	0.008		
4330	0.007		
4340	0.006		
4350	0.006		
4360	0.006		
4370	0.006		
4380	0.006		
4390	0.006		
4400	0.006		
4410	0.006		
4420	0.006		
4430	0.007		
4440	0.006		
4450	0.009		
4460	0.008		
4470	0.007		
4480	0.007		
4490	0.007		
4500	0.006		
4510	0.006		
4520	0.006		
4530	0.006		
4540	0.006		
4550	0.006		
4560	0.005		
4570	0.005		
4580	0.005		
4590	0.006		
4600	0.005		
4610	0.006		
4620	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.006		
4640	0.006		
4650	0.006		
4660	0.006		
4670	0.006		
4680	0.006		
4690	0.006		
4700	0.006		
4710	0.005		
4720	0.005		
4730	0.006		
4740	0.007		
4750	0.007		
4760	0.008		
4770	0.007		
4780	0.006		
4790	0.008		
4800	0.007		
4810	0.006		
4820	0.005		
4830	0.005		
4840	0.008		
4850	0.007		
4860	0.006		
4870	0.005		
4880	0.006		
4890	0.005		
4900	0.005		
4910	0.006		
4920	0.007		
4930	0.006		
4940	0.006		
4950	0.006		
4960	0.006		
4970	0.006		
4980	0.006		
4990	0.006		
5000	0.006		
5010	0.006		
5020	0.007		
5030	0.009		
5040	0.008		
5050	0.006		
5060	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.006		
5080	0.008		
5090	0.008		
5100	0.006		
5110	0.006		
5120	0.006		
5130	0.006		
5140	0.006		
5150	0.006		
5160	0.006		
5170	0.006		
5180	0.006		
5190	0.006		
5200	0.007		
5210	0.007		
5220	0.006		
5230	0.006		
5240	0.005		
5250	0.006		
5260	0.005		
5270	0.005		
5280	0.005		
5290	0.005		
5300	0.005		
5310	0.01		
5320	0.007		
5330	0.007		
5340	0.007		
5350	0.008		
5360	0.008		
5370	0.007		
5380	0.006		
5390	0.005		
5400	0.005		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	11:12:46 AM
Test Start Date	12/6/2016
Test Length [D:H:M]	0:01:36
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.01
Mass Minimum [mg/m3]	0.005
Mass Maximum [mg/m3]	0.05
Mass TWA [mg/m3]	0.002
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	577

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.009		
20	0.019		
30	0.014		
40	0.016		
50	0.013		
60	0.01		
70	0.014		
80	0.013		
90	0.009		
100	0.008		
110	0.007		
120	0.005		
130	0.007		
140	0.007		
150	0.006		
160	0.007		
170	0.006		
180	0.008		
190	0.01		
200	0.01		
210	0.01		
220	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.013		
240	0.009		
250	0.011		
260	0.012		
270	0.014		
280	0.008		
290	0.007		
300	0.007		
310	0.008		
320	0.008		
330	0.007		
340	0.009		
350	0.011		
360	0.012		
370	0.006		
380	0.008		
390	0.012		
400	0.016		
410	0.013		
420	0.017		
430	0.011		
440	0.011		
450	0.013		
460	0.013		
470	0.01		
480	0.007		
490	0.007		
500	0.007		
510	0.01		
520	0.015		
530	0.009		
540	0.008		
550	0.009		
560	0.009		
570	0.01		
580	0.014		
590	0.016		
600	0.013		
610	0.011		
620	0.014		
630	0.013		
640	0.011		
650	0.012		
660	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.007		
680	0.006		
690	0.006		
700	0.006		
710	0.006		
720	0.006		
730	0.005		
740	0.006		
750	0.009		
760	0.01		
770	0.006		
780	0.006		
790	0.01		
800	0.014		
810	0.013		
820	0.011		
830	0.01		
840	0.009		
850	0.012		
860	0.015		
870	0.012		
880	0.015		
890	0.013		
900	0.012		
910	0.011		
920	0.01		
930	0.008		
940	0.006		
950	0.007		
960	0.009		
970	0.011		
980	0.012		
990	0.007		
1000	0.006		
1010	0.006		
1020	0.009		
1030	0.017		
1040	0.014		
1050	0.013		
1060	0.016		
1070	0.016		
1080	0.013		
1090	0.009		
1100	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.008		
1120	0.009		
1130	0.011		
1140	0.008		
1150	0.007		
1160	0.007		
1170	0.007		
1180	0.01		
1190	0.014		
1200	0.016		
1210	0.013		
1220	0.013		
1230	0.013		
1240	0.007		
1250	0.009		
1260	0.014		
1270	0.011		
1280	0.01		
1290	0.015		
1300	0.016		
1310	0.01		
1320	0.009		
1330	0.013		
1340	0.011		
1350	0.008		
1360	0.008		
1370	0.008		
1380	0.01		
1390	0.008		
1400	0.009		
1410	0.009		
1420	0.01		
1430	0.012		
1440	0.01		
1450	0.014		
1460	0.01		
1470	0.007		
1480	0.007		
1490	0.008		
1500	0.01		
1510	0.019		
1520	0.011		
1530	0.008		
1540	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.007		
1560	0.009		
1570	0.011		
1580	0.011		
1590	0.011		
1600	0.014		
1610	0.012		
1620	0.007		
1630	0.007		
1640	0.011		
1650	0.009		
1660	0.012		
1670	0.012		
1680	0.008		
1690	0.007		
1700	0.01		
1710	0.01		
1720	0.009		
1730	0.006		
1740	0.007		
1750	0.009		
1760	0.009		
1770	0.008		
1780	0.007		
1790	0.008		
1800	0.007		
1810	0.007		
1820	0.011		
1830	0.014		
1840	0.013		
1850	0.01		
1860	0.014		
1870	0.014		
1880	0.012		
1890	0.008		
1900	0.007		
1910	0.015		
1920	0.016		
1930	0.015		
1940	0.011		
1950	0.01		
1960	0.007		
1970	0.006		
1980	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.006		
2000	0.025		
2010	0.017		
2020	0.05		
2030	0.034		
2040	0.016		
2050	0.011		
2060	0.009		
2070	0.007		
2080	0.009		
2090	0.012		
2100	0.01		
2110	0.008		
2120	0.008		
2130	0.007		
2140	0.007		
2150	0.007		
2160	0.008		
2170	0.007		
2180	0.008		
2190	0.011		
2200	0.009		
2210	0.012		
2220	0.008		
2230	0.013		
2240	0.011		
2250	0.008		
2260	0.007		
2270	0.015		
2280	0.008		
2290	0.007		
2300	0.007		
2310	0.008		
2320	0.011		
2330	0.013		
2340	0.018		
2350	0.015		
2360	0.011		
2370	0.012		
2380	0.008		
2390	0.008		
2400	0.009		
2410	0.008		
2420	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.01		
2440	0.009		
2450	0.01		
2460	0.01		
2470	0.009		
2480	0.013		
2490	0.009		
2500	0.012		
2510	0.012		
2520	0.012		
2530	0.008		
2540	0.007		
2550	0.008		
2560	0.011		
2570	0.009		
2580	0.007		
2590	0.021		
2600	0.012		
2610	0.015		
2620	0.015		
2630	0.013		
2640	0.01		
2650	0.009		
2660	0.007		
2670	0.007		
2680	0.007		
2690	0.01		
2700	0.009		
2710	0.01		
2720	0.008		
2730	0.007		
2740	0.008		
2750	0.011		
2760	0.011		
2770	0.012		
2780	0.013		
2790	0.015		
2800	0.014		
2810	0.013		
2820	0.013		
2830	0.008		
2840	0.008		
2850	0.008		
2860	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.015		
2880	0.014		
2890	0.009		
2900	0.01		
2910	0.014		
2920	0.009		
2930	0.01		
2940	0.011		
2950	0.012		
2960	0.011		
2970	0.009		
2980	0.011		
2990	0.011		
3000	0.01		
3010	0.013		
3020	0.017		
3030	0.011		
3040	0.013		
3050	0.011		
3060	0.011		
3070	0.01		
3080	0.008		
3090	0.008		
3100	0.007		
3110	0.007		
3120	0.008		
3130	0.008		
3140	0.009		
3150	0.01		
3160	0.013		
3170	0.014		
3180	0.013		
3190	0.011		
3200	0.01		
3210	0.009		
3220	0.009		
3230	0.009		
3240	0.008		
3250	0.008		
3260	0.007		
3270	0.007		
3280	0.007		
3290	0.008		
3300	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.008		
3320	0.007		
3330	0.008		
3340	0.008		
3350	0.007		
3360	0.01		
3370	0.015		
3380	0.014		
3390	0.013		
3400	0.012		
3410	0.009		
3420	0.013		
3430	0.008		
3440	0.008		
3450	0.007		
3460	0.007		
3470	0.012		
3480	0.011		
3490	0.01		
3500	0.008		
3510	0.007		
3520	0.007		
3530	0.008		
3540	0.009		
3550	0.008		
3560	0.008		
3570	0.008		
3580	0.007		
3590	0.008		
3600	0.007		
3610	0.008		
3620	0.008		
3630	0.007		
3640	0.009		
3650	0.01		
3660	0.01		
3670	0.007		
3680	0.009		
3690	0.008		
3700	0.008		
3710	0.008		
3720	0.007		
3730	0.007		
3740	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.009		
3760	0.007		
3770	0.008		
3780	0.009		
3790	0.013		
3800	0.01		
3810	0.013		
3820	0.013		
3830	0.011		
3840	0.008		
3850	0.007		
3860	0.006		
3870	0.006		
3880	0.006		
3890	0.006		
3900	0.006		
3910	0.006		
3920	0.006		
3930	0.008		
3940	0.007		
3950	0.008		
3960	0.011		
3970	0.009		
3980	0.008		
3990	0.008		
4000	0.008		
4010	0.014		
4020	0.009		
4030	0.01		
4040	0.009		
4050	0.01		
4060	0.01		
4070	0.013		
4080	0.013		
4090	0.011		
4100	0.012		
4110	0.01		
4120	0.013		
4130	0.009		
4140	0.008		
4150	0.007		
4160	0.007		
4170	0.007		
4180	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.008		
4200	0.007		
4210	0.007		
4220	0.007		
4230	0.013		
4240	0.013		
4250	0.01		
4260	0.008		
4270	0.009		
4280	0.007		
4290	0.009		
4300	0.01		
4310	0.009		
4320	0.009		
4330	0.01		
4340	0.009		
4350	0.008		
4360	0.008		
4370	0.008		
4380	0.007		
4390	0.007		
4400	0.007		
4410	0.007		
4420	0.007		
4430	0.011		
4440	0.018		
4450	0.015		
4460	0.01		
4470	0.009		
4480	0.015		
4490	0.014		
4500	0.012		
4510	0.016		
4520	0.013		
4530	0.01		
4540	0.01		
4550	0.012		
4560	0.013		
4570	0.009		
4580	0.01		
4590	0.009		
4600	0.01		
4610	0.012		
4620	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.011		
4640	0.013		
4650	0.011		
4660	0.01		
4670	0.009		
4680	0.009		
4690	0.011		
4700	0.011		
4710	0.009		
4720	0.008		
4730	0.007		
4740	0.006		
4750	0.006		
4760	0.006		
4770	0.007		
4780	0.006		
4790	0.006		
4800	0.006		
4810	0.006		
4820	0.007		
4830	0.007		
4840	0.008		
4850	0.016		
4860	0.012		
4870	0.01		
4880	0.008		
4890	0.007		
4900	0.007		
4910	0.007		
4920	0.007		
4930	0.006		
4940	0.006		
4950	0.006		
4960	0.006		
4970	0.006		
4980	0.007		
4990	0.006		
5000	0.006		
5010	0.006		
5020	0.006		
5030	0.007		
5040	0.007		
5050	0.01		
5060	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.008		
5080	0.008		
5090	0.007		
5100	0.009		
5110	0.013		
5120	0.015		
5130	0.014		
5140	0.011		
5150	0.009		
5160	0.012		
5170	0.01		
5180	0.011		
5190	0.011		
5200	0.011		
5210	0.008		
5220	0.007		
5230	0.007		
5240	0.007		
5250	0.006		
5260	0.007		
5270	0.008		
5280	0.015		
5290	0.013		
5300	0.011		
5310	0.009		
5320	0.008		
5330	0.008		
5340	0.007		
5350	0.006		
5360	0.007		
5370	0.007		
5380	0.011		
5390	0.017		
5400	0.01		
5410	0.012		
5420	0.011		
5430	0.01		
5440	0.008		
5450	0.007		
5460	0.008		
5470	0.008		
5480	0.01		
5490	0.009		
5500	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5510	0.008		
5520	0.01		
5530	0.016		
5540	0.012		
5550	0.017		
5560	0.014		
5570	0.009		
5580	0.008		
5590	0.007		
5600	0.01		
5610	0.01		
5620	0.012		
5630	0.011		
5640	0.013		
5650	0.014		
5660	0.013		
5670	0.017		
5680	0.011		
5690	0.008		
5700	0.008		
5710	0.01		
5720	0.007		
5730	0.008		
5740	0.011		
5750	0.008		
5760	0.007		
5770	0.007		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	1:43:12 PM
Test Start Date	12/6/2016
Test Length [D:H:M]	0:03:11
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.009
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.029
Mass TWA [mg/m3]	0.004
Photometric User Cal	1
Flow User Cal	0
Errors	Flow Error
Number of Samples	1126

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.009		
20	0.011		
30	0.011		
40	0.011		
50	0.011		
60	0.014		
70	0.013		
80	0.013		
90	0.013		
100	0.008		
110	0.008		
120	0.01		
130	0.015		
140	0.012		
150	0.01		
160	0.013		
170	0.011		
180	0.013		
190	0.012		
200	0.013		
210	0.015		
220	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.01		
240	0.015		
250	0.008		
260	0.015		
270	0.013		
280	0.008		
290	0.011		
300	0.008		
310	0.007		
320	0.006		
330	0.006		
340	0.006		
350	0.006		
360	0.007		
370	0.007		
380	0.006		
390	0.007		
400	0.012		
410	0.009		
420	0.007		
430	0.006		
440	0.007		
450	0.012		
460	0.013		
470	0.01		
480	0.008		
490	0.007		
500	0.006		
510	0.009		
520	0.013		
530	0.011		
540	0.013		
550	0.012		
560	0.013		
570	0.013		
580	0.013		
590	0.008		
600	0.007		
610	0.01		
620	0.013		
630	0.013		
640	0.01		
650	0.007		
660	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.011		
680	0.013		
690	0.01		
700	0.007		
710	0.007		
720	0.011		
730	0.009		
740	0.011		
750	0.012		
760	0.007		
770	0.007		
780	0.013		
790	0.008		
800	0.007		
810	0.006		
820	0.01		
830	0.008		
840	0.007		
850	0.008		
860	0.006		
870	0.006		
880	0.007		
890	0.01		
900	0.014		
910	0.01		
920	0.009		
930	0.012		
940	0.009		
950	0.014		
960	0.016		
970	0.017		
980	0.01		
990	0.008		
1000	0.008		
1010	0.008		
1020	0.009		
1030	0.012		
1040	0.009		
1050	0.012		
1060	0.01		
1070	0.007		
1080	0.007		
1090	0.008		
1100	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.009		
1120	0.01		
1130	0.009		
1140	0.008		
1150	0.01		
1160	0.008		
1170	0.01		
1180	0.014		
1190	0.01		
1200	0.008		
1210	0.008		
1220	0.029		
1230	0.025		
1240	0.014		
1250	0.013		
1260	0.014		
1270	0.011		
1280	0.009		
1290	0.009		
1300	0.008		
1310	0.009		
1320	0.01		
1330	0.012		
1340	0.01		
1350	0.009		
1360	0.007		
1370	0.007		
1380	0.006		
1390	0.008		
1400	0.007		
1410	0.01		
1420	0.012		
1430	0.009		
1440	0.007		
1450	0.007		
1460	0.007		
1470	0.006		
1480	0.007		
1490	0.007		
1500	0.007		
1510	0.011		
1520	0.011		
1530	0.011		
1540	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.009		
1560	0.009		
1570	0.009		
1580	0.009		
1590	0.012		
1600	0.013		
1610	0.009		
1620	0.009		
1630	0.013		
1640	0.009		
1650	0.01		
1660	0.008		
1670	0.009		
1680	0.009		
1690	0.011		
1700	0.014		
1710	0.014		
1720	0.01		
1730	0.012		
1740	0.011		
1750	0.008		
1760	0.008		
1770	0.009		
1780	0.008		
1790	0.01		
1800	0.009		
1810	0.011		
1820	0.013		
1830	0.013		
1840	0.01		
1850	0.015		
1860	0.013		
1870	0.019		
1880	0.018		
1890	0.018		
1900	0.012		
1910	0.01		
1920	0.012		
1930	0.009		
1940	0.012		
1950	0.011		
1960	0.01		
1970	0.009		
1980	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.012		
2000	0.008		
2010	0.016		
2020	0.012		
2030	0.01		
2040	0.017		
2050	0.015		
2060	0.012		
2070	0.012		
2080	0.01		
2090	0.009		
2100	0.012		
2110	0.012		
2120	0.013		
2130	0.012		
2140	0.009		
2150	0.015		
2160	0.014		
2170	0.01		
2180	0.015		
2190	0.018		
2200	0.012		
2210	0.014		
2220	0.018		
2230	0.012		
2240	0.011		
2250	0.009		
2260	0.013		
2270	0.009		
2280	0.016		
2290	0.019		
2300	0.016		
2310	0.014		
2320	0.012		
2330	0.011		
2340	0.014		
2350	0.01		
2360	0.011		
2370	0.011		
2380	0.01		
2390	0.01		
2400	0.014		
2410	0.01		
2420	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.011		
2440	0.012		
2450	0.017		
2460	0.011		
2470	0.01		
2480	0.009		
2490	0.014		
2500	0.012		
2510	0.013		
2520	0.01		
2530	0.011		
2540	0.014		
2550	0.011		
2560	0.011		
2570	0.012		
2580	0.01		
2590	0.01		
2600	0.01		
2610	0.013		
2620	0.011		
2630	0.012		
2640	0.016		
2650	0.011		
2660	0.01		
2670	0.011		
2680	0.01		
2690	0.01		
2700	0.01		
2710	0.01		
2720	0.011		
2730	0.013		
2740	0.01		
2750	0.01		
2760	0.011		
2770	0.012		
2780	0.011		
2790	0.012		
2800	0.014		
2810	0.011		
2820	0.014		
2830	0.014		
2840	0.014		
2850	0.016		
2860	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.014		
2880	0.011		
2890	0.01		
2900	0.011		
2910	0.011		
2920	0.011		
2930	0.012		
2940	0.011		
2950	0.011		
2960	0.011		
2970	0.01		
2980	0.01		
2990	0.009		
3000	0.014		
3010	0.017		
3020	0.012		
3030	0.014		
3040	0.017		
3050	0.017		
3060	0.013		
3070	0.015		
3080	0.011		
3090	0.014		
3100	0.012		
3110	0.012		
3120	0.012		
3130	0.014		
3140	0.013		
3150	0.013		
3160	0.01		
3170	0.014		
3180	0.012		
3190	0.012		
3200	0.012		
3210	0.012		
3220	0.011		
3230	0.01		
3240	0.011		
3250	0.01		
3260	0.009		
3270	0.009		
3280	0.012		
3290	0.01		
3300	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.011		
3320	0.011		
3330	0.009		
3340	0.009		
3350	0.01		
3360	0.012		
3370	0.01		
3380	0.01		
3390	0.014		
3400	0.013		
3410	0.014		
3420	0.012		
3430	0.012		
3440	0.01		
3450	0.008		
3460	0.011		
3470	0.014		
3480	0.013		
3490	0.01		
3500	0.013		
3510	0.014		
3520	0.012		
3530	0.013		
3540	0.013		
3550	0.009		
3560	0.01		
3570	0.011		
3580	0.009		
3590	0.011		
3600	0.009		
3610	0.012		
3620	0.008		
3630	0.01		
3640	0.01		
3650	0.01		
3660	0.011		
3670	0.011		
3680	0.009		
3690	0.008		
3700	0.009		
3710	0.01		
3720	0.009		
3730	0.01		
3740	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.01		
3760	0.01		
3770	0.01		
3780	0.011		
3790	0.009		
3800	0.012		
3810	0.009		
3820	0.008		
3830	0.008		
3840	0.01		
3850	0.012		
3860	0.012		
3870	0.009		
3880	0.009		
3890	0.013		
3900	0.013		
3910	0.011		
3920	0.009		
3930	0.007		
3940	0.007		
3950	0.007		
3960	0.012		
3970	0.008		
3980	0.01		
3990	0.01		
4000	0.008		
4010	0.008		
4020	0.01		
4030	0.01		
4040	0.014		
4050	0.012		
4060	0.009		
4070	0.009		
4080	0.009		
4090	0.01		
4100	0.012		
4110	0.01		
4120	0.015		
4130	0.012		
4140	0.011		
4150	0.009		
4160	0.01		
4170	0.009		
4180	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.011		
4200	0.01		
4210	0.013		
4220	0.01		
4230	0.01		
4240	0.008		
4250	0.008		
4260	0.01		
4270	0.008		
4280	0.015		
4290	0.01		
4300	0.011		
4310	0.012		
4320	0.009		
4330	0.009		
4340	0.01		
4350	0.013		
4360	0.011		
4370	0.01		
4380	0.011		
4390	0.014		
4400	0.009		
4410	0.011		
4420	0.01		
4430	0.009		
4440	0.008		
4450	0.01		
4460	0.008		
4470	0.009		
4480	0.008		
4490	0.009		
4500	0.014		
4510	0.013		
4520	0.009		
4530	0.012		
4540	0.01		
4550	0.009		
4560	0.01		
4570	0.009		
4580	0.011		
4590	0.01		
4600	0.008		
4610	0.009		
4620	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.008		
4640	0.011		
4650	0.014		
4660	0.01		
4670	0.008		
4680	0.008		
4690	0.008		
4700	0.008		
4710	0.007		
4720	0.007		
4730	0.008		
4740	0.008		
4750	0.01		
4760	0.01		
4770	0.01		
4780	0.01		
4790	0.009		
4800	0.009		
4810	0.01		
4820	0.01		
4830	0.009		
4840	0.009		
4850	0.008		
4860	0.008		
4870	0.007		
4880	0.008		
4890	0.007		
4900	0.008		
4910	0.008		
4920	0.008		
4930	0.008		
4940	0.007		
4950	0.007		
4960	0.007		
4970	0.009		
4980	0.007		
4990	0.007		
5000	0.008		
5010	0.008		
5020	0.007		
5030	0.008		
5040	0.008		
5050	0.007		
5060	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.009		
5080	0.008		
5090	0.008		
5100	0.009		
5110	0.008		
5120	0.009		
5130	0.009		
5140	0.009		
5150	0.008		
5160	0.008		
5170	0.008		
5180	0.008		
5190	0.008		
5200	0.008		
5210	0.009		
5220	0.01		
5230	0.009		
5240	0.008		
5250	0.012		
5260	0.009		
5270	0.009		
5280	0.009		
5290	0.008		
5300	0.008		
5310	0.008		
5320	0.013		
5330	0.011		
5340	0.012		
5350	0.012		
5360	0.01		
5370	0.009		
5380	0.011		
5390	0.01		
5400	0.009		
5410	0.01		
5420	0.011		
5430	0.01		
5440	0.01		
5450	0.01		
5460	0.011		
5470	0.009		
5480	0.012		
5490	0.009		
5500	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5510	0.01		
5520	0.009		
5530	0.012		
5540	0.011		
5550	0.01		
5560	0.012		
5570	0.009		
5580	0.009		
5590	0.009		
5600	0.01		
5610	0.012		
5620	0.013		
5630	0.011		
5640	0.013		
5650	0.012		
5660	0.01		
5670	0.011		
5680	0.009		
5690	0.008		
5700	0.014		
5710	0.013		
5720	0.014		
5730	0.01		
5740	0.008		
5750	0.011		
5760	0.011		
5770	0.012		
5780	0.011		
5790	0.017		
5800	0.013		
5810	0.013		
5820	0.009		
5830	0.012		
5840	0.013		
5850	0.009		
5860	0.01		
5870	0.008		
5880	0.01		
5890	0.011		
5900	0.01		
5910	0.012		
5920	0.012		
5930	0.012		
5940	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5950	0.008		
5960	0.009		
5970	0.011		
5980	0.009		
5990	0.007		
6000	0.009		
6010	0.014		
6020	0.009		
6030	0.01		
6040	0.009		
6050	0.008		
6060	0.009		
6070	0.01		
6080	0.011		
6090	0.011		
6100	0.009		
6110	0.009		
6120	0.008		
6130	0.009		
6140	0.009		
6150	0.008		
6160	0.009		
6170	0.009		
6180	0.01		
6190	0.009		
6200	0.008		
6210	0.008		
6220	0.008		
6230	0.008		
6240	0.008		
6250	0.008		
6260	0.009		
6270	0.008		
6280	0.009		
6290	0.009		
6300	0.009		
6310	0.009		
6320	0.008		
6330	0.01		
6340	0.009		
6350	0.009		
6360	0.01		
6370	0.013		
6380	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6390	0.01		
6400	0.01		
6410	0.01		
6420	0.011		
6430	0.009		
6440	0.007		
6450	0.008		
6460	0.008		
6470	0.008		
6480	0.011		
6490	0.008		
6500	0.008		
6510	0.008		
6520	0.007		
6530	0.007		
6540	0.007		
6550	0.007		
6560	0.007		
6570	0.009		
6580	0.01		
6590	0.009		
6600	0.008		
6610	0.01		
6620	0.009		
6630	0.008		
6640	0.007		
6650	0.009		
6660	0.007		
6670	0.008		
6680	0.01		
6690	0.01		
6700	0.008		
6710	0.01		
6720	0.009		
6730	0.011		
6740	0.012		
6750	0.011		
6760	0.009		
6770	0.012		
6780	0.013		
6790	0.01		
6800	0.008		
6810	0.014		
6820	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6830	0.013		
6840	0.011		
6850	0.01		
6860	0.012		
6870	0.015		
6880	0.013		
6890	0.014		
6900	0.01		
6910	0.008		
6920	0.007		
6930	0.011		
6940	0.014		
6950	0.009		
6960	0.01		
6970	0.01		
6980	0.008		
6990	0.012		
7000	0.012		
7010	0.01		
7020	0.009		
7030	0.012		
7040	0.01		
7050	0.007		
7060	0.008		
7070	0.008		
7080	0.011		
7090	0.009		
7100	0.009		
7110	0.009		
7120	0.012		
7130	0.01		
7140	0.011		
7150	0.008		
7160	0.01		
7170	0.008		
7180	0.007		
7190	0.008		
7200	0.01		
7210	0.013		
7220	0.009		
7230	0.008		
7240	0.01		
7250	0.008		
7260	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7270	0.013		
7280	0.009		
7290	0.009		
7300	0.01		
7310	0.007		
7320	0.012		
7330	0.012		
7340	0.01		
7350	0.008		
7360	0.012		
7370	0.008		
7380	0.012		
7390	0.01		
7400	0.012		
7410	0.01		
7420	0.009		
7430	0.011		
7440	0.01		
7450	0.008		
7460	0.01		
7470	0.01		
7480	0.008		
7490	0.007		
7500	0.011		
7510	0.012		
7520	0.011		
7530	0.01		
7540	0.01		
7550	0.007		
7560	0.008		
7570	0.007		
7580	0.008		
7590	0.008		
7600	0.008		
7610	0.007		
7620	0.007		
7630	0.009		
7640	0.007		
7650	0.009		
7660	0.007		
7670	0.007		
7680	0.007		
7690	0.007		
7700	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7710	0.009		
7720	0.008		
7730	0.008		
7740	0.008		
7750	0.009		
7760	0.01		
7770	0.01		
7780	0.009		
7790	0.008		
7800	0.008		
7810	0.008		
7820	0.006		
7830	0.007		
7840	0.006		
7850	0.01		
7860	0.009		
7870	0.007		
7880	0.007		
7890	0.007		
7900	0.007		
7910	0.006		
7920	0.006		
7930	0.006		
7940	0.006		
7950	0.006		
7960	0.007		
7970	0.006		
7980	0.006		
7990	0.006		
8000	0.006		
8010	0.006		
8020	0.006		
8030	0.006		
8040	0.005		
8050	0.005		
8060	0.005		
8070	0.006		
8080	0.006		
8090	0.006		
8100	0.006		
8110	0.006		
8120	0.006		
8130	0.006		
8140	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8150	0.006		
8160	0.006		
8170	0.006		
8180	0.007		
8190	0.009		
8200	0.008		
8210	0.009		
8220	0.007		
8230	0.006		
8240	0.007		
8250	0.009		
8260	0.007		
8270	0.012		
8280	0.007		
8290	0.008		
8300	0.006		
8310	0.007		
8320	0.007		
8330	0.006		
8340	0.007		
8350	0.007		
8360	0.006		
8370	0.006		
8380	0.007		
8390	0.008		
8400	0.007		
8410	0.006		
8420	0.007		
8430	0.006		
8440	0.007		
8450	0.006		
8460	0.007		
8470	0.007		
8480	0.006		
8490	0.007		
8500	0.007		
8510	0.009		
8520	0.007		
8530	0.006		
8540	0.008		
8550	0.009		
8560	0.009		
8570	0.01		
8580	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8590	0.008		
8600	0.007		
8610	0.008		
8620	0.006		
8630	0.007		
8640	0.008		
8650	0.007		
8660	0.007		
8670	0.006		
8680	0.006		
8690	0.007		
8700	0.007		
8710	0.006		
8720	0.007		
8730	0.007		
8740	0.009		
8750	0.008		
8760	0.008		
8770	0.009		
8780	0.007		
8790	0.008		
8800	0.008		
8810	0.008		
8820	0.008		
8830	0.008		
8840	0.008		
8850	0.007		
8860	0.007		
8870	0.007		
8880	0.006		
8890	0.006		
8900	0.006		
8910	0.006		
8920	0.007		
8930	0.007		
8940	0.007		
8950	0.007		
8960	0.007		
8970	0.008		
8980	0.007		
8990	0.007		
9000	0.008		
9010	0.007		
9020	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9030	0.007		
9040	0.007		
9050	0.007		
9060	0.008		
9070	0.008		
9080	0.008		
9090	0.007		
9100	0.007		
9110	0.007		
9120	0.007		
9130	0.007		
9140	0.008		
9150	0.018		
9160	0.01		
9170	0.01		
9180	0.008		
9190	0.008		
9200	0.008		
9210	0.008		
9220	0.007		
9230	0.008		
9240	0.008		
9250	0.01		
9260	0.009		
9270	0.008		
9280	0.01		
9290	0.011		
9300	0.008		
9310	0.007		
9320	0.008		
9330	0.007		
9340	0.007		
9350	0.006		
9360	0.007		
9370	0.008		
9380	0.009		
9390	0.015		
9400	0.013		
9410	0.011		
9420	0.01		
9430	0.012		
9440	0.008		
9450	0.008		
9460	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9470	0.009		
9480	0.013		
9490	0.01		
9500	0.008		
9510	0.007		
9520	0.007		
9530	0.007		
9540	0.008		
9550	0.007		
9560	0.007		
9570	0.008		
9580	0.009		
9590	0.008		
9600	0.008		
9610	0.01		
9620	0.01		
9630	0.007		
9640	0.007		
9650	0.011		
9660	0.01		
9670	0.007		
9680	0.008		
9690	0.008		
9700	0.007		
9710	0.007		
9720	0.01		
9730	0.008		
9740	0.007		
9750	0.007		
9760	0.013		
9770	0.009		
9780	0.009		
9790	0.007		
9800	0.006		
9810	0.008		
9820	0.008		
9830	0.007		
9840	0.008		
9850	0.007		
9860	0.007		
9870	0.007		
9880	0.007		
9890	0.007		
9900	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9910	0.013		
9920	0.008		
9930	0.007		
9940	0.007		
9950	0.008		
9960	0.008		
9970	0.007		
9980	0.006		
9990	0.007		
10000	0.009		
10010	0.01		
10020	0.008		
10030	0.008		
10040	0.008		
10050	0.01		
10060	0.008		
10070	0.008		
10080	0.007		
10090	0.009		
10100	0.007		
10110	0.01		
10120	0.008		
10130	0.007		
10140	0.007		
10150	0.009		
10160	0.007		
10170	0.007		
10180	0.007		
10190	0.006		
10200	0.011		
10210	0.009		
10220	0.007		
10230	0.008		
10240	0.008		
10250	0.01		
10260	0.008		
10270	0.007		
10280	0.007		
10290	0.008		
10300	0.009		
10310	0.007		
10320	0.008		
10330	0.006		
10340	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10350	0.007		
10360	0.011		
10370	0.009		
10380	0.007		
10390	0.008		
10400	0.011		
10410	0.014		
10420	0.009		
10430	0.01		
10440	0.006		
10450	0.007		
10460	0.007		
10470	0.007		
10480	0.011		
10490	0.009		
10500	0.008		
10510	0.01		
10520	0.01		
10530	0.009		
10540	0.009		
10550	0.007		
10560	0.007		
10570	0.007		
10580	0.006		
10590	0.007		
10600	0.006		
10610	0.007		
10620	0.006		
10630	0.006		
10640	0.007		
10650	0.006		
10660	0.006		
10670	0.007		
10680	0.006		
10690	0.007		
10700	0.007		
10710	0.008		
10720	0.007		
10730	0.007		
10740	0.007		
10750	0.022		
10760	0.007		
10770	0.006		
10780	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10790	0.007		
10800	0.012		
10810	0.007		
10820	0.006		
10830	0.007		
10840	0.007		
10850	0.007		
10860	0.008		
10870	0.006		
10880	0.006		
10890	0.006		
10900	0.006		
10910	0.007		
10920	0.007		
10930	0.011		
10940	0.02		
10950	0.017		
10960	0.002		
10970	0		
10980	0		Flow Error
10990	0		Flow Error
11000	0.002		Flow Error
11010	0.003		Flow Error
11020	0.008		Flow Error
11030	0		Flow Error
11040	0.001		Flow Error
11050	0		Flow Error
11060	0		Flow Error
11070	0.002		Flow Error
11080	0		Flow Error
11090	0		Flow Error
11100	0		Flow Error
11110	0		Flow Error
11120	0		Flow Error
11130	0		Flow Error
11140	0.001		Flow Error
11150	0.006		Flow Error
11160	0		Flow Error
11170	0		Flow Error
11180	0.001		Flow Error
11190	0		Flow Error
11200	0		Flow Error
11425	0		
11430	0		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11440	0		
11450	0		Flow Error
11460	0		Flow Error
11470	0		Flow Error

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	8:16:33 AM
Test Start Date	12/7/2016
Test Length [D:H:M]	0:01:12
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.009
Mass Minimum [mg/m3]	0.005
Mass Maximum [mg/m3]	0.047
Mass TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	437

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.005		
20	0.006		
30	0.006		
40	0.006		
50	0.006		
60	0.014		
70	0.006		
80	0.006		
90	0.006		
100	0.006		
110	0.006		
120	0.006		
130	0.015		
140	0.047		
150	0.022		
160	0.014		
170	0.011		
180	0.011		
190	0.008		
200	0.008		
210	0.009		
220	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.007		
240	0.007		
250	0.01		
260	0.009		
270	0.009		
280	0.007		
290	0.006		
300	0.011		
310	0.012		
320	0.01		
330	0.009		
340	0.008		
350	0.007		
360	0.009		
370	0.007		
380	0.008		
390	0.009		
400	0.008		
410	0.008		
420	0.008		
430	0.008		
440	0.008		
450	0.007		
460	0.009		
470	0.013		
480	0.017		
490	0.017		
500	0.014		
510	0.011		
520	0.011		
530	0.016		
540	0.018		
550	0.012		
560	0.01		
570	0.008		
580	0.009		
590	0.008		
600	0.008		
610	0.009		
620	0.008		
630	0.007		
640	0.006		
650	0.009		
660	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.008		
680	0.007		
690	0.007		
700	0.008		
710	0.01		
720	0.01		
730	0.009		
740	0.008		
750	0.007		
760	0.007		
770	0.007		
780	0.007		
790	0.01		
800	0.008		
810	0.008		
820	0.007		
830	0.007		
840	0.009		
850	0.022		
860	0.029		
870	0.02		
880	0.011		
890	0.01		
900	0.01		
910	0.009		
920	0.009		
930	0.008		
940	0.008		
950	0.008		
960	0.008		
970	0.008		
980	0.008		
990	0.008		
1000	0.009		
1010	0.01		
1020	0.008		
1030	0.007		
1040	0.007		
1050	0.011		
1060	0.009		
1070	0.009		
1080	0.009		
1090	0.009		
1100	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.013		
1120	0.017		
1130	0.01		
1140	0.012		
1150	0.009		
1160	0.009		
1170	0.008		
1180	0.008		
1190	0.009		
1200	0.009		
1210	0.009		
1220	0.008		
1230	0.008		
1240	0.009		
1250	0.008		
1260	0.007		
1270	0.007		
1280	0.008		
1290	0.008		
1300	0.007		
1310	0.008		
1320	0.008		
1330	0.008		
1340	0.008		
1350	0.008		
1360	0.009		
1370	0.008		
1380	0.008		
1390	0.007		
1400	0.007		
1410	0.008		
1420	0.008		
1430	0.009		
1440	0.009		
1450	0.008		
1460	0.008		
1470	0.008		
1480	0.008		
1490	0.008		
1500	0.007		
1510	0.007		
1520	0.008		
1530	0.008		
1540	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.008		
1560	0.007		
1570	0.007		
1580	0.007		
1590	0.008		
1600	0.007		
1610	0.008		
1620	0.007		
1630	0.008		
1640	0.008		
1650	0.009		
1660	0.009		
1670	0.008		
1680	0.008		
1690	0.008		
1700	0.008		
1710	0.008		
1720	0.007		
1730	0.008		
1740	0.007		
1750	0.007		
1760	0.007		
1770	0.007		
1780	0.009		
1790	0.008		
1800	0.008		
1810	0.007		
1820	0.007		
1830	0.007		
1840	0.008		
1850	0.008		
1860	0.009		
1870	0.008		
1880	0.008		
1890	0.008		
1900	0.007		
1910	0.008		
1920	0.007		
1930	0.007		
1940	0.007		
1950	0.007		
1960	0.007		
1970	0.007		
1980	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.008		
2000	0.008		
2010	0.007		
2020	0.008		
2030	0.008		
2040	0.009		
2050	0.008		
2060	0.008		
2070	0.007		
2080	0.008		
2090	0.007		
2100	0.011		
2110	0.01		
2120	0.008		
2130	0.008		
2140	0.008		
2150	0.007		
2160	0.007		
2170	0.008		
2180	0.008		
2190	0.008		
2200	0.007		
2210	0.008		
2220	0.008		
2230	0.008		
2240	0.009		
2250	0.008		
2260	0.008		
2270	0.009		
2280	0.012		
2290	0.008		
2300	0.008		
2310	0.008		
2320	0.008		
2330	0.008		
2340	0.007		
2350	0.007		
2360	0.008		
2370	0.008		
2380	0.007		
2390	0.008		
2400	0.008		
2410	0.008		
2420	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.008		
2440	0.008		
2450	0.009		
2460	0.008		
2470	0.008		
2480	0.009		
2490	0.01		
2500	0.009		
2510	0.009		
2520	0.011		
2530	0.01		
2540	0.009		
2550	0.009		
2560	0.009		
2570	0.009		
2580	0.016		
2590	0.022		
2600	0.018		
2610	0.011		
2620	0.01		
2630	0.009		
2640	0.008		
2650	0.01		
2660	0.008		
2670	0.008		
2680	0.008		
2690	0.009		
2700	0.009		
2710	0.01		
2720	0.009		
2730	0.009		
2740	0.01		
2750	0.01		
2760	0.009		
2770	0.009		
2780	0.008		
2790	0.007		
2800	0.008		
2810	0.008		
2820	0.008		
2830	0.008		
2840	0.008		
2850	0.008		
2860	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.011		
2880	0.011		
2890	0.01		
2900	0.009		
2910	0.008		
2920	0.008		
2930	0.007		
2940	0.008		
2950	0.008		
2960	0.008		
2970	0.008		
2980	0.008		
2990	0.008		
3000	0.01		
3010	0.01		
3020	0.012		
3030	0.01		
3040	0.01		
3050	0.011		
3060	0.009		
3070	0.009		
3080	0.008		
3090	0.008		
3100	0.014		
3110	0.011		
3120	0.01		
3130	0.008		
3140	0.01		
3150	0.008		
3160	0.009		
3170	0.007		
3180	0.007		
3190	0.007		
3200	0.008		
3210	0.008		
3220	0.009		
3230	0.009		
3240	0.011		
3250	0.01		
3260	0.009		
3270	0.008		
3280	0.008		
3290	0.008		
3300	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.008		
3320	0.008		
3330	0.009		
3340	0.011		
3350	0.009		
3360	0.014		
3370	0.013		
3380	0.009		
3390	0.008		
3400	0.007		
3410	0.01		
3420	0.009		
3430	0.009		
3440	0.01		
3450	0.008		
3460	0.008		
3470	0.01		
3480	0.009		
3490	0.008		
3500	0.008		
3510	0.008		
3520	0.01		
3530	0.013		
3540	0.015		
3550	0.011		
3560	0.01		
3570	0.008		
3580	0.009		
3590	0.009		
3600	0.009		
3610	0.01		
3620	0.01		
3630	0.009		
3640	0.008		
3650	0.01		
3660	0.009		
3670	0.011		
3680	0.009		
3690	0.008		
3700	0.01		
3710	0.011		
3720	0.009		
3730	0.009		
3740	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.01		
3760	0.01		
3770	0.01		
3780	0.01		
3790	0.012		
3800	0.01		
3810	0.009		
3820	0.01		
3830	0.01		
3840	0.009		
3850	0.012		
3860	0.012		
3870	0.011		
3880	0.009		
3890	0.009		
3900	0.009		
3910	0.009		
3920	0.011		
3930	0.009		
3940	0.009		
3950	0.01		
3960	0.011		
3970	0.014		
3980	0.013		
3990	0.013		
4000	0.01		
4010	0.009		
4020	0.009		
4030	0.009		
4040	0.01		
4050	0.009		
4060	0.009		
4070	0.01		
4080	0.01		
4090	0.01		
4100	0.009		
4110	0.01		
4120	0.01		
4130	0.009		
4140	0.009		
4150	0.009		
4160	0.009		
4170	0.009		
4180	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.009		
4200	0.011		
4210	0.01		
4220	0.01		
4230	0.009		
4240	0.009		
4250	0.009		
4260	0.012		
4270	0.009		
4280	0.008		
4290	0.008		
4300	0.009		
4310	0.009		
4320	0.009		
4330	0.009		
4340	0.009		
4350	0.008		
4360	0.009		
4370	0.008		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	8:37:51 AM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:00:00
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.028
Mass Minimum [mg/m3]	0.028
Mass Maximum [mg/m3]	0.028
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.028		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): T. Palomeque (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	8:41:10 AM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:01:19
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.043
Mass Minimum [mg/m3]	0.03
Mass Maximum [mg/m3]	0.385
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	478

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.385		
20	0.065		
30	0.039		
40	0.041		
50	0.037		
60	0.041		
70	0.042		
80	0.037		
90	0.038		
100	0.041		
110	0.047		
120	0.059		
130	0.047		
140	0.041		
150	0.038		
160	0.039		
170	0.036		
180	0.039		
190	0.047		
200	0.039		
210	0.037		
220	0.039		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.04		
240	0.037		
250	0.038		
260	0.038		
270	0.036		
280	0.036		
290	0.035		
300	0.034		
310	0.034		
320	0.036		
330	0.036		
340	0.036		
350	0.034		
360	0.033		
370	0.033		
380	0.031		
390	0.03		
400	0.03		
410	0.031		
420	0.031		
430	0.031		
440	0.035		
450	0.035		
460	0.034		
470	0.034		
480	0.034		
490	0.033		
500	0.032		
510	0.032		
520	0.032		
530	0.036		
540	0.034		
550	0.035		
560	0.035		
570	0.044		
580	0.047		
590	0.043		
600	0.039		
610	0.035		
620	0.034		
630	0.035		
640	0.034		
650	0.033		
660	0.032		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.034		
680	0.035		
690	0.047		
700	0.047		
710	0.051		
720	0.046		
730	0.044		
740	0.041		
750	0.04		
760	0.04		
770	0.046		
780	0.044		
790	0.042		
800	0.04		
810	0.041		
820	0.041		
830	0.044		
840	0.046		
850	0.048		
860	0.047		
870	0.041		
880	0.039		
890	0.038		
900	0.037		
910	0.039		
920	0.041		
930	0.044		
940	0.046		
950	0.044		
960	0.042		
970	0.042		
980	0.049		
990	0.047		
1000	0.043		
1010	0.043		
1020	0.04		
1030	0.046		
1040	0.05		
1050	0.041		
1060	0.039		
1070	0.04		
1080	0.039		
1090	0.041		
1100	0.04		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.038		
1120	0.037		
1130	0.036		
1140	0.035		
1150	0.039		
1160	0.037		
1170	0.036		
1180	0.035		
1190	0.036		
1200	0.04		
1210	0.049		
1220	0.057		
1230	0.054		
1240	0.045		
1250	0.052		
1260	0.046		
1270	0.058		
1280	0.052		
1290	0.045		
1300	0.042		
1310	0.042		
1320	0.042		
1330	0.04		
1340	0.038		
1350	0.037		
1360	0.037		
1370	0.044		
1380	0.045		
1390	0.042		
1400	0.039		
1410	0.037		
1420	0.038		
1430	0.04		
1440	0.057		
1450	0.061		
1460	0.053		
1470	0.065		
1480	0.073		
1490	0.055		
1500	0.062		
1510	0.055		
1520	0.063		
1530	0.042		
1540	0.038		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.037		
1560	0.035		
1570	0.036		
1580	0.036		
1590	0.037		
1600	0.036		
1610	0.037		
1620	0.037		
1630	0.041		
1640	0.048		
1650	0.042		
1660	0.044		
1670	0.074		
1680	0.088		
1690	0.068		
1700	0.048		
1710	0.051		
1720	0.039		
1730	0.039		
1740	0.046		
1750	0.05		
1760	0.05		
1770	0.048		
1780	0.044		
1790	0.043		
1800	0.043		
1810	0.043		
1820	0.042		
1830	0.038		
1840	0.039		
1850	0.038		
1860	0.038		
1870	0.04		
1880	0.039		
1890	0.038		
1900	0.038		
1910	0.039		
1920	0.038		
1930	0.039		
1940	0.038		
1950	0.038		
1960	0.039		
1970	0.043		
1980	0.044		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.044		
2000	0.038		
2010	0.037		
2020	0.037		
2030	0.037		
2040	0.037		
2050	0.037		
2060	0.039		
2070	0.039		
2080	0.038		
2090	0.057		
2100	0.044		
2110	0.038		
2120	0.042		
2130	0.041		
2140	0.054		
2150	0.059		
2160	0.055		
2170	0.053		
2180	0.047		
2190	0.047		
2200	0.043		
2210	0.061		
2220	0.067		
2230	0.064		
2240	0.046		
2250	0.039		
2260	0.042		
2270	0.068		
2280	0.044		
2290	0.039		
2300	0.042		
2310	0.048		
2320	0.047		
2330	0.045		
2340	0.044		
2350	0.044		
2360	0.044		
2370	0.048		
2380	0.042		
2390	0.052		
2400	0.047		
2410	0.046		
2420	0.04		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.038		
2440	0.036		
2450	0.036		
2460	0.04		
2470	0.043		
2480	0.04		
2490	0.036		
2500	0.038		
2510	0.037		
2520	0.041		
2530	0.037		
2540	0.043		
2550	0.052		
2560	0.055		
2570	0.044		
2580	0.039		
2590	0.044		
2600	0.05		
2610	0.043		
2620	0.045		
2630	0.051		
2640	0.048		
2650	0.046		
2660	0.052		
2670	0.051		
2680	0.054		
2690	0.055		
2700	0.043		
2710	0.044		
2720	0.051		
2730	0.045		
2740	0.043		
2750	0.047		
2760	0.053		
2770	0.042		
2780	0.039		
2790	0.05		
2800	0.049		
2810	0.043		
2820	0.042		
2830	0.062		
2840	0.056		
2850	0.044		
2860	0.036		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.038		
2880	0.039		
2890	0.037		
2900	0.036		
2910	0.035		
2920	0.035		
2930	0.039		
2940	0.034		
2950	0.033		
2960	0.033		
2970	0.033		
2980	0.033		
2990	0.033		
3000	0.033		
3010	0.036		
3020	0.049		
3030	0.043		
3040	0.04		
3050	0.034		
3060	0.034		
3070	0.033		
3080	0.033		
3090	0.033		
3100	0.033		
3110	0.033		
3120	0.033		
3130	0.033		
3140	0.033		
3150	0.037		
3160	0.034		
3170	0.04		
3180	0.034		
3190	0.033		
3200	0.033		
3210	0.032		
3220	0.032		
3230	0.033		
3240	0.033		
3250	0.033		
3260	0.033		
3270	0.033		
3280	0.032		
3290	0.032		
3300	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.035		
3320	0.035		
3330	0.036		
3340	0.04		
3350	0.051		
3360	0.056		
3370	0.063		
3380	0.068		
3390	0.073		
3400	0.059		
3410	0.055		
3420	0.063		
3430	0.058		
3440	0.05		
3450	0.05		
3460	0.047		
3470	0.043		
3480	0.041		
3490	0.046		
3500	0.04		
3510	0.035		
3520	0.036		
3530	0.042		
3540	0.045		
3550	0.053		
3560	0.068		
3570	0.061		
3580	0.062		
3590	0.053		
3600	0.056		
3610	0.045		
3620	0.058		
3630	0.06		
3640	0.058		
3650	0.048		
3660	0.049		
3670	0.052		
3680	0.044		
3690	0.038		
3700	0.056		
3710	0.063		
3720	0.051		
3730	0.052		
3740	0.047		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.049		
3760	0.037		
3770	0.043		
3780	0.048		
3790	0.047		
3800	0.043		
3810	0.052		
3820	0.037		
3830	0.036		
3840	0.035		
3850	0.05		
3860	0.052		
3870	0.039		
3880	0.054		
3890	0.056		
3900	0.06		
3910	0.051		
3920	0.039		
3930	0.059		
3940	0.059		
3950	0.039		
3960	0.041		
3970	0.04		
3980	0.038		
3990	0.037		
4000	0.037		
4010	0.054		
4020	0.076		
4030	0.073		
4040	0.066		
4050	0.051		
4060	0.05		
4070	0.049		
4080	0.048		
4090	0.041		
4100	0.054		
4110	0.064		
4120	0.072		
4130	0.083		
4140	0.081		
4150	0.059		
4160	0.056		
4170	0.054		
4180	0.053		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.04		
4200	0.04		
4210	0.036		
4220	0.035		
4230	0.036		
4240	0.035		
4250	0.039		
4260	0.038		
4270	0.037		
4280	0.035		
4290	0.035		
4300	0.034		
4310	0.034		
4320	0.036		
4330	0.047		
4340	0.043		
4350	0.04		
4360	0.042		
4370	0.039		
4380	0.038		
4390	0.037		
4400	0.036		
4410	0.035		
4420	0.034		
4430	0.035		
4440	0.034		
4450	0.034		
4460	0.034		
4470	0.033		
4480	0.033		
4490	0.034		
4500	0.034		
4510	0.034		
4520	0.033		
4530	0.034		
4540	0.034		
4550	0.034		
4560	0.033		
4570	0.034		
4580	0.033		
4590	0.033		
4600	0.034		
4610	0.034		
4620	0.033		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.034		
4640	0.035		
4650	0.034		
4660	0.034		
4670	0.034		
4680	0.034		
4690	0.034		
4700	0.034		
4710	0.033		
4720	0.033		
4730	0.033		
4740	0.033		
4750	0.033		
4760	0.034		
4770	0.033		
4780	0.034		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	1:01:21 PM
Test Start Date	12/7/2016
Test Length [D:H:M]	0:01:53
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.007
Mass Minimum [mg/m3]	0.005
Mass Maximum [mg/m3]	0.084
Mass TWA [mg/m3]	0.002
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	680

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.084		
20	0.008		
30	0.009		
40	0.007		
50	0.008		
60	0.007		
70	0.008		
80	0.009		
90	0.008		
100	0.008		
110	0.009		
120	0.008		
130	0.008		
140	0.008		
150	0.008		
160	0.008		
170	0.008		
180	0.008		
190	0.007		
200	0.007		
210	0.008		
220	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.008		
240	0.007		
250	0.009		
260	0.009		
270	0.014		
280	0.011		
290	0.01		
300	0.01		
310	0.011		
320	0.009		
330	0.008		
340	0.007		
350	0.007		
360	0.008		
370	0.008		
380	0.008		
390	0.008		
400	0.007		
410	0.008		
420	0.01		
430	0.008		
440	0.009		
450	0.008		
460	0.006		
470	0.007		
480	0.007		
490	0.008		
500	0.008		
510	0.006		
520	0.006		
530	0.007		
540	0.007		
550	0.008		
560	0.008		
570	0.007		
580	0.007		
590	0.007		
600	0.006		
610	0.007		
620	0.007		
630	0.007		
640	0.008		
650	0.008		
660	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.006		
680	0.007		
690	0.007		
700	0.007		
710	0.007		
720	0.008		
730	0.007		
740	0.008		
750	0.007		
760	0.007		
770	0.006		
780	0.006		
790	0.007		
800	0.007		
810	0.006		
820	0.007		
830	0.007		
840	0.007		
850	0.007		
860	0.006		
870	0.007		
880	0.007		
890	0.006		
900	0.007		
910	0.007		
920	0.007		
930	0.006		
940	0.007		
950	0.006		
960	0.007		
970	0.007		
980	0.006		
990	0.006		
1000	0.006		
1010	0.007		
1020	0.007		
1030	0.006		
1040	0.006		
1050	0.006		
1060	0.007		
1070	0.008		
1080	0.007		
1090	0.006		
1100	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.006		
1120	0.006		
1130	0.007		
1140	0.007		
1150	0.006		
1160	0.007		
1170	0.007		
1180	0.007		
1190	0.006		
1200	0.006		
1210	0.006		
1220	0.006		
1230	0.006		
1240	0.006		
1250	0.006		
1260	0.006		
1270	0.006		
1280	0.007		
1290	0.006		
1300	0.006		
1310	0.006		
1320	0.006		
1330	0.006		
1340	0.006		
1350	0.007		
1360	0.007		
1370	0.007		
1380	0.006		
1390	0.007		
1400	0.007		
1410	0.006		
1420	0.007		
1430	0.006		
1440	0.007		
1450	0.009		
1460	0.007		
1470	0.006		
1480	0.007		
1490	0.006		
1500	0.007		
1510	0.006		
1520	0.006		
1530	0.007		
1540	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.007		
1560	0.006		
1570	0.007		
1580	0.007		
1590	0.007		
1600	0.007		
1610	0.007		
1620	0.008		
1630	0.007		
1640	0.009		
1650	0.008		
1660	0.008		
1670	0.008		
1680	0.007		
1690	0.007		
1700	0.007		
1710	0.006		
1720	0.007		
1730	0.007		
1740	0.007		
1750	0.008		
1760	0.008		
1770	0.007		
1780	0.007		
1790	0.008		
1800	0.007		
1810	0.007		
1820	0.008		
1830	0.01		
1840	0.015		
1850	0.014		
1860	0.012		
1870	0.01		
1880	0.009		
1890	0.01		
1900	0.013		
1910	0.009		
1920	0.007		
1930	0.008		
1940	0.007		
1950	0.007		
1960	0.01		
1970	0.019		
1980	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.013		
2000	0.01		
2010	0.011		
2020	0.008		
2030	0.008		
2040	0.008		
2050	0.007		
2060	0.007		
2070	0.007		
2080	0.007		
2090	0.009		
2100	0.011		
2110	0.011		
2120	0.011		
2130	0.009		
2140	0.008		
2150	0.007		
2160	0.008		
2170	0.008		
2180	0.009		
2190	0.007		
2200	0.008		
2210	0.008		
2220	0.007		
2230	0.008		
2240	0.007		
2250	0.009		
2260	0.01		
2270	0.008		
2280	0.01		
2290	0.009		
2300	0.008		
2310	0.008		
2320	0.007		
2330	0.008		
2340	0.014		
2350	0.011		
2360	0.008		
2370	0.007		
2380	0.006		
2390	0.006		
2400	0.007		
2410	0.006		
2420	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.006		
2440	0.006		
2450	0.007		
2460	0.007		
2470	0.008		
2480	0.009		
2490	0.01		
2500	0.01		
2510	0.01		
2520	0.007		
2530	0.007		
2540	0.006		
2550	0.006		
2560	0.007		
2570	0.006		
2580	0.006		
2590	0.006		
2600	0.007		
2610	0.007		
2620	0.007		
2630	0.007		
2640	0.006		
2650	0.007		
2660	0.007		
2670	0.006		
2680	0.006		
2690	0.006		
2700	0.006		
2710	0.006		
2720	0.006		
2730	0.006		
2740	0.006		
2750	0.006		
2760	0.006		
2770	0.006		
2780	0.006		
2790	0.006		
2800	0.006		
2810	0.006		
2820	0.006		
2830	0.006		
2840	0.006		
2850	0.006		
2860	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.006		
2880	0.006		
2890	0.006		
2900	0.007		
2910	0.006		
2920	0.007		
2930	0.008		
2940	0.007		
2950	0.007		
2960	0.007		
2970	0.006		
2980	0.006		
2990	0.007		
3000	0.007		
3010	0.006		
3020	0.006		
3030	0.006		
3040	0.006		
3050	0.006		
3060	0.006		
3070	0.006		
3080	0.006		
3090	0.006		
3100	0.006		
3110	0.006		
3120	0.006		
3130	0.007		
3140	0.006		
3150	0.006		
3160	0.006		
3170	0.006		
3180	0.006		
3190	0.006		
3200	0.006		
3210	0.006		
3220	0.005		
3230	0.006		
3240	0.006		
3250	0.006		
3260	0.008		
3270	0.007		
3280	0.006		
3290	0.006		
3300	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.006		
3320	0.008		
3330	0.006		
3340	0.006		
3350	0.005		
3360	0.006		
3370	0.006		
3380	0.005		
3390	0.007		
3400	0.007		
3410	0.006		
3420	0.005		
3430	0.006		
3440	0.005		
3450	0.005		
3460	0.005		
3470	0.005		
3480	0.005		
3490	0.005		
3500	0.005		
3510	0.006		
3520	0.006		
3530	0.01		
3540	0.015		
3550	0.012		
3560	0.009		
3570	0.008		
3580	0.006		
3590	0.007		
3600	0.006		
3610	0.006		
3620	0.005		
3630	0.006		
3640	0.007		
3650	0.006		
3660	0.006		
3670	0.005		
3680	0.006		
3690	0.006		
3700	0.005		
3710	0.006		
3720	0.006		
3730	0.006		
3740	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.006		
3760	0.006		
3770	0.005		
3780	0.005		
3790	0.005		
3800	0.007		
3810	0.005		
3820	0.005		
3830	0.005		
3840	0.005		
3850	0.005		
3860	0.005		
3870	0.005		
3880	0.006		
3890	0.006		
3900	0.006		
3910	0.005		
3920	0.005		
3930	0.005		
3940	0.005		
3950	0.005		
3960	0.005		
3970	0.005		
3980	0.005		
3990	0.005		
4000	0.005		
4010	0.005		
4020	0.005		
4030	0.005		
4040	0.006		
4050	0.006		
4060	0.006		
4070	0.008		
4080	0.008		
4090	0.007		
4100	0.007		
4110	0.007		
4120	0.007		
4130	0.006		
4140	0.005		
4150	0.005		
4160	0.006		
4170	0.005		
4180	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.006		
4200	0.005		
4210	0.005		
4220	0.005		
4230	0.005		
4240	0.005		
4250	0.005		
4260	0.005		
4270	0.006		
4280	0.005		
4290	0.005		
4300	0.005		
4310	0.005		
4320	0.005		
4330	0.005		
4340	0.005		
4350	0.005		
4360	0.005		
4370	0.005		
4380	0.006		
4390	0.005		
4400	0.005		
4410	0.005		
4420	0.005		
4430	0.005		
4440	0.005		
4450	0.005		
4460	0.005		
4470	0.005		
4480	0.005		
4490	0.005		
4500	0.005		
4510	0.005		
4520	0.005		
4530	0.005		
4540	0.005		
4550	0.005		
4560	0.005		
4570	0.005		
4580	0.005		
4590	0.005		
4600	0.005		
4610	0.005		
4620	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.005		
4640	0.005		
4650	0.005		
4660	0.009		
4670	0.005		
4680	0.005		
4690	0.005		
4700	0.005		
4710	0.005		
4720	0.005		
4730	0.005		
4740	0.005		
4750	0.005		
4760	0.005		
4770	0.005		
4780	0.005		
4790	0.006		
4800	0.005		
4810	0.005		
4820	0.006		
4830	0.005		
4840	0.005		
4850	0.005		
4860	0.005		
4870	0.006		
4880	0.005		
4890	0.005		
4900	0.005		
4910	0.006		
4920	0.005		
4930	0.005		
4940	0.006		
4950	0.005		
4960	0.006		
4970	0.006		
4980	0.005		
4990	0.006		
5000	0.005		
5010	0.005		
5020	0.005		
5030	0.005		
5040	0.006		
5050	0.005		
5060	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.005		
5080	0.006		
5090	0.006		
5100	0.006		
5110	0.005		
5120	0.005		
5130	0.005		
5140	0.006		
5150	0.006		
5160	0.006		
5170	0.006		
5180	0.005		
5190	0.005		
5200	0.006		
5210	0.005		
5220	0.005		
5230	0.005		
5240	0.005		
5250	0.006		
5260	0.005		
5270	0.005		
5280	0.005		
5290	0.006		
5300	0.006		
5310	0.005		
5320	0.005		
5330	0.005		
5340	0.006		
5350	0.006		
5360	0.005		
5370	0.005		
5380	0.006		
5390	0.005		
5400	0.005		
5410	0.005		
5420	0.006		
5430	0.006		
5440	0.005		
5450	0.005		
5460	0.005		
5470	0.006		
5480	0.005		
5490	0.006		
5500	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5510	0.005		
5520	0.006		
5530	0.005		
5540	0.005		
5550	0.005		
5560	0.005		
5570	0.006		
5580	0.005		
5590	0.006		
5600	0.006		
5610	0.005		
5620	0.005		
5630	0.006		
5640	0.008		
5650	0.031		
5660	0.007		
5670	0.006		
5680	0.006		
5690	0.007		
5700	0.013		
5710	0.009		
5720	0.011		
5730	0.007		
5740	0.009		
5750	0.006		
5760	0.006		
5770	0.006		
5780	0.006		
5790	0.005		
5800	0.006		
5810	0.005		
5820	0.005		
5830	0.006		
5840	0.006		
5850	0.006		
5860	0.006		
5870	0.006		
5880	0.006		
5890	0.006		
5900	0.005		
5910	0.007		
5920	0.006		
5930	0.006		
5940	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5950	0.006		
5960	0.006		
5970	0.006		
5980	0.006		
5990	0.006		
6000	0.005		
6010	0.006		
6020	0.007		
6030	0.01		
6040	0.008		
6050	0.006		
6060	0.006		
6070	0.005		
6080	0.005		
6090	0.005		
6100	0.005		
6110	0.005		
6120	0.005		
6130	0.006		
6140	0.006		
6150	0.006		
6160	0.005		
6170	0.005		
6180	0.005		
6190	0.006		
6200	0.005		
6210	0.006		
6220	0.006		
6230	0.006		
6240	0.006		
6250	0.007		
6260	0.006		
6270	0.006		
6280	0.005		
6290	0.005		
6300	0.006		
6310	0.006		
6320	0.005		
6330	0.006		
6340	0.006		
6350	0.006		
6360	0.007		
6370	0.006		
6380	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6390	0.006		
6400	0.006		
6410	0.005		
6420	0.005		
6430	0.006		
6440	0.005		
6450	0.006		
6460	0.006		
6470	0.006		
6480	0.006		
6490	0.005		
6500	0.006		
6510	0.005		
6520	0.005		
6530	0.005		
6540	0.006		
6550	0.005		
6560	0.005		
6570	0.005		
6580	0.006		
6590	0.005		
6600	0.005		
6610	0.006		
6620	0.005		
6630	0.005		
6640	0.005		
6650	0.005		
6660	0.006		
6670	0.006		
6680	0.006		
6690	0.006		
6700	0.006		
6710	0.006		
6720	0.006		
6730	0.005		
6740	0.005		
6750	0.006		
6760	0.006		
6770	0.005		
6780	0.005		
6790	0.005		
6800	0.006		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Geoprobe 6620 DT	Operator(s): L. Caballero (Cascade), A. Borden (AECOM)
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Test Name	MANUAL_009
Test Start Time	10:47:18 AM
Test Start Date	12/7/2016
Test Length [D:H:M]	0:01:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.01
Mass Minimum [mg/m3]	0.007
Mass Maximum [mg/m3]	0.067
Mass TWA [mg/m3]	0.002
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	511

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.013		
20	0.007		
30	0.016		
40	0.01		
50	0.009		
60	0.008		
70	0.008		
80	0.009		
90	0.009		
100	0.008		
110	0.009		
120	0.009		
130	0.009		
140	0.008		
150	0.008		
160	0.008		
170	0.009		
180	0.01		
190	0.01		
200	0.01		
210	0.01		
220	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.008		
240	0.009		
250	0.009		
260	0.008		
270	0.009		
280	0.008		
290	0.009		
300	0.008		
310	0.009		
320	0.008		
330	0.008		
340	0.008		
350	0.008		
360	0.008		
370	0.008		
380	0.009		
390	0.008		
400	0.008		
410	0.009		
420	0.008		
430	0.008		
440	0.009		
450	0.008		
460	0.009		
470	0.008		
480	0.008		
490	0.009		
500	0.009		
510	0.008		
520	0.008		
530	0.009		
540	0.008		
550	0.008		
560	0.009		
570	0.008		
580	0.009		
590	0.008		
600	0.008		
610	0.009		
620	0.01		
630	0.009		
640	0.009		
650	0.009		
660	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.009		
680	0.01		
690	0.012		
700	0.011		
710	0.011		
720	0.01		
730	0.009		
740	0.01		
750	0.01		
760	0.01		
770	0.01		
780	0.009		
790	0.009		
800	0.009		
810	0.009		
820	0.009		
830	0.009		
840	0.009		
850	0.008		
860	0.009		
870	0.009		
880	0.008		
890	0.009		
900	0.009		
910	0.008		
920	0.008		
930	0.01		
940	0.01		
950	0.01		
960	0.01		
970	0.008		
980	0.009		
990	0.008		
1000	0.009		
1010	0.008		
1020	0.009		
1030	0.008		
1040	0.009		
1050	0.009		
1060	0.009		
1070	0.009		
1080	0.008		
1090	0.008		
1100	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.009		
1120	0.008		
1130	0.009		
1140	0.009		
1150	0.009		
1160	0.009		
1170	0.009		
1180	0.01		
1190	0.009		
1200	0.01		
1210	0.01		
1220	0.009		
1230	0.01		
1240	0.011		
1250	0.011		
1260	0.009		
1270	0.009		
1280	0.009		
1290	0.009		
1300	0.009		
1310	0.009		
1320	0.009		
1330	0.008		
1340	0.008		
1350	0.009		
1360	0.009		
1370	0.008		
1380	0.009		
1390	0.009		
1400	0.011		
1410	0.009		
1420	0.009		
1430	0.009		
1440	0.009		
1450	0.009		
1460	0.01		
1470	0.009		
1480	0.009		
1490	0.009		
1500	0.008		
1510	0.008		
1520	0.008		
1530	0.009		
1540	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.009		
1560	0.009		
1570	0.009		
1580	0.008		
1590	0.009		
1600	0.008		
1610	0.009		
1620	0.008		
1630	0.009		
1640	0.009		
1650	0.009		
1660	0.008		
1670	0.008		
1680	0.008		
1690	0.008		
1700	0.007		
1710	0.008		
1720	0.008		
1730	0.008		
1740	0.009		
1750	0.008		
1760	0.008		
1770	0.008		
1780	0.008		
1790	0.009		
1800	0.009		
1810	0.009		
1820	0.009		
1830	0.01		
1840	0.01		
1850	0.01		
1860	0.01		
1870	0.009		
1880	0.008		
1890	0.009		
1900	0.009		
1910	0.009		
1920	0.008		
1930	0.009		
1940	0.009		
1950	0.008		
1960	0.008		
1970	0.009		
1980	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.008		
2000	0.009		
2010	0.009		
2020	0.009		
2030	0.008		
2040	0.009		
2050	0.009		
2060	0.008		
2070	0.009		
2080	0.008		
2090	0.008		
2100	0.008		
2110	0.009		
2120	0.009		
2130	0.008		
2140	0.009		
2150	0.008		
2160	0.008		
2170	0.008		
2180	0.007		
2190	0.008		
2200	0.008		
2210	0.008		
2220	0.008		
2230	0.008		
2240	0.008		
2250	0.008		
2260	0.008		
2270	0.008		
2280	0.008		
2290	0.008		
2300	0.008		
2310	0.009		
2320	0.011		
2330	0.009		
2340	0.008		
2350	0.008		
2360	0.008		
2370	0.009		
2380	0.009		
2390	0.008		
2400	0.008		
2410	0.008		
2420	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.008		
2440	0.008		
2450	0.008		
2460	0.008		
2470	0.008		
2480	0.007		
2490	0.007		
2500	0.007		
2510	0.007		
2520	0.008		
2530	0.008		
2540	0.008		
2550	0.007		
2560	0.007		
2570	0.007		
2580	0.008		
2590	0.008		
2600	0.008		
2610	0.007		
2620	0.008		
2630	0.008		
2640	0.008		
2650	0.008		
2660	0.008		
2670	0.009		
2680	0.008		
2690	0.008		
2700	0.009		
2710	0.008		
2720	0.008		
2730	0.008		
2740	0.009		
2750	0.008		
2760	0.008		
2770	0.008		
2780	0.009		
2790	0.009		
2800	0.008		
2810	0.008		
2820	0.008		
2830	0.009		
2840	0.014		
2850	0.015		
2860	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.018		
2880	0.017		
2890	0.014		
2900	0.012		
2910	0.009		
2920	0.01		
2930	0.01		
2940	0.013		
2950	0.011		
2960	0.011		
2970	0.009		
2980	0.01		
2990	0.009		
3000	0.009		
3010	0.009		
3020	0.009		
3030	0.008		
3040	0.01		
3050	0.01		
3060	0.01		
3070	0.009		
3080	0.009		
3090	0.009		
3100	0.012		
3110	0.011		
3120	0.009		
3130	0.009		
3140	0.01		
3150	0.013		
3160	0.01		
3170	0.009		
3180	0.009		
3190	0.009		
3200	0.01		
3210	0.009		
3220	0.009		
3230	0.01		
3240	0.01		
3250	0.009		
3260	0.009		
3270	0.01		
3280	0.009		
3290	0.009		
3300	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.01		
3320	0.011		
3330	0.01		
3340	0.01		
3350	0.01		
3360	0.011		
3370	0.01		
3380	0.009		
3390	0.01		
3400	0.009		
3410	0.009		
3420	0.009		
3430	0.008		
3440	0.009		
3450	0.009		
3460	0.009		
3470	0.008		
3480	0.009		
3490	0.009		
3500	0.009		
3510	0.008		
3520	0.009		
3530	0.009		
3540	0.009		
3550	0.009		
3560	0.008		
3570	0.009		
3580	0.008		
3590	0.009		
3600	0.008		
3610	0.008		
3620	0.009		
3630	0.009		
3640	0.013		
3650	0.014		
3660	0.011		
3670	0.009		
3680	0.009		
3690	0.009		
3700	0.009		
3710	0.009		
3720	0.01		
3730	0.009		
3740	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.009		
3760	0.01		
3770	0.009		
3780	0.009		
3790	0.009		
3800	0.009		
3810	0.009		
3820	0.009		
3830	0.009		
3840	0.009		
3850	0.01		
3860	0.009		
3870	0.015		
3880	0.015		
3890	0.01		
3900	0.01		
3910	0.012		
3920	0.013		
3930	0.01		
3940	0.009		
3950	0.01		
3960	0.01		
3970	0.011		
3980	0.011		
3990	0.01		
4000	0.009		
4010	0.009		
4020	0.008		
4030	0.009		
4040	0.009		
4050	0.009		
4060	0.008		
4070	0.009		
4080	0.009		
4090	0.009		
4100	0.008		
4110	0.009		
4120	0.009		
4130	0.013		
4140	0.008		
4150	0.008		
4160	0.008		
4170	0.009		
4180	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.011		
4200	0.011		
4210	0.01		
4220	0.01		
4230	0.01		
4240	0.01		
4250	0.009		
4260	0.009		
4270	0.008		
4280	0.009		
4290	0.008		
4300	0.009		
4310	0.009		
4320	0.009		
4330	0.009		
4340	0.009		
4350	0.008		
4360	0.009		
4370	0.008		
4380	0.009		
4390	0.009		
4400	0.009		
4410	0.01		
4420	0.01		
4430	0.01		
4440	0.009		
4450	0.009		
4460	0.01		
4470	0.009		
4480	0.011		
4490	0.009		
4500	0.009		
4510	0.009		
4520	0.009		
4530	0.009		
4540	0.009		
4550	0.009		
4560	0.009		
4570	0.009		
4580	0.009		
4590	0.01		
4600	0.009		
4610	0.009		
4620	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.012		
4640	0.013		
4650	0.013		
4660	0.052		
4670	0.067		
4680	0.045		
4690	0.028		
4700	0.014		
4710	0.016		
4720	0.017		
4730	0.017		
4740	0.013		
4750	0.011		
4760	0.01		
4770	0.009		
4780	0.009		
4790	0.009		
4800	0.008		
4810	0.009		
4820	0.009		
4830	0.009		
4840	0.009		
4850	0.009		
4860	0.008		
4870	0.009		
4880	0.009		
4890	0.009		
4900	0.008		
4910	0.009		
4920	0.008		
4930	0.008		
4940	0.009		
4950	0.008		
4960	0.009		
4970	0.009		
4980	0.008		
4990	0.009		
5000	0.009		
5010	0.01		
5020	0.011		
5030	0.012		
5040	0.011		
5050	0.012		
5060	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.015		
5080	0.014		
5090	0.01		
5100	0.009		
5110	0.01		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	10:51:57 AM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:00:59
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.023
Mass Minimum [mg/m3]	0.017
Mass Maximum [mg/m3]	0.174
Mass TWA [mg/m3]	0.003
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	357

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.025		
20	0.022		
30	0.174		
40	0.033		
50	0.029		
60	0.024		
70	0.025		
80	0.024		
90	0.027		
100	0.025		
110	0.033		
120	0.027		
130	0.024		
140	0.023		
150	0.024		
160	0.024		
170	0.024		
180	0.025		
190	0.024		
200	0.023		
210	0.023		
220	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.024		
240	0.024		
250	0.023		
260	0.025		
270	0.026		
280	0.027		
290	0.024		
300	0.024		
310	0.023		
320	0.029		
330	0.03		
340	0.029		
350	0.032		
360	0.034		
370	0.026		
380	0.023		
390	0.031		
400	0.025		
410	0.025		
420	0.023		
430	0.023		
440	0.023		
450	0.023		
460	0.023		
470	0.024		
480	0.023		
490	0.023		
500	0.023		
510	0.024		
520	0.026		
530	0.025		
540	0.023		
550	0.023		
560	0.023		
570	0.026		
580	0.026		
590	0.023		
600	0.032		
610	0.025		
620	0.026		
630	0.028		
640	0.026		
650	0.033		
660	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.024		
680	0.028		
690	0.024		
700	0.024		
710	0.025		
720	0.035		
730	0.026		
740	0.031		
750	0.029		
760	0.026		
770	0.024		
780	0.023		
790	0.023		
800	0.023		
810	0.023		
820	0.023		
830	0.022		
840	0.023		
850	0.038		
860	0.024		
870	0.023		
880	0.023		
890	0.025		
900	0.024		
910	0.023		
920	0.023		
930	0.024		
940	0.023		
950	0.023		
960	0.023		
970	0.024		
980	0.024		
990	0.025		
1000	0.027		
1010	0.024		
1020	0.024		
1030	0.024		
1040	0.024		
1050	0.024		
1060	0.023		
1070	0.024		
1080	0.024		
1090	0.024		
1100	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.024		
1120	0.024		
1130	0.025		
1140	0.023		
1150	0.024		
1160	0.023		
1170	0.023		
1180	0.024		
1190	0.024		
1200	0.025		
1210	0.024		
1220	0.023		
1230	0.024		
1240	0.023		
1250	0.023		
1260	0.023		
1270	0.024		
1280	0.023		
1290	0.023		
1300	0.024		
1310	0.025		
1320	0.024		
1330	0.024		
1340	0.023		
1350	0.023		
1360	0.024		
1370	0.024		
1380	0.024		
1390	0.024		
1400	0.025		
1410	0.024		
1420	0.023		
1430	0.025		
1440	0.028		
1450	0.027		
1460	0.028		
1470	0.026		
1480	0.026		
1490	0.025		
1500	0.025		
1510	0.028		
1520	0.028		
1530	0.027		
1540	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.024		
1560	0.024		
1570	0.024		
1580	0.023		
1590	0.024		
1600	0.023		
1610	0.024		
1620	0.024		
1630	0.034		
1640	0.032		
1650	0.027		
1660	0.026		
1670	0.023		
1680	0.024		
1690	0.097		
1700	0.036		
1710	0.031		
1720	0.035		
1730	0.026		
1740	0.023		
1750	0.024		
1760	0.026		
1770	0.022		
1780	0.021		
1790	0.022		
1800	0.022		
1810	0.02		
1820	0.02		
1830	0.02		
1840	0.02		
1850	0.025		
1860	0.023		
1870	0.02		
1880	0.02		
1890	0.02		
1900	0.02		
1910	0.021		
1920	0.021		
1930	0.02		
1940	0.02		
1950	0.02		
1960	0.02		
1970	0.022		
1980	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.019		
2000	0.019		
2010	0.02		
2020	0.02		
2030	0.02		
2040	0.019		
2050	0.019		
2060	0.021		
2070	0.019		
2080	0.02		
2090	0.026		
2100	0.031		
2110	0.022		
2120	0.019		
2130	0.02		
2140	0.019		
2150	0.021		
2160	0.036		
2170	0.021		
2180	0.019		
2190	0.019		
2200	0.018		
2210	0.019		
2220	0.02		
2230	0.023		
2240	0.021		
2250	0.02		
2260	0.022		
2270	0.02		
2280	0.019		
2290	0.02		
2300	0.019		
2310	0.019		
2320	0.021		
2330	0.019		
2340	0.024		
2350	0.02		
2360	0.019		
2370	0.018		
2380	0.02		
2390	0.018		
2400	0.019		
2410	0.019		
2420	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.018		
2440	0.018		
2450	0.019		
2460	0.018		
2470	0.018		
2480	0.02		
2490	0.019		
2500	0.023		
2510	0.024		
2520	0.021		
2530	0.021		
2540	0.02		
2550	0.025		
2560	0.022		
2570	0.023		
2580	0.021		
2590	0.02		
2600	0.019		
2610	0.019		
2620	0.018		
2630	0.018		
2640	0.018		
2650	0.026		
2660	0.024		
2670	0.021		
2680	0.02		
2690	0.019		
2700	0.018		
2710	0.018		
2720	0.018		
2730	0.018		
2740	0.018		
2750	0.019		
2760	0.022		
2770	0.019		
2780	0.019		
2790	0.018		
2800	0.018		
2810	0.025		
2820	0.021		
2830	0.023		
2840	0.023		
2850	0.019		
2860	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.018		
2880	0.019		
2890	0.02		
2900	0.019		
2910	0.019		
2920	0.019		
2930	0.021		
2940	0.018		
2950	0.02		
2960	0.018		
2970	0.018		
2980	0.018		
2990	0.018		
3000	0.018		
3010	0.018		
3020	0.019		
3030	0.018		
3040	0.02		
3050	0.018		
3060	0.018		
3070	0.018		
3080	0.018		
3090	0.019		
3100	0.019		
3110	0.026		
3120	0.022		
3130	0.02		
3140	0.02		
3150	0.019		
3160	0.019		
3170	0.019		
3180	0.027		
3190	0.021		
3200	0.019		
3210	0.02		
3220	0.02		
3230	0.018		
3240	0.026		
3250	0.023		
3260	0.038		
3270	0.024		
3280	0.033		
3290	0.022		
3300	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.018		
3320	0.018		
3330	0.018		
3340	0.02		
3350	0.019		
3360	0.021		
3370	0.023		
3380	0.02		
3390	0.018		
3400	0.018		
3410	0.02		
3420	0.019		
3430	0.017		
3440	0.019		
3450	0.018		
3460	0.017		
3470	0.018		
3480	0.018		
3490	0.018		
3500	0.019		
3510	0.018		
3520	0.021		
3530	0.018		
3540	0.017		
3550	0.017		
3560	0.017		
3570	0.017		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	12:49:16 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:13
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.013
Mass Minimum [mg/m3]	0.005
Mass Maximum [mg/m3]	0.079
Mass TWA [mg/m3]	0.005
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1163

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.079		
20	0.022		
30	0.017		
40	0.014		
50	0.011		
60	0.011		
70	0.011		
80	0.011		
90	0.011		
100	0.012		
110	0.014		
120	0.016		
130	0.014		
140	0.011		
150	0.015		
160	0.012		
170	0.011		
180	0.012		
190	0.011		
200	0.012		
210	0.012		
220	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.012		
240	0.014		
250	0.013		
260	0.013		
270	0.013		
280	0.013		
290	0.014		
300	0.013		
310	0.011		
320	0.011		
330	0.011		
340	0.012		
350	0.013		
360	0.012		
370	0.011		
380	0.011		
390	0.011		
400	0.011		
410	0.011		
420	0.011		
430	0.011		
440	0.012		
450	0.011		
460	0.011		
470	0.011		
480	0.011		
490	0.012		
500	0.011		
510	0.011		
520	0.013		
530	0.02		
540	0.015		
550	0.012		
560	0.011		
570	0.013		
580	0.012		
590	0.013		
600	0.014		
610	0.015		
620	0.013		
630	0.012		
640	0.012		
650	0.012		
660	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.012		
680	0.011		
690	0.012		
700	0.012		
710	0.012		
720	0.013		
730	0.011		
740	0.011		
750	0.011		
760	0.01		
770	0.011		
780	0.011		
790	0.012		
800	0.012		
810	0.011		
820	0.011		
830	0.011		
840	0.012		
850	0.013		
860	0.014		
870	0.012		
880	0.011		
890	0.011		
900	0.013		
910	0.021		
920	0.022		
930	0.013		
940	0.012		
950	0.011		
960	0.012		
970	0.011		
980	0.011		
990	0.012		
1000	0.011		
1010	0.012		
1020	0.012		
1030	0.011		
1040	0.014		
1050	0.012		
1060	0.011		
1070	0.016		
1080	0.018		
1090	0.017		
1100	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.016		
1120	0.025		
1130	0.018		
1140	0.012		
1150	0.014		
1160	0.014		
1170	0.013		
1180	0.013		
1190	0.01		
1200	0.01		
1210	0.011		
1220	0.011		
1230	0.01		
1240	0.01		
1250	0.01		
1260	0.011		
1270	0.01		
1280	0.01		
1290	0.011		
1300	0.01		
1310	0.012		
1320	0.01		
1330	0.009		
1340	0.015		
1350	0.012		
1360	0.01		
1370	0.009		
1380	0.009		
1390	0.01		
1400	0.01		
1410	0.01		
1420	0.015		
1430	0.011		
1440	0.009		
1450	0.009		
1460	0.009		
1470	0.009		
1480	0.009		
1490	0.009		
1500	0.009		
1510	0.009		
1520	0.009		
1530	0.009		
1540	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.009		
1560	0.009		
1570	0.012		
1580	0.009		
1590	0.009		
1600	0.009		
1610	0.009		
1620	0.012		
1630	0.009		
1640	0.009		
1650	0.009		
1660	0.009		
1670	0.009		
1680	0.009		
1690	0.009		
1700	0.009		
1710	0.009		
1720	0.014		
1730	0.019		
1740	0.013		
1750	0.013		
1760	0.011		
1770	0.009		
1780	0.009		
1790	0.009		
1800	0.012		
1810	0.02		
1820	0.021		
1830	0.011		
1840	0.009		
1850	0.01		
1860	0.009		
1870	0.009		
1880	0.01		
1890	0.01		
1900	0.011		
1910	0.011		
1920	0.011		
1930	0.011		
1940	0.011		
1950	0.011		
1960	0.013		
1970	0.013		
1980	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.01		
2000	0.009		
2010	0.009		
2020	0.009		
2030	0.009		
2040	0.008		
2050	0.011		
2060	0.011		
2070	0.01		
2080	0.01		
2090	0.01		
2100	0.01		
2110	0.009		
2120	0.01		
2130	0.009		
2140	0.011		
2150	0.015		
2160	0.013		
2170	0.01		
2180	0.01		
2190	0.01		
2200	0.01		
2210	0.015		
2220	0.012		
2230	0.01		
2240	0.012		
2250	0.011		
2260	0.01		
2270	0.011		
2280	0.016		
2290	0.013		
2300	0.016		
2310	0.014		
2320	0.011		
2330	0.011		
2340	0.012		
2350	0.013		
2360	0.013		
2370	0.012		
2380	0.014		
2390	0.011		
2400	0.011		
2410	0.011		
2420	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.011		
2440	0.011		
2450	0.013		
2460	0.011		
2470	0.011		
2480	0.011		
2490	0.012		
2500	0.012		
2510	0.011		
2520	0.011		
2530	0.012		
2540	0.011		
2550	0.012		
2560	0.011		
2570	0.014		
2580	0.013		
2590	0.013		
2600	0.011		
2610	0.012		
2620	0.014		
2630	0.012		
2640	0.011		
2650	0.013		
2660	0.012		
2670	0.011		
2680	0.012		
2690	0.015		
2700	0.015		
2710	0.012		
2720	0.011		
2730	0.011		
2740	0.014		
2750	0.014		
2760	0.012		
2770	0.011		
2780	0.011		
2790	0.011		
2800	0.012		
2810	0.012		
2820	0.014		
2830	0.014		
2840	0.017		
2850	0.011		
2860	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.014		
2880	0.015		
2890	0.014		
2900	0.011		
2910	0.011		
2920	0.012		
2930	0.012		
2940	0.013		
2950	0.014		
2960	0.013		
2970	0.012		
2980	0.013		
2990	0.013		
3000	0.014		
3010	0.013		
3020	0.012		
3030	0.012		
3040	0.011		
3050	0.011		
3060	0.012		
3070	0.011		
3080	0.011		
3090	0.012		
3100	0.011		
3110	0.011		
3120	0.011		
3130	0.011		
3140	0.011		
3150	0.011		
3160	0.012		
3170	0.014		
3180	0.014		
3190	0.015		
3200	0.016		
3210	0.015		
3220	0.015		
3230	0.013		
3240	0.013		
3250	0.013		
3260	0.013		
3270	0.013		
3280	0.012		
3290	0.013		
3300	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.014		
3320	0.013		
3330	0.014		
3340	0.015		
3350	0.015		
3360	0.012		
3370	0.012		
3380	0.012		
3390	0.015		
3400	0.013		
3410	0.012		
3420	0.011		
3430	0.012		
3440	0.012		
3450	0.011		
3460	0.011		
3470	0.01		
3480	0.01		
3490	0.01		
3500	0.011		
3510	0.009		
3520	0.009		
3530	0.01		
3540	0.011		
3550	0.01		
3560	0.01		
3570	0.014		
3580	0.014		
3590	0.011		
3600	0.012		
3610	0.011		
3620	0.016		
3630	0.018		
3640	0.014		
3650	0.013		
3660	0.013		
3670	0.013		
3680	0.01		
3690	0.009		
3700	0.01		
3710	0.01		
3720	0.01		
3730	0.01		
3740	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.009		
3760	0.009		
3770	0.01		
3780	0.01		
3790	0.009		
3800	0.009		
3810	0.01		
3820	0.009		
3830	0.01		
3840	0.011		
3850	0.012		
3860	0.01		
3870	0.009		
3880	0.009		
3890	0.009		
3900	0.012		
3910	0.011		
3920	0.011		
3930	0.01		
3940	0.012		
3950	0.01		
3960	0.011		
3970	0.011		
3980	0.012		
3990	0.01		
4000	0.012		
4010	0.012		
4020	0.011		
4030	0.011		
4040	0.009		
4050	0.01		
4060	0.011		
4070	0.009		
4080	0.008		
4090	0.008		
4100	0.009		
4110	0.008		
4120	0.008		
4130	0.008		
4140	0.008		
4150	0.008		
4160	0.008		
4170	0.008		
4180	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.01		
4200	0.008		
4210	0.008		
4220	0.007		
4230	0.008		
4240	0.008		
4250	0.008		
4260	0.009		
4270	0.008		
4280	0.009		
4290	0.008		
4300	0.008		
4310	0.008		
4320	0.008		
4330	0.016		
4340	0.013		
4350	0.009		
4360	0.009		
4370	0.007		
4380	0.007		
4390	0.006		
4400	0.007		
4410	0.008		
4420	0.008		
4430	0.006		
4440	0.006		
4450	0.006		
4460	0.008		
4470	0.007		
4480	0.006		
4490	0.007		
4500	0.009		
4510	0.008		
4520	0.009		
4530	0.009		
4540	0.012		
4550	0.009		
4560	0.007		
4570	0.006		
4580	0.008		
4590	0.007		
4600	0.007		
4610	0.007		
4620	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.006		
4640	0.014		
4650	0.008		
4660	0.007		
4670	0.007		
4680	0.012		
4690	0.011		
4700	0.008		
4710	0.009		
4720	0.007		
4730	0.006		
4740	0.007		
4750	0.007		
4760	0.006		
4770	0.007		
4780	0.008		
4790	0.008		
4800	0.007		
4810	0.011		
4820	0.01		
4830	0.008		
4840	0.007		
4850	0.007		
4860	0.008		
4870	0.008		
4880	0.008		
4890	0.008		
4900	0.008		
4910	0.008		
4920	0.012		
4930	0.009		
4940	0.008		
4950	0.007		
4960	0.007		
4970	0.006		
4980	0.005		
4990	0.006		
5000	0.007		
5010	0.007		
5020	0.007		
5030	0.008		
5040	0.009		
5050	0.009		
5060	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.006		
5080	0.006		
5090	0.006		
5100	0.006		
5110	0.009		
5120	0.009		
5130	0.007		
5140	0.007		
5150	0.007		
5160	0.006		
5170	0.008		
5180	0.007		
5190	0.006		
5200	0.007		
5210	0.006		
5220	0.006		
5230	0.007		
5240	0.01		
5250	0.01		
5260	0.009		
5270	0.009		
5280	0.007		
5290	0.007		
5300	0.007		
5310	0.007		
5320	0.006		
5330	0.006		
5340	0.007		
5350	0.007		
5360	0.008		
5370	0.007		
5380	0.006		
5390	0.007		
5400	0.009		
5410	0.009		
5420	0.009		
5430	0.009		
5440	0.007		
5450	0.007		
5460	0.006		
5470	0.006		
5480	0.008		
5490	0.009		
5500	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5510	0.014		
5520	0.01		
5530	0.008		
5540	0.007		
5550	0.006		
5560	0.007		
5570	0.008		
5580	0.007		
5590	0.007		
5600	0.008		
5610	0.008		
5620	0.008		
5630	0.007		
5640	0.007		
5650	0.007		
5660	0.009		
5670	0.008		
5680	0.009		
5690	0.007		
5700	0.007		
5710	0.007		
5720	0.008		
5730	0.007		
5740	0.007		
5750	0.009		
5760	0.009		
5770	0.01		
5780	0.009		
5790	0.009		
5800	0.008		
5810	0.008		
5820	0.008		
5830	0.007		
5840	0.009		
5850	0.009		
5860	0.01		
5870	0.009		
5880	0.013		
5890	0.013		
5900	0.011		
5910	0.02		
5920	0.018		
5930	0.011		
5940	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5950	0.011		
5960	0.009		
5970	0.013		
5980	0.011		
5990	0.013		
6000	0.014		
6010	0.012		
6020	0.01		
6030	0.011		
6040	0.012		
6050	0.014		
6060	0.011		
6070	0.009		
6080	0.015		
6090	0.015		
6100	0.009		
6110	0.008		
6120	0.008		
6130	0.015		
6140	0.013		
6150	0.011		
6160	0.013		
6170	0.011		
6180	0.011		
6190	0.01		
6200	0.013		
6210	0.01		
6220	0.012		
6230	0.01		
6240	0.01		
6250	0.01		
6260	0.016		
6270	0.013		
6280	0.014		
6290	0.012		
6300	0.011		
6310	0.013		
6320	0.011		
6330	0.011		
6340	0.01		
6350	0.012		
6360	0.011		
6370	0.009		
6380	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6390	0.012		
6400	0.016		
6410	0.011		
6420	0.01		
6430	0.01		
6440	0.009		
6450	0.011		
6460	0.011		
6470	0.01		
6480	0.018		
6490	0.015		
6500	0.012		
6510	0.011		
6520	0.01		
6530	0.01		
6540	0.011		
6550	0.01		
6560	0.015		
6570	0.015		
6580	0.013		
6590	0.013		
6600	0.012		
6610	0.01		
6620	0.01		
6630	0.011		
6640	0.011		
6650	0.01		
6660	0.01		
6670	0.01		
6680	0.01		
6690	0.012		
6700	0.012		
6710	0.015		
6720	0.012		
6730	0.012		
6740	0.011		
6750	0.011		
6760	0.01		
6770	0.011		
6780	0.01		
6790	0.01		
6800	0.01		
6810	0.011		
6820	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6830	0.011		
6840	0.014		
6850	0.03		
6860	0.014		
6870	0.013		
6880	0.012		
6890	0.012		
6900	0.016		
6910	0.016		
6920	0.013		
6930	0.014		
6940	0.013		
6950	0.014		
6960	0.016		
6970	0.014		
6980	0.015		
6990	0.014		
7000	0.014		
7010	0.013		
7020	0.014		
7030	0.014		
7040	0.013		
7050	0.018		
7060	0.017		
7070	0.014		
7080	0.014		
7090	0.028		
7100	0.019		
7110	0.015		
7120	0.014		
7130	0.013		
7140	0.013		
7150	0.013		
7160	0.016		
7170	0.013		
7180	0.015		
7190	0.016		
7200	0.013		
7210	0.016		
7220	0.016		
7230	0.014		
7240	0.013		
7250	0.012		
7260	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7270	0.018		
7280	0.015		
7290	0.014		
7300	0.013		
7310	0.015		
7320	0.016		
7330	0.015		
7340	0.016		
7350	0.016		
7360	0.023		
7370	0.021		
7380	0.016		
7390	0.014		
7400	0.014		
7410	0.014		
7420	0.015		
7430	0.016		
7440	0.015		
7450	0.015		
7460	0.014		
7470	0.016		
7480	0.016		
7490	0.017		
7500	0.023		
7510	0.024		
7520	0.016		
7530	0.015		
7540	0.015		
7550	0.016		
7560	0.019		
7570	0.016		
7580	0.016		
7590	0.014		
7600	0.019		
7610	0.016		
7620	0.019		
7630	0.017		
7640	0.017		
7650	0.02		
7660	0.016		
7670	0.015		
7680	0.017		
7690	0.018		
7700	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7710	0.017		
7720	0.016		
7730	0.016		
7740	0.016		
7750	0.016		
7760	0.015		
7770	0.017		
7780	0.017		
7790	0.015		
7800	0.016		
7810	0.016		
7820	0.016		
7830	0.017		
7840	0.021		
7850	0.022		
7860	0.021		
7870	0.017		
7880	0.023		
7890	0.019		
7900	0.017		
7910	0.018		
7920	0.017		
7930	0.015		
7940	0.018		
7950	0.018		
7960	0.024		
7970	0.017		
7980	0.019		
7990	0.018		
8000	0.015		
8010	0.018		
8020	0.018		
8030	0.017		
8040	0.017		
8050	0.016		
8060	0.015		
8070	0.016		
8080	0.019		
8090	0.017		
8100	0.016		
8110	0.017		
8120	0.015		
8130	0.015		
8140	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8150	0.014		
8160	0.014		
8170	0.014		
8180	0.014		
8190	0.015		
8200	0.015		
8210	0.017		
8220	0.016		
8230	0.015		
8240	0.015		
8250	0.015		
8260	0.014		
8270	0.017		
8280	0.016		
8290	0.014		
8300	0.014		
8310	0.015		
8320	0.017		
8330	0.017		
8340	0.015		
8350	0.015		
8360	0.014		
8370	0.018		
8380	0.015		
8390	0.017		
8400	0.018		
8410	0.027		
8420	0.022		
8430	0.017		
8440	0.017		
8450	0.02		
8460	0.017		
8470	0.014		
8480	0.016		
8490	0.019		
8500	0.02		
8510	0.021		
8520	0.02		
8530	0.016		
8540	0.017		
8550	0.016		
8560	0.016		
8570	0.019		
8580	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8590	0.015		
8600	0.015		
8610	0.016		
8620	0.058		
8630	0.07		
8640	0.033		
8650	0.024		
8660	0.019		
8670	0.015		
8680	0.019		
8690	0.018		
8700	0.016		
8710	0.016		
8720	0.02		
8730	0.018		
8740	0.017		
8750	0.017		
8760	0.017		
8770	0.023		
8780	0.016		
8790	0.017		
8800	0.021		
8810	0.018		
8820	0.015		
8830	0.014		
8840	0.013		
8850	0.015		
8860	0.014		
8870	0.013		
8880	0.014		
8890	0.015		
8900	0.015		
8910	0.019		
8920	0.017		
8930	0.015		
8940	0.014		
8950	0.014		
8960	0.016		
8970	0.015		
8980	0.014		
8990	0.015		
9000	0.019		
9010	0.017		
9020	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9030	0.018		
9040	0.016		
9050	0.017		
9060	0.015		
9070	0.015		
9080	0.015		
9090	0.014		
9100	0.013		
9110	0.013		
9120	0.014		
9130	0.014		
9140	0.014		
9150	0.015		
9160	0.016		
9170	0.019		
9180	0.019		
9190	0.015		
9200	0.014		
9210	0.015		
9220	0.018		
9230	0.018		
9240	0.016		
9250	0.014		
9260	0.016		
9270	0.014		
9280	0.013		
9290	0.016		
9300	0.013		
9310	0.014		
9320	0.014		
9330	0.014		
9340	0.013		
9350	0.014		
9360	0.013		
9370	0.014		
9380	0.014		
9390	0.02		
9400	0.017		
9410	0.016		
9420	0.016		
9430	0.019		
9440	0.017		
9450	0.017		
9460	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9470	0.017		
9480	0.016		
9490	0.015		
9500	0.013		
9510	0.014		
9520	0.014		
9530	0.013		
9540	0.013		
9550	0.013		
9560	0.014		
9570	0.015		
9580	0.012		
9590	0.013		
9600	0.014		
9610	0.021		
9620	0.015		
9630	0.015		
9640	0.013		
9650	0.012		
9660	0.014		
9670	0.013		
9680	0.012		
9690	0.012		
9700	0.013		
9710	0.018		
9720	0.016		
9730	0.015		
9740	0.013		
9750	0.012		
9760	0.012		
9770	0.013		
9780	0.013		
9790	0.013		
9800	0.013		
9810	0.013		
9820	0.016		
9830	0.018		
9840	0.018		
9850	0.018		
9860	0.018		
9870	0.017		
9880	0.018		
9890	0.017		
9900	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9910	0.015		
9920	0.017		
9930	0.014		
9940	0.015		
9950	0.014		
9960	0.014		
9970	0.014		
9980	0.014		
9990	0.017		
10000	0.023		
10010	0.016		
10020	0.016		
10030	0.015		
10040	0.017		
10050	0.016		
10060	0.018		
10070	0.017		
10080	0.014		
10090	0.014		
10100	0.014		
10110	0.014		
10120	0.013		
10130	0.013		
10140	0.013		
10150	0.013		
10160	0.013		
10170	0.014		
10180	0.016		
10190	0.016		
10200	0.016		
10210	0.015		
10220	0.015		
10230	0.014		
10240	0.014		
10250	0.015		
10260	0.018		
10270	0.015		
10280	0.019		
10290	0.015		
10300	0.015		
10310	0.014		
10320	0.013		
10330	0.014		
10340	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10350	0.015		
10360	0.014		
10370	0.017		
10380	0.014		
10390	0.013		
10400	0.013		
10410	0.013		
10420	0.014		
10430	0.016		
10440	0.015		
10450	0.017		
10460	0.014		
10470	0.015		
10480	0.014		
10490	0.014		
10500	0.014		
10510	0.014		
10520	0.013		
10530	0.015		
10540	0.015		
10550	0.018		
10560	0.017		
10570	0.014		
10580	0.014		
10590	0.013		
10600	0.013		
10610	0.015		
10620	0.017		
10630	0.015		
10640	0.015		
10650	0.015		
10660	0.017		
10670	0.016		
10680	0.016		
10690	0.018		
10700	0.018		
10710	0.016		
10720	0.015		
10730	0.014		
10740	0.015		
10750	0.015		
10760	0.016		
10770	0.016		
10780	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10790	0.015		
10800	0.015		
10810	0.014		
10820	0.014		
10830	0.014		
10840	0.014		
10850	0.016		
10860	0.02		
10870	0.017		
10880	0.017		
10890	0.017		
10900	0.019		
10910	0.02		
10920	0.017		
10930	0.017		
10940	0.015		
10950	0.015		
10960	0.015		
10970	0.015		
10980	0.015		
10990	0.015		
11000	0.014		
11010	0.014		
11020	0.014		
11030	0.014		
11040	0.015		
11050	0.016		
11060	0.016		
11070	0.018		
11080	0.018		
11090	0.018		
11100	0.016		
11110	0.017		
11120	0.02		
11130	0.016		
11140	0.016		
11150	0.015		
11160	0.016		
11170	0.017		
11180	0.018		
11190	0.017		
11200	0.017		
11210	0.015		
11220	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11230	0.016		
11240	0.016		
11250	0.018		
11260	0.02		
11270	0.021		
11280	0.017		
11290	0.017		
11300	0.016		
11310	0.016		
11320	0.021		
11330	0.021		
11340	0.02		
11350	0.018		
11360	0.015		
11370	0.015		
11380	0.015		
11390	0.016		
11400	0.017		
11410	0.016		
11420	0.015		
11430	0.015		
11440	0.014		
11450	0.015		
11460	0.015		
11470	0.016		
11480	0.016		
11490	0.015		
11500	0.015		
11510	0.015		
11520	0.016		
11530	0.016		
11540	0.016		
11550	0.015		
11560	0.017		
11570	0.016		
11580	0.017		
11590	0.016		
11600	0.017		
11610	0.015		
11620	0.016		
11630	0.016		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Geoprobe 6620 DT Operator(s): L. Caballero (Cascade), A. Borden (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	9:15:16 AM
Test Start Date	12/12/2016
Test Length [D:H:M]	0:06:58
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.016
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.036
Mass TWA [mg/m3]	0.014
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	2513

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.008		
20	0.009		
30	0.02		
40	0.032		
50	0.016		
60	0.015		
70	0.011		
80	0.017		
90	0.019		
100	0.009		
110	0.009		
120	0.009		
130	0.008		
140	0.008		
150	0.009		
160	0.007		
170	0.007		
180	0.007		
190	0.008		
200	0.011		
210	0.012		
220	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.007		
240	0.008		
250	0.007		
260	0.009		
270	0.007		
280	0.007		
290	0.007		
300	0.008		
310	0.009		
320	0.01		
330	0.009		
340	0.008		
350	0.01		
360	0.008		
370	0.015		
380	0.013		
390	0.011		
400	0.008		
410	0.007		
420	0.011		
430	0.008		
440	0.01		
450	0.015		
460	0.009		
470	0.011		
480	0.01		
490	0.007		
500	0.015		
510	0.01		
520	0.007		
530	0.007		
540	0.007		
550	0.022		
560	0.01		
570	0.008		
580	0.007		
590	0.007		
600	0.006		
610	0.006		
620	0.006		
630	0.006		
640	0.006		
650	0.007		
660	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.007		
680	0.006		
690	0.007		
700	0.007		
710	0.006		
720	0.006		
730	0.007		
740	0.006		
750	0.006		
760	0.006		
770	0.018		
780	0.015		
790	0.009		
800	0.008		
810	0.014		
820	0.009		
830	0.007		
840	0.007		
850	0.008		
860	0.007		
870	0.007		
880	0.007		
890	0.006		
900	0.006		
910	0.007		
920	0.007		
930	0.006		
940	0.006		
950	0.006		
960	0.006		
970	0.006		
980	0.006		
990	0.006		
1000	0.007		
1010	0.006		
1020	0.006		
1030	0.007		
1040	0.007		
1050	0.006		
1060	0.006		
1070	0.006		
1080	0.006		
1090	0.007		
1100	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.006		
1120	0.007		
1130	0.007		
1140	0.007		
1150	0.007		
1160	0.007		
1170	0.006		
1180	0.007		
1190	0.007		
1200	0.007		
1210	0.007		
1220	0.007		
1230	0.007		
1240	0.006		
1250	0.007		
1260	0.007		
1270	0.007		
1280	0.007		
1290	0.007		
1300	0.007		
1310	0.007		
1320	0.007		
1330	0.007		
1340	0.006		
1350	0.007		
1360	0.007		
1370	0.007		
1380	0.008		
1390	0.008		
1400	0.013		
1410	0.008		
1420	0.008		
1430	0.009		
1440	0.007		
1450	0.007		
1460	0.008		
1470	0.007		
1480	0.007		
1490	0.008		
1500	0.008		
1510	0.008		
1520	0.008		
1530	0.008		
1540	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.011		
1560	0.009		
1570	0.008		
1580	0.008		
1590	0.008		
1600	0.01		
1610	0.011		
1620	0.011		
1630	0.012		
1640	0.012		
1650	0.013		
1660	0.014		
1670	0.012		
1680	0.013		
1690	0.018		
1700	0.016		
1710	0.014		
1720	0.015		
1730	0.016		
1740	0.016		
1750	0.016		
1760	0.015		
1770	0.014		
1780	0.015		
1790	0.018		
1800	0.018		
1810	0.015		
1820	0.015		
1830	0.017		
1840	0.018		
1850	0.017		
1860	0.019		
1870	0.019		
1880	0.02		
1890	0.019		
1900	0.017		
1910	0.019		
1920	0.018		
1930	0.019		
1940	0.019		
1950	0.019		
1960	0.019		
1970	0.02		
1980	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.02		
2000	0.02		
2010	0.02		
2020	0.02		
2030	0.02		
2040	0.022		
2050	0.021		
2060	0.019		
2070	0.028		
2080	0.021		
2090	0.021		
2100	0.02		
2110	0.02		
2120	0.019		
2130	0.021		
2140	0.022		
2150	0.022		
2160	0.022		
2170	0.023		
2180	0.02		
2190	0.02		
2200	0.02		
2210	0.019		
2220	0.019		
2230	0.019		
2240	0.017		
2250	0.017		
2260	0.018		
2270	0.017		
2280	0.017		
2290	0.016		
2300	0.017		
2310	0.016		
2320	0.016		
2330	0.016		
2340	0.016		
2350	0.016		
2360	0.015		
2370	0.016		
2380	0.016		
2390	0.017		
2400	0.016		
2410	0.015		
2420	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.014		
2440	0.015		
2450	0.015		
2460	0.014		
2470	0.014		
2480	0.014		
2490	0.014		
2500	0.014		
2510	0.013		
2520	0.015		
2530	0.014		
2540	0.015		
2550	0.014		
2560	0.015		
2570	0.014		
2580	0.015		
2590	0.015		
2600	0.014		
2610	0.014		
2620	0.014		
2630	0.013		
2640	0.014		
2650	0.014		
2660	0.014		
2670	0.014		
2680	0.014		
2690	0.012		
2700	0.013		
2710	0.013		
2720	0.013		
2730	0.014		
2740	0.014		
2750	0.013		
2760	0.014		
2770	0.013		
2780	0.014		
2790	0.014		
2800	0.013		
2810	0.014		
2820	0.014		
2830	0.014		
2840	0.015		
2850	0.017		
2860	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.016		
2880	0.015		
2890	0.016		
2900	0.016		
2910	0.016		
2920	0.016		
2930	0.017		
2940	0.017		
2950	0.018		
2960	0.016		
2970	0.017		
2980	0.015		
2990	0.014		
3000	0.014		
3010	0.013		
3020	0.013		
3030	0.015		
3040	0.015		
3050	0.015		
3060	0.015		
3070	0.015		
3080	0.014		
3090	0.014		
3100	0.013		
3110	0.014		
3120	0.013		
3130	0.014		
3140	0.013		
3150	0.014		
3160	0.014		
3170	0.013		
3180	0.014		
3190	0.012		
3200	0.013		
3210	0.014		
3220	0.014		
3230	0.016		
3240	0.016		
3250	0.018		
3260	0.015		
3270	0.014		
3280	0.013		
3290	0.013		
3300	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.012		
3320	0.012		
3330	0.012		
3340	0.011		
3350	0.012		
3360	0.012		
3370	0.011		
3380	0.012		
3390	0.011		
3400	0.011		
3410	0.018		
3420	0.012		
3430	0.011		
3440	0.011		
3450	0.011		
3460	0.012		
3470	0.011		
3480	0.012		
3490	0.011		
3500	0.011		
3510	0.011		
3520	0.01		
3530	0.011		
3540	0.012		
3550	0.011		
3560	0.011		
3570	0.011		
3580	0.01		
3590	0.011		
3600	0.011		
3610	0.011		
3620	0.012		
3630	0.011		
3640	0.01		
3650	0.011		
3660	0.01		
3670	0.01		
3680	0.011		
3690	0.01		
3700	0.01		
3710	0.01		
3720	0.011		
3730	0.01		
3740	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.011		
3760	0.01		
3770	0.01		
3780	0.009		
3790	0.01		
3800	0.009		
3810	0.01		
3820	0.009		
3830	0.01		
3840	0.01		
3850	0.01		
3860	0.01		
3870	0.013		
3880	0.011		
3890	0.011		
3900	0.012		
3910	0.011		
3920	0.011		
3930	0.011		
3940	0.011		
3950	0.01		
3960	0.011		
3970	0.01		
3980	0.011		
3990	0.01		
4000	0.01		
4010	0.01		
4020	0.01		
4030	0.009		
4040	0.011		
4050	0.011		
4060	0.01		
4070	0.01		
4080	0.009		
4090	0.01		
4100	0.01		
4110	0.01		
4120	0.011		
4130	0.01		
4140	0.01		
4150	0.01		
4160	0.01		
4170	0.011		
4180	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.01		
4200	0.011		
4210	0.01		
4220	0.011		
4230	0.011		
4240	0.012		
4250	0.012		
4260	0.011		
4270	0.011		
4280	0.011		
4290	0.011		
4300	0.011		
4310	0.011		
4320	0.012		
4330	0.011		
4340	0.012		
4350	0.011		
4360	0.011		
4370	0.011		
4380	0.011		
4390	0.011		
4400	0.011		
4410	0.011		
4420	0.011		
4430	0.011		
4440	0.011		
4450	0.012		
4460	0.011		
4470	0.012		
4480	0.011		
4490	0.012		
4500	0.012		
4510	0.013		
4520	0.012		
4530	0.012		
4540	0.012		
4550	0.013		
4560	0.015		
4570	0.015		
4580	0.015		
4590	0.015		
4600	0.015		
4610	0.016		
4620	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.016		
4640	0.021		
4650	0.019		
4660	0.019		
4670	0.021		
4680	0.021		
4690	0.02		
4700	0.019		
4710	0.02		
4720	0.02		
4730	0.02		
4740	0.02		
4750	0.019		
4760	0.019		
4770	0.019		
4780	0.022		
4790	0.023		
4800	0.025		
4810	0.025		
4820	0.025		
4830	0.025		
4840	0.027		
4850	0.025		
4860	0.028		
4870	0.027		
4880	0.028		
4890	0.029		
4900	0.028		
4910	0.029		
4920	0.029		
4930	0.03		
4940	0.029		
4950	0.028		
4960	0.029		
4970	0.028		
4980	0.029		
4990	0.03		
5000	0.029		
5010	0.03		
5020	0.028		
5030	0.028		
5040	0.028		
5050	0.028		
5060	0.029		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.03		
5080	0.028		
5090	0.029		
5100	0.029		
5110	0.028		
5120	0.029		
5130	0.029		
5140	0.029		
5150	0.029		
5160	0.03		
5170	0.029		
5180	0.028		
5190	0.029		
5200	0.028		
5210	0.027		
5220	0.029		
5230	0.028		
5240	0.028		
5250	0.027		
5260	0.026		
5270	0.025		
5280	0.026		
5290	0.027		
5300	0.028		
5310	0.025		
5320	0.025		
5330	0.025		
5340	0.025		
5350	0.026		
5360	0.025		
5370	0.026		
5380	0.025		
5390	0.024		
5400	0.025		
5410	0.024		
5420	0.026		
5430	0.025		
5440	0.026		
5450	0.025		
5460	0.024		
5470	0.025		
5480	0.026		
5490	0.026		
5500	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5510	0.024		
5520	0.025		
5530	0.024		
5540	0.024		
5550	0.023		
5560	0.024		
5570	0.024		
5580	0.024		
5590	0.024		
5600	0.024		
5610	0.023		
5620	0.025		
5630	0.024		
5640	0.024		
5650	0.026		
5660	0.025		
5670	0.026		
5680	0.024		
5690	0.025		
5700	0.024		
5710	0.026		
5720	0.026		
5730	0.026		
5740	0.025		
5750	0.025		
5760	0.025		
5770	0.023		
5780	0.025		
5790	0.026		
5800	0.026		
5810	0.026		
5820	0.026		
5830	0.025		
5840	0.026		
5850	0.026		
5860	0.026		
5870	0.026		
5880	0.027		
5890	0.026		
5900	0.026		
5910	0.028		
5920	0.027		
5930	0.026		
5940	0.027		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5950	0.027		
5960	0.027		
5970	0.025		
5980	0.027		
5990	0.025		
6000	0.025		
6010	0.024		
6020	0.026		
6030	0.027		
6040	0.026		
6050	0.025		
6060	0.025		
6070	0.023		
6080	0.026		
6090	0.024		
6100	0.024		
6110	0.023		
6120	0.024		
6130	0.026		
6140	0.025		
6150	0.026		
6160	0.025		
6170	0.023		
6180	0.023		
6190	0.023		
6200	0.023		
6210	0.023		
6220	0.023		
6230	0.023		
6240	0.023		
6250	0.024		
6260	0.023		
6270	0.023		
6280	0.024		
6290	0.024		
6300	0.025		
6310	0.024		
6320	0.024		
6330	0.025		
6340	0.024		
6350	0.023		
6360	0.023		
6370	0.022		
6380	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6390	0.023		
6400	0.022		
6410	0.022		
6420	0.022		
6430	0.022		
6440	0.02		
6450	0.021		
6460	0.021		
6470	0.022		
6480	0.022		
6490	0.021		
6500	0.023		
6510	0.023		
6520	0.02		
6530	0.02		
6540	0.021		
6550	0.021		
6560	0.019		
6570	0.019		
6580	0.019		
6590	0.018		
6600	0.019		
6610	0.019		
6620	0.018		
6630	0.019		
6640	0.018		
6650	0.019		
6660	0.019		
6670	0.019		
6680	0.019		
6690	0.017		
6700	0.018		
6710	0.017		
6720	0.018		
6730	0.018		
6740	0.018		
6750	0.018		
6760	0.017		
6770	0.015		
6780	0.016		
6790	0.016		
6800	0.015		
6810	0.015		
6820	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6830	0.015		
6840	0.014		
6850	0.015		
6860	0.013		
6870	0.013		
6880	0.014		
6890	0.013		
6900	0.014		
6910	0.013		
6920	0.014		
6930	0.013		
6940	0.013		
6950	0.012		
6960	0.012		
6970	0.012		
6980	0.012		
6990	0.012		
7000	0.013		
7010	0.013		
7020	0.013		
7030	0.013		
7040	0.013		
7050	0.013		
7060	0.012		
7070	0.012		
7080	0.011		
7090	0.011		
7100	0.012		
7110	0.012		
7120	0.012		
7130	0.012		
7140	0.011		
7150	0.012		
7160	0.012		
7170	0.012		
7180	0.014		
7190	0.012		
7200	0.011		
7210	0.011		
7220	0.012		
7230	0.011		
7240	0.012		
7250	0.012		
7260	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7270	0.011		
7280	0.011		
7290	0.012		
7300	0.011		
7310	0.011		
7320	0.011		
7330	0.011		
7340	0.011		
7350	0.011		
7360	0.011		
7370	0.011		
7380	0.011		
7390	0.011		
7400	0.012		
7410	0.011		
7420	0.012		
7430	0.012		
7440	0.011		
7450	0.011		
7460	0.011		
7470	0.011		
7480	0.011		
7490	0.011		
7500	0.011		
7510	0.011		
7520	0.011		
7530	0.011		
7540	0.011		
7550	0.011		
7560	0.011		
7570	0.011		
7580	0.011		
7590	0.011		
7600	0.011		
7610	0.011		
7620	0.011		
7630	0.011		
7640	0.011		
7650	0.011		
7660	0.011		
7670	0.011		
7680	0.011		
7690	0.011		
7700	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7710	0.011		
7720	0.011		
7730	0.011		
7740	0.011		
7750	0.011		
7760	0.011		
7770	0.011		
7780	0.011		
7790	0.012		
7800	0.011		
7810	0.011		
7820	0.011		
7830	0.011		
7840	0.011		
7850	0.011		
7860	0.011		
7870	0.011		
7880	0.011		
7890	0.011		
7900	0.011		
7910	0.011		
7920	0.01		
7930	0.011		
7940	0.011		
7950	0.011		
7960	0.011		
7970	0.01		
7980	0.011		
7990	0.01		
8000	0.011		
8010	0.011		
8020	0.011		
8030	0.011		
8040	0.01		
8050	0.011		
8060	0.011		
8070	0.011		
8080	0.011		
8090	0.011		
8100	0.012		
8110	0.011		
8120	0.012		
8130	0.01		
8140	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8150	0.011		
8160	0.012		
8170	0.011		
8180	0.011		
8190	0.011		
8200	0.011		
8210	0.011		
8220	0.011		
8230	0.011		
8240	0.011		
8250	0.011		
8260	0.011		
8270	0.01		
8280	0.012		
8290	0.01		
8300	0.012		
8310	0.011		
8320	0.011		
8330	0.011		
8340	0.011		
8350	0.011		
8360	0.01		
8370	0.011		
8380	0.011		
8390	0.01		
8400	0.011		
8410	0.012		
8420	0.011		
8430	0.011		
8440	0.011		
8450	0.011		
8460	0.012		
8470	0.011		
8480	0.011		
8490	0.012		
8500	0.012		
8510	0.012		
8520	0.012		
8530	0.012		
8540	0.012		
8550	0.012		
8560	0.013		
8570	0.012		
8580	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8590	0.012		
8600	0.012		
8610	0.011		
8620	0.012		
8630	0.011		
8640	0.011		
8650	0.012		
8660	0.012		
8670	0.012		
8680	0.011		
8690	0.012		
8700	0.011		
8710	0.011		
8720	0.011		
8730	0.011		
8740	0.012		
8750	0.012		
8760	0.011		
8770	0.012		
8780	0.012		
8790	0.011		
8800	0.012		
8810	0.012		
8820	0.011		
8830	0.012		
8840	0.012		
8850	0.012		
8860	0.012		
8870	0.012		
8880	0.012		
8890	0.012		
8900	0.012		
8910	0.012		
8920	0.012		
8930	0.011		
8940	0.012		
8950	0.012		
8960	0.011		
8970	0.011		
8980	0.011		
8990	0.011		
9000	0.011		
9010	0.012		
9020	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9030	0.012		
9040	0.011		
9050	0.011		
9060	0.012		
9070	0.012		
9080	0.013		
9090	0.012		
9100	0.012		
9110	0.012		
9120	0.012		
9130	0.012		
9140	0.012		
9150	0.012		
9160	0.012		
9170	0.012		
9180	0.013		
9190	0.012		
9200	0.011		
9210	0.011		
9220	0.012		
9230	0.012		
9240	0.012		
9250	0.012		
9260	0.012		
9270	0.012		
9280	0.013		
9290	0.012		
9300	0.012		
9310	0.012		
9320	0.012		
9330	0.011		
9340	0.012		
9350	0.011		
9360	0.012		
9370	0.012		
9380	0.012		
9390	0.012		
9400	0.012		
9410	0.012		
9420	0.012		
9430	0.012		
9440	0.013		
9450	0.013		
9460	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9470	0.012		
9480	0.012		
9490	0.012		
9500	0.012		
9510	0.012		
9520	0.013		
9530	0.012		
9540	0.012		
9550	0.012		
9560	0.012		
9570	0.012		
9580	0.012		
9590	0.012		
9600	0.012		
9610	0.012		
9620	0.013		
9630	0.013		
9640	0.013		
9650	0.012		
9660	0.012		
9670	0.012		
9680	0.012		
9690	0.012		
9700	0.012		
9710	0.012		
9720	0.012		
9730	0.012		
9740	0.012		
9750	0.012		
9760	0.013		
9770	0.012		
9780	0.012		
9790	0.011		
9800	0.011		
9810	0.011		
9820	0.012		
9830	0.012		
9840	0.012		
9850	0.012		
9860	0.012		
9870	0.012		
9880	0.012		
9890	0.012		
9900	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9910	0.012		
9920	0.012		
9930	0.012		
9940	0.012		
9950	0.012		
9960	0.013		
9970	0.012		
9980	0.012		
9990	0.012		
10000	0.012		
10010	0.011		
10020	0.012		
10030	0.012		
10040	0.012		
10050	0.012		
10060	0.012		
10070	0.012		
10080	0.012		
10090	0.012		
10100	0.013		
10110	0.012		
10120	0.012		
10130	0.012		
10140	0.012		
10150	0.012		
10160	0.012		
10170	0.013		
10180	0.013		
10190	0.013		
10200	0.012		
10210	0.012		
10220	0.012		
10230	0.012		
10240	0.013		
10250	0.012		
10260	0.013		
10270	0.012		
10280	0.012		
10290	0.012		
10300	0.012		
10310	0.012		
10320	0.012		
10330	0.012		
10340	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10350	0.013		
10360	0.013		
10370	0.013		
10380	0.012		
10390	0.012		
10400	0.013		
10410	0.013		
10420	0.012		
10430	0.013		
10440	0.013		
10450	0.012		
10460	0.013		
10470	0.013		
10480	0.012		
10490	0.012		
10500	0.012		
10510	0.013		
10520	0.013		
10530	0.012		
10540	0.012		
10550	0.012		
10560	0.012		
10570	0.013		
10580	0.013		
10590	0.013		
10600	0.012		
10610	0.012		
10620	0.012		
10630	0.012		
10640	0.012		
10650	0.013		
10660	0.013		
10670	0.013		
10680	0.013		
10690	0.012		
10700	0.013		
10710	0.012		
10720	0.012		
10730	0.013		
10740	0.012		
10750	0.013		
10760	0.012		
10770	0.013		
10780	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10790	0.013		
10800	0.012		
10810	0.013		
10820	0.013		
10830	0.013		
10840	0.013		
10850	0.013		
10860	0.013		
10870	0.013		
10880	0.012		
10890	0.013		
10900	0.013		
10910	0.012		
10920	0.013		
10930	0.012		
10940	0.013		
10950	0.013		
10960	0.013		
10970	0.013		
10980	0.013		
10990	0.013		
11000	0.012		
11010	0.013		
11020	0.013		
11030	0.013		
11040	0.012		
11050	0.013		
11060	0.013		
11070	0.013		
11080	0.013		
11090	0.013		
11100	0.013		
11110	0.013		
11120	0.012		
11130	0.013		
11140	0.012		
11150	0.012		
11160	0.013		
11170	0.013		
11180	0.013		
11190	0.012		
11200	0.013		
11210	0.013		
11220	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11230	0.013		
11240	0.013		
11250	0.012		
11260	0.013		
11270	0.012		
11280	0.012		
11290	0.012		
11300	0.013		
11310	0.013		
11320	0.013		
11330	0.013		
11340	0.013		
11350	0.013		
11360	0.013		
11370	0.013		
11380	0.013		
11390	0.013		
11400	0.013		
11410	0.013		
11420	0.013		
11430	0.013		
11440	0.013		
11450	0.013		
11460	0.013		
11470	0.013		
11480	0.013		
11490	0.013		
11500	0.013		
11510	0.013		
11520	0.013		
11530	0.013		
11540	0.013		
11550	0.013		
11560	0.013		
11570	0.013		
11580	0.012		
11590	0.013		
11600	0.013		
11610	0.013		
11620	0.013		
11630	0.014		
11640	0.013		
11650	0.013		
11660	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11670	0.013		
11680	0.014		
11690	0.013		
11700	0.013		
11710	0.013		
11720	0.013		
11730	0.013		
11740	0.014		
11750	0.013		
11760	0.014		
11770	0.013		
11780	0.014		
11790	0.013		
11800	0.013		
11810	0.014		
11820	0.013		
11830	0.013		
11840	0.013		
11850	0.013		
11860	0.014		
11870	0.014		
11880	0.013		
11890	0.013		
11900	0.013		
11910	0.014		
11920	0.014		
11930	0.014		
11940	0.013		
11950	0.014		
11960	0.013		
11970	0.013		
11980	0.014		
11990	0.015		
12000	0.014		
12010	0.014		
12020	0.015		
12030	0.014		
12040	0.014		
12050	0.014		
12060	0.014		
12070	0.014		
12080	0.014		
12090	0.014		
12100	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12110	0.014		
12120	0.015		
12130	0.014		
12140	0.014		
12150	0.014		
12160	0.014		
12170	0.014		
12180	0.014		
12190	0.014		
12200	0.014		
12210	0.014		
12220	0.014		
12230	0.014		
12240	0.014		
12250	0.014		
12260	0.014		
12270	0.015		
12280	0.014		
12290	0.014		
12300	0.014		
12310	0.014		
12320	0.015		
12330	0.014		
12340	0.014		
12350	0.015		
12360	0.015		
12370	0.014		
12380	0.015		
12390	0.015		
12400	0.015		
12410	0.015		
12420	0.015		
12430	0.015		
12440	0.015		
12450	0.015		
12460	0.015		
12470	0.015		
12480	0.015		
12490	0.015		
12500	0.015		
12510	0.015		
12520	0.015		
12530	0.015		
12540	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12550	0.015		
12560	0.015		
12570	0.015		
12580	0.014		
12590	0.014		
12600	0.015		
12610	0.016		
12620	0.015		
12630	0.015		
12640	0.015		
12650	0.015		
12660	0.015		
12670	0.015		
12680	0.015		
12690	0.016		
12700	0.015		
12710	0.016		
12720	0.016		
12730	0.015		
12740	0.015		
12750	0.016		
12760	0.016		
12770	0.015		
12780	0.015		
12790	0.015		
12800	0.015		
12810	0.016		
12820	0.015		
12830	0.015		
12840	0.016		
12850	0.016		
12860	0.015		
12870	0.016		
12880	0.015		
12890	0.015		
12900	0.015		
12910	0.015		
12920	0.016		
12930	0.016		
12940	0.016		
12950	0.016		
12960	0.016		
12970	0.016		
12980	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12990	0.016		
13000	0.016		
13010	0.016		
13020	0.016		
13030	0.016		
13040	0.016		
13050	0.016		
13060	0.016		
13070	0.016		
13080	0.016		
13090	0.016		
13100	0.016		
13110	0.017		
13120	0.016		
13130	0.017		
13140	0.016		
13150	0.016		
13160	0.016		
13170	0.016		
13180	0.016		
13190	0.016		
13200	0.017		
13210	0.022		
13220	0.017		
13230	0.017		
13240	0.016		
13250	0.016		
13260	0.016		
13270	0.016		
13280	0.017		
13290	0.017		
13300	0.016		
13310	0.016		
13320	0.017		
13330	0.016		
13340	0.017		
13350	0.017		
13360	0.016		
13370	0.017		
13380	0.016		
13390	0.017		
13400	0.017		
13410	0.017		
13420	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
13430	0.017		
13440	0.017		
13450	0.018		
13460	0.017		
13470	0.018		
13480	0.017		
13490	0.017		
13500	0.017		
13510	0.017		
13520	0.018		
13530	0.018		
13540	0.018		
13550	0.018		
13560	0.018		
13570	0.018		
13580	0.017		
13590	0.017		
13600	0.018		
13610	0.018		
13620	0.018		
13630	0.017		
13640	0.017		
13650	0.018		
13660	0.018		
13670	0.018		
13680	0.018		
13690	0.017		
13700	0.018		
13710	0.018		
13720	0.02		
13730	0.018		
13740	0.018		
13750	0.018		
13760	0.018		
13770	0.018		
13780	0.018		
13790	0.018		
13800	0.018		
13810	0.018		
13820	0.019		
13830	0.018		
13840	0.018		
13850	0.018		
13860	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
13870	0.019		
13880	0.018		
13890	0.018		
13900	0.018		
13910	0.019		
13920	0.018		
13930	0.018		
13940	0.018		
13950	0.018		
13960	0.019		
13970	0.018		
13980	0.018		
13990	0.018		
14000	0.018		
14010	0.018		
14020	0.018		
14030	0.018		
14040	0.018		
14050	0.019		
14060	0.019		
14070	0.018		
14080	0.019		
14090	0.019		
14100	0.018		
14110	0.018		
14120	0.018		
14130	0.018		
14140	0.018		
14150	0.019		
14160	0.019		
14170	0.018		
14180	0.019		
14190	0.018		
14200	0.019		
14210	0.018		
14220	0.019		
14230	0.019		
14240	0.019		
14250	0.018		
14260	0.019		
14270	0.019		
14280	0.019		
14290	0.018		
14300	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14310	0.019		
14320	0.019		
14330	0.019		
14340	0.019		
14350	0.019		
14360	0.019		
14370	0.019		
14380	0.019		
14390	0.019		
14400	0.019		
14410	0.02		
14420	0.021		
14430	0.019		
14440	0.02		
14450	0.019		
14460	0.019		
14470	0.019		
14480	0.02		
14490	0.021		
14500	0.019		
14510	0.019		
14520	0.02		
14530	0.02		
14540	0.019		
14550	0.019		
14560	0.02		
14570	0.02		
14580	0.02		
14590	0.02		
14600	0.021		
14610	0.02		
14620	0.021		
14630	0.02		
14640	0.02		
14650	0.021		
14660	0.02		
14670	0.021		
14680	0.021		
14690	0.02		
14700	0.02		
14710	0.02		
14720	0.02		
14730	0.02		
14740	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14750	0.02		
14760	0.02		
14770	0.02		
14780	0.021		
14790	0.02		
14800	0.02		
14810	0.02		
14820	0.02		
14830	0.021		
14840	0.021		
14850	0.021		
14860	0.021		
14870	0.02		
14880	0.021		
14890	0.021		
14900	0.021		
14910	0.021		
14920	0.021		
14930	0.021		
14940	0.021		
14950	0.021		
14960	0.021		
14970	0.021		
14980	0.021		
14990	0.021		
15000	0.022		
15010	0.022		
15020	0.022		
15030	0.022		
15040	0.022		
15050	0.023		
15060	0.022		
15070	0.022		
15080	0.022		
15090	0.022		
15100	0.022		
15110	0.022		
15120	0.022		
15130	0.022		
15140	0.022		
15150	0.022		
15160	0.022		
15170	0.023		
15180	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15190	0.023		
15200	0.022		
15210	0.022		
15220	0.023		
15230	0.023		
15240	0.023		
15250	0.023		
15260	0.023		
15270	0.022		
15280	0.023		
15290	0.023		
15300	0.023		
15310	0.024		
15320	0.023		
15330	0.024		
15340	0.023		
15350	0.023		
15360	0.023		
15370	0.023		
15380	0.023		
15390	0.023		
15400	0.023		
15410	0.023		
15420	0.023		
15430	0.023		
15440	0.023		
15450	0.023		
15460	0.023		
15470	0.023		
15480	0.023		
15490	0.023		
15500	0.024		
15510	0.024		
15520	0.024		
15530	0.023		
15540	0.023		
15550	0.023		
15560	0.023		
15570	0.023		
15580	0.023		
15590	0.023		
15600	0.024		
15610	0.023		
15620	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15630	0.023		
15640	0.023		
15650	0.023		
15660	0.023		
15670	0.024		
15680	0.023		
15690	0.023		
15700	0.023		
15710	0.024		
15720	0.023		
15730	0.023		
15740	0.023		
15750	0.024		
15760	0.023		
15770	0.023		
15780	0.023		
15790	0.023		
15800	0.023		
15810	0.023		
15820	0.023		
15830	0.023		
15840	0.023		
15850	0.023		
15860	0.026		
15870	0.023		
15880	0.023		
15890	0.023		
15900	0.023		
15910	0.023		
15920	0.023		
15930	0.024		
15940	0.023		
15950	0.023		
15960	0.023		
15970	0.023		
15980	0.023		
15990	0.023		
16000	0.024		
16010	0.023		
16020	0.023		
16030	0.023		
16040	0.023		
16050	0.023		
16060	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16070	0.022		
16080	0.023		
16090	0.023		
16100	0.023		
16110	0.024		
16120	0.023		
16130	0.023		
16140	0.023		
16150	0.024		
16160	0.024		
16170	0.023		
16180	0.023		
16190	0.023		
16200	0.022		
16210	0.023		
16220	0.024		
16230	0.023		
16240	0.024		
16250	0.023		
16260	0.023		
16270	0.024		
16280	0.024		
16290	0.022		
16300	0.023		
16310	0.023		
16320	0.023		
16330	0.023		
16340	0.022		
16350	0.023		
16360	0.023		
16370	0.022		
16380	0.023		
16390	0.025		
16400	0.022		
16410	0.022		
16420	0.022		
16430	0.022		
16440	0.022		
16450	0.022		
16460	0.022		
16470	0.022		
16480	0.022		
16490	0.023		
16500	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16510	0.022		
16520	0.027		
16530	0.036		
16540	0.025		
16550	0.023		
16560	0.026		
16570	0.026		
16580	0.025		
16590	0.023		
16600	0.022		
16610	0.023		
16620	0.023		
16630	0.023		
16640	0.024		
16650	0.024		
16660	0.023		
16670	0.023		
16680	0.023		
16690	0.026		
16700	0.033		
16710	0.026		
16720	0.026		
16730	0.026		
16740	0.024		
16750	0.023		
16760	0.023		
16770	0.024		
16780	0.024		
16790	0.024		
16800	0.023		
16810	0.024		
16820	0.023		
16830	0.024		
16840	0.025		
16850	0.024		
16860	0.024		
16870	0.023		
16880	0.023		
16890	0.023		
16900	0.023		
16910	0.024		
16920	0.027		
16930	0.031		
16940	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16950	0.023		
16960	0.024		
16970	0.023		
16980	0.023		
16990	0.023		
17000	0.024		
17010	0.024		
17020	0.023		
17030	0.023		
17040	0.023		
17050	0.023		
17060	0.023		
17070	0.023		
17080	0.023		
17090	0.024		
17100	0.024		
17110	0.023		
17120	0.023		
17130	0.024		
17140	0.023		
17150	0.023		
17160	0.023		
17170	0.023		
17180	0.023		
17190	0.023		
17200	0.023		
17210	0.023		
17220	0.023		
17230	0.023		
17240	0.031		
17250	0.028		
17260	0.024		
17270	0.024		
17280	0.024		
17290	0.024		
17300	0.025		
17310	0.023		
17320	0.024		
17330	0.024		
17340	0.023		
17350	0.023		
17360	0.024		
17370	0.023		
17380	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17390	0.024		
17400	0.023		
17410	0.023		
17420	0.023		
17430	0.024		
17440	0.022		
17450	0.023		
17460	0.023		
17470	0.023		
17480	0.023		
17490	0.023		
17500	0.022		
17510	0.023		
17520	0.023		
17530	0.022		
17540	0.023		
17550	0.023		
17560	0.023		
17570	0.022		
17580	0.023		
17590	0.022		
17600	0.022		
17610	0.022		
17620	0.022		
17630	0.022		
17640	0.021		
17650	0.021		
17660	0.022		
17670	0.022		
17680	0.021		
17690	0.021		
17700	0.021		
17710	0.022		
17720	0.022		
17730	0.021		
17740	0.021		
17750	0.021		
17760	0.021		
17770	0.021		
17780	0.021		
17790	0.021		
17800	0.02		
17810	0.021		
17820	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17830	0.021		
17840	0.02		
17850	0.021		
17860	0.021		
17870	0.021		
17880	0.02		
17890	0.021		
17900	0.021		
17910	0.023		
17920	0.021		
17930	0.02		
17940	0.02		
17950	0.02		
17960	0.021		
17970	0.021		
17980	0.021		
17990	0.021		
18000	0.021		
18010	0.02		
18020	0.02		
18030	0.021		
18040	0.021		
18050	0.02		
18060	0.021		
18070	0.021		
18080	0.021		
18090	0.02		
18100	0.02		
18110	0.02		
18120	0.021		
18130	0.021		
18140	0.02		
18150	0.021		
18160	0.021		
18170	0.021		
18180	0.021		
18190	0.021		
18200	0.02		
18210	0.021		
18220	0.021		
18230	0.021		
18240	0.021		
18250	0.021		
18260	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
18270	0.021		
18280	0.021		
18290	0.021		
18300	0.021		
18310	0.021		
18320	0.021		
18330	0.021		
18340	0.021		
18350	0.021		
18360	0.021		
18370	0.02		
18380	0.021		
18390	0.021		
18400	0.021		
18410	0.021		
18420	0.02		
18430	0.021		
18440	0.021		
18450	0.022		
18460	0.02		
18470	0.02		
18480	0.02		
18490	0.02		
18500	0.02		
18510	0.02		
18520	0.02		
18530	0.02		
18540	0.02		
18550	0.02		
18560	0.019		
18570	0.02		
18580	0.02		
18590	0.019		
18600	0.02		
18610	0.019		
18620	0.019		
18630	0.02		
18640	0.019		
18650	0.019		
18660	0.019		
18670	0.019		
18680	0.019		
18690	0.019		
18700	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
18710	0.019		
18720	0.019		
18730	0.02		
18740	0.019		
18750	0.02		
18760	0.019		
18770	0.02		
18780	0.019		
18790	0.019		
18800	0.019		
18810	0.02		
18820	0.019		
18830	0.019		
18840	0.018		
18850	0.018		
18860	0.018		
18870	0.019		
18880	0.018		
18890	0.018		
18900	0.018		
18910	0.018		
18920	0.018		
18930	0.018		
18940	0.018		
18950	0.018		
18960	0.018		
18970	0.018		
18980	0.018		
18990	0.017		
19000	0.017		
19010	0.018		
19020	0.018		
19030	0.018		
19040	0.017		
19050	0.018		
19060	0.018		
19070	0.017		
19080	0.017		
19090	0.017		
19100	0.017		
19110	0.017		
19120	0.017		
19130	0.018		
19140	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
19150	0.018		
19160	0.018		
19170	0.017		
19180	0.017		
19190	0.017		
19200	0.017		
19210	0.017		
19220	0.018		
19230	0.017		
19240	0.017		
19250	0.017		
19260	0.017		
19270	0.017		
19280	0.017		
19290	0.017		
19300	0.017		
19310	0.018		
19320	0.017		
19330	0.017		
19340	0.017		
19350	0.017		
19360	0.016		
19370	0.017		
19380	0.016		
19390	0.017		
19400	0.016		
19410	0.017		
19420	0.016		
19430	0.016		
19440	0.017		
19450	0.016		
19460	0.016		
19470	0.016		
19480	0.017		
19490	0.017		
19500	0.017		
19510	0.017		
19520	0.016		
19530	0.016		
19540	0.016		
19550	0.017		
19560	0.017		
19570	0.016		
19580	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
19590	0.015		
19600	0.016		
19610	0.016		
19620	0.016		
19630	0.016		
19640	0.016		
19650	0.016		
19660	0.016		
19670	0.015		
19680	0.016		
19690	0.016		
19700	0.015		
19710	0.016		
19720	0.015		
19730	0.016		
19740	0.016		
19750	0.016		
19760	0.017		
19770	0.016		
19780	0.017		
19790	0.016		
19800	0.017		
19810	0.015		
19820	0.016		
19830	0.016		
19840	0.016		
19850	0.016		
19860	0.016		
19870	0.016		
19880	0.016		
19890	0.016		
19900	0.017		
19910	0.016		
19920	0.016		
19930	0.016		
19940	0.016		
19950	0.016		
19960	0.016		
19970	0.016		
19980	0.016		
19990	0.016		
20000	0.016		
20010	0.016		
20020	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20030	0.015		
20040	0.016		
20050	0.016		
20060	0.016		
20070	0.015		
20080	0.016		
20090	0.017		
20100	0.016		
20110	0.016		
20120	0.016		
20130	0.016		
20140	0.016		
20150	0.016		
20160	0.016		
20170	0.015		
20180	0.015		
20190	0.016		
20200	0.016		
20210	0.016		
20220	0.016		
20230	0.016		
20240	0.015		
20250	0.016		
20260	0.016		
20270	0.016		
20280	0.016		
20290	0.015		
20300	0.015		
20310	0.015		
20320	0.016		
20330	0.015		
20340	0.016		
20350	0.016		
20360	0.016		
20370	0.016		
20380	0.016		
20390	0.016		
20400	0.016		
20410	0.016		
20420	0.016		
20430	0.015		
20440	0.016		
20450	0.016		
20460	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20470	0.016		
20480	0.015		
20490	0.015		
20500	0.016		
20510	0.016		
20520	0.015		
20530	0.016		
20540	0.014		
20550	0.015		
20560	0.015		
20570	0.015		
20580	0.015		
20590	0.015		
20600	0.015		
20610	0.015		
20620	0.015		
20630	0.015		
20640	0.015		
20650	0.015		
20660	0.016		
20670	0.015		
20680	0.015		
20690	0.015		
20700	0.015		
20710	0.015		
20720	0.015		
20730	0.015		
20740	0.015		
20750	0.015		
20760	0.015		
20770	0.015		
20780	0.015		
20790	0.016		
20800	0.016		
20810	0.016		
20820	0.017		
20830	0.015		
20840	0.016		
20850	0.015		
20860	0.015		
20870	0.016		
20880	0.015		
20890	0.016		
20900	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20910	0.015		
20920	0.015		
20930	0.015		
20940	0.015		
20950	0.015		
20960	0.015		
20970	0.015		
20980	0.014		
20990	0.015		
21000	0.015		
21010	0.015		
21020	0.016		
21030	0.015		
21040	0.016		
21050	0.016		
21060	0.015		
21070	0.015		
21080	0.015		
21090	0.015		
21100	0.016		
21110	0.016		
21120	0.018		
21130	0.016		
21140	0.016		
21150	0.016		
21160	0.015		
21170	0.015		
21180	0.015		
21190	0.015		
21200	0.015		
21210	0.015		
21220	0.014		
21230	0.015		
21240	0.015		
21250	0.016		
21260	0.015		
21270	0.014		
21280	0.014		
21290	0.015		
21300	0.015		
21310	0.014		
21320	0.015		
21330	0.015		
21340	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
21350	0.015		
21360	0.015		
21370	0.015		
21380	0.015		
21390	0.015		
21400	0.014		
21410	0.015		
21420	0.016		
21430	0.015		
21440	0.016		
21450	0.017		
21460	0.017		
21470	0.016		
21480	0.015		
21490	0.015		
21500	0.016		
21510	0.016		
21520	0.016		
21530	0.015		
21540	0.015		
21550	0.015		
21560	0.015		
21570	0.014		
21580	0.014		
21590	0.014		
21600	0.014		
21610	0.015		
21620	0.014		
21630	0.015		
21640	0.015		
21650	0.014		
21660	0.014		
21670	0.014		
21680	0.014		
21690	0.014		
21700	0.014		
21710	0.014		
21720	0.016		
21730	0.014		
21740	0.015		
21750	0.014		
21760	0.014		
21770	0.014		
21780	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
21790	0.014		
21800	0.014		
21810	0.014		
21820	0.014		
21830	0.014		
21840	0.015		
21850	0.014		
21860	0.014		
21870	0.014		
21880	0.014		
21890	0.014		
21900	0.015		
21910	0.014		
21920	0.014		
21930	0.015		
21940	0.014		
21950	0.014		
21960	0.014		
21970	0.014		
21980	0.014		
21990	0.014		
22000	0.014		
22010	0.014		
22020	0.014		
22030	0.014		
22040	0.014		
22050	0.014		
22060	0.014		
22070	0.014		
22080	0.015		
22090	0.014		
22100	0.014		
22110	0.015		
22120	0.014		
22130	0.014		
22140	0.014		
22150	0.014		
22160	0.015		
22170	0.014		
22180	0.014		
22190	0.014		
22200	0.014		
22210	0.014		
22220	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
22230	0.014		
22240	0.014		
22250	0.015		
22260	0.015		
22270	0.014		
22280	0.014		
22290	0.014		
22300	0.015		
22310	0.015		
22320	0.015		
22330	0.015		
22340	0.014		
22350	0.014		
22360	0.014		
22370	0.015		
22380	0.015		
22390	0.017		
22400	0.015		
22410	0.015		
22420	0.014		
22430	0.014		
22440	0.014		
22450	0.014		
22460	0.014		
22470	0.013		
22480	0.014		
22490	0.014		
22500	0.014		
22510	0.014		
22520	0.014		
22530	0.014		
22540	0.014		
22550	0.014		
22560	0.014		
22570	0.015		
22580	0.014		
22590	0.014		
22600	0.014		
22610	0.014		
22620	0.014		
22630	0.014		
22640	0.014		
22650	0.014		
22660	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
22670	0.014		
22680	0.015		
22690	0.016		
22700	0.014		
22710	0.014		
22720	0.014		
22730	0.014		
22740	0.014		
22750	0.014		
22760	0.014		
22770	0.014		
22780	0.014		
22790	0.014		
22800	0.014		
22810	0.014		
22820	0.015		
22830	0.016		
22840	0.014		
22850	0.015		
22860	0.014		
22870	0.014		
22880	0.014		
22890	0.014		
22900	0.014		
22910	0.014		
22920	0.015		
22930	0.015		
22940	0.016		
22950	0.016		
22960	0.015		
22970	0.014		
22980	0.014		
22990	0.014		
23000	0.014		
23010	0.014		
23020	0.018		
23030	0.017		
23040	0.016		
23050	0.016		
23060	0.016		
23070	0.016		
23080	0.015		
23090	0.014		
23100	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23110	0.015		
23120	0.014		
23130	0.014		
23140	0.014		
23150	0.014		
23160	0.014		
23170	0.014		
23180	0.014		
23190	0.014		
23200	0.014		
23210	0.014		
23220	0.014		
23230	0.014		
23240	0.014		
23250	0.014		
23260	0.014		
23270	0.014		
23280	0.015		
23290	0.015		
23300	0.014		
23310	0.014		
23320	0.014		
23330	0.015		
23340	0.014		
23350	0.015		
23360	0.016		
23370	0.013		
23380	0.015		
23390	0.014		
23400	0.014		
23410	0.014		
23420	0.014		
23430	0.014		
23440	0.014		
23450	0.014		
23460	0.015		
23470	0.015		
23480	0.014		
23490	0.014		
23500	0.014		
23510	0.014		
23520	0.014		
23530	0.015		
23540	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23550	0.015		
23560	0.015		
23570	0.014		
23580	0.015		
23590	0.014		
23600	0.014		
23610	0.015		
23620	0.014		
23630	0.014		
23640	0.014		
23650	0.014		
23660	0.014		
23670	0.014		
23680	0.015		
23690	0.014		
23700	0.014		
23710	0.014		
23720	0.014		
23730	0.014		
23740	0.014		
23750	0.014		
23760	0.014		
23770	0.014		
23780	0.014		
23790	0.014		
23800	0.014		
23810	0.014		
23820	0.015		
23830	0.013		
23840	0.014		
23850	0.014		
23860	0.014		
23870	0.014		
23880	0.015		
23890	0.015		
23900	0.015		
23910	0.015		
23920	0.015		
23930	0.015		
23940	0.015		
23950	0.014		
23960	0.014		
23970	0.014		
23980	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23990	0.014		
24000	0.014		
24010	0.014		
24020	0.013		
24030	0.014		
24040	0.014		
24050	0.014		
24060	0.014		
24070	0.013		
24080	0.014		
24090	0.014		
24100	0.015		
24110	0.015		
24120	0.015		
24130	0.015		
24140	0.014		
24150	0.015		
24160	0.015		
24170	0.015		
24180	0.017		
24190	0.015		
24200	0.014		
24210	0.014		
24220	0.013		
24230	0.014		
24240	0.014		
24250	0.014		
24260	0.015		
24270	0.014		
24280	0.014		
24290	0.014		
24300	0.014		
24310	0.014		
24320	0.014		
24330	0.014		
24340	0.013		
24350	0.013		
24360	0.014		
24370	0.014		
24380	0.014		
24390	0.014		
24400	0.014		
24410	0.014		
24420	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
24430	0.014		
24440	0.014		
24450	0.013		
24460	0.013		
24470	0.014		
24480	0.015		
24490	0.013		
24500	0.014		
24510	0.014		
24520	0.014		
24530	0.014		
24540	0.013		
24550	0.014		
24560	0.014		
24570	0.014		
24580	0.013		
24590	0.014		
24600	0.013		
24610	0.013		
24620	0.013		
24630	0.014		
24640	0.014		
24650	0.014		
24660	0.014		
24670	0.013		
24680	0.013		
24690	0.013		
24700	0.013		
24710	0.013		
24720	0.013		
24730	0.013		
24740	0.013		
24750	0.013		
24760	0.013		
24770	0.013		
24780	0.013		
24790	0.013		
24800	0.013		
24810	0.013		
24820	0.013		
24830	0.013		
24840	0.013		
24850	0.013		
24860	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
24870	0.013		
24880	0.013		
24890	0.013		
24900	0.013		
24910	0.014		
24920	0.013		
24930	0.013		
24940	0.013		
24950	0.013		
24960	0.013		
24970	0.013		
24980	0.013		
24990	0.014		
25000	0.013		
25010	0.013		
25020	0.013		
25030	0.013		
25040	0.013		
25050	0.012		
25060	0.013		
25070	0.013		
25080	0.013		
25090	0.013		
25100	0.012		
25110	0.013		
25120	0.013		
25130	0.013		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Geoprobe 6620 DT	Operator(s): L. Caballero (Cascade), A. Borden (AECOM)
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	7:39:37 AM
Test Start Date	12/13/2016
Test Length [D:H:M]	0:09:00
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.009
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.025
Mass TWA [mg/m3]	0.009
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	3245

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.009		
20	0.013		
30	0.01		
40	0.01		
50	0.015		
60	0.01		
70	0.025		
80	0.011		
90	0.012		
100	0.012		
110	0.011		
120	0.019		
130	0.014		
140	0.012		
150	0.01		
160	0.01		
170	0.01		
180	0.01		
190	0.01		
200	0.01		
210	0.014		
220	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.01		
240	0.01		
250	0.01		
260	0.01		
270	0.01		
280	0.01		
290	0.01		
300	0.01		
310	0.01		
320	0.01		
330	0.01		
340	0.011		
350	0.014		
360	0.011		
370	0.016		
380	0.01		
390	0.011		
400	0.01		
410	0.01		
420	0.01		
430	0.01		
440	0.01		
450	0.01		
460	0.01		
470	0.01		
480	0.01		
490	0.01		
500	0.01		
510	0.01		
520	0.011		
530	0.012		
540	0.011		
550	0.011		
560	0.011		
570	0.01		
580	0.01		
590	0.01		
600	0.01		
610	0.01		
620	0.01		
630	0.01		
640	0.01		
650	0.01		
660	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.01		
680	0.011		
690	0.01		
700	0.01		
710	0.011		
720	0.01		
730	0.011		
740	0.011		
750	0.01		
760	0.01		
770	0.01		
780	0.01		
790	0.01		
800	0.01		
810	0.012		
820	0.01		
830	0.01		
840	0.01		
850	0.01		
860	0.01		
870	0.01		
880	0.01		
890	0.01		
900	0.01		
910	0.01		
920	0.01		
930	0.01		
940	0.01		
950	0.01		
960	0.01		
970	0.01		
980	0.011		
990	0.01		
1000	0.01		
1010	0.011		
1020	0.011		
1030	0.01		
1040	0.01		
1050	0.01		
1060	0.01		
1070	0.01		
1080	0.01		
1090	0.01		
1100	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.01		
1120	0.01		
1130	0.01		
1140	0.011		
1150	0.012		
1160	0.013		
1170	0.012		
1180	0.011		
1190	0.01		
1200	0.01		
1210	0.01		
1220	0.01		
1230	0.01		
1240	0.01		
1250	0.01		
1260	0.011		
1270	0.01		
1280	0.01		
1290	0.01		
1300	0.011		
1310	0.01		
1320	0.01		
1330	0.01		
1340	0.01		
1350	0.011		
1360	0.011		
1370	0.011		
1380	0.012		
1390	0.01		
1400	0.01		
1410	0.013		
1420	0.014		
1430	0.013		
1440	0.011		
1450	0.012		
1460	0.011		
1470	0.01		
1480	0.01		
1490	0.01		
1500	0.01		
1510	0.01		
1520	0.01		
1530	0.01		
1540	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.01		
1560	0.01		
1570	0.01		
1580	0.01		
1590	0.01		
1600	0.01		
1610	0.01		
1620	0.01		
1630	0.01		
1640	0.01		
1650	0.011		
1660	0.011		
1670	0.01		
1680	0.01		
1690	0.01		
1700	0.01		
1710	0.01		
1720	0.009		
1730	0.01		
1740	0.01		
1750	0.01		
1760	0.009		
1770	0.009		
1780	0.009		
1790	0.011		
1800	0.011		
1810	0.01		
1820	0.009		
1830	0.01		
1840	0.009		
1850	0.009		
1860	0.009		
1870	0.009		
1880	0.009		
1890	0.009		
1900	0.01		
1910	0.009		
1920	0.01		
1930	0.01		
1940	0.01		
1950	0.01		
1960	0.01		
1970	0.01		
1980	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.009		
2000	0.01		
2010	0.01		
2020	0.01		
2030	0.01		
2040	0.01		
2050	0.01		
2060	0.011		
2070	0.009		
2080	0.01		
2090	0.01		
2100	0.009		
2110	0.009		
2120	0.009		
2130	0.009		
2140	0.01		
2150	0.01		
2160	0.01		
2170	0.01		
2180	0.01		
2190	0.009		
2200	0.009		
2210	0.01		
2220	0.01		
2230	0.01		
2240	0.009		
2250	0.01		
2260	0.01		
2270	0.01		
2280	0.01		
2290	0.01		
2300	0.01		
2310	0.009		
2320	0.009		
2330	0.009		
2340	0.009		
2350	0.01		
2360	0.009		
2370	0.01		
2380	0.009		
2390	0.009		
2400	0.01		
2410	0.011		
2420	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.009		
2440	0.009		
2450	0.009		
2460	0.009		
2470	0.009		
2480	0.01		
2490	0.009		
2500	0.009		
2510	0.009		
2520	0.009		
2530	0.009		
2540	0.009		
2550	0.009		
2560	0.01		
2570	0.009		
2580	0.009		
2590	0.009		
2600	0.009		
2610	0.009		
2620	0.009		
2630	0.009		
2640	0.009		
2650	0.009		
2660	0.01		
2670	0.01		
2680	0.009		
2690	0.009		
2700	0.009		
2710	0.009		
2720	0.009		
2730	0.009		
2740	0.009		
2750	0.009		
2760	0.009		
2770	0.009		
2780	0.011		
2790	0.01		
2800	0.009		
2810	0.009		
2820	0.009		
2830	0.009		
2840	0.009		
2850	0.009		
2860	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.009		
2880	0.009		
2890	0.009		
2900	0.009		
2910	0.009		
2920	0.009		
2930	0.009		
2940	0.009		
2950	0.009		
2960	0.009		
2970	0.009		
2980	0.01		
2990	0.01		
3000	0.009		
3010	0.009		
3020	0.008		
3030	0.009		
3040	0.009		
3050	0.008		
3060	0.008		
3070	0.008		
3080	0.009		
3090	0.009		
3100	0.01		
3110	0.01		
3120	0.011		
3130	0.01		
3140	0.011		
3150	0.01		
3160	0.009		
3170	0.011		
3180	0.01		
3190	0.012		
3200	0.012		
3210	0.01		
3220	0.009		
3230	0.009		
3240	0.008		
3250	0.009		
3260	0.009		
3270	0.009		
3280	0.009		
3290	0.008		
3300	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.009		
3320	0.009		
3330	0.009		
3340	0.009		
3350	0.009		
3360	0.009		
3370	0.009		
3380	0.009		
3390	0.009		
3400	0.009		
3410	0.009		
3420	0.008		
3430	0.009		
3440	0.009		
3450	0.009		
3460	0.009		
3470	0.011		
3480	0.009		
3490	0.009		
3500	0.009		
3510	0.009		
3520	0.009		
3530	0.01		
3540	0.009		
3550	0.009		
3560	0.009		
3570	0.009		
3580	0.009		
3590	0.009		
3600	0.009		
3610	0.009		
3620	0.009		
3630	0.008		
3640	0.009		
3650	0.009		
3660	0.009		
3670	0.01		
3680	0.01		
3690	0.009		
3700	0.009		
3710	0.008		
3720	0.009		
3730	0.008		
3740	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.008		
3760	0.009		
3770	0.008		
3780	0.008		
3790	0.009		
3800	0.008		
3810	0.009		
3820	0.009		
3830	0.009		
3840	0.008		
3850	0.008		
3860	0.008		
3870	0.008		
3880	0.008		
3890	0.008		
3900	0.008		
3910	0.008		
3920	0.008		
3930	0.008		
3940	0.008		
3950	0.008		
3960	0.008		
3970	0.008		
3980	0.008		
3990	0.008		
4000	0.009		
4010	0.008		
4020	0.008		
4030	0.008		
4040	0.008		
4050	0.008		
4060	0.008		
4070	0.008		
4080	0.009		
4090	0.008		
4100	0.008		
4110	0.008		
4120	0.008		
4130	0.008		
4140	0.008		
4150	0.009		
4160	0.009		
4170	0.009		
4180	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.009		
4200	0.009		
4210	0.009		
4220	0.008		
4230	0.008		
4240	0.009		
4250	0.009		
4260	0.009		
4270	0.009		
4280	0.009		
4290	0.008		
4300	0.009		
4310	0.009		
4320	0.008		
4330	0.008		
4340	0.01		
4350	0.009		
4360	0.009		
4370	0.009		
4380	0.009		
4390	0.008		
4400	0.009		
4410	0.009		
4420	0.009		
4430	0.009		
4440	0.009		
4450	0.008		
4460	0.009		
4470	0.009		
4480	0.008		
4490	0.009		
4500	0.009		
4510	0.01		
4520	0.009		
4530	0.009		
4540	0.01		
4550	0.009		
4560	0.009		
4570	0.009		
4580	0.009		
4590	0.009		
4600	0.009		
4610	0.009		
4620	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.01		
4640	0.011		
4650	0.01		
4660	0.009		
4670	0.009		
4680	0.009		
4690	0.01		
4700	0.01		
4710	0.01		
4720	0.01		
4730	0.009		
4740	0.012		
4750	0.011		
4760	0.012		
4770	0.011		
4780	0.009		
4790	0.009		
4800	0.009		
4810	0.009		
4820	0.009		
4830	0.009		
4840	0.009		
4850	0.009		
4860	0.01		
4870	0.01		
4880	0.009		
4890	0.009		
4900	0.01		
4910	0.009		
4920	0.009		
4930	0.009		
4940	0.009		
4950	0.009		
4960	0.009		
4970	0.008		
4980	0.009		
4990	0.009		
5000	0.009		
5010	0.009		
5020	0.009		
5030	0.009		
5040	0.009		
5050	0.009		
5060	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.009		
5080	0.008		
5090	0.009		
5100	0.008		
5110	0.008		
5120	0.009		
5130	0.008		
5140	0.008		
5150	0.008		
5160	0.008		
5170	0.008		
5180	0.008		
5190	0.009		
5200	0.009		
5210	0.009		
5220	0.008		
5230	0.008		
5240	0.009		
5250	0.009		
5260	0.008		
5270	0.008		
5280	0.009		
5290	0.009		
5300	0.008		
5310	0.009		
5320	0.009		
5330	0.008		
5340	0.008		
5350	0.009		
5360	0.008		
5370	0.008		
5380	0.009		
5390	0.009		
5400	0.009		
5410	0.008		
5420	0.008		
5430	0.008		
5440	0.008		
5450	0.009		
5460	0.01		
5470	0.01		
5480	0.009		
5490	0.008		
5500	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5510	0.009		
5520	0.008		
5530	0.009		
5540	0.008		
5550	0.008		
5560	0.009		
5570	0.009		
5580	0.009		
5590	0.009		
5600	0.009		
5610	0.009		
5620	0.009		
5630	0.009		
5640	0.008		
5650	0.008		
5660	0.009		
5670	0.009		
5680	0.009		
5690	0.009		
5700	0.009		
5710	0.01		
5720	0.01		
5730	0.009		
5740	0.009		
5750	0.008		
5760	0.008		
5770	0.008		
5780	0.008		
5790	0.008		
5800	0.008		
5810	0.009		
5820	0.008		
5830	0.008		
5840	0.008		
5850	0.008		
5860	0.009		
5870	0.009		
5880	0.008		
5890	0.009		
5900	0.011		
5910	0.01		
5920	0.009		
5930	0.008		
5940	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5950	0.009		
5960	0.009		
5970	0.009		
5980	0.01		
5990	0.009		
6000	0.01		
6010	0.009		
6020	0.009		
6030	0.009		
6040	0.008		
6050	0.009		
6060	0.011		
6070	0.009		
6080	0.008		
6090	0.008		
6100	0.008		
6110	0.009		
6120	0.009		
6130	0.009		
6140	0.009		
6150	0.009		
6160	0.008		
6170	0.008		
6180	0.009		
6190	0.009		
6200	0.009		
6210	0.009		
6220	0.009		
6230	0.008		
6240	0.009		
6250	0.009		
6260	0.009		
6270	0.01		
6280	0.009		
6290	0.009		
6300	0.009		
6310	0.008		
6320	0.009		
6330	0.009		
6340	0.01		
6350	0.009		
6360	0.009		
6370	0.008		
6380	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6390	0.011		
6400	0.01		
6410	0.008		
6420	0.009		
6430	0.01		
6440	0.009		
6450	0.009		
6460	0.008		
6470	0.008		
6480	0.008		
6490	0.008		
6500	0.008		
6510	0.008		
6520	0.009		
6530	0.008		
6540	0.009		
6550	0.008		
6560	0.009		
6570	0.008		
6580	0.008		
6590	0.008		
6600	0.008		
6610	0.008		
6620	0.008		
6630	0.008		
6640	0.008		
6650	0.008		
6660	0.009		
6670	0.009		
6680	0.009		
6690	0.008		
6700	0.008		
6710	0.008		
6720	0.008		
6730	0.009		
6740	0.008		
6750	0.008		
6760	0.008		
6770	0.008		
6780	0.008		
6790	0.008		
6800	0.008		
6810	0.009		
6820	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6830	0.008		
6840	0.008		
6850	0.008		
6860	0.008		
6870	0.008		
6880	0.008		
6890	0.008		
6900	0.008		
6910	0.008		
6920	0.008		
6930	0.008		
6940	0.008		
6950	0.009		
6960	0.008		
6970	0.009		
6980	0.008		
6990	0.008		
7000	0.008		
7010	0.008		
7020	0.008		
7030	0.009		
7040	0.008		
7050	0.008		
7060	0.008		
7070	0.008		
7080	0.008		
7090	0.008		
7100	0.009		
7110	0.01		
7120	0.009		
7130	0.009		
7140	0.008		
7150	0.009		
7160	0.009		
7170	0.009		
7180	0.009		
7190	0.009		
7200	0.009		
7210	0.009		
7220	0.008		
7230	0.008		
7240	0.008		
7250	0.008		
7260	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7270	0.009		
7280	0.008		
7290	0.01		
7300	0.009		
7310	0.013		
7320	0.009		
7330	0.009		
7340	0.009		
7350	0.008		
7360	0.008		
7370	0.008		
7380	0.009		
7390	0.008		
7400	0.009		
7410	0.008		
7420	0.009		
7430	0.009		
7440	0.009		
7450	0.009		
7460	0.009		
7470	0.009		
7480	0.009		
7490	0.009		
7500	0.009		
7510	0.009		
7520	0.008		
7530	0.009		
7540	0.009		
7550	0.008		
7560	0.009		
7570	0.008		
7580	0.008		
7590	0.008		
7600	0.008		
7610	0.008		
7620	0.008		
7630	0.008		
7640	0.009		
7650	0.008		
7660	0.008		
7670	0.008		
7680	0.008		
7690	0.009		
7700	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7710	0.009		
7720	0.008		
7730	0.008		
7740	0.009		
7750	0.008		
7760	0.008		
7770	0.008		
7780	0.008		
7790	0.008		
7800	0.008		
7810	0.008		
7820	0.008		
7830	0.008		
7840	0.009		
7850	0.008		
7860	0.008		
7870	0.008		
7880	0.008		
7890	0.008		
7900	0.008		
7910	0.008		
7920	0.008		
7930	0.008		
7940	0.008		
7950	0.008		
7960	0.008		
7970	0.008		
7980	0.008		
7990	0.008		
8000	0.008		
8010	0.008		
8020	0.008		
8030	0.008		
8040	0.008		
8050	0.008		
8060	0.009		
8070	0.008		
8080	0.008		
8090	0.008		
8100	0.008		
8110	0.008		
8120	0.008		
8130	0.008		
8140	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8150	0.008		
8160	0.008		
8170	0.008		
8180	0.008		
8190	0.008		
8200	0.008		
8210	0.008		
8220	0.008		
8230	0.008		
8240	0.008		
8250	0.008		
8260	0.008		
8270	0.008		
8280	0.008		
8290	0.008		
8300	0.008		
8310	0.008		
8320	0.008		
8330	0.008		
8340	0.008		
8350	0.008		
8360	0.008		
8370	0.008		
8380	0.008		
8390	0.008		
8400	0.007		
8410	0.008		
8420	0.008		
8430	0.008		
8440	0.008		
8450	0.008		
8460	0.008		
8470	0.008		
8480	0.008		
8490	0.008		
8500	0.008		
8510	0.008		
8520	0.008		
8530	0.007		
8540	0.008		
8550	0.008		
8560	0.007		
8570	0.007		
8580	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8590	0.008		
8600	0.008		
8610	0.008		
8620	0.008		
8630	0.008		
8640	0.008		
8650	0.008		
8660	0.008		
8670	0.007		
8680	0.008		
8690	0.007		
8700	0.008		
8710	0.008		
8720	0.008		
8730	0.008		
8740	0.008		
8750	0.008		
8760	0.008		
8770	0.008		
8780	0.008		
8790	0.008		
8800	0.008		
8810	0.008		
8820	0.008		
8830	0.008		
8840	0.008		
8850	0.008		
8860	0.008		
8870	0.008		
8880	0.008		
8890	0.008		
8900	0.008		
8910	0.008		
8920	0.008		
8930	0.008		
8940	0.008		
8950	0.008		
8960	0.008		
8970	0.008		
8980	0.008		
8990	0.008		
9000	0.008		
9010	0.008		
9020	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9030	0.008		
9040	0.008		
9050	0.008		
9060	0.008		
9070	0.008		
9080	0.008		
9090	0.008		
9100	0.008		
9110	0.008		
9120	0.008		
9130	0.008		
9140	0.008		
9150	0.008		
9160	0.008		
9170	0.008		
9180	0.008		
9190	0.008		
9200	0.008		
9210	0.008		
9220	0.008		
9230	0.008		
9240	0.008		
9250	0.008		
9260	0.009		
9270	0.008		
9280	0.008		
9290	0.008		
9300	0.008		
9310	0.008		
9320	0.008		
9330	0.008		
9340	0.007		
9350	0.007		
9360	0.008		
9370	0.007		
9380	0.008		
9390	0.007		
9400	0.007		
9410	0.008		
9420	0.007		
9430	0.007		
9440	0.007		
9450	0.009		
9460	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9470	0.009		
9480	0.008		
9490	0.009		
9500	0.008		
9510	0.008		
9520	0.008		
9530	0.008		
9540	0.007		
9550	0.007		
9560	0.008		
9570	0.008		
9580	0.008		
9590	0.007		
9600	0.008		
9610	0.008		
9620	0.008		
9630	0.008		
9640	0.007		
9650	0.008		
9660	0.007		
9670	0.008		
9680	0.008		
9690	0.008		
9700	0.008		
9710	0.008		
9720	0.008		
9730	0.008		
9740	0.008		
9750	0.007		
9760	0.007		
9770	0.008		
9780	0.008		
9790	0.008		
9800	0.008		
9810	0.008		
9820	0.007		
9830	0.007		
9840	0.007		
9850	0.007		
9860	0.007		
9870	0.007		
9880	0.007		
9890	0.007		
9900	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9910	0.008		
9920	0.008		
9930	0.008		
9940	0.008		
9950	0.009		
9960	0.007		
9970	0.007		
9980	0.007		
9990	0.007		
10000	0.008		
10010	0.011		
10020	0.009		
10030	0.008		
10040	0.008		
10050	0.009		
10060	0.009		
10070	0.009		
10080	0.008		
10090	0.008		
10100	0.008		
10110	0.008		
10120	0.008		
10130	0.008		
10140	0.008		
10150	0.008		
10160	0.008		
10170	0.008		
10180	0.007		
10190	0.008		
10200	0.008		
10210	0.008		
10220	0.008		
10230	0.008		
10240	0.008		
10250	0.008		
10260	0.008		
10270	0.008		
10280	0.008		
10290	0.008		
10300	0.008		
10310	0.008		
10320	0.008		
10330	0.008		
10340	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10350	0.009		
10360	0.01		
10370	0.009		
10380	0.008		
10390	0.008		
10400	0.008		
10410	0.008		
10420	0.008		
10430	0.008		
10440	0.009		
10450	0.009		
10460	0.008		
10470	0.008		
10480	0.008		
10490	0.008		
10500	0.009		
10510	0.008		
10520	0.008		
10530	0.007		
10540	0.007		
10550	0.007		
10560	0.008		
10570	0.007		
10580	0.008		
10590	0.008		
10600	0.007		
10610	0.008		
10620	0.007		
10630	0.007		
10640	0.007		
10650	0.007		
10660	0.008		
10670	0.008		
10680	0.007		
10690	0.007		
10700	0.007		
10710	0.007		
10720	0.009		
10730	0.008		
10740	0.008		
10750	0.007		
10760	0.007		
10770	0.007		
10780	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10790	0.007		
10800	0.007		
10810	0.007		
10820	0.007		
10830	0.008		
10840	0.008		
10850	0.007		
10860	0.007		
10870	0.007		
10880	0.008		
10890	0.008		
10900	0.008		
10910	0.007		
10920	0.007		
10930	0.007		
10940	0.007		
10950	0.007		
10960	0.007		
10970	0.008		
10980	0.008		
10990	0.007		
11000	0.007		
11010	0.007		
11020	0.007		
11030	0.007		
11040	0.007		
11050	0.007		
11060	0.008		
11070	0.008		
11080	0.008		
11090	0.008		
11100	0.008		
11110	0.008		
11120	0.007		
11130	0.008		
11140	0.008		
11150	0.007		
11160	0.007		
11170	0.007		
11180	0.006		
11190	0.007		
11200	0.008		
11210	0.007		
11220	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11230	0.007		
11240	0.006		
11250	0.006		
11260	0.006		
11270	0.007		
11280	0.006		
11290	0.007		
11300	0.007		
11310	0.014		
11320	0.01		
11330	0.007		
11340	0.008		
11350	0.008		
11360	0.007		
11370	0.006		
11380	0.006		
11390	0.007		
11400	0.007		
11410	0.007		
11420	0.007		
11430	0.007		
11440	0.007		
11450	0.007		
11460	0.007		
11470	0.007		
11480	0.007		
11490	0.007		
11500	0.007		
11510	0.007		
11520	0.007		
11530	0.008		
11540	0.008		
11550	0.007		
11560	0.007		
11570	0.007		
11580	0.007		
11590	0.007		
11600	0.009		
11610	0.008		
11620	0.008		
11630	0.007		
11640	0.008		
11650	0.008		
11660	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11670	0.007		
11680	0.007		
11690	0.007		
11700	0.008		
11710	0.008		
11720	0.009		
11730	0.007		
11740	0.008		
11750	0.009		
11760	0.008		
11770	0.007		
11780	0.007		
11790	0.007		
11800	0.008		
11810	0.008		
11820	0.007		
11830	0.008		
11840	0.007		
11850	0.008		
11860	0.008		
11870	0.007		
11880	0.008		
11890	0.008		
11900	0.008		
11910	0.008		
11920	0.007		
11930	0.011		
11940	0.009		
11950	0.009		
11960	0.008		
11970	0.008		
11980	0.007		
11990	0.007		
12000	0.007		
12010	0.008		
12020	0.007		
12030	0.009		
12040	0.008		
12050	0.007		
12060	0.007		
12070	0.007		
12080	0.007		
12090	0.007		
12100	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12110	0.008		
12120	0.008		
12130	0.007		
12140	0.007		
12150	0.007		
12160	0.007		
12170	0.007		
12180	0.007		
12190	0.007		
12200	0.007		
12210	0.007		
12220	0.007		
12230	0.007		
12240	0.007		
12250	0.007		
12260	0.007		
12270	0.007		
12280	0.007		
12290	0.007		
12300	0.008		
12310	0.008		
12320	0.007		
12330	0.007		
12340	0.007		
12350	0.007		
12360	0.007		
12370	0.007		
12380	0.007		
12390	0.007		
12400	0.007		
12410	0.007		
12420	0.007		
12430	0.007		
12440	0.007		
12450	0.007		
12460	0.007		
12470	0.007		
12480	0.007		
12490	0.007		
12500	0.007		
12510	0.007		
12520	0.007		
12530	0.007		
12540	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12550	0.007		
12560	0.007		
12570	0.007		
12580	0.008		
12590	0.007		
12600	0.007		
12610	0.007		
12620	0.007		
12630	0.007		
12640	0.007		
12650	0.007		
12660	0.008		
12670	0.007		
12680	0.007		
12690	0.007		
12700	0.007		
12710	0.008		
12720	0.007		
12730	0.007		
12740	0.007		
12750	0.007		
12760	0.007		
12770	0.007		
12780	0.008		
12790	0.007		
12800	0.008		
12810	0.008		
12820	0.007		
12830	0.007		
12840	0.007		
12850	0.007		
12860	0.007		
12870	0.007		
12880	0.008		
12890	0.008		
12900	0.008		
12910	0.008		
12920	0.008		
12930	0.007		
12940	0.008		
12950	0.007		
12960	0.008		
12970	0.008		
12980	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12990	0.008		
13000	0.007		
13010	0.007		
13020	0.007		
13030	0.007		
13040	0.007		
13050	0.007		
13060	0.007		
13070	0.007		
13080	0.007		
13090	0.007		
13100	0.007		
13110	0.007		
13120	0.007		
13130	0.008		
13140	0.008		
13150	0.008		
13160	0.008		
13170	0.008		
13180	0.008		
13190	0.008		
13200	0.007		
13210	0.008		
13220	0.007		
13230	0.007		
13240	0.008		
13250	0.008		
13260	0.008		
13270	0.008		
13280	0.007		
13290	0.007		
13300	0.007		
13310	0.007		
13320	0.007		
13330	0.007		
13340	0.007		
13350	0.007		
13360	0.007		
13370	0.007		
13380	0.007		
13390	0.007		
13400	0.007		
13410	0.007		
13420	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
13430	0.007		
13440	0.007		
13450	0.007		
13460	0.007		
13470	0.007		
13480	0.007		
13490	0.007		
13500	0.007		
13510	0.007		
13520	0.008		
13530	0.007		
13540	0.007		
13550	0.007		
13560	0.007		
13570	0.007		
13580	0.007		
13590	0.01		
13600	0.007		
13610	0.007		
13620	0.008		
13630	0.007		
13640	0.007		
13650	0.007		
13660	0.007		
13670	0.007		
13680	0.007		
13690	0.007		
13700	0.008		
13710	0.008		
13720	0.007		
13730	0.007		
13740	0.007		
13750	0.007		
13760	0.007		
13770	0.007		
13780	0.007		
13790	0.007		
13800	0.007		
13810	0.007		
13820	0.007		
13830	0.007		
13840	0.007		
13850	0.007		
13860	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
13870	0.007		
13880	0.007		
13890	0.007		
13900	0.007		
13910	0.007		
13920	0.007		
13930	0.007		
13940	0.014		
13950	0.013		
13960	0.008		
13970	0.008		
13980	0.008		
13990	0.009		
14000	0.008		
14010	0.007		
14020	0.008		
14030	0.008		
14040	0.008		
14050	0.008		
14060	0.008		
14070	0.008		
14080	0.007		
14090	0.007		
14100	0.007		
14110	0.007		
14120	0.008		
14130	0.008		
14140	0.008		
14150	0.008		
14160	0.008		
14170	0.007		
14180	0.008		
14190	0.008		
14200	0.007		
14210	0.008		
14220	0.008		
14230	0.007		
14240	0.007		
14250	0.008		
14260	0.007		
14270	0.007		
14280	0.008		
14290	0.008		
14300	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14310	0.008		
14320	0.007		
14330	0.007		
14340	0.007		
14350	0.008		
14360	0.007		
14370	0.007		
14380	0.008		
14390	0.007		
14400	0.008		
14410	0.007		
14420	0.007		
14430	0.007		
14440	0.008		
14450	0.007		
14460	0.007		
14470	0.007		
14480	0.008		
14490	0.007		
14500	0.008		
14510	0.007		
14520	0.008		
14530	0.007		
14540	0.008		
14550	0.007		
14560	0.007		
14570	0.008		
14580	0.007		
14590	0.008		
14600	0.007		
14610	0.007		
14620	0.008		
14630	0.007		
14640	0.007		
14650	0.007		
14660	0.007		
14670	0.008		
14680	0.008		
14690	0.008		
14700	0.008		
14710	0.008		
14720	0.008		
14730	0.008		
14740	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14750	0.007		
14760	0.008		
14770	0.008		
14780	0.007		
14790	0.007		
14800	0.008		
14810	0.008		
14820	0.008		
14830	0.008		
14840	0.008		
14850	0.008		
14860	0.008		
14870	0.008		
14880	0.008		
14890	0.008		
14900	0.008		
14910	0.01		
14920	0.01		
14930	0.008		
14940	0.008		
14950	0.007		
14960	0.008		
14970	0.007		
14980	0.008		
14990	0.007		
15000	0.007		
15010	0.008		
15020	0.008		
15030	0.008		
15040	0.008		
15050	0.008		
15060	0.008		
15070	0.008		
15080	0.008		
15090	0.009		
15100	0.01		
15110	0.008		
15120	0.008		
15130	0.008		
15140	0.008		
15150	0.007		
15160	0.007		
15170	0.007		
15180	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15190	0.008		
15200	0.008		
15210	0.008		
15220	0.007		
15230	0.008		
15240	0.008		
15250	0.008		
15260	0.008		
15270	0.008		
15280	0.008		
15290	0.008		
15300	0.008		
15310	0.008		
15320	0.008		
15330	0.009		
15340	0.01		
15350	0.009		
15360	0.009		
15370	0.008		
15380	0.008		
15390	0.008		
15400	0.008		
15410	0.008		
15420	0.008		
15430	0.008		
15440	0.007		
15450	0.008		
15460	0.008		
15470	0.008		
15480	0.008		
15490	0.008		
15500	0.008		
15510	0.008		
15520	0.008		
15530	0.008		
15540	0.008		
15550	0.008		
15560	0.008		
15570	0.008		
15580	0.008		
15590	0.008		
15600	0.008		
15610	0.008		
15620	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15630	0.008		
15640	0.008		
15650	0.008		
15660	0.008		
15670	0.008		
15680	0.009		
15690	0.008		
15700	0.008		
15710	0.008		
15720	0.008		
15730	0.008		
15740	0.007		
15750	0.008		
15760	0.008		
15770	0.008		
15780	0.008		
15790	0.008		
15800	0.008		
15810	0.008		
15820	0.007		
15830	0.007		
15840	0.008		
15850	0.007		
15860	0.008		
15870	0.007		
15880	0.008		
15890	0.008		
15900	0.008		
15910	0.008		
15920	0.008		
15930	0.008		
15940	0.008		
15950	0.008		
15960	0.008		
15970	0.007		
15980	0.008		
15990	0.008		
16000	0.008		
16010	0.007		
16020	0.007		
16030	0.007		
16040	0.007		
16050	0.008		
16060	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16070	0.007		
16080	0.008		
16090	0.008		
16100	0.008		
16110	0.007		
16120	0.008		
16130	0.008		
16140	0.008		
16150	0.007		
16160	0.007		
16170	0.007		
16180	0.007		
16190	0.007		
16200	0.007		
16210	0.007		
16220	0.007		
16230	0.007		
16240	0.007		
16250	0.007		
16260	0.007		
16270	0.007		
16280	0.007		
16290	0.008		
16300	0.008		
16310	0.007		
16320	0.007		
16330	0.007		
16340	0.007		
16350	0.007		
16360	0.008		
16370	0.007		
16380	0.007		
16390	0.008		
16400	0.007		
16410	0.007		
16420	0.007		
16430	0.007		
16440	0.008		
16450	0.007		
16460	0.007		
16470	0.008		
16480	0.01		
16490	0.008		
16500	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16510	0.008		
16520	0.008		
16530	0.008		
16540	0.008		
16550	0.008		
16560	0.007		
16570	0.008		
16580	0.008		
16590	0.008		
16600	0.008		
16610	0.008		
16620	0.008		
16630	0.007		
16640	0.008		
16650	0.007		
16660	0.007		
16670	0.007		
16680	0.007		
16690	0.008		
16700	0.007		
16710	0.007		
16720	0.007		
16730	0.007		
16740	0.007		
16750	0.007		
16760	0.007		
16770	0.007		
16780	0.007		
16790	0.007		
16800	0.008		
16810	0.008		
16820	0.008		
16830	0.007		
16840	0.008		
16850	0.007		
16860	0.007		
16870	0.007		
16880	0.007		
16890	0.008		
16900	0.007		
16910	0.007		
16920	0.008		
16930	0.008		
16940	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16950	0.007		
16960	0.008		
16970	0.009		
16980	0.008		
16990	0.008		
17000	0.009		
17010	0.008		
17020	0.009		
17030	0.008		
17040	0.008		
17050	0.008		
17060	0.008		
17070	0.008		
17080	0.008		
17090	0.008		
17100	0.008		
17110	0.009		
17120	0.009		
17130	0.009		
17140	0.009		
17150	0.008		
17160	0.008		
17170	0.008		
17180	0.008		
17190	0.008		
17200	0.008		
17210	0.008		
17220	0.008		
17230	0.008		
17240	0.008		
17250	0.008		
17260	0.008		
17270	0.008		
17280	0.008		
17290	0.008		
17300	0.008		
17310	0.009		
17320	0.008		
17330	0.008		
17340	0.009		
17350	0.009		
17360	0.009		
17370	0.009		
17380	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17390	0.009		
17400	0.009		
17410	0.009		
17420	0.009		
17430	0.008		
17440	0.009		
17450	0.009		
17460	0.009		
17470	0.008		
17480	0.009		
17490	0.009		
17500	0.008		
17510	0.009		
17520	0.009		
17530	0.009		
17540	0.008		
17550	0.009		
17560	0.008		
17570	0.009		
17580	0.009		
17590	0.008		
17600	0.009		
17610	0.009		
17620	0.009		
17630	0.009		
17640	0.009		
17650	0.009		
17660	0.009		
17670	0.009		
17680	0.009		
17690	0.009		
17700	0.009		
17710	0.009		
17720	0.009		
17730	0.009		
17740	0.009		
17750	0.009		
17760	0.009		
17770	0.009		
17780	0.009		
17790	0.009		
17800	0.009		
17810	0.009		
17820	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17830	0.009		
17840	0.009		
17850	0.009		
17860	0.012		
17870	0.012		
17880	0.012		
17890	0.009		
17900	0.009		
17910	0.009		
17920	0.01		
17930	0.009		
17940	0.009		
17950	0.009		
17960	0.009		
17970	0.009		
17980	0.009		
17990	0.009		
18000	0.009		
18010	0.009		
18020	0.009		
18030	0.009		
18040	0.009		
18050	0.008		
18060	0.009		
18070	0.009		
18080	0.009		
18090	0.009		
18100	0.01		
18110	0.009		
18120	0.009		
18130	0.008		
18140	0.009		
18150	0.009		
18160	0.009		
18170	0.009		
18180	0.008		
18190	0.009		
18200	0.009		
18210	0.009		
18220	0.009		
18230	0.009		
18240	0.009		
18250	0.009		
18260	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
18270	0.009		
18280	0.009		
18290	0.009		
18300	0.009		
18310	0.009		
18320	0.009		
18330	0.009		
18340	0.009		
18350	0.009		
18360	0.009		
18370	0.009		
18380	0.009		
18390	0.009		
18400	0.009		
18410	0.009		
18420	0.009		
18430	0.009		
18440	0.009		
18450	0.009		
18460	0.009		
18470	0.009		
18480	0.009		
18490	0.009		
18500	0.009		
18510	0.009		
18520	0.009		
18530	0.009		
18540	0.009		
18550	0.009		
18560	0.009		
18570	0.009		
18580	0.009		
18590	0.009		
18600	0.009		
18610	0.009		
18620	0.009		
18630	0.009		
18640	0.009		
18650	0.009		
18660	0.009		
18670	0.009		
18680	0.009		
18690	0.009		
18700	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
18710	0.009		
18720	0.009		
18730	0.009		
18740	0.009		
18750	0.009		
18760	0.008		
18770	0.009		
18780	0.009		
18790	0.009		
18800	0.009		
18810	0.009		
18820	0.009		
18830	0.009		
18840	0.009		
18850	0.009		
18860	0.009		
18870	0.009		
18880	0.009		
18890	0.009		
18900	0.009		
18910	0.009		
18920	0.009		
18930	0.009		
18940	0.009		
18950	0.009		
18960	0.009		
18970	0.009		
18980	0.009		
18990	0.009		
19000	0.009		
19010	0.009		
19020	0.009		
19030	0.009		
19040	0.009		
19050	0.009		
19060	0.009		
19070	0.009		
19080	0.009		
19090	0.009		
19100	0.009		
19110	0.009		
19120	0.009		
19130	0.009		
19140	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
19150	0.009		
19160	0.009		
19170	0.009		
19180	0.009		
19190	0.009		
19200	0.009		
19210	0.009		
19220	0.009		
19230	0.009		
19240	0.009		
19250	0.009		
19260	0.009		
19270	0.009		
19280	0.009		
19290	0.009		
19300	0.009		
19310	0.009		
19320	0.009		
19330	0.009		
19340	0.009		
19350	0.009		
19360	0.008		
19370	0.009		
19380	0.009		
19390	0.009		
19400	0.009		
19410	0.009		
19420	0.009		
19430	0.009		
19440	0.009		
19450	0.009		
19460	0.009		
19470	0.009		
19480	0.009		
19490	0.009		
19500	0.008		
19510	0.009		
19520	0.009		
19530	0.009		
19540	0.009		
19550	0.008		
19560	0.009		
19570	0.009		
19580	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
19590	0.009		
19600	0.009		
19610	0.009		
19620	0.011		
19630	0.009		
19640	0.009		
19650	0.009		
19660	0.009		
19670	0.008		
19680	0.008		
19690	0.008		
19700	0.008		
19710	0.009		
19720	0.009		
19730	0.008		
19740	0.009		
19750	0.008		
19760	0.009		
19770	0.009		
19780	0.009		
19790	0.009		
19800	0.009		
19810	0.009		
19820	0.009		
19830	0.009		
19840	0.009		
19850	0.009		
19860	0.009		
19870	0.009		
19880	0.009		
19890	0.009		
19900	0.009		
19910	0.009		
19920	0.009		
19930	0.009		
19940	0.009		
19950	0.009		
19960	0.009		
19970	0.009		
19980	0.009		
19990	0.009		
20000	0.009		
20010	0.009		
20020	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20030	0.01		
20040	0.01		
20050	0.009		
20060	0.009		
20070	0.009		
20080	0.009		
20090	0.009		
20100	0.009		
20110	0.009		
20120	0.009		
20130	0.009		
20140	0.009		
20150	0.009		
20160	0.009		
20170	0.009		
20180	0.009		
20190	0.009		
20200	0.009		
20210	0.009		
20220	0.009		
20230	0.009		
20240	0.008		
20250	0.009		
20260	0.009		
20270	0.009		
20280	0.009		
20290	0.009		
20300	0.009		
20310	0.008		
20320	0.009		
20330	0.009		
20340	0.009		
20350	0.009		
20360	0.009		
20370	0.009		
20380	0.009		
20390	0.009		
20400	0.009		
20410	0.009		
20420	0.009		
20430	0.008		
20440	0.009		
20450	0.009		
20460	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20470	0.009		
20480	0.008		
20490	0.008		
20500	0.008		
20510	0.008		
20520	0.008		
20530	0.008		
20540	0.008		
20550	0.008		
20560	0.008		
20570	0.008		
20580	0.008		
20590	0.008		
20600	0.008		
20610	0.008		
20620	0.008		
20630	0.008		
20640	0.008		
20650	0.009		
20660	0.009		
20670	0.008		
20680	0.008		
20690	0.008		
20700	0.009		
20710	0.008		
20720	0.008		
20730	0.008		
20740	0.008		
20750	0.009		
20760	0.008		
20770	0.008		
20780	0.009		
20790	0.009		
20800	0.008		
20810	0.008		
20820	0.008		
20830	0.008		
20840	0.008		
20850	0.008		
20860	0.008		
20870	0.008		
20880	0.008		
20890	0.008		
20900	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20910	0.008		
20920	0.008		
20930	0.008		
20940	0.008		
20950	0.008		
20960	0.008		
20970	0.008		
20980	0.008		
20990	0.008		
21000	0.008		
21010	0.008		
21020	0.008		
21030	0.008		
21040	0.008		
21050	0.008		
21060	0.008		
21070	0.008		
21080	0.008		
21090	0.008		
21100	0.008		
21110	0.008		
21120	0.008		
21130	0.008		
21140	0.008		
21150	0.008		
21160	0.008		
21170	0.008		
21180	0.008		
21190	0.008		
21200	0.008		
21210	0.008		
21220	0.009		
21230	0.008		
21240	0.009		
21250	0.008		
21260	0.008		
21270	0.008		
21280	0.008		
21290	0.008		
21300	0.008		
21310	0.008		
21320	0.008		
21330	0.008		
21340	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
21350	0.008		
21360	0.008		
21370	0.008		
21380	0.008		
21390	0.009		
21400	0.008		
21410	0.008		
21420	0.008		
21430	0.008		
21440	0.008		
21450	0.008		
21460	0.008		
21470	0.008		
21480	0.008		
21490	0.008		
21500	0.008		
21510	0.009		
21520	0.008		
21530	0.008		
21540	0.008		
21550	0.008		
21560	0.008		
21570	0.008		
21580	0.008		
21590	0.008		
21600	0.009		
21610	0.009		
21620	0.008		
21630	0.008		
21640	0.009		
21650	0.008		
21660	0.008		
21670	0.008		
21680	0.008		
21690	0.008		
21700	0.009		
21710	0.008		
21720	0.008		
21730	0.008		
21740	0.008		
21750	0.008		
21760	0.008		
21770	0.009		
21780	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
21790	0.009		
21800	0.008		
21810	0.009		
21820	0.009		
21830	0.008		
21840	0.009		
21850	0.008		
21860	0.008		
21870	0.008		
21880	0.008		
21890	0.008		
21900	0.009		
21910	0.008		
21920	0.009		
21930	0.009		
21940	0.009		
21950	0.008		
21960	0.008		
21970	0.009		
21980	0.008		
21990	0.008		
22000	0.008		
22010	0.008		
22020	0.009		
22030	0.008		
22040	0.009		
22050	0.008		
22060	0.009		
22070	0.008		
22080	0.009		
22090	0.009		
22100	0.009		
22110	0.008		
22120	0.009		
22130	0.009		
22140	0.009		
22150	0.009		
22160	0.009		
22170	0.009		
22180	0.009		
22190	0.009		
22200	0.009		
22210	0.009		
22220	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
22230	0.009		
22240	0.009		
22250	0.009		
22260	0.009		
22270	0.009		
22280	0.009		
22290	0.009		
22300	0.009		
22310	0.009		
22320	0.009		
22330	0.009		
22340	0.009		
22350	0.01		
22360	0.01		
22370	0.009		
22380	0.01		
22390	0.009		
22400	0.009		
22410	0.009		
22420	0.009		
22430	0.009		
22440	0.009		
22450	0.009		
22460	0.009		
22470	0.009		
22480	0.009		
22490	0.009		
22500	0.009		
22510	0.009		
22520	0.009		
22530	0.009		
22540	0.009		
22550	0.009		
22560	0.009		
22570	0.009		
22580	0.009		
22590	0.009		
22600	0.009		
22610	0.009		
22620	0.009		
22630	0.009		
22640	0.009		
22650	0.009		
22660	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
22670	0.009		
22680	0.009		
22690	0.009		
22700	0.009		
22710	0.009		
22720	0.009		
22730	0.012		
22740	0.01		
22750	0.01		
22760	0.009		
22770	0.009		
22780	0.009		
22790	0.009		
22800	0.009		
22810	0.009		
22820	0.009		
22830	0.009		
22840	0.009		
22850	0.009		
22860	0.01		
22870	0.009		
22880	0.009		
22890	0.009		
22900	0.009		
22910	0.009		
22920	0.009		
22930	0.009		
22940	0.009		
22950	0.009		
22960	0.009		
22970	0.009		
22980	0.009		
22990	0.009		
23000	0.009		
23010	0.009		
23020	0.009		
23030	0.01		
23040	0.009		
23050	0.009		
23060	0.009		
23070	0.009		
23080	0.009		
23090	0.009		
23100	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23110	0.009		
23120	0.009		
23130	0.009		
23140	0.009		
23150	0.01		
23160	0.01		
23170	0.01		
23180	0.01		
23190	0.009		
23200	0.01		
23210	0.01		
23220	0.01		
23230	0.01		
23240	0.01		
23250	0.01		
23260	0.01		
23270	0.011		
23280	0.01		
23290	0.01		
23300	0.01		
23310	0.01		
23320	0.011		
23330	0.01		
23340	0.01		
23350	0.01		
23360	0.01		
23370	0.01		
23380	0.011		
23390	0.011		
23400	0.011		
23410	0.011		
23420	0.01		
23430	0.01		
23440	0.01		
23450	0.01		
23460	0.01		
23470	0.01		
23480	0.01		
23490	0.009		
23500	0.01		
23510	0.009		
23520	0.009		
23530	0.01		
23540	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23550	0.009		
23560	0.01		
23570	0.01		
23580	0.01		
23590	0.01		
23600	0.01		
23610	0.01		
23620	0.011		
23630	0.009		
23640	0.01		
23650	0.009		
23660	0.009		
23670	0.009		
23680	0.01		
23690	0.01		
23700	0.01		
23710	0.01		
23720	0.01		
23730	0.01		
23740	0.01		
23750	0.01		
23760	0.011		
23770	0.011		
23780	0.01		
23790	0.011		
23800	0.01		
23810	0.01		
23820	0.01		
23830	0.01		
23840	0.01		
23850	0.01		
23860	0.01		
23870	0.01		
23880	0.01		
23890	0.01		
23900	0.01		
23910	0.009		
23920	0.01		
23930	0.01		
23940	0.01		
23950	0.01		
23960	0.01		
23970	0.011		
23980	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23990	0.012		
24000	0.011		
24010	0.011		
24020	0.012		
24030	0.011		
24040	0.01		
24050	0.01		
24060	0.01		
24070	0.01		
24080	0.009		
24090	0.01		
24100	0.01		
24110	0.01		
24120	0.01		
24130	0.01		
24140	0.011		
24150	0.011		
24160	0.01		
24170	0.01		
24180	0.01		
24190	0.01		
24200	0.01		
24210	0.01		
24220	0.01		
24230	0.01		
24240	0.01		
24250	0.01		
24260	0.01		
24270	0.01		
24280	0.01		
24290	0.01		
24300	0.01		
24310	0.01		
24320	0.01		
24330	0.01		
24340	0.01		
24350	0.01		
24360	0.011		
24370	0.01		
24380	0.009		
24390	0.009		
24400	0.009		
24410	0.009		
24420	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
24430	0.009		
24440	0.01		
24450	0.01		
24460	0.009		
24470	0.009		
24480	0.009		
24490	0.009		
24500	0.009		
24510	0.009		
24520	0.01		
24530	0.009		
24540	0.009		
24550	0.009		
24560	0.01		
24570	0.01		
24580	0.009		
24590	0.01		
24600	0.009		
24610	0.009		
24620	0.009		
24630	0.009		
24640	0.009		
24650	0.009		
24660	0.009		
24670	0.009		
24680	0.009		
24690	0.009		
24700	0.01		
24710	0.01		
24720	0.009		
24730	0.01		
24740	0.01		
24750	0.01		
24760	0.01		
24770	0.009		
24780	0.009		
24790	0.009		
24800	0.009		
24810	0.01		
24820	0.009		
24830	0.009		
24840	0.01		
24850	0.009		
24860	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
24870	0.01		
24880	0.01		
24890	0.01		
24900	0.01		
24910	0.01		
24920	0.01		
24930	0.01		
24940	0.009		
24950	0.009		
24960	0.009		
24970	0.009		
24980	0.01		
24990	0.009		
25000	0.009		
25010	0.009		
25020	0.01		
25030	0.009		
25040	0.01		
25050	0.009		
25060	0.009		
25070	0.009		
25080	0.009		
25090	0.009		
25100	0.009		
25110	0.01		
25120	0.009		
25130	0.01		
25140	0.009		
25150	0.009		
25160	0.009		
25170	0.009		
25180	0.009		
25190	0.01		
25200	0.009		
25210	0.009		
25220	0.009		
25230	0.009		
25240	0.009		
25250	0.01		
25260	0.01		
25270	0.009		
25280	0.009		
25290	0.009		
25300	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
25310	0.009		
25320	0.009		
25330	0.009		
25340	0.009		
25350	0.009		
25360	0.01		
25370	0.009		
25380	0.01		
25390	0.009		
25400	0.009		
25410	0.009		
25420	0.01		
25430	0.009		
25440	0.01		
25450	0.009		
25460	0.009		
25470	0.009		
25480	0.009		
25490	0.009		
25500	0.009		
25510	0.009		
25520	0.009		
25530	0.009		
25540	0.009		
25550	0.01		
25560	0.01		
25570	0.01		
25580	0.009		
25590	0.009		
25600	0.01		
25610	0.01		
25620	0.01		
25630	0.01		
25640	0.009		
25650	0.009		
25660	0.01		
25670	0.01		
25680	0.009		
25690	0.01		
25700	0.01		
25710	0.009		
25720	0.009		
25730	0.009		
25740	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
25750	0.009		
25760	0.009		
25770	0.009		
25780	0.009		
25790	0.009		
25800	0.01		
25810	0.009		
25820	0.009		
25830	0.009		
25840	0.01		
25850	0.009		
25860	0.009		
25870	0.009		
25880	0.009		
25890	0.01		
25900	0.01		
25910	0.01		
25920	0.009		
25930	0.009		
25940	0.009		
25950	0.009		
25960	0.009		
25970	0.009		
25980	0.009		
25990	0.009		
26000	0.009		
26010	0.009		
26020	0.009		
26030	0.01		
26040	0.009		
26050	0.009		
26060	0.009		
26070	0.009		
26080	0.01		
26090	0.009		
26100	0.009		
26110	0.009		
26120	0.009		
26130	0.009		
26140	0.009		
26150	0.009		
26160	0.009		
26170	0.009		
26180	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26190	0.009		
26200	0.01		
26210	0.009		
26220	0.009		
26230	0.009		
26240	0.009		
26250	0.009		
26260	0.009		
26270	0.009		
26280	0.009		
26290	0.009		
26300	0.01		
26310	0.01		
26320	0.009		
26330	0.009		
26340	0.01		
26350	0.01		
26360	0.009		
26370	0.009		
26380	0.009		
26390	0.009		
26400	0.01		
26410	0.01		
26420	0.01		
26430	0.01		
26440	0.01		
26450	0.01		
26460	0.01		
26470	0.009		
26480	0.01		
26490	0.01		
26500	0.01		
26510	0.01		
26520	0.01		
26530	0.01		
26540	0.01		
26550	0.01		
26560	0.01		
26570	0.009		
26580	0.01		
26590	0.01		
26600	0.01		
26610	0.01		
26620	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26630	0.009		
26640	0.01		
26650	0.01		
26660	0.01		
26670	0.01		
26680	0.01		
26690	0.01		
26700	0.01		
26710	0.01		
26720	0.01		
26730	0.01		
26740	0.01		
26750	0.01		
26760	0.01		
26770	0.01		
26780	0.01		
26790	0.01		
26800	0.01		
26810	0.01		
26820	0.01		
26830	0.01		
26840	0.01		
26850	0.01		
26860	0.01		
26870	0.01		
26880	0.01		
26890	0.01		
26900	0.01		
26910	0.009		
26920	0.01		
26930	0.01		
26940	0.012		
26950	0.011		
26960	0.01		
26970	0.01		
26980	0.01		
26990	0.01		
27000	0.01		
27010	0.01		
27020	0.009		
27030	0.01		
27040	0.01		
27050	0.01		
27060	0.01		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
27070	0.009		
27080	0.01		
27090	0.01		
27100	0.01		
27110	0.01		
27120	0.01		
27130	0.01		
27140	0.01		
27150	0.011		
27160	0.01		
27170	0.01		
27180	0.01		
27190	0.01		
27200	0.01		
27210	0.011		
27220	0.01		
27230	0.012		
27240	0.011		
27250	0.011		
27260	0.012		
27270	0.011		
27280	0.011		
27290	0.011		
27300	0.011		
27310	0.01		
27320	0.01		
27330	0.01		
27340	0.01		
27350	0.01		
27360	0.011		
27370	0.01		
27380	0.01		
27390	0.011		
27400	0.011		
27410	0.011		
27420	0.011		
27430	0.011		
27440	0.011		
27450	0.011		
27460	0.011		
27470	0.011		
27480	0.011		
27490	0.011		
27500	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
27510	0.01		
27520	0.011		
27530	0.01		
27540	0.01		
27550	0.011		
27560	0.011		
27570	0.011		
27580	0.01		
27590	0.011		
27600	0.01		
27610	0.011		
27620	0.011		
27630	0.011		
27640	0.011		
27650	0.011		
27660	0.011		
27670	0.011		
27680	0.011		
27690	0.012		
27700	0.012		
27710	0.012		
27720	0.012		
27730	0.011		
27740	0.012		
27750	0.012		
27760	0.011		
27770	0.011		
27780	0.011		
27790	0.012		
27800	0.012		
27810	0.012		
27820	0.012		
27830	0.012		
27840	0.012		
27850	0.012		
27860	0.012		
27870	0.012		
27880	0.012		
27890	0.011		
27900	0.011		
27910	0.011		
27920	0.011		
27930	0.012		
27940	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
27950	0.011		
27960	0.012		
27970	0.013		
27980	0.012		
27990	0.012		
28000	0.012		
28010	0.012		
28020	0.012		
28030	0.012		
28040	0.013		
28050	0.013		
28060	0.012		
28070	0.012		
28080	0.013		
28090	0.012		
28100	0.012		
28110	0.012		
28120	0.012		
28130	0.012		
28140	0.012		
28150	0.012		
28160	0.013		
28170	0.012		
28180	0.013		
28190	0.013		
28200	0.013		
28210	0.013		
28220	0.013		
28230	0.013		
28240	0.014		
28250	0.013		
28260	0.014		
28270	0.012		
28280	0.013		
28290	0.014		
28300	0.013		
28310	0.013		
28320	0.013		
28330	0.013		
28340	0.013		
28350	0.012		
28360	0.013		
28370	0.013		
28380	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
28390	0.013		
28400	0.014		
28410	0.013		
28420	0.013		
28430	0.013		
28440	0.013		
28450	0.013		
28460	0.014		
28470	0.013		
28480	0.014		
28490	0.013		
28500	0.013		
28510	0.014		
28520	0.013		
28530	0.013		
28540	0.013		
28550	0.013		
28560	0.013		
28570	0.012		
28580	0.013		
28590	0.013		
28600	0.012		
28610	0.014		
28620	0.013		
28630	0.013		
28640	0.013		
28650	0.013		
28660	0.013		
28670	0.013		
28680	0.013		
28690	0.013		
28700	0.013		
28710	0.013		
28720	0.013		
28730	0.013		
28740	0.013		
28750	0.012		
28760	0.013		
28770	0.013		
28780	0.012		
28790	0.012		
28800	0.013		
28810	0.012		
28820	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
28830	0.013		
28840	0.012		
28850	0.013		
28860	0.013		
28870	0.013		
28880	0.013		
28890	0.013		
28900	0.013		
28910	0.013		
28920	0.013		
28930	0.013		
28940	0.012		
28950	0.013		
28960	0.012		
28970	0.013		
28980	0.012		
28990	0.012		
29000	0.012		
29010	0.013		
29020	0.012		
29030	0.013		
29040	0.012		
29050	0.013		
29060	0.013		
29070	0.012		
29080	0.013		
29090	0.012		
29100	0.013		
29110	0.013		
29120	0.013		
29130	0.013		
29140	0.013		
29150	0.013		
29160	0.013		
29170	0.013		
29180	0.013		
29190	0.012		
29200	0.013		
29210	0.013		
29220	0.014		
29230	0.014		
29240	0.014		
29250	0.013		
29260	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
29270	0.014		
29280	0.014		
29290	0.014		
29300	0.013		
29310	0.013		
29320	0.013		
29330	0.014		
29340	0.014		
29350	0.013		
29360	0.013		
29370	0.014		
29380	0.013		
29390	0.013		
29400	0.013		
29410	0.013		
29420	0.013		
29430	0.013		
29440	0.013		
29450	0.013		
29460	0.013		
29470	0.014		
29480	0.013		
29490	0.014		
29500	0.013		
29510	0.013		
29520	0.012		
29530	0.013		
29540	0.013		
29550	0.013		
29560	0.013		
29570	0.013		
29580	0.013		
29590	0.012		
29600	0.013		
29610	0.012		
29620	0.012		
29630	0.013		
29640	0.013		
29650	0.013		
29660	0.013		
29670	0.012		
29680	0.013		
29690	0.012		
29700	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
29710	0.012		
29720	0.013		
29730	0.013		
29740	0.013		
29750	0.012		
29760	0.013		
29770	0.012		
29780	0.013		
29790	0.012		
29800	0.013		
29810	0.013		
29820	0.013		
29830	0.012		
29840	0.013		
29850	0.012		
29860	0.013		
29870	0.013		
29880	0.013		
29890	0.013		
29900	0.013		
29910	0.013		
29920	0.013		
29930	0.013		
29940	0.013		
29950	0.013		
29960	0.013		
29970	0.013		
29980	0.013		
29990	0.014		
30000	0.013		
30010	0.014		
30020	0.013		
30030	0.013		
30040	0.014		
30050	0.013		
30060	0.014		
30070	0.013		
30080	0.014		
30090	0.014		
30100	0.014		
30110	0.014		
30120	0.014		
30130	0.013		
30140	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
30150	0.013		
30160	0.013		
30170	0.013		
30180	0.012		
30190	0.013		
30200	0.012		
30210	0.013		
30220	0.013		
30230	0.013		
30240	0.013		
30250	0.013		
30260	0.013		
30270	0.012		
30280	0.013		
30290	0.013		
30300	0.013		
30310	0.014		
30320	0.013		
30330	0.013		
30340	0.013		
30350	0.013		
30360	0.013		
30370	0.013		
30380	0.013		
30390	0.012		
30400	0.013		
30410	0.014		
30420	0.014		
30430	0.013		
30440	0.013		
30450	0.013		
30460	0.013		
30470	0.013		
30480	0.013		
30490	0.013		
30500	0.013		
30510	0.014		
30520	0.013		
30530	0.012		
30540	0.013		
30550	0.013		
30560	0.014		
30570	0.013		
30580	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
30590	0.013		
30600	0.012		
30610	0.013		
30620	0.013		
30630	0.012		
30640	0.013		
30650	0.013		
30660	0.013		
30670	0.013		
30680	0.013		
30690	0.013		
30700	0.013		
30710	0.013		
30720	0.013		
30730	0.013		
30740	0.013		
30750	0.013		
30760	0.013		
30770	0.014		
30780	0.013		
30790	0.013		
30800	0.013		
30810	0.014		
30820	0.014		
30830	0.014		
30840	0.013		
30850	0.013		
30860	0.013		
30870	0.013		
30880	0.014		
30890	0.014		
30900	0.013		
30910	0.013		
30920	0.013		
30930	0.013		
30940	0.013		
30950	0.013		
30960	0.013		
30970	0.012		
30980	0.013		
30990	0.013		
31000	0.012		
31010	0.013		
31020	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
31030	0.013		
31040	0.013		
31050	0.013		
31060	0.013		
31070	0.013		
31080	0.012		
31090	0.013		
31100	0.013		
31110	0.012		
31120	0.012		
31130	0.013		
31140	0.013		
31150	0.012		
31160	0.013		
31170	0.012		
31180	0.012		
31190	0.013		
31200	0.012		
31210	0.012		
31220	0.013		
31230	0.012		
31240	0.013		
31250	0.012		
31260	0.013		
31270	0.012		
31280	0.012		
31290	0.013		
31300	0.012		
31310	0.012		
31320	0.012		
31330	0.012		
31340	0.012		
31350	0.012		
31360	0.012		
31370	0.014		
31380	0.012		
31390	0.012		
31400	0.013		
31410	0.012		
31420	0.012		
31430	0.012		
31440	0.013		
31450	0.012		
31460	0.012		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
31470	0.012		
31480	0.012		
31490	0.013		
31500	0.012		
31510	0.012		
31520	0.012		
31530	0.012		
31540	0.013		
31550	0.012		
31560	0.013		
31570	0.012		
31580	0.012		
31590	0.012		
31600	0.011		
31610	0.012		
31620	0.012		
31630	0.012		
31640	0.012		
31650	0.012		
31660	0.012		
31670	0.012		
31680	0.012		
31690	0.012		
31700	0.012		
31710	0.012		
31720	0.012		
31730	0.012		
31740	0.012		
31750	0.013		
31760	0.012		
31770	0.012		
31780	0.012		
31790	0.013		
31800	0.013		
31810	0.013		
31820	0.013		
31830	0.014		
31840	0.013		
31850	0.013		
31860	0.013		
31870	0.013		
31880	0.013		
31890	0.013		
31900	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
31910	0.013		
31920	0.014		
31930	0.014		
31940	0.013		
31950	0.013		
31960	0.012		
31970	0.012		
31980	0.013		
31990	0.012		
32000	0.012		
32010	0.013		
32020	0.012		
32030	0.013		
32040	0.013		
32050	0.012		
32060	0.013		
32070	0.012		
32080	0.012		
32090	0.013		
32100	0.012		
32110	0.012		
32120	0.012		
32130	0.013		
32140	0.012		
32150	0.013		
32160	0.013		
32170	0.012		
32180	0.012		
32190	0.012		
32200	0.013		
32210	0.013		
32220	0.012		
32230	0.013		
32240	0.013		
32250	0.013		
32260	0.012		
32270	0.012		
32280	0.013		
32290	0.013		
32300	0.013		
32310	0.012		
32320	0.013		
32330	0.013		
32340	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
32350	0.014		
32360	0.013		
32370	0.013		
32380	0.013		
32390	0.015		
32400	0.014		
32410	0.013		
32420	0.013		
32430	0.013		
32440	0.012		
32450	0.012		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Geoprobe 6620 DT	Operator(s): L. Caballero (Cascade), A. Borden (AECOM)
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104204
Firmware Version	3.4
Test Start Time	7:31:01 AM
Test Start Date	12/14/2016
Test Length [D:H:M]	0:08:46
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.026
Mass Minimum [mg/m3]	0.017
Mass Maximum [mg/m3]	0.128
Mass TWA [mg/m3]	0.027
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	3156

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.041		
20	0.044		
30	0.047		
40	0.048		
50	0.048		
60	0.049		
70	0.049		
80	0.05		
90	0.127		
100	0.054		
110	0.051		
120	0.05		
130	0.052		
140	0.051		
150	0.05		
160	0.057		
170	0.05		
180	0.128		
190	0.066		
200	0.072		
210	0.054		
220	0.053		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.05		
240	0.05		
250	0.049		
260	0.05		
270	0.05		
280	0.049		
290	0.049		
300	0.049		
310	0.048		
320	0.048		
330	0.049		
340	0.048		
350	0.048		
360	0.049		
370	0.048		
380	0.048		
390	0.048		
400	0.048		
410	0.05		
420	0.047		
430	0.048		
440	0.048		
450	0.048		
460	0.047		
470	0.047		
480	0.047		
490	0.047		
500	0.048		
510	0.049		
520	0.049		
530	0.048		
540	0.048		
550	0.048		
560	0.047		
570	0.049		
580	0.048		
590	0.048		
600	0.048		
610	0.048		
620	0.048		
630	0.048		
640	0.048		
650	0.048		
660	0.048		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.048		
680	0.048		
690	0.048		
700	0.048		
710	0.048		
720	0.048		
730	0.048		
740	0.048		
750	0.048		
760	0.048		
770	0.048		
780	0.048		
790	0.048		
800	0.048		
810	0.047		
820	0.047		
830	0.047		
840	0.048		
850	0.047		
860	0.048		
870	0.048		
880	0.048		
890	0.048		
900	0.049		
910	0.047		
920	0.048		
930	0.047		
940	0.047		
950	0.047		
960	0.047		
970	0.046		
980	0.046		
990	0.046		
1000	0.046		
1010	0.045		
1020	0.045		
1030	0.045		
1040	0.046		
1050	0.045		
1060	0.045		
1070	0.045		
1080	0.045		
1090	0.045		
1100	0.045		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.044		
1120	0.043		
1130	0.044		
1140	0.043		
1150	0.043		
1160	0.044		
1170	0.043		
1180	0.044		
1190	0.046		
1200	0.043		
1210	0.042		
1220	0.043		
1230	0.042		
1240	0.042		
1250	0.042		
1260	0.043		
1270	0.042		
1280	0.042		
1290	0.041		
1300	0.041		
1310	0.041		
1320	0.042		
1330	0.041		
1340	0.042		
1350	0.04		
1360	0.042		
1370	0.041		
1380	0.041		
1390	0.04		
1400	0.04		
1410	0.041		
1420	0.042		
1430	0.04		
1440	0.041		
1450	0.04		
1460	0.041		
1470	0.039		
1480	0.038		
1490	0.038		
1500	0.039		
1510	0.038		
1520	0.039		
1530	0.038		
1540	0.038		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.039		
1560	0.038		
1570	0.039		
1580	0.038		
1590	0.039		
1600	0.039		
1610	0.038		
1620	0.039		
1630	0.039		
1640	0.039		
1650	0.039		
1660	0.039		
1670	0.038		
1680	0.041		
1690	0.039		
1700	0.038		
1710	0.039		
1720	0.039		
1730	0.038		
1740	0.039		
1750	0.039		
1760	0.038		
1770	0.038		
1780	0.039		
1790	0.038		
1800	0.038		
1810	0.039		
1820	0.038		
1830	0.039		
1840	0.038		
1850	0.041		
1860	0.039		
1870	0.039		
1880	0.039		
1890	0.039		
1900	0.04		
1910	0.039		
1920	0.04		
1930	0.039		
1940	0.04		
1950	0.039		
1960	0.039		
1970	0.041		
1980	0.047		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.044		
2000	0.045		
2010	0.038		
2020	0.039		
2030	0.039		
2040	0.038		
2050	0.037		
2060	0.038		
2070	0.038		
2080	0.041		
2090	0.04		
2100	0.04		
2110	0.04		
2120	0.04		
2130	0.038		
2140	0.038		
2150	0.037		
2160	0.038		
2170	0.037		
2180	0.037		
2190	0.037		
2200	0.037		
2210	0.037		
2220	0.038		
2230	0.036		
2240	0.035		
2250	0.036		
2260	0.035		
2270	0.037		
2280	0.036		
2290	0.036		
2300	0.036		
2310	0.036		
2320	0.04		
2330	0.036		
2340	0.035		
2350	0.036		
2360	0.035		
2370	0.035		
2380	0.035		
2390	0.035		
2400	0.035		
2410	0.036		
2420	0.035		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.036		
2440	0.035		
2450	0.035		
2460	0.034		
2470	0.035		
2480	0.034		
2490	0.034		
2500	0.036		
2510	0.035		
2520	0.035		
2530	0.035		
2540	0.035		
2550	0.035		
2560	0.035		
2570	0.035		
2580	0.035		
2590	0.035		
2600	0.035		
2610	0.036		
2620	0.037		
2630	0.036		
2640	0.035		
2650	0.035		
2660	0.035		
2670	0.035		
2680	0.035		
2690	0.034		
2700	0.035		
2710	0.034		
2720	0.035		
2730	0.035		
2740	0.034		
2750	0.035		
2760	0.035		
2770	0.035		
2780	0.035		
2790	0.035		
2800	0.036		
2810	0.035		
2820	0.035		
2830	0.036		
2840	0.036		
2850	0.035		
2860	0.034		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.035		
2880	0.035		
2890	0.035		
2900	0.036		
2910	0.036		
2920	0.035		
2930	0.035		
2940	0.036		
2950	0.035		
2960	0.034		
2970	0.034		
2980	0.035		
2990	0.035		
3000	0.037		
3010	0.04		
3020	0.037		
3030	0.036		
3040	0.035		
3050	0.036		
3060	0.036		
3070	0.035		
3080	0.034		
3090	0.034		
3100	0.033		
3110	0.034		
3120	0.037		
3130	0.034		
3140	0.033		
3150	0.033		
3160	0.035		
3170	0.032		
3180	0.034		
3190	0.033		
3200	0.032		
3210	0.061		
3220	0.037		
3230	0.034		
3240	0.034		
3250	0.035		
3260	0.034		
3270	0.031		
3280	0.032		
3290	0.032		
3300	0.032		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.032		
3320	0.031		
3330	0.033		
3340	0.032		
3350	0.032		
3360	0.032		
3370	0.032		
3380	0.032		
3390	0.032		
3400	0.032		
3410	0.032		
3420	0.032		
3430	0.032		
3440	0.032		
3450	0.033		
3460	0.032		
3470	0.035		
3480	0.032		
3490	0.032		
3500	0.032		
3510	0.033		
3520	0.032		
3530	0.032		
3540	0.033		
3550	0.033		
3560	0.033		
3570	0.033		
3580	0.033		
3590	0.033		
3600	0.033		
3610	0.033		
3620	0.033		
3630	0.034		
3640	0.034		
3650	0.033		
3660	0.033		
3670	0.033		
3680	0.033		
3690	0.033		
3700	0.033		
3710	0.034		
3720	0.034		
3730	0.034		
3740	0.035		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.032		
3760	0.032		
3770	0.031		
3780	0.03		
3790	0.031		
3800	0.031		
3810	0.031		
3820	0.031		
3830	0.031		
3840	0.031		
3850	0.03		
3860	0.031		
3870	0.03		
3880	0.031		
3890	0.031		
3900	0.031		
3910	0.031		
3920	0.032		
3930	0.032		
3940	0.031		
3950	0.03		
3960	0.031		
3970	0.031		
3980	0.03		
3990	0.03		
4000	0.03		
4010	0.03		
4020	0.03		
4030	0.03		
4040	0.03		
4050	0.03		
4060	0.03		
4070	0.03		
4080	0.03		
4090	0.03		
4100	0.03		
4110	0.029		
4120	0.03		
4130	0.031		
4140	0.03		
4150	0.03		
4160	0.03		
4170	0.03		
4180	0.03		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.029		
4200	0.029		
4210	0.029		
4220	0.029		
4230	0.029		
4240	0.029		
4250	0.03		
4260	0.03		
4270	0.03		
4280	0.03		
4290	0.03		
4300	0.029		
4310	0.029		
4320	0.03		
4330	0.03		
4340	0.03		
4350	0.03		
4360	0.03		
4370	0.03		
4380	0.03		
4390	0.03		
4400	0.03		
4410	0.03		
4420	0.03		
4430	0.03		
4440	0.03		
4450	0.03		
4460	0.03		
4470	0.03		
4480	0.03		
4490	0.03		
4500	0.03		
4510	0.029		
4520	0.029		
4530	0.03		
4540	0.029		
4550	0.03		
4560	0.03		
4570	0.029		
4580	0.029		
4590	0.029		
4600	0.029		
4610	0.029		
4620	0.03		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.03		
4640	0.029		
4650	0.029		
4660	0.029		
4670	0.03		
4680	0.029		
4690	0.03		
4700	0.03		
4710	0.029		
4720	0.028		
4730	0.028		
4740	0.028		
4750	0.028		
4760	0.028		
4770	0.028		
4780	0.028		
4790	0.028		
4800	0.028		
4810	0.028		
4820	0.028		
4830	0.029		
4840	0.03		
4850	0.035		
4860	0.03		
4870	0.029		
4880	0.028		
4890	0.029		
4900	0.029		
4910	0.029		
4920	0.028		
4930	0.029		
4940	0.029		
4950	0.03		
4960	0.029		
4970	0.028		
4980	0.028		
4990	0.028		
5000	0.029		
5010	0.028		
5020	0.029		
5030	0.029		
5040	0.028		
5050	0.029		
5060	0.029		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.031		
5080	0.029		
5090	0.028		
5100	0.029		
5110	0.028		
5120	0.029		
5130	0.028		
5140	0.03		
5150	0.03		
5160	0.031		
5170	0.029		
5180	0.029		
5190	0.028		
5200	0.028		
5210	0.029		
5220	0.029		
5230	0.029		
5240	0.028		
5250	0.029		
5260	0.029		
5270	0.029		
5280	0.028		
5290	0.028		
5300	0.028		
5310	0.028		
5320	0.027		
5330	0.028		
5340	0.028		
5350	0.028		
5360	0.029		
5370	0.028		
5380	0.028		
5390	0.028		
5400	0.028		
5410	0.028		
5420	0.028		
5430	0.028		
5440	0.029		
5450	0.028		
5460	0.029		
5470	0.03		
5480	0.029		
5490	0.028		
5500	0.028		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5510	0.028		
5520	0.028		
5530	0.028		
5540	0.028		
5550	0.028		
5560	0.028		
5570	0.028		
5580	0.028		
5590	0.028		
5600	0.029		
5610	0.029		
5620	0.029		
5630	0.029		
5640	0.029		
5650	0.029		
5660	0.03		
5670	0.03		
5680	0.029		
5690	0.029		
5700	0.028		
5710	0.028		
5720	0.028		
5730	0.029		
5740	0.028		
5750	0.028		
5760	0.028		
5770	0.029		
5780	0.028		
5790	0.028		
5800	0.028		
5810	0.028		
5820	0.029		
5830	0.028		
5840	0.028		
5850	0.028		
5860	0.029		
5870	0.028		
5880	0.028		
5890	0.028		
5900	0.029		
5910	0.028		
5920	0.029		
5930	0.028		
5940	0.029		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5950	0.029		
5960	0.029		
5970	0.029		
5980	0.028		
5990	0.029		
6000	0.028		
6010	0.029		
6020	0.029		
6030	0.029		
6040	0.029		
6050	0.028		
6060	0.029		
6070	0.029		
6080	0.03		
6090	0.029		
6100	0.03		
6110	0.03		
6120	0.03		
6130	0.03		
6140	0.03		
6150	0.03		
6160	0.03		
6170	0.03		
6180	0.03		
6190	0.031		
6200	0.03		
6210	0.03		
6220	0.03		
6230	0.03		
6240	0.03		
6250	0.029		
6260	0.03		
6270	0.029		
6280	0.03		
6290	0.03		
6300	0.03		
6310	0.03		
6320	0.03		
6330	0.03		
6340	0.029		
6350	0.029		
6360	0.03		
6370	0.03		
6380	0.03		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6390	0.03		
6400	0.034		
6410	0.031		
6420	0.03		
6430	0.032		
6440	0.03		
6450	0.03		
6460	0.03		
6470	0.031		
6480	0.03		
6490	0.031		
6500	0.031		
6510	0.03		
6520	0.03		
6530	0.031		
6540	0.032		
6550	0.03		
6560	0.03		
6570	0.03		
6580	0.037		
6590	0.031		
6600	0.03		
6610	0.03		
6620	0.031		
6630	0.03		
6640	0.031		
6650	0.03		
6660	0.03		
6670	0.034		
6680	0.032		
6690	0.03		
6700	0.029		
6710	0.03		
6720	0.029		
6730	0.029		
6740	0.03		
6750	0.03		
6760	0.029		
6770	0.029		
6780	0.03		
6790	0.029		
6800	0.029		
6810	0.03		
6820	0.03		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6830	0.029		
6840	0.029		
6850	0.029		
6860	0.03		
6870	0.03		
6880	0.03		
6890	0.03		
6900	0.03		
6910	0.03		
6920	0.029		
6930	0.03		
6940	0.029		
6950	0.028		
6960	0.029		
6970	0.029		
6980	0.029		
6990	0.03		
7000	0.03		
7010	0.029		
7020	0.029		
7030	0.03		
7040	0.029		
7050	0.03		
7060	0.03		
7070	0.03		
7080	0.03		
7090	0.029		
7100	0.03		
7110	0.029		
7120	0.03		
7130	0.029		
7140	0.029		
7150	0.029		
7160	0.029		
7170	0.029		
7180	0.029		
7190	0.029		
7200	0.029		
7210	0.029		
7220	0.03		
7230	0.031		
7240	0.03		
7250	0.03		
7260	0.03		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7270	0.029		
7280	0.029		
7290	0.029		
7300	0.03		
7310	0.029		
7320	0.03		
7330	0.029		
7340	0.03		
7350	0.03		
7360	0.029		
7370	0.029		
7380	0.029		
7390	0.029		
7400	0.029		
7410	0.029		
7420	0.03		
7430	0.029		
7440	0.029		
7450	0.029		
7460	0.029		
7470	0.029		
7480	0.029		
7490	0.028		
7500	0.029		
7510	0.028		
7520	0.029		
7530	0.028		
7540	0.029		
7550	0.029		
7560	0.029		
7570	0.029		
7580	0.028		
7590	0.029		
7600	0.029		
7610	0.029		
7620	0.029		
7630	0.029		
7640	0.029		
7650	0.029		
7660	0.029		
7670	0.029		
7680	0.029		
7690	0.029		
7700	0.029		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7710	0.029		
7720	0.029		
7730	0.029		
7740	0.029		
7750	0.029		
7760	0.029		
7770	0.029		
7780	0.029		
7790	0.029		
7800	0.029		
7810	0.029		
7820	0.029		
7830	0.028		
7840	0.029		
7850	0.029		
7860	0.03		
7870	0.029		
7880	0.029		
7890	0.028		
7900	0.029		
7910	0.029		
7920	0.029		
7930	0.029		
7940	0.029		
7950	0.029		
7960	0.029		
7970	0.031		
7980	0.029		
7990	0.028		
8000	0.03		
8010	0.029		
8020	0.029		
8030	0.029		
8040	0.029		
8050	0.029		
8060	0.03		
8070	0.029		
8080	0.029		
8090	0.029		
8100	0.029		
8110	0.029		
8120	0.029		
8130	0.029		
8140	0.029		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8150	0.03		
8160	0.029		
8170	0.029		
8180	0.035		
8190	0.029		
8200	0.03		
8210	0.029		
8220	0.029		
8230	0.029		
8240	0.029		
8250	0.029		
8260	0.029		
8270	0.029		
8280	0.03		
8290	0.029		
8300	0.028		
8310	0.031		
8320	0.031		
8330	0.029		
8340	0.029		
8350	0.03		
8360	0.035		
8370	0.031		
8380	0.033		
8390	0.032		
8400	0.03		
8410	0.032		
8420	0.032		
8430	0.028		
8440	0.029		
8450	0.029		
8460	0.028		
8470	0.029		
8480	0.029		
8490	0.029		
8500	0.029		
8510	0.028		
8520	0.028		
8530	0.029		
8540	0.028		
8550	0.032		
8560	0.028		
8570	0.028		
8580	0.028		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8590	0.028		
8600	0.028		
8610	0.028		
8620	0.028		
8630	0.028		
8640	0.028		
8650	0.029		
8660	0.028		
8670	0.028		
8680	0.028		
8690	0.028		
8700	0.028		
8710	0.028		
8720	0.028		
8730	0.028		
8740	0.028		
8750	0.027		
8760	0.028		
8770	0.028		
8780	0.027		
8790	0.028		
8800	0.03		
8810	0.029		
8820	0.028		
8830	0.027		
8840	0.028		
8850	0.027		
8860	0.028		
8870	0.028		
8880	0.028		
8890	0.028		
8900	0.028		
8910	0.028		
8920	0.028		
8930	0.029		
8940	0.028		
8950	0.028		
8960	0.03		
8970	0.03		
8980	0.029		
8990	0.03		
9000	0.031		
9010	0.03		
9020	0.028		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9030	0.028		
9040	0.028		
9050	0.027		
9060	0.028		
9070	0.029		
9080	0.027		
9090	0.028		
9100	0.028		
9110	0.03		
9120	0.027		
9130	0.028		
9140	0.032		
9150	0.028		
9160	0.027		
9170	0.027		
9180	0.027		
9190	0.027		
9200	0.029		
9210	0.027		
9220	0.026		
9230	0.027		
9240	0.026		
9250	0.027		
9260	0.027		
9270	0.027		
9280	0.027		
9290	0.027		
9300	0.028		
9310	0.028		
9320	0.029		
9330	0.027		
9340	0.026		
9350	0.027		
9360	0.027		
9370	0.027		
9380	0.027		
9390	0.028		
9400	0.027		
9410	0.028		
9420	0.028		
9430	0.029		
9440	0.028		
9450	0.028		
9460	0.027		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9470	0.027		
9480	0.026		
9490	0.027		
9500	0.027		
9510	0.027		
9520	0.027		
9530	0.027		
9540	0.027		
9550	0.026		
9560	0.028		
9570	0.026		
9580	0.026		
9590	0.027		
9600	0.026		
9610	0.027		
9620	0.026		
9630	0.028		
9640	0.027		
9650	0.026		
9660	0.026		
9670	0.026		
9680	0.027		
9690	0.027		
9700	0.026		
9710	0.027		
9720	0.028		
9730	0.027		
9740	0.026		
9750	0.026		
9760	0.026		
9770	0.026		
9780	0.026		
9790	0.027		
9800	0.026		
9810	0.026		
9820	0.026		
9830	0.025		
9840	0.026		
9850	0.025		
9860	0.026		
9870	0.028		
9880	0.026		
9890	0.025		
9900	0.026		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9910	0.026		
9920	0.026		
9930	0.026		
9940	0.025		
9950	0.025		
9960	0.025		
9970	0.028		
9980	0.029		
9990	0.027		
10000	0.025		
10010	0.025		
10020	0.026		
10030	0.025		
10040	0.026		
10050	0.027		
10060	0.027		
10070	0.029		
10080	0.026		
10090	0.025		
10100	0.025		
10110	0.025		
10120	0.025		
10130	0.025		
10140	0.025		
10150	0.025		
10160	0.025		
10170	0.026		
10180	0.025		
10190	0.026		
10200	0.025		
10210	0.026		
10220	0.025		
10230	0.025		
10240	0.027		
10250	0.028		
10260	0.026		
10270	0.025		
10280	0.025		
10290	0.026		
10300	0.025		
10310	0.025		
10320	0.025		
10330	0.025		
10340	0.026		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10350	0.026		
10360	0.025		
10370	0.025		
10380	0.025		
10390	0.025		
10400	0.028		
10410	0.028		
10420	0.027		
10430	0.026		
10440	0.026		
10450	0.027		
10460	0.026		
10470	0.025		
10480	0.026		
10490	0.025		
10500	0.025		
10510	0.025		
10520	0.028		
10530	0.027		
10540	0.026		
10550	0.026		
10560	0.025		
10570	0.027		
10580	0.027		
10590	0.026		
10600	0.025		
10610	0.026		
10620	0.025		
10630	0.025		
10640	0.025		
10650	0.027		
10660	0.027		
10670	0.025		
10680	0.025		
10690	0.026		
10700	0.028		
10710	0.029		
10720	0.025		
10730	0.025		
10740	0.026		
10750	0.025		
10760	0.027		
10770	0.026		
10780	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10790	0.025		
10800	0.025		
10810	0.028		
10820	0.026		
10830	0.026		
10840	0.026		
10850	0.025		
10860	0.025		
10870	0.027		
10880	0.027		
10890	0.027		
10900	0.025		
10910	0.026		
10920	0.025		
10930	0.025		
10940	0.025		
10950	0.025		
10960	0.025		
10970	0.025		
10980	0.025		
10990	0.026		
11000	0.026		
11010	0.026		
11020	0.027		
11030	0.026		
11040	0.025		
11050	0.025		
11060	0.026		
11070	0.026		
11080	0.025		
11090	0.025		
11100	0.025		
11110	0.025		
11120	0.026		
11130	0.025		
11140	0.025		
11150	0.025		
11160	0.025		
11170	0.025		
11180	0.025		
11190	0.025		
11200	0.025		
11210	0.025		
11220	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11230	0.025		
11240	0.025		
11250	0.025		
11260	0.025		
11270	0.025		
11280	0.025		
11290	0.025		
11300	0.024		
11310	0.025		
11320	0.025		
11330	0.025		
11340	0.026		
11350	0.025		
11360	0.025		
11370	0.024		
11380	0.025		
11390	0.025		
11400	0.025		
11410	0.025		
11420	0.024		
11430	0.025		
11440	0.025		
11450	0.024		
11460	0.025		
11470	0.025		
11480	0.025		
11490	0.025		
11500	0.025		
11510	0.024		
11520	0.024		
11530	0.024		
11540	0.025		
11550	0.026		
11560	0.024		
11570	0.024		
11580	0.025		
11590	0.026		
11600	0.026		
11610	0.024		
11620	0.024		
11630	0.025		
11640	0.025		
11650	0.024		
11660	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11670	0.024		
11680	0.024		
11690	0.024		
11700	0.024		
11710	0.024		
11720	0.024		
11730	0.024		
11740	0.024		
11750	0.024		
11760	0.024		
11770	0.024		
11780	0.024		
11790	0.024		
11800	0.024		
11810	0.025		
11820	0.024		
11830	0.024		
11840	0.024		
11850	0.024		
11860	0.024		
11870	0.024		
11880	0.025		
11890	0.024		
11900	0.025		
11910	0.025		
11920	0.024		
11930	0.024		
11940	0.024		
11950	0.024		
11960	0.027		
11970	0.026		
11980	0.024		
11990	0.024		
12000	0.026		
12010	0.025		
12020	0.026		
12030	0.024		
12040	0.024		
12050	0.026		
12060	0.024		
12070	0.024		
12080	0.024		
12090	0.023		
12100	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12110	0.023		
12120	0.024		
12130	0.024		
12140	0.025		
12150	0.023		
12160	0.023		
12170	0.023		
12180	0.024		
12190	0.023		
12200	0.023		
12210	0.023		
12220	0.023		
12230	0.022		
12240	0.023		
12250	0.023		
12260	0.023		
12270	0.023		
12280	0.023		
12290	0.023		
12300	0.023		
12310	0.023		
12320	0.023		
12330	0.024		
12340	0.023		
12350	0.023		
12360	0.023		
12370	0.024		
12380	0.023		
12390	0.023		
12400	0.023		
12410	0.023		
12420	0.023		
12430	0.023		
12440	0.023		
12450	0.024		
12460	0.023		
12470	0.023		
12480	0.023		
12490	0.023		
12500	0.023		
12510	0.023		
12520	0.024		
12530	0.023		
12540	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12550	0.022		
12560	0.022		
12570	0.023		
12580	0.023		
12590	0.023		
12600	0.023		
12610	0.022		
12620	0.023		
12630	0.023		
12640	0.023		
12650	0.022		
12660	0.022		
12670	0.022		
12680	0.022		
12690	0.022		
12700	0.022		
12710	0.022		
12720	0.022		
12730	0.023		
12740	0.022		
12750	0.022		
12760	0.023		
12770	0.022		
12780	0.023		
12790	0.022		
12800	0.022		
12810	0.023		
12820	0.022		
12830	0.023		
12840	0.022		
12850	0.022		
12860	0.022		
12870	0.022		
12880	0.022		
12890	0.022		
12900	0.022		
12910	0.022		
12920	0.023		
12930	0.022		
12940	0.023		
12950	0.023		
12960	0.022		
12970	0.023		
12980	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12990	0.023		
13000	0.022		
13010	0.023		
13020	0.022		
13030	0.022		
13040	0.024		
13050	0.022		
13060	0.022		
13070	0.022		
13080	0.023		
13090	0.022		
13100	0.022		
13110	0.022		
13120	0.022		
13130	0.023		
13140	0.023		
13150	0.022		
13160	0.022		
13170	0.022		
13180	0.022		
13190	0.022		
13200	0.022		
13210	0.022		
13220	0.022		
13230	0.022		
13240	0.022		
13250	0.021		
13260	0.021		
13270	0.021		
13280	0.021		
13290	0.021		
13300	0.021		
13310	0.021		
13320	0.021		
13330	0.021		
13340	0.021		
13350	0.021		
13360	0.021		
13370	0.02		
13380	0.021		
13390	0.021		
13400	0.02		
13410	0.02		
13420	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
13430	0.021		
13440	0.02		
13450	0.021		
13460	0.021		
13470	0.02		
13480	0.02		
13490	0.02		
13500	0.02		
13510	0.02		
13520	0.02		
13530	0.02		
13540	0.02		
13550	0.022		
13560	0.02		
13570	0.02		
13580	0.02		
13590	0.02		
13600	0.02		
13610	0.019		
13620	0.02		
13630	0.02		
13640	0.02		
13650	0.02		
13660	0.02		
13670	0.021		
13680	0.02		
13690	0.019		
13700	0.02		
13710	0.021		
13720	0.02		
13730	0.021		
13740	0.021		
13750	0.021		
13760	0.02		
13770	0.02		
13780	0.02		
13790	0.021		
13800	0.02		
13810	0.021		
13820	0.02		
13830	0.02		
13840	0.02		
13850	0.02		
13860	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
13870	0.02		
13880	0.02		
13890	0.02		
13900	0.02		
13910	0.02		
13920	0.02		
13930	0.02		
13940	0.02		
13950	0.02		
13960	0.02		
13970	0.02		
13980	0.02		
13990	0.019		
14000	0.02		
14010	0.019		
14020	0.02		
14030	0.02		
14040	0.019		
14050	0.019		
14060	0.02		
14070	0.021		
14080	0.02		
14090	0.02		
14100	0.02		
14110	0.019		
14120	0.019		
14130	0.02		
14140	0.022		
14150	0.02		
14160	0.021		
14170	0.021		
14180	0.021		
14190	0.022		
14200	0.022		
14210	0.02		
14220	0.019		
14230	0.02		
14240	0.02		
14250	0.02		
14260	0.019		
14270	0.02		
14280	0.02		
14290	0.019		
14300	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14310	0.019		
14320	0.019		
14330	0.02		
14340	0.02		
14350	0.019		
14360	0.018		
14370	0.019		
14380	0.019		
14390	0.019		
14400	0.019		
14410	0.021		
14420	0.02		
14430	0.019		
14440	0.018		
14450	0.018		
14460	0.018		
14470	0.019		
14480	0.019		
14490	0.022		
14500	0.021		
14510	0.019		
14520	0.018		
14530	0.018		
14540	0.018		
14550	0.018		
14560	0.018		
14570	0.017		
14580	0.017		
14590	0.017		
14600	0.018		
14610	0.018		
14620	0.017		
14630	0.017		
14640	0.017		
14650	0.017		
14660	0.017		
14670	0.017		
14680	0.017		
14690	0.017		
14700	0.017		
14710	0.017		
14720	0.018		
14730	0.017		
14740	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14750	0.018		
14760	0.017		
14770	0.018		
14780	0.018		
14790	0.019		
14800	0.02		
14810	0.018		
14820	0.019		
14830	0.019		
14840	0.018		
14850	0.019		
14860	0.019		
14870	0.02		
14880	0.019		
14890	0.023		
14900	0.02		
14910	0.019		
14920	0.02		
14930	0.019		
14940	0.02		
14950	0.02		
14960	0.02		
14970	0.02		
14980	0.02		
14990	0.02		
15000	0.02		
15010	0.02		
15020	0.02		
15030	0.021		
15040	0.02		
15050	0.021		
15060	0.02		
15070	0.02		
15080	0.02		
15090	0.02		
15100	0.02		
15110	0.02		
15120	0.02		
15130	0.021		
15140	0.021		
15150	0.02		
15160	0.021		
15170	0.02		
15180	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15190	0.022		
15200	0.021		
15210	0.021		
15220	0.021		
15230	0.023		
15240	0.021		
15250	0.021		
15260	0.021		
15270	0.021		
15280	0.02		
15290	0.021		
15300	0.021		
15310	0.021		
15320	0.021		
15330	0.021		
15340	0.021		
15350	0.021		
15360	0.021		
15370	0.021		
15380	0.021		
15390	0.021		
15400	0.021		
15410	0.021		
15420	0.021		
15430	0.022		
15440	0.022		
15450	0.023		
15460	0.021		
15470	0.02		
15480	0.02		
15490	0.02		
15500	0.021		
15510	0.021		
15520	0.021		
15530	0.021		
15540	0.021		
15550	0.021		
15560	0.021		
15570	0.021		
15580	0.02		
15590	0.02		
15600	0.022		
15610	0.021		
15620	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15630	0.02		
15640	0.021		
15650	0.021		
15660	0.021		
15670	0.021		
15680	0.02		
15690	0.02		
15700	0.021		
15710	0.021		
15720	0.021		
15730	0.021		
15740	0.021		
15750	0.021		
15760	0.021		
15770	0.021		
15780	0.021		
15790	0.021		
15800	0.021		
15810	0.021		
15820	0.021		
15830	0.026		
15840	0.036		
15850	0.028		
15860	0.025		
15870	0.022		
15880	0.02		
15890	0.02		
15900	0.021		
15910	0.02		
15920	0.02		
15930	0.02		
15940	0.02		
15950	0.02		
15960	0.019		
15970	0.019		
15980	0.019		
15990	0.019		
16000	0.019		
16010	0.019		
16020	0.019		
16030	0.018		
16040	0.019		
16050	0.018		
16060	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16070	0.019		
16080	0.02		
16090	0.02		
16100	0.019		
16110	0.023		
16120	0.023		
16130	0.02		
16140	0.02		
16150	0.019		
16160	0.021		
16170	0.022		
16180	0.02		
16190	0.02		
16200	0.02		
16210	0.02		
16220	0.019		
16230	0.019		
16240	0.02		
16250	0.019		
16260	0.019		
16270	0.02		
16280	0.02		
16290	0.019		
16300	0.021		
16310	0.024		
16320	0.023		
16330	0.023		
16340	0.021		
16350	0.02		
16360	0.032		
16370	0.025		
16380	0.021		
16390	0.021		
16400	0.02		
16410	0.02		
16420	0.02		
16430	0.02		
16440	0.02		
16450	0.02		
16460	0.019		
16470	0.02		
16480	0.02		
16490	0.019		
16500	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16510	0.02		
16520	0.021		
16530	0.022		
16540	0.028		
16550	0.021		
16560	0.021		
16570	0.021		
16580	0.021		
16590	0.02		
16600	0.021		
16610	0.021		
16620	0.021		
16630	0.021		
16640	0.022		
16650	0.022		
16660	0.022		
16670	0.022		
16680	0.022		
16690	0.023		
16700	0.022		
16710	0.023		
16720	0.022		
16730	0.023		
16740	0.022		
16750	0.023		
16760	0.022		
16770	0.022		
16780	0.023		
16790	0.022		
16800	0.022		
16810	0.022		
16820	0.022		
16830	0.022		
16840	0.023		
16850	0.022		
16860	0.023		
16870	0.022		
16880	0.023		
16890	0.023		
16900	0.023		
16910	0.022		
16920	0.022		
16930	0.023		
16940	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16950	0.023		
16960	0.023		
16970	0.023		
16980	0.024		
16990	0.024		
17000	0.024		
17010	0.024		
17020	0.024		
17030	0.024		
17040	0.023		
17050	0.024		
17060	0.024		
17070	0.024		
17080	0.024		
17090	0.025		
17100	0.024		
17110	0.024		
17120	0.024		
17130	0.024		
17140	0.024		
17150	0.023		
17160	0.024		
17170	0.024		
17180	0.025		
17190	0.024		
17200	0.025		
17210	0.024		
17220	0.024		
17230	0.025		
17240	0.026		
17250	0.025		
17260	0.024		
17270	0.024		
17280	0.024		
17290	0.024		
17300	0.025		
17310	0.023		
17320	0.024		
17330	0.024		
17340	0.024		
17350	0.023		
17360	0.025		
17370	0.024		
17380	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17390	0.023		
17400	0.023		
17410	0.023		
17420	0.023		
17430	0.023		
17440	0.023		
17450	0.023		
17460	0.023		
17470	0.023		
17480	0.023		
17490	0.023		
17500	0.023		
17510	0.023		
17520	0.023		
17530	0.023		
17540	0.022		
17550	0.023		
17560	0.023		
17570	0.022		
17580	0.023		
17590	0.023		
17600	0.023		
17610	0.022		
17620	0.023		
17630	0.022		
17640	0.022		
17650	0.021		
17660	0.022		
17670	0.022		
17680	0.022		
17690	0.022		
17700	0.022		
17710	0.022		
17720	0.023		
17730	0.023		
17740	0.023		
17750	0.031		
17760	0.023		
17770	0.023		
17780	0.03		
17790	0.025		
17800	0.023		
17810	0.023		
17820	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17830	0.023		
17840	0.024		
17850	0.024		
17860	0.024		
17870	0.025		
17880	0.025		
17890	0.025		
17900	0.025		
17910	0.025		
17920	0.025		
17930	0.025		
17940	0.025		
17950	0.025		
17960	0.024		
17970	0.024		
17980	0.025		
17990	0.025		
18000	0.025		
18010	0.027		
18020	0.025		
18030	0.025		
18040	0.024		
18050	0.025		
18060	0.024		
18070	0.024		
18080	0.024		
18090	0.024		
18100	0.024		
18110	0.026		
18120	0.026		
18130	0.026		
18140	0.026		
18150	0.026		
18160	0.026		
18170	0.026		
18180	0.026		
18190	0.026		
18200	0.027		
18210	0.026		
18220	0.027		
18230	0.026		
18240	0.027		
18250	0.027		
18260	0.028		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
18270	0.028		
18280	0.028		
18290	0.028		
18300	0.028		
18310	0.028		
18320	0.027		
18330	0.028		
18340	0.028		
18350	0.029		
18360	0.029		
18370	0.029		
18380	0.029		
18390	0.028		
18400	0.029		
18410	0.029		
18420	0.029		
18430	0.03		
18440	0.028		
18450	0.029		
18460	0.029		
18470	0.029		
18480	0.028		
18490	0.028		
18500	0.028		
18510	0.028		
18520	0.028		
18530	0.027		
18540	0.027		
18550	0.026		
18560	0.026		
18570	0.026		
18580	0.026		
18590	0.026		
18600	0.027		
18610	0.027		
18620	0.026		
18630	0.026		
18640	0.026		
18650	0.026		
18660	0.026		
18670	0.026		
18680	0.026		
18690	0.026		
18700	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
18710	0.025		
18720	0.024		
18730	0.024		
18740	0.024		
18750	0.023		
18760	0.024		
18770	0.024		
18780	0.023		
18790	0.023		
18800	0.024		
18810	0.023		
18820	0.024		
18830	0.024		
18840	0.025		
18850	0.025		
18860	0.025		
18870	0.025		
18880	0.025		
18890	0.025		
18900	0.025		
18910	0.026		
18920	0.024		
18930	0.025		
18940	0.025		
18950	0.025		
18960	0.026		
18970	0.026		
18980	0.025		
18990	0.026		
19000	0.026		
19010	0.026		
19020	0.026		
19030	0.026		
19040	0.027		
19050	0.026		
19060	0.026		
19070	0.026		
19080	0.026		
19090	0.026		
19100	0.026		
19110	0.025		
19120	0.026		
19130	0.026		
19140	0.026		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
19150	0.028		
19160	0.026		
19170	0.025		
19180	0.026		
19190	0.027		
19200	0.025		
19210	0.026		
19220	0.026		
19230	0.026		
19240	0.026		
19250	0.026		
19260	0.025		
19270	0.026		
19280	0.026		
19290	0.026		
19300	0.026		
19310	0.026		
19320	0.026		
19330	0.025		
19340	0.026		
19350	0.026		
19360	0.026		
19370	0.026		
19380	0.026		
19390	0.025		
19400	0.025		
19410	0.025		
19420	0.025		
19430	0.025		
19440	0.025		
19450	0.025		
19460	0.026		
19470	0.025		
19480	0.025		
19490	0.025		
19500	0.025		
19510	0.025		
19520	0.025		
19530	0.025		
19540	0.025		
19550	0.025		
19560	0.024		
19570	0.024		
19580	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
19590	0.025		
19600	0.024		
19610	0.024		
19620	0.025		
19630	0.024		
19640	0.024		
19650	0.024		
19660	0.026		
19670	0.024		
19680	0.025		
19690	0.025		
19700	0.025		
19710	0.024		
19720	0.025		
19730	0.024		
19740	0.025		
19750	0.025		
19760	0.025		
19770	0.024		
19780	0.024		
19790	0.024		
19800	0.025		
19810	0.026		
19820	0.025		
19830	0.025		
19840	0.025		
19850	0.026		
19860	0.025		
19870	0.025		
19880	0.025		
19890	0.025		
19900	0.025		
19910	0.026		
19920	0.025		
19930	0.026		
19940	0.025		
19950	0.026		
19960	0.026		
19970	0.026		
19980	0.026		
19990	0.025		
20000	0.025		
20010	0.025		
20020	0.026		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20030	0.026		
20040	0.026		
20050	0.026		
20060	0.025		
20070	0.026		
20080	0.026		
20090	0.026		
20100	0.026		
20110	0.025		
20120	0.026		
20130	0.026		
20140	0.026		
20150	0.026		
20160	0.026		
20170	0.027		
20180	0.026		
20190	0.026		
20200	0.027		
20210	0.028		
20220	0.027		
20230	0.027		
20240	0.028		
20250	0.027		
20260	0.027		
20270	0.027		
20280	0.027		
20290	0.027		
20300	0.027		
20310	0.027		
20320	0.027		
20330	0.027		
20340	0.027		
20350	0.027		
20360	0.028		
20370	0.027		
20380	0.027		
20390	0.027		
20400	0.028		
20410	0.028		
20420	0.028		
20430	0.028		
20440	0.028		
20450	0.028		
20460	0.028		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20470	0.028		
20480	0.027		
20490	0.028		
20500	0.028		
20510	0.028		
20520	0.028		
20530	0.027		
20540	0.027		
20550	0.028		
20560	0.027		
20570	0.027		
20580	0.027		
20590	0.028		
20600	0.027		
20610	0.027		
20620	0.027		
20630	0.028		
20640	0.033		
20650	0.029		
20660	0.027		
20670	0.028		
20680	0.028		
20690	0.028		
20700	0.027		
20710	0.027		
20720	0.028		
20730	0.028		
20740	0.027		
20750	0.028		
20760	0.027		
20770	0.028		
20780	0.028		
20790	0.028		
20800	0.028		
20810	0.028		
20820	0.027		
20830	0.028		
20840	0.029		
20850	0.028		
20860	0.028		
20870	0.028		
20880	0.028		
20890	0.028		
20900	0.027		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20910	0.027		
20920	0.027		
20930	0.028		
20940	0.027		
20950	0.027		
20960	0.028		
20970	0.028		
20980	0.027		
20990	0.028		
21000	0.027		
21010	0.029		
21020	0.026		
21030	0.028		
21040	0.027		
21050	0.027		
21060	0.028		
21070	0.027		
21080	0.028		
21090	0.027		
21100	0.027		
21110	0.027		
21120	0.027		
21130	0.028		
21140	0.028		
21150	0.028		
21160	0.027		
21170	0.027		
21180	0.027		
21190	0.027		
21200	0.027		
21210	0.027		
21220	0.027		
21230	0.028		
21240	0.027		
21250	0.028		
21260	0.027		
21270	0.027		
21280	0.028		
21290	0.027		
21300	0.027		
21310	0.027		
21320	0.027		
21330	0.027		
21340	0.026		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
21350	0.026		
21360	0.025		
21370	0.026		
21380	0.026		
21390	0.026		
21400	0.026		
21410	0.026		
21420	0.026		
21430	0.025		
21440	0.027		
21450	0.027		
21460	0.026		
21470	0.026		
21480	0.026		
21490	0.026		
21500	0.026		
21510	0.026		
21520	0.026		
21530	0.026		
21540	0.026		
21550	0.025		
21560	0.026		
21570	0.026		
21580	0.026		
21590	0.026		
21600	0.025		
21610	0.026		
21620	0.026		
21630	0.026		
21640	0.025		
21650	0.026		
21660	0.026		
21670	0.026		
21680	0.026		
21690	0.026		
21700	0.027		
21710	0.026		
21720	0.026		
21730	0.026		
21740	0.026		
21750	0.028		
21760	0.026		
21770	0.026		
21780	0.026		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
21790	0.027		
21800	0.025		
21810	0.025		
21820	0.026		
21830	0.026		
21840	0.026		
21850	0.026		
21860	0.026		
21870	0.026		
21880	0.026		
21890	0.026		
21900	0.026		
21910	0.026		
21920	0.026		
21930	0.03		
21940	0.031		
21950	0.026		
21960	0.025		
21970	0.029		
21980	0.027		
21990	0.028		
22000	0.026		
22010	0.027		
22020	0.03		
22030	0.04		
22040	0.036		
22050	0.03		
22060	0.027		
22070	0.025		
22080	0.025		
22090	0.036		
22100	0.04		
22110	0.033		
22120	0.034		
22130	0.037		
22140	0.034		
22150	0.027		
22160	0.046		
22170	0.03		
22180	0.032		
22190	0.028		
22200	0.026		
22210	0.026		
22220	0.026		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
22230	0.026		
22240	0.027		
22250	0.026		
22260	0.026		
22270	0.025		
22280	0.025		
22290	0.027		
22300	0.026		
22310	0.026		
22320	0.025		
22330	0.025		
22340	0.025		
22350	0.025		
22360	0.025		
22370	0.026		
22380	0.026		
22390	0.025		
22400	0.027		
22410	0.027		
22420	0.026		
22430	0.025		
22440	0.026		
22450	0.026		
22460	0.025		
22470	0.026		
22480	0.025		
22490	0.026		
22500	0.025		
22510	0.025		
22520	0.025		
22530	0.027		
22540	0.026		
22550	0.026		
22560	0.025		
22570	0.026		
22580	0.025		
22590	0.025		
22600	0.026		
22610	0.026		
22620	0.026		
22630	0.025		
22640	0.026		
22650	0.025		
22660	0.025		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
22670	0.025		
22680	0.026		
22690	0.025		
22700	0.026		
22710	0.026		
22720	0.025		
22730	0.025		
22740	0.025		
22750	0.025		
22760	0.026		
22770	0.026		
22780	0.025		
22790	0.025		
22800	0.025		
22810	0.025		
22820	0.025		
22830	0.025		
22840	0.025		
22850	0.025		
22860	0.025		
22870	0.025		
22880	0.025		
22890	0.025		
22900	0.025		
22910	0.024		
22920	0.025		
22930	0.025		
22940	0.024		
22950	0.025		
22960	0.024		
22970	0.025		
22980	0.024		
22990	0.024		
23000	0.025		
23010	0.024		
23020	0.025		
23030	0.025		
23040	0.025		
23050	0.024		
23060	0.024		
23070	0.024		
23080	0.025		
23090	0.024		
23100	0.024		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23110	0.024		
23120	0.025		
23130	0.024		
23140	0.024		
23150	0.024		
23160	0.024		
23170	0.024		
23180	0.024		
23190	0.024		
23200	0.024		
23210	0.024		
23220	0.024		
23230	0.024		
23240	0.024		
23250	0.024		
23260	0.024		
23270	0.024		
23280	0.023		
23290	0.024		
23300	0.024		
23310	0.024		
23320	0.023		
23330	0.024		
23340	0.024		
23350	0.023		
23360	0.024		
23370	0.024		
23380	0.024		
23390	0.024		
23400	0.023		
23410	0.024		
23420	0.023		
23430	0.023		
23440	0.027		
23450	0.023		
23460	0.024		
23470	0.023		
23480	0.023		
23490	0.024		
23500	0.023		
23510	0.023		
23520	0.023		
23530	0.023		
23540	0.023		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23550	0.023		
23560	0.023		
23570	0.023		
23580	0.023		
23590	0.023		
23600	0.023		
23610	0.023		
23620	0.023		
23630	0.023		
23640	0.023		
23650	0.023		
23660	0.023		
23670	0.023		
23680	0.023		
23690	0.023		
23700	0.023		
23710	0.022		
23720	0.023		
23730	0.023		
23740	0.023		
23750	0.024		
23760	0.023		
23770	0.023		
23780	0.023		
23790	0.022		
23800	0.023		
23810	0.023		
23820	0.023		
23830	0.023		
23840	0.023		
23850	0.022		
23860	0.022		
23870	0.023		
23880	0.023		
23890	0.023		
23900	0.022		
23910	0.023		
23920	0.023		
23930	0.022		
23940	0.022		
23950	0.023		
23960	0.023		
23970	0.022		
23980	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23990	0.022		
24000	0.022		
24010	0.022		
24020	0.022		
24030	0.022		
24040	0.022		
24050	0.022		
24060	0.023		
24070	0.022		
24080	0.022		
24090	0.022		
24100	0.022		
24110	0.022		
24120	0.021		
24130	0.022		
24140	0.022		
24150	0.022		
24160	0.022		
24170	0.022		
24180	0.022		
24190	0.022		
24200	0.022		
24210	0.022		
24220	0.021		
24230	0.022		
24240	0.023		
24250	0.022		
24260	0.023		
24270	0.022		
24280	0.022		
24290	0.022		
24300	0.022		
24310	0.022		
24320	0.022		
24330	0.022		
24340	0.022		
24350	0.022		
24360	0.022		
24370	0.022		
24380	0.022		
24390	0.022		
24400	0.022		
24410	0.021		
24420	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
24430	0.021		
24440	0.022		
24450	0.021		
24460	0.022		
24470	0.022		
24480	0.022		
24490	0.022		
24500	0.022		
24510	0.022		
24520	0.021		
24530	0.022		
24540	0.021		
24550	0.021		
24560	0.025		
24570	0.022		
24580	0.021		
24590	0.022		
24600	0.021		
24610	0.021		
24620	0.021		
24630	0.021		
24640	0.021		
24650	0.021		
24660	0.021		
24670	0.021		
24680	0.021		
24690	0.021		
24700	0.021		
24710	0.022		
24720	0.021		
24730	0.021		
24740	0.022		
24750	0.021		
24760	0.021		
24770	0.021		
24780	0.021		
24790	0.021		
24800	0.021		
24810	0.021		
24820	0.022		
24830	0.021		
24840	0.021		
24850	0.021		
24860	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
24870	0.021		
24880	0.022		
24890	0.021		
24900	0.022		
24910	0.021		
24920	0.021		
24930	0.021		
24940	0.021		
24950	0.021		
24960	0.021		
24970	0.022		
24980	0.021		
24990	0.021		
25000	0.021		
25010	0.021		
25020	0.021		
25030	0.021		
25040	0.02		
25050	0.021		
25060	0.021		
25070	0.021		
25080	0.021		
25090	0.021		
25100	0.021		
25110	0.02		
25120	0.021		
25130	0.021		
25140	0.021		
25150	0.021		
25160	0.021		
25170	0.021		
25180	0.021		
25190	0.021		
25200	0.021		
25210	0.021		
25220	0.021		
25230	0.02		
25240	0.02		
25250	0.02		
25260	0.021		
25270	0.02		
25280	0.021		
25290	0.021		
25300	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
25310	0.024		
25320	0.021		
25330	0.02		
25340	0.021		
25350	0.021		
25360	0.021		
25370	0.02		
25380	0.021		
25390	0.02		
25400	0.02		
25410	0.02		
25420	0.02		
25430	0.02		
25440	0.02		
25450	0.02		
25460	0.02		
25470	0.02		
25480	0.02		
25490	0.021		
25500	0.02		
25510	0.02		
25520	0.02		
25530	0.021		
25540	0.02		
25550	0.02		
25560	0.02		
25570	0.02		
25580	0.02		
25590	0.02		
25600	0.02		
25610	0.02		
25620	0.02		
25630	0.021		
25640	0.02		
25650	0.021		
25660	0.02		
25670	0.02		
25680	0.021		
25690	0.021		
25700	0.021		
25710	0.02		
25720	0.021		
25730	0.02		
25740	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
25750	0.02		
25760	0.02		
25770	0.021		
25780	0.02		
25790	0.02		
25800	0.02		
25810	0.021		
25820	0.021		
25830	0.021		
25840	0.021		
25850	0.021		
25860	0.02		
25870	0.02		
25880	0.021		
25890	0.02		
25900	0.02		
25910	0.021		
25920	0.021		
25930	0.021		
25940	0.021		
25950	0.02		
25960	0.021		
25970	0.021		
25980	0.02		
25990	0.02		
26000	0.02		
26010	0.021		
26020	0.021		
26030	0.02		
26040	0.02		
26050	0.021		
26060	0.02		
26070	0.02		
26080	0.021		
26090	0.021		
26100	0.02		
26110	0.02		
26120	0.021		
26130	0.02		
26140	0.021		
26150	0.021		
26160	0.02		
26170	0.02		
26180	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26190	0.021		
26200	0.021		
26210	0.02		
26220	0.02		
26230	0.021		
26240	0.021		
26250	0.021		
26260	0.022		
26270	0.021		
26280	0.021		
26290	0.021		
26300	0.021		
26310	0.021		
26320	0.021		
26330	0.02		
26340	0.021		
26350	0.021		
26360	0.02		
26370	0.02		
26380	0.02		
26390	0.02		
26400	0.021		
26410	0.02		
26420	0.02		
26430	0.021		
26440	0.021		
26450	0.02		
26460	0.022		
26470	0.021		
26480	0.021		
26490	0.021		
26500	0.02		
26510	0.02		
26520	0.021		
26530	0.02		
26540	0.02		
26550	0.02		
26560	0.02		
26570	0.021		
26580	0.021		
26590	0.021		
26600	0.02		
26610	0.021		
26620	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26630	0.021		
26640	0.021		
26650	0.021		
26660	0.02		
26670	0.02		
26680	0.021		
26690	0.02		
26700	0.021		
26710	0.02		
26720	0.021		
26730	0.02		
26740	0.02		
26750	0.021		
26760	0.021		
26770	0.021		
26780	0.021		
26790	0.021		
26800	0.021		
26810	0.021		
26820	0.021		
26830	0.021		
26840	0.021		
26850	0.021		
26860	0.021		
26870	0.021		
26880	0.021		
26890	0.022		
26900	0.021		
26910	0.02		
26920	0.021		
26930	0.021		
26940	0.021		
26950	0.02		
26960	0.021		
26970	0.021		
26980	0.021		
26990	0.021		
27000	0.021		
27010	0.021		
27020	0.021		
27030	0.02		
27040	0.02		
27050	0.021		
27060	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
27070	0.02		
27080	0.021		
27090	0.021		
27100	0.021		
27110	0.02		
27120	0.021		
27130	0.02		
27140	0.021		
27150	0.021		
27160	0.021		
27170	0.021		
27180	0.021		
27190	0.02		
27200	0.021		
27210	0.021		
27220	0.022		
27230	0.025		
27240	0.023		
27250	0.021		
27260	0.021		
27270	0.021		
27280	0.02		
27290	0.021		
27300	0.021		
27310	0.021		
27320	0.021		
27330	0.021		
27340	0.021		
27350	0.02		
27360	0.021		
27370	0.02		
27380	0.021		
27390	0.021		
27400	0.021		
27410	0.021		
27420	0.021		
27430	0.021		
27440	0.021		
27450	0.02		
27460	0.021		
27470	0.021		
27480	0.021		
27490	0.021		
27500	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
27510	0.021		
27520	0.021		
27530	0.021		
27540	0.021		
27550	0.021		
27560	0.021		
27570	0.021		
27580	0.021		
27590	0.021		
27600	0.021		
27610	0.022		
27620	0.027		
27630	0.025		
27640	0.022		
27650	0.021		
27660	0.021		
27670	0.021		
27680	0.021		
27690	0.021		
27700	0.021		
27710	0.02		
27720	0.02		
27730	0.021		
27740	0.021		
27750	0.021		
27760	0.021		
27770	0.021		
27780	0.021		
27790	0.021		
27800	0.021		
27810	0.021		
27820	0.021		
27830	0.021		
27840	0.021		
27850	0.02		
27860	0.021		
27870	0.021		
27880	0.021		
27890	0.021		
27900	0.021		
27910	0.021		
27920	0.021		
27930	0.021		
27940	0.02		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
27950	0.021		
27960	0.021		
27970	0.022		
27980	0.021		
27990	0.021		
28000	0.021		
28010	0.021		
28020	0.022		
28030	0.022		
28040	0.021		
28050	0.021		
28060	0.021		
28070	0.021		
28080	0.024		
28090	0.023		
28100	0.023		
28110	0.021		
28120	0.022		
28130	0.021		
28140	0.02		
28150	0.021		
28160	0.021		
28170	0.021		
28180	0.021		
28190	0.021		
28200	0.021		
28210	0.021		
28220	0.021		
28230	0.021		
28240	0.021		
28250	0.021		
28260	0.021		
28270	0.022		
28280	0.021		
28290	0.021		
28300	0.021		
28310	0.021		
28320	0.022		
28330	0.023		
28340	0.021		
28350	0.021		
28360	0.021		
28370	0.022		
28380	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
28390	0.021		
28400	0.021		
28410	0.021		
28420	0.021		
28430	0.021		
28440	0.021		
28450	0.021		
28460	0.021		
28470	0.021		
28480	0.021		
28490	0.021		
28500	0.022		
28510	0.021		
28520	0.021		
28530	0.02		
28540	0.023		
28550	0.022		
28560	0.021		
28570	0.021		
28580	0.021		
28590	0.021		
28600	0.021		
28610	0.021		
28620	0.021		
28630	0.021		
28640	0.023		
28650	0.022		
28660	0.021		
28670	0.022		
28680	0.022		
28690	0.022		
28700	0.022		
28710	0.022		
28720	0.021		
28730	0.021		
28740	0.021		
28750	0.021		
28760	0.022		
28770	0.021		
28780	0.021		
28790	0.021		
28800	0.021		
28810	0.021		
28820	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
28830	0.021		
28840	0.021		
28850	0.02		
28860	0.021		
28870	0.021		
28880	0.021		
28890	0.021		
28900	0.022		
28910	0.022		
28920	0.022		
28930	0.021		
28940	0.022		
28950	0.022		
28960	0.021		
28970	0.021		
28980	0.022		
28990	0.021		
29000	0.021		
29010	0.021		
29020	0.021		
29030	0.021		
29040	0.021		
29050	0.021		
29060	0.021		
29070	0.021		
29080	0.021		
29090	0.021		
29100	0.023		
29110	0.021		
29120	0.021		
29130	0.021		
29140	0.021		
29150	0.021		
29160	0.021		
29170	0.021		
29180	0.021		
29190	0.021		
29200	0.021		
29210	0.022		
29220	0.023		
29230	0.022		
29240	0.021		
29250	0.021		
29260	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
29270	0.022		
29280	0.021		
29290	0.021		
29300	0.021		
29310	0.021		
29320	0.021		
29330	0.022		
29340	0.021		
29350	0.021		
29360	0.021		
29370	0.021		
29380	0.022		
29390	0.026		
29400	0.023		
29410	0.022		
29420	0.022		
29430	0.022		
29440	0.021		
29450	0.021		
29460	0.021		
29470	0.021		
29480	0.021		
29490	0.021		
29500	0.025		
29510	0.021		
29520	0.022		
29530	0.022		
29540	0.021		
29550	0.022		
29560	0.021		
29570	0.021		
29580	0.022		
29590	0.021		
29600	0.022		
29610	0.021		
29620	0.021		
29630	0.022		
29640	0.021		
29650	0.021		
29660	0.021		
29670	0.021		
29680	0.022		
29690	0.022		
29700	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
29710	0.021		
29720	0.021		
29730	0.021		
29740	0.024		
29750	0.021		
29760	0.021		
29770	0.021		
29780	0.022		
29790	0.021		
29800	0.022		
29810	0.024		
29820	0.021		
29830	0.02		
29840	0.021		
29850	0.021		
29860	0.022		
29870	0.022		
29880	0.021		
29890	0.021		
29900	0.021		
29910	0.021		
29920	0.022		
29930	0.026		
29940	0.022		
29950	0.022		
29960	0.027		
29970	0.022		
29980	0.021		
29990	0.021		
30000	0.021		
30010	0.022		
30020	0.021		
30030	0.022		
30040	0.021		
30050	0.021		
30060	0.022		
30070	0.021		
30080	0.021		
30090	0.021		
30100	0.021		
30110	0.022		
30120	0.021		
30130	0.021		
30140	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
30150	0.021		
30160	0.022		
30170	0.025		
30180	0.022		
30190	0.022		
30200	0.021		
30210	0.024		
30220	0.021		
30230	0.021		
30240	0.02		
30250	0.021		
30260	0.021		
30270	0.02		
30280	0.021		
30290	0.021		
30300	0.021		
30310	0.021		
30320	0.021		
30330	0.02		
30340	0.021		
30350	0.02		
30360	0.021		
30370	0.021		
30380	0.021		
30390	0.021		
30400	0.021		
30410	0.02		
30420	0.021		
30430	0.021		
30440	0.021		
30450	0.021		
30460	0.02		
30470	0.02		
30480	0.021		
30490	0.02		
30500	0.021		
30510	0.022		
30520	0.022		
30530	0.021		
30540	0.021		
30550	0.021		
30560	0.021		
30570	0.021		
30580	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
30590	0.021		
30600	0.022		
30610	0.021		
30620	0.021		
30630	0.021		
30640	0.021		
30650	0.021		
30660	0.021		
30670	0.021		
30680	0.022		
30690	0.021		
30700	0.022		
30710	0.021		
30720	0.021		
30730	0.021		
30740	0.021		
30750	0.021		
30760	0.021		
30770	0.021		
30780	0.021		
30790	0.02		
30800	0.021		
30810	0.02		
30820	0.02		
30830	0.021		
30840	0.021		
30850	0.021		
30860	0.021		
30870	0.022		
30880	0.021		
30890	0.021		
30900	0.021		
30910	0.021		
30920	0.021		
30930	0.021		
30940	0.021		
30950	0.022		
30960	0.02		
30970	0.021		
30980	0.021		
30990	0.021		
31000	0.021		
31010	0.021		
31020	0.021		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
31030	0.021		
31040	0.02		
31050	0.02		
31060	0.02		
31070	0.021		
31080	0.02		
31090	0.02		
31100	0.02		
31110	0.02		
31120	0.02		
31130	0.021		
31140	0.021		
31150	0.021		
31160	0.021		
31170	0.02		
31180	0.02		
31190	0.021		
31200	0.021		
31210	0.02		
31220	0.02		
31230	0.02		
31240	0.021		
31250	0.02		
31260	0.021		
31270	0.021		
31280	0.021		
31290	0.021		
31300	0.021		
31310	0.021		
31320	0.021		
31330	0.021		
31340	0.021		
31350	0.021		
31360	0.021		
31370	0.021		
31380	0.021		
31390	0.021		
31400	0.02		
31410	0.021		
31420	0.02		
31430	0.021		
31440	0.02		
31450	0.021		
31460	0.022		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
31470	0.022		
31480	0.021		
31490	0.021		
31500	0.021		
31510	0.021		
31520	0.021		
31530	0.021		
31540	0.021		
31550	0.02		
31560	0.021		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Geoprobe 6620 DT	Operator(s): L. Caballero (Cascade), A. Borden (AECOM)
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	7:31:42 AM
Test Start Date	12/15/2016
Test Length [D:H:M]	0:07:56
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.011
Mass Minimum [mg/m3]	0.003
Mass Maximum [mg/m3]	0.386
Mass TWA [mg/m3]	0.011
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	2858

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.011		
20	0.02		
30	0.017		
40	0.016		
50	0.013		
60	0.013		
70	0.013		
80	0.013		
90	0.013		
100	0.044		
110	0.013		
120	0.013		
130	0.386		
140	0.152		
150	0.036		
160	0.02		
170	0.015		
180	0.014		
190	0.013		
200	0.013		
210	0.013		
220	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.013		
240	0.013		
250	0.013		
260	0.013		
270	0.013		
280	0.013		
290	0.013		
300	0.014		
310	0.016		
320	0.013		
330	0.013		
340	0.014		
350	0.013		
360	0.013		
370	0.013		
380	0.014		
390	0.014		
400	0.013		
410	0.013		
420	0.014		
430	0.013		
440	0.013		
450	0.013		
460	0.013		
470	0.013		
480	0.013		
490	0.013		
500	0.013		
510	0.013		
520	0.013		
530	0.013		
540	0.014		
550	0.015		
560	0.013		
570	0.013		
580	0.013		
590	0.014		
600	0.014		
610	0.014		
620	0.013		
630	0.013		
640	0.013		
650	0.013		
660	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.013		
680	0.014		
690	0.015		
700	0.014		
710	0.013		
720	0.013		
730	0.013		
740	0.013		
750	0.014		
760	0.014		
770	0.013		
780	0.013		
790	0.014		
800	0.013		
810	0.014		
820	0.015		
830	0.014		
840	0.014		
850	0.014		
860	0.013		
870	0.014		
880	0.014		
890	0.014		
900	0.013		
910	0.013		
920	0.016		
930	0.015		
940	0.015		
950	0.014		
960	0.014		
970	0.014		
980	0.014		
990	0.014		
1000	0.014		
1010	0.015		
1020	0.014		
1030	0.013		
1040	0.014		
1050	0.016		
1060	0.018		
1070	0.014		
1080	0.015		
1090	0.014		
1100	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.015		
1120	0.015		
1130	0.014		
1140	0.014		
1150	0.014		
1160	0.015		
1170	0.014		
1180	0.016		
1190	0.017		
1200	0.015		
1210	0.014		
1220	0.014		
1230	0.015		
1240	0.014		
1250	0.015		
1260	0.014		
1270	0.014		
1280	0.014		
1290	0.017		
1300	0.015		
1310	0.015		
1320	0.014		
1330	0.014		
1340	0.014		
1350	0.015		
1360	0.015		
1370	0.015		
1380	0.014		
1390	0.018		
1400	0.014		
1410	0.014		
1420	0.014		
1430	0.013		
1440	0.014		
1450	0.016		
1460	0.014		
1470	0.021		
1480	0.019		
1490	0.015		
1500	0.016		
1510	0.015		
1520	0.014		
1530	0.014		
1540	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.015		
1560	0.021		
1570	0.018		
1580	0.015		
1590	0.016		
1600	0.014		
1610	0.015		
1620	0.043		
1630	0.024		
1640	0.016		
1650	0.015		
1660	0.014		
1670	0.015		
1680	0.014		
1690	0.014		
1700	0.015		
1710	0.016		
1720	0.021		
1730	0.015		
1740	0.014		
1750	0.015		
1760	0.017		
1770	0.017		
1780	0.016		
1790	0.017		
1800	0.015		
1810	0.015		
1820	0.015		
1830	0.016		
1840	0.016		
1850	0.015		
1860	0.015		
1870	0.014		
1880	0.014		
1890	0.016		
1900	0.015		
1910	0.015		
1920	0.015		
1930	0.015		
1940	0.015		
1950	0.016		
1960	0.015		
1970	0.015		
1980	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.015		
2000	0.015		
2010	0.015		
2020	0.015		
2030	0.015		
2040	0.014		
2050	0.015		
2060	0.015		
2070	0.015		
2080	0.015		
2090	0.015		
2100	0.019		
2110	0.02		
2120	0.02		
2130	0.017		
2140	0.017		
2150	0.015		
2160	0.015		
2170	0.014		
2180	0.014		
2190	0.015		
2200	0.014		
2210	0.015		
2220	0.015		
2230	0.016		
2240	0.017		
2250	0.02		
2260	0.015		
2270	0.014		
2280	0.015		
2290	0.014		
2300	0.014		
2310	0.014		
2320	0.014		
2330	0.014		
2340	0.014		
2350	0.014		
2360	0.014		
2370	0.014		
2380	0.014		
2390	0.014		
2400	0.015		
2410	0.015		
2420	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.014		
2440	0.015		
2450	0.016		
2460	0.015		
2470	0.015		
2480	0.014		
2490	0.015		
2500	0.014		
2510	0.017		
2520	0.016		
2530	0.015		
2540	0.014		
2550	0.014		
2560	0.02		
2570	0.024		
2580	0.022		
2590	0.017		
2600	0.015		
2610	0.014		
2620	0.015		
2630	0.016		
2640	0.016		
2650	0.015		
2660	0.015		
2670	0.015		
2680	0.015		
2690	0.015		
2700	0.015		
2710	0.015		
2720	0.015		
2730	0.015		
2740	0.015		
2750	0.015		
2760	0.015		
2770	0.014		
2780	0.015		
2790	0.015		
2800	0.014		
2810	0.015		
2820	0.015		
2830	0.015		
2840	0.014		
2850	0.015		
2860	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.014		
2880	0.015		
2890	0.014		
2900	0.015		
2910	0.017		
2920	0.015		
2930	0.015		
2940	0.015		
2950	0.017		
2960	0.018		
2970	0.016		
2980	0.015		
2990	0.016		
3000	0.017		
3010	0.015		
3020	0.015		
3030	0.016		
3040	0.017		
3050	0.015		
3060	0.015		
3070	0.016		
3080	0.015		
3090	0.014		
3100	0.014		
3110	0.015		
3120	0.015		
3130	0.015		
3140	0.015		
3150	0.016		
3160	0.015		
3170	0.016		
3180	0.015		
3190	0.016		
3200	0.016		
3210	0.015		
3220	0.015		
3230	0.016		
3240	0.015		
3250	0.015		
3260	0.015		
3270	0.017		
3280	0.016		
3290	0.015		
3300	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.014		
3320	0.016		
3330	0.016		
3340	0.015		
3350	0.014		
3360	0.015		
3370	0.015		
3380	0.015		
3390	0.016		
3400	0.015		
3410	0.014		
3420	0.014		
3430	0.015		
3440	0.015		
3450	0.015		
3460	0.016		
3470	0.016		
3480	0.016		
3490	0.015		
3500	0.018		
3510	0.016		
3520	0.017		
3530	0.015		
3540	0.015		
3550	0.014		
3560	0.014		
3570	0.015		
3580	0.015		
3590	0.014		
3600	0.016		
3610	0.016		
3620	0.014		
3630	0.015		
3640	0.014		
3650	0.015		
3660	0.015		
3670	0.014		
3680	0.014		
3690	0.015		
3700	0.014		
3710	0.015		
3720	0.015		
3730	0.017		
3740	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.015		
3760	0.015		
3770	0.016		
3780	0.015		
3790	0.015		
3800	0.015		
3810	0.015		
3820	0.015		
3830	0.015		
3840	0.015		
3850	0.015		
3860	0.017		
3870	0.016		
3880	0.015		
3890	0.015		
3900	0.015		
3910	0.016		
3920	0.016		
3930	0.015		
3940	0.015		
3950	0.018		
3960	0.017		
3970	0.016		
3980	0.015		
3990	0.017		
4000	0.015		
4010	0.016		
4020	0.015		
4030	0.015		
4040	0.015		
4050	0.015		
4060	0.014		
4070	0.015		
4080	0.015		
4090	0.015		
4100	0.015		
4110	0.017		
4120	0.016		
4130	0.016		
4140	0.015		
4150	0.015		
4160	0.015		
4170	0.02		
4180	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.017		
4200	0.016		
4210	0.016		
4220	0.019		
4230	0.016		
4240	0.016		
4250	0.015		
4260	0.015		
4270	0.015		
4280	0.015		
4290	0.015		
4300	0.016		
4310	0.014		
4320	0.014		
4330	0.015		
4340	0.015		
4350	0.014		
4360	0.014		
4370	0.014		
4380	0.014		
4390	0.014		
4400	0.015		
4410	0.016		
4420	0.015		
4430	0.016		
4440	0.016		
4450	0.015		
4460	0.015		
4470	0.014		
4480	0.016		
4490	0.015		
4500	0.015		
4510	0.015		
4520	0.015		
4530	0.017		
4540	0.017		
4550	0.016		
4560	0.015		
4570	0.015		
4580	0.014		
4590	0.016		
4600	0.015		
4610	0.014		
4620	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.016		
4640	0.015		
4650	0.015		
4660	0.014		
4670	0.014		
4680	0.014		
4690	0.016		
4700	0.015		
4710	0.014		
4720	0.014		
4730	0.015		
4740	0.017		
4750	0.014		
4760	0.015		
4770	0.015		
4780	0.016		
4790	0.014		
4800	0.016		
4810	0.014		
4820	0.015		
4830	0.014		
4840	0.015		
4850	0.015		
4860	0.014		
4870	0.014		
4880	0.018		
4890	0.015		
4900	0.015		
4910	0.015		
4920	0.014		
4930	0.014		
4940	0.014		
4950	0.015		
4960	0.015		
4970	0.014		
4980	0.016		
4990	0.015		
5000	0.014		
5010	0.014		
5020	0.015		
5030	0.015		
5040	0.015		
5050	0.015		
5060	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.014		
5080	0.014		
5090	0.015		
5100	0.015		
5110	0.015		
5120	0.014		
5130	0.015		
5140	0.015		
5150	0.014		
5160	0.015		
5170	0.015		
5180	0.016		
5190	0.016		
5200	0.015		
5210	0.017		
5220	0.015		
5230	0.015		
5240	0.015		
5250	0.015		
5260	0.015		
5270	0.015		
5280	0.016		
5290	0.016		
5300	0.016		
5310	0.016		
5320	0.016		
5330	0.015		
5340	0.015		
5350	0.016		
5360	0.015		
5370	0.015		
5380	0.015		
5390	0.015		
5400	0.015		
5410	0.015		
5420	0.015		
5430	0.015		
5440	0.014		
5450	0.015		
5460	0.016		
5470	0.016		
5480	0.015		
5490	0.016		
5500	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5510	0.016		
5520	0.017		
5530	0.017		
5540	0.025		
5550	0.016		
5560	0.015		
5570	0.015		
5580	0.015		
5590	0.016		
5600	0.014		
5610	0.015		
5620	0.016		
5630	0.016		
5640	0.016		
5650	0.016		
5660	0.015		
5670	0.015		
5680	0.015		
5690	0.015		
5700	0.016		
5710	0.015		
5720	0.014		
5730	0.014		
5740	0.014		
5750	0.014		
5760	0.014		
5770	0.014		
5780	0.016		
5790	0.017		
5800	0.015		
5810	0.015		
5820	0.014		
5830	0.014		
5840	0.014		
5850	0.014		
5860	0.015		
5870	0.014		
5880	0.014		
5890	0.015		
5900	0.015		
5910	0.015		
5920	0.014		
5930	0.015		
5940	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5950	0.014		
5960	0.015		
5970	0.016		
5980	0.016		
5990	0.015		
6000	0.016		
6010	0.015		
6020	0.015		
6030	0.015		
6040	0.016		
6050	0.016		
6060	0.015		
6070	0.015		
6080	0.017		
6090	0.016		
6100	0.016		
6110	0.015		
6120	0.015		
6130	0.016		
6140	0.015		
6150	0.015		
6160	0.015		
6170	0.015		
6180	0.015		
6190	0.016		
6200	0.016		
6210	0.015		
6220	0.015		
6230	0.016		
6240	0.016		
6250	0.016		
6260	0.016		
6270	0.017		
6280	0.022		
6290	0.016		
6300	0.016		
6310	0.017		
6320	0.015		
6330	0.017		
6340	0.016		
6350	0.017		
6360	0.016		
6370	0.016		
6380	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6390	0.016		
6400	0.017		
6410	0.018		
6420	0.017		
6430	0.017		
6440	0.016		
6450	0.021		
6460	0.016		
6470	0.017		
6480	0.016		
6490	0.016		
6500	0.016		
6510	0.016		
6520	0.016		
6530	0.016		
6540	0.016		
6550	0.016		
6560	0.017		
6570	0.017		
6580	0.017		
6590	0.017		
6600	0.018		
6610	0.018		
6620	0.017		
6630	0.017		
6640	0.018		
6650	0.017		
6660	0.017		
6670	0.017		
6680	0.017		
6690	0.018		
6700	0.017		
6710	0.018		
6720	0.017		
6730	0.017		
6740	0.018		
6750	0.016		
6760	0.016		
6770	0.017		
6780	0.017		
6790	0.016		
6800	0.017		
6810	0.017		
6820	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6830	0.017		
6840	0.017		
6850	0.017		
6860	0.019		
6870	0.017		
6880	0.017		
6890	0.016		
6900	0.017		
6910	0.017		
6920	0.017		
6930	0.016		
6940	0.017		
6950	0.016		
6960	0.017		
6970	0.017		
6980	0.016		
6990	0.017		
7000	0.017		
7010	0.017		
7020	0.018		
7030	0.017		
7040	0.017		
7050	0.017		
7060	0.018		
7070	0.018		
7080	0.018		
7090	0.017		
7100	0.018		
7110	0.018		
7120	0.017		
7130	0.017		
7140	0.018		
7150	0.017		
7160	0.018		
7170	0.017		
7180	0.017		
7190	0.018		
7200	0.017		
7210	0.018		
7220	0.017		
7230	0.018		
7240	0.018		
7250	0.017		
7260	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7270	0.018		
7280	0.018		
7290	0.018		
7300	0.018		
7310	0.018		
7320	0.018		
7330	0.018		
7340	0.018		
7350	0.018		
7360	0.018		
7370	0.017		
7380	0.019		
7390	0.018		
7400	0.018		
7410	0.018		
7420	0.018		
7430	0.018		
7440	0.018		
7450	0.018		
7460	0.018		
7470	0.017		
7480	0.018		
7490	0.018		
7500	0.018		
7510	0.018		
7520	0.018		
7530	0.018		
7540	0.018		
7550	0.018		
7560	0.018		
7570	0.018		
7580	0.017		
7590	0.018		
7600	0.018		
7610	0.017		
7620	0.017		
7630	0.018		
7640	0.018		
7650	0.018		
7660	0.018		
7670	0.018		
7680	0.019		
7690	0.018		
7700	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7710	0.017		
7720	0.017		
7730	0.017		
7740	0.017		
7750	0.017		
7760	0.017		
7770	0.018		
7780	0.017		
7790	0.018		
7800	0.017		
7810	0.017		
7820	0.017		
7830	0.017		
7840	0.017		
7850	0.018		
7860	0.018		
7870	0.019		
7880	0.019		
7890	0.018		
7900	0.022		
7910	0.022		
7920	0.019		
7930	0.017		
7940	0.017		
7950	0.018		
7960	0.018		
7970	0.018		
7980	0.018		
7990	0.017		
8000	0.019		
8010	0.017		
8020	0.018		
8030	0.017		
8040	0.018		
8050	0.017		
8060	0.017		
8070	0.018		
8080	0.017		
8090	0.017		
8100	0.017		
8110	0.017		
8120	0.017		
8130	0.017		
8140	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8150	0.018		
8160	0.017		
8170	0.017		
8180	0.017		
8190	0.017		
8200	0.017		
8210	0.017		
8220	0.017		
8230	0.017		
8240	0.017		
8250	0.017		
8260	0.017		
8270	0.016		
8280	0.016		
8290	0.017		
8300	0.016		
8310	0.017		
8320	0.017		
8330	0.017		
8340	0.017		
8350	0.017		
8360	0.017		
8370	0.016		
8380	0.017		
8390	0.017		
8400	0.017		
8410	0.017		
8420	0.017		
8430	0.017		
8440	0.017		
8450	0.016		
8460	0.016		
8470	0.017		
8480	0.017		
8490	0.017		
8500	0.016		
8510	0.017		
8520	0.017		
8530	0.016		
8540	0.017		
8550	0.017		
8560	0.017		
8570	0.017		
8580	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8590	0.017		
8600	0.017		
8610	0.017		
8620	0.016		
8630	0.017		
8640	0.017		
8650	0.017		
8660	0.017		
8670	0.017		
8680	0.017		
8690	0.017		
8700	0.017		
8710	0.017		
8720	0.017		
8730	0.016		
8740	0.016		
8750	0.017		
8760	0.016		
8770	0.017		
8780	0.017		
8790	0.017		
8800	0.017		
8810	0.017		
8820	0.017		
8830	0.017		
8840	0.017		
8850	0.017		
8860	0.017		
8870	0.017		
8880	0.017		
8890	0.017		
8900	0.017		
8910	0.017		
8920	0.018		
8930	0.018		
8940	0.017		
8950	0.017		
8960	0.017		
8970	0.017		
8980	0.017		
8990	0.017		
9000	0.017		
9010	0.017		
9020	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9030	0.017		
9040	0.017		
9050	0.017		
9060	0.017		
9070	0.017		
9080	0.017		
9090	0.017		
9100	0.017		
9110	0.017		
9120	0.018		
9130	0.017		
9140	0.017		
9150	0.018		
9160	0.017		
9170	0.018		
9180	0.018		
9190	0.018		
9200	0.018		
9210	0.017		
9220	0.018		
9230	0.018		
9240	0.018		
9250	0.018		
9260	0.018		
9270	0.017		
9280	0.017		
9290	0.017		
9300	0.017		
9310	0.018		
9320	0.018		
9330	0.018		
9340	0.017		
9350	0.019		
9360	0.017		
9370	0.018		
9380	0.018		
9390	0.018		
9400	0.018		
9410	0.018		
9420	0.018		
9430	0.019		
9440	0.018		
9450	0.018		
9460	0.019		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9470	0.018		
9480	0.018		
9490	0.018		
9500	0.018		
9510	0.018		
9520	0.018		
9530	0.018		
9540	0.018		
9550	0.018		
9560	0.019		
9570	0.019		
9580	0.018		
9590	0.018		
9600	0.019		
9610	0.02		
9620	0.019		
9630	0.032		
9640	0.018		
9650	0.018		
9660	0.02		
9670	0.018		
9680	0.018		
9690	0.018		
9700	0.019		
9710	0.019		
9720	0.021		
9730	0.018		
9740	0.019		
9750	0.019		
9760	0.018		
9770	0.019		
9780	0.019		
9790	0.019		
9800	0.019		
9810	0.02		
9820	0.018		
9830	0.019		
9840	0.018		
9850	0.018		
9860	0.018		
9870	0.018		
9880	0.018		
9890	0.02		
9900	0.018		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9910	0.019		
9920	0.019		
9930	0.02		
9940	0.019		
9950	0.018		
9960	0.02		
9970	0.019		
9980	0.019		
9990	0.018		
10000	0.018		
10010	0.018		
10020	0.019		
10030	0.018		
10040	0.021		
10050	0.018		
10060	0.018		
10070	0.019		
10080	0.018		
10090	0.017		
10100	0.017		
10110	0.019		
10120	0.018		
10130	0.018		
10140	0.017		
10150	0.017		
10160	0.017		
10170	0.017		
10180	0.017		
10190	0.02		
10200	0.018		
10210	0.022		
10220	0.018		
10230	0.017		
10240	0.017		
10250	0.017		
10260	0.018		
10270	0.019		
10280	0.018		
10290	0.016		
10300	0.017		
10310	0.017		
10320	0.018		
10330	0.017		
10340	0.017		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10350	0.018		
10360	0.018		
10370	0.017		
10380	0.018		
10390	0.019		
10400	0.018		
10410	0.018		
10420	0.018		
10430	0.017		
10440	0.02		
10450	0.017		
10460	0.018		
10470	0.02		
10480	0.017		
10490	0.016		
10500	0.019		
10510	0.019		
10520	0.021		
10530	0.018		
10540	0.019		
10550	0.017		
10560	0.019		
10570	0.017		
10580	0.019		
10590	0.017		
10600	0.017		
10610	0.017		
10620	0.017		
10630	0.017		
10640	0.018		
10650	0.017		
10660	0.018		
10670	0.016		
10680	0.017		
10690	0.018		
10700	0.017		
10710	0.017		
10720	0.017		
10730	0.017		
10740	0.018		
10750	0.017		
10760	0.017		
10770	0.017		
10780	0.016		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10790	0.016		
10800	0.016		
10810	0.016		
10820	0.017		
10830	0.016		
10840	0.017		
10850	0.016		
10860	0.017		
10870	0.018		
10880	0.017		
10890	0.015		
10900	0.016		
10910	0.017		
10920	0.016		
10930	0.015		
10940	0.016		
10950	0.016		
10960	0.016		
10970	0.016		
10980	0.015		
10990	0.015		
11000	0.015		
11010	0.016		
11020	0.015		
11030	0.015		
11040	0.014		
11050	0.015		
11060	0.014		
11070	0.015		
11080	0.015		
11090	0.015		
11100	0.016		
11110	0.015		
11120	0.016		
11130	0.015		
11140	0.014		
11150	0.014		
11160	0.014		
11170	0.014		
11180	0.014		
11190	0.014		
11200	0.017		
11210	0.018		
11220	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11230	0.014		
11240	0.014		
11250	0.016		
11260	0.015		
11270	0.014		
11280	0.014		
11290	0.015		
11300	0.016		
11310	0.015		
11320	0.016		
11330	0.016		
11340	0.014		
11350	0.015		
11360	0.014		
11370	0.014		
11380	0.014		
11390	0.014		
11400	0.015		
11410	0.015		
11420	0.015		
11430	0.015		
11440	0.015		
11450	0.015		
11460	0.015		
11470	0.014		
11480	0.015		
11490	0.015		
11500	0.015		
11510	0.015		
11520	0.015		
11530	0.014		
11540	0.016		
11550	0.015		
11560	0.015		
11570	0.016		
11580	0.016		
11590	0.015		
11600	0.015		
11610	0.015		
11620	0.014		
11630	0.018		
11640	0.017		
11650	0.015		
11660	0.015		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11670	0.015		
11680	0.015		
11690	0.014		
11700	0.014		
11710	0.015		
11720	0.014		
11730	0.015		
11740	0.015		
11750	0.014		
11760	0.014		
11770	0.015		
11780	0.014		
11790	0.015		
11800	0.014		
11810	0.014		
11820	0.015		
11830	0.015		
11840	0.015		
11850	0.016		
11860	0.014		
11870	0.014		
11880	0.015		
11890	0.016		
11900	0.015		
11910	0.014		
11920	0.015		
11930	0.016		
11940	0.015		
11950	0.014		
11960	0.014		
11970	0.015		
11980	0.015		
11990	0.015		
12000	0.015		
12010	0.015		
12020	0.014		
12030	0.014		
12040	0.014		
12050	0.015		
12060	0.014		
12070	0.014		
12080	0.014		
12090	0.014		
12100	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12110	0.014		
12120	0.014		
12130	0.014		
12140	0.014		
12150	0.014		
12160	0.014		
12170	0.015		
12180	0.014		
12190	0.015		
12200	0.014		
12210	0.014		
12220	0.015		
12230	0.014		
12240	0.014		
12250	0.014		
12260	0.014		
12270	0.014		
12280	0.014		
12290	0.014		
12300	0.014		
12310	0.014		
12320	0.015		
12330	0.014		
12340	0.014		
12350	0.014		
12360	0.013		
12370	0.013		
12380	0.014		
12390	0.013		
12400	0.014		
12410	0.014		
12420	0.014		
12430	0.013		
12440	0.014		
12450	0.013		
12460	0.013		
12470	0.014		
12480	0.014		
12490	0.013		
12500	0.014		
12510	0.014		
12520	0.015		
12530	0.014		
12540	0.014		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12550	0.014		
12560	0.013		
12570	0.014		
12580	0.013		
12590	0.013		
12600	0.013		
12610	0.013		
12620	0.014		
12630	0.014		
12640	0.013		
12650	0.014		
12660	0.014		
12670	0.014		
12680	0.014		
12690	0.014		
12700	0.015		
12710	0.014		
12720	0.014		
12730	0.014		
12740	0.015		
12750	0.014		
12760	0.014		
12770	0.015		
12780	0.013		
12790	0.014		
12800	0.013		
12810	0.013		
12820	0.013		
12830	0.013		
12840	0.013		
12850	0.014		
12860	0.014		
12870	0.016		
12880	0.013		
12890	0.013		
12900	0.014		
12910	0.013		
12920	0.013		
12930	0.013		
12940	0.013		
12950	0.013		
12960	0.013		
12970	0.012		
12980	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12990	0.013		
13000	0.013		
13010	0.013		
13020	0.013		
13030	0.013		
13040	0.013		
13050	0.013		
13060	0.016		
13070	0.013		
13080	0.014		
13090	0.013		
13100	0.013		
13110	0.012		
13120	0.013		
13130	0.013		
13140	0.013		
13150	0.014		
13160	0.013		
13170	0.014		
13180	0.013		
13190	0.015		
13200	0.013		
13210	0.013		
13220	0.013		
13230	0.013		
13240	0.013		
13250	0.013		
13260	0.012		
13270	0.012		
13280	0.013		
13290	0.012		
13300	0.013		
13310	0.012		
13320	0.013		
13330	0.013		
13340	0.014		
13350	0.013		
13360	0.013		
13370	0.013		
13380	0.013		
13390	0.013		
13400	0.013		
13410	0.013		
13420	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
13430	0.013		
13440	0.013		
13450	0.013		
13460	0.012		
13470	0.012		
13480	0.013		
13490	0.013		
13500	0.013		
13510	0.013		
13520	0.014		
13530	0.013		
13540	0.013		
13550	0.014		
13560	0.014		
13570	0.013		
13580	0.013		
13590	0.012		
13600	0.013		
13610	0.012		
13620	0.013		
13630	0.012		
13640	0.013		
13650	0.013		
13660	0.013		
13670	0.014		
13680	0.014		
13690	0.012		
13700	0.013		
13710	0.013		
13720	0.012		
13730	0.013		
13740	0.012		
13750	0.013		
13760	0.012		
13770	0.013		
13780	0.012		
13790	0.012		
13800	0.013		
13810	0.012		
13820	0.013		
13830	0.017		
13840	0.013		
13850	0.013		
13860	0.013		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
13870	0.013		
13880	0.014		
13890	0.013		
13900	0.013		
13910	0.013		
13920	0.013		
13930	0.013		
13940	0.013		
13950	0.013		
13960	0.013		
13970	0.013		
13980	0.013		
13990	0.013		
14000	0.014		
14010	0.014		
14020	0.014		
14030	0.012		
14040	0.013		
14050	0.013		
14060	0.013		
14070	0.015		
14080	0.014		
14090	0.013		
14100	0.013		
14110	0.013		
14120	0.013		
14130	0.013		
14140	0.013		
14150	0.013		
14160	0.013		
14170	0.013		
14180	0.013		
14190	0.013		
14200	0.013		
14210	0.012		
14220	0.013		
14230	0.013		
14240	0.013		
14250	0.013		
14260	0.015		
14270	0.012		
14280	0.012		
14290	0.012		
14300	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14310	0.013		
14320	0.012		
14330	0.012		
14340	0.013		
14350	0.015		
14360	0.013		
14370	0.013		
14380	0.012		
14390	0.012		
14400	0.012		
14410	0.012		
14420	0.011		
14430	0.011		
14440	0.011		
14450	0.012		
14460	0.012		
14470	0.012		
14480	0.015		
14490	0.013		
14500	0.012		
14510	0.011		
14520	0.012		
14530	0.012		
14540	0.012		
14550	0.012		
14560	0.012		
14570	0.011		
14580	0.012		
14590	0.012		
14600	0.012		
14610	0.012		
14620	0.017		
14630	0.014		
14640	0.012		
14650	0.012		
14660	0.011		
14670	0.011		
14680	0.012		
14690	0.02		
14700	0.02		
14710	0.012		
14720	0.011		
14730	0.011		
14740	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
14750	0.011		
14760	0.011		
14770	0.011		
14780	0.011		
14790	0.013		
14800	0.011		
14810	0.01		
14820	0.011		
14830	0.011		
14840	0.011		
14850	0.011		
14860	0.011		
14870	0.011		
14880	0.011		
14890	0.011		
14900	0.012		
14910	0.011		
14920	0.011		
14930	0.012		
14940	0.011		
14950	0.012		
14960	0.012		
14970	0.011		
14980	0.011		
14990	0.013		
15000	0.012		
15010	0.012		
15020	0.012		
15030	0.01		
15040	0.011		
15050	0.011		
15060	0.01		
15070	0.01		
15080	0.011		
15090	0.011		
15100	0.011		
15110	0.013		
15120	0.011		
15130	0.011		
15140	0.011		
15150	0.011		
15160	0.012		
15170	0.011		
15180	0.011		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15190	0.011		
15200	0.011		
15210	0.01		
15220	0.01		
15230	0.013		
15240	0.011		
15250	0.011		
15260	0.01		
15270	0.013		
15280	0.013		
15290	0.011		
15300	0.011		
15310	0.011		
15320	0.012		
15330	0.01		
15340	0.01		
15350	0.01		
15360	0.01		
15370	0.01		
15380	0.011		
15390	0.011		
15400	0.01		
15410	0.01		
15420	0.011		
15430	0.011		
15440	0.012		
15450	0.016		
15460	0.011		
15470	0.013		
15480	0.011		
15490	0.01		
15500	0.011		
15510	0.01		
15520	0.012		
15530	0.009		
15540	0.009		
15550	0.009		
15560	0.011		
15570	0.01		
15580	0.01		
15590	0.009		
15600	0.009		
15610	0.008		
15620	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
15630	0.009		
15640	0.009		
15650	0.009		
15660	0.009		
15670	0.01		
15680	0.009		
15690	0.008		
15700	0.009		
15710	0.01		
15720	0.009		
15730	0.008		
15740	0.008		
15750	0.008		
15760	0.009		
15770	0.009		
15780	0.008		
15790	0.008		
15800	0.008		
15810	0.008		
15820	0.009		
15830	0.008		
15840	0.008		
15850	0.008		
15860	0.009		
15870	0.009		
15880	0.009		
15890	0.008		
15900	0.008		
15910	0.008		
15920	0.007		
15930	0.008		
15940	0.008		
15950	0.008		
15960	0.008		
15970	0.007		
15980	0.007		
15990	0.007		
16000	0.007		
16010	0.007		
16020	0.007		
16030	0.007		
16040	0.008		
16050	0.008		
16060	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16070	0.007		
16080	0.007		
16090	0.007		
16100	0.008		
16110	0.008		
16120	0.007		
16130	0.008		
16140	0.008		
16150	0.008		
16160	0.009		
16170	0.007		
16180	0.008		
16190	0.008		
16200	0.008		
16210	0.008		
16220	0.008		
16230	0.008		
16240	0.01		
16250	0.012		
16260	0.012		
16270	0.01		
16280	0.008		
16290	0.009		
16300	0.008		
16310	0.009		
16320	0.008		
16330	0.009		
16340	0.008		
16350	0.008		
16360	0.008		
16370	0.008		
16380	0.012		
16390	0.009		
16400	0.011		
16410	0.008		
16420	0.009		
16430	0.008		
16440	0.008		
16450	0.008		
16460	0.008		
16470	0.009		
16480	0.008		
16490	0.008		
16500	0.008		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16510	0.008		
16520	0.012		
16530	0.008		
16540	0.01		
16550	0.009		
16560	0.008		
16570	0.007		
16580	0.008		
16590	0.008		
16600	0.007		
16610	0.008		
16620	0.007		
16630	0.009		
16640	0.008		
16650	0.008		
16660	0.008		
16670	0.009		
16680	0.007		
16690	0.007		
16700	0.007		
16710	0.007		
16720	0.007		
16730	0.007		
16740	0.008		
16750	0.007		
16760	0.008		
16770	0.008		
16780	0.007		
16790	0.007		
16800	0.007		
16810	0.006		
16820	0.007		
16830	0.007		
16840	0.007		
16850	0.006		
16860	0.007		
16870	0.007		
16880	0.007		
16890	0.007		
16900	0.007		
16910	0.007		
16920	0.007		
16930	0.007		
16940	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
16950	0.007		
16960	0.007		
16970	0.007		
16980	0.007		
16990	0.007		
17000	0.007		
17010	0.007		
17020	0.007		
17030	0.007		
17040	0.008		
17050	0.008		
17060	0.008		
17070	0.007		
17080	0.008		
17090	0.007		
17100	0.008		
17110	0.007		
17120	0.007		
17130	0.007		
17140	0.008		
17150	0.008		
17160	0.007		
17170	0.007		
17180	0.008		
17190	0.008		
17200	0.006		
17210	0.007		
17220	0.009		
17230	0.007		
17240	0.007		
17250	0.015		
17260	0.014		
17270	0.009		
17280	0.007		
17290	0.007		
17300	0.007		
17310	0.007		
17320	0.01		
17330	0.007		
17340	0.008		
17350	0.01		
17360	0.008		
17370	0.009		
17380	0.009		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17390	0.007		
17400	0.007		
17410	0.008		
17420	0.008		
17430	0.007		
17440	0.007		
17450	0.006		
17460	0.007		
17470	0.008		
17480	0.007		
17490	0.006		
17500	0.006		
17510	0.006		
17520	0.006		
17530	0.006		
17540	0.008		
17550	0.007		
17560	0.006		
17570	0.007		
17580	0.007		
17590	0.006		
17600	0.006		
17610	0.006		
17620	0.007		
17630	0.007		
17640	0.007		
17650	0.006		
17660	0.006		
17670	0.006		
17680	0.006		
17690	0.007		
17700	0.007		
17710	0.006		
17720	0.007		
17730	0.006		
17740	0.006		
17750	0.007		
17760	0.007		
17770	0.007		
17780	0.007		
17790	0.006		
17800	0.006		
17810	0.006		
17820	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
17830	0.006		
17840	0.006		
17850	0.006		
17860	0.006		
17870	0.006		
17880	0.006		
17890	0.006		
17900	0.006		
17910	0.006		
17920	0.006		
17930	0.007		
17940	0.006		
17950	0.006		
17960	0.006		
17970	0.006		
17980	0.005		
17990	0.006		
18000	0.005		
18010	0.006		
18020	0.006		
18030	0.006		
18040	0.005		
18050	0.006		
18060	0.005		
18070	0.006		
18080	0.006		
18090	0.006		
18100	0.006		
18110	0.006		
18120	0.006		
18130	0.006		
18140	0.005		
18150	0.006		
18160	0.006		
18170	0.006		
18180	0.005		
18190	0.006		
18200	0.006		
18210	0.006		
18220	0.006		
18230	0.006		
18240	0.005		
18250	0.005		
18260	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
18270	0.005		
18280	0.006		
18290	0.006		
18300	0.006		
18310	0.008		
18320	0.005		
18330	0.005		
18340	0.005		
18350	0.005		
18360	0.006		
18370	0.005		
18380	0.005		
18390	0.005		
18400	0.005		
18410	0.005		
18420	0.005		
18430	0.005		
18440	0.005		
18450	0.005		
18460	0.005		
18470	0.005		
18480	0.005		
18490	0.005		
18500	0.005		
18510	0.005		
18520	0.005		
18530	0.005		
18540	0.005		
18550	0.005		
18560	0.005		
18570	0.005		
18580	0.005		
18590	0.005		
18600	0.005		
18610	0.005		
18620	0.006		
18630	0.006		
18640	0.005		
18650	0.005		
18660	0.005		
18670	0.006		
18680	0.005		
18690	0.005		
18700	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
18710	0.005		
18720	0.006		
18730	0.006		
18740	0.005		
18750	0.005		
18760	0.005		
18770	0.006		
18780	0.005		
18790	0.006		
18800	0.006		
18810	0.005		
18820	0.006		
18830	0.005		
18840	0.005		
18850	0.005		
18860	0.006		
18870	0.005		
18880	0.005		
18890	0.006		
18900	0.005		
18910	0.005		
18920	0.005		
18930	0.006		
18940	0.005		
18950	0.006		
18960	0.005		
18970	0.005		
18980	0.005		
18990	0.006		
19000	0.006		
19010	0.008		
19020	0.005		
19030	0.005		
19040	0.005		
19050	0.007		
19060	0.005		
19070	0.006		
19080	0.007		
19090	0.005		
19100	0.006		
19110	0.006		
19120	0.005		
19130	0.005		
19140	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
19150	0.005		
19160	0.006		
19170	0.005		
19180	0.005		
19190	0.007		
19200	0.006		
19210	0.006		
19220	0.006		
19230	0.005		
19240	0.005		
19250	0.005		
19260	0.005		
19270	0.005		
19280	0.005		
19290	0.005		
19300	0.006		
19310	0.005		
19320	0.005		
19330	0.008		
19340	0.005		
19350	0.005		
19360	0.005		
19370	0.006		
19380	0.006		
19390	0.005		
19400	0.005		
19410	0.005		
19420	0.005		
19430	0.005		
19440	0.005		
19450	0.005		
19460	0.006		
19470	0.006		
19480	0.005		
19490	0.006		
19500	0.005		
19510	0.012		
19520	0.006		
19530	0.005		
19540	0.005		
19550	0.006		
19560	0.004		
19570	0.005		
19580	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
19590	0.005		
19600	0.005		
19610	0.005		
19620	0.005		
19630	0.005		
19640	0.005		
19650	0.005		
19660	0.005		
19670	0.005		
19680	0.005		
19690	0.005		
19700	0.004		
19710	0.005		
19720	0.005		
19730	0.005		
19740	0.005		
19750	0.006		
19760	0.006		
19770	0.005		
19780	0.005		
19790	0.005		
19800	0.005		
19810	0.005		
19820	0.005		
19830	0.005		
19840	0.005		
19850	0.005		
19860	0.005		
19870	0.005		
19880	0.005		
19890	0.005		
19900	0.005		
19910	0.005		
19920	0.005		
19930	0.004		
19940	0.005		
19950	0.005		
19960	0.005		
19970	0.004		
19980	0.005		
19990	0.004		
20000	0.005		
20010	0.006		
20020	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20030	0.004		
20040	0.004		
20050	0.005		
20060	0.004		
20070	0.005		
20080	0.005		
20090	0.004		
20100	0.005		
20110	0.005		
20120	0.005		
20130	0.006		
20140	0.005		
20150	0.005		
20160	0.005		
20170	0.006		
20180	0.005		
20190	0.005		
20200	0.005		
20210	0.005		
20220	0.005		
20230	0.005		
20240	0.005		
20250	0.005		
20260	0.005		
20270	0.005		
20280	0.005		
20290	0.005		
20300	0.005		
20310	0.005		
20320	0.005		
20330	0.005		
20340	0.005		
20350	0.005		
20360	0.005		
20370	0.006		
20380	0.005		
20390	0.005		
20400	0.005		
20410	0.005		
20420	0.006		
20430	0.005		
20440	0.005		
20450	0.005		
20460	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20470	0.007		
20480	0.006		
20490	0.006		
20500	0.008		
20510	0.006		
20520	0.005		
20530	0.006		
20540	0.006		
20550	0.005		
20560	0.006		
20570	0.006		
20580	0.005		
20590	0.006		
20600	0.005		
20610	0.006		
20620	0.006		
20630	0.008		
20640	0.007		
20650	0.006		
20660	0.005		
20670	0.006		
20680	0.006		
20690	0.006		
20700	0.006		
20710	0.014		
20720	0.007		
20730	0.006		
20740	0.006		
20750	0.006		
20760	0.005		
20770	0.006		
20780	0.008		
20790	0.006		
20800	0.006		
20810	0.006		
20820	0.006		
20830	0.009		
20840	0.006		
20850	0.005		
20860	0.006		
20870	0.007		
20880	0.016		
20890	0.016		
20900	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
20910	0.008		
20920	0.006		
20930	0.008		
20940	0.006		
20950	0.006		
20960	0.006		
20970	0.005		
20980	0.006		
20990	0.006		
21000	0.006		
21010	0.006		
21020	0.006		
21030	0.005		
21040	0.006		
21050	0.007		
21060	0.006		
21070	0.005		
21080	0.006		
21090	0.006		
21100	0.005		
21110	0.006		
21120	0.006		
21130	0.006		
21140	0.006		
21150	0.005		
21160	0.006		
21170	0.006		
21180	0.005		
21190	0.006		
21200	0.005		
21210	0.005		
21220	0.005		
21230	0.005		
21240	0.006		
21250	0.005		
21260	0.005		
21270	0.006		
21280	0.005		
21290	0.005		
21300	0.006		
21310	0.006		
21320	0.005		
21330	0.005		
21340	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
21350	0.005		
21360	0.005		
21370	0.006		
21380	0.005		
21390	0.005		
21400	0.006		
21410	0.006		
21420	0.005		
21430	0.005		
21440	0.005		
21450	0.004		
21460	0.005		
21470	0.006		
21480	0.006		
21490	0.005		
21500	0.005		
21510	0.005		
21520	0.005		
21530	0.006		
21540	0.006		
21550	0.005		
21560	0.006		
21570	0.006		
21580	0.005		
21590	0.005		
21600	0.005		
21610	0.005		
21620	0.005		
21630	0.005		
21640	0.005		
21650	0.005		
21660	0.006		
21670	0.006		
21680	0.005		
21690	0.005		
21700	0.005		
21710	0.006		
21720	0.005		
21730	0.005		
21740	0.005		
21750	0.005		
21760	0.004		
21770	0.005		
21780	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
21790	0.005		
21800	0.005		
21810	0.005		
21820	0.006		
21830	0.005		
21840	0.004		
21850	0.004		
21860	0.004		
21870	0.004		
21880	0.004		
21890	0.004		
21900	0.004		
21910	0.004		
21920	0.004		
21930	0.004		
21940	0.004		
21950	0.004		
21960	0.004		
21970	0.004		
21980	0.004		
21990	0.004		
22000	0.004		
22010	0.004		
22020	0.005		
22030	0.005		
22040	0.004		
22050	0.004		
22060	0.004		
22070	0.004		
22080	0.075		
22090	0.007		
22100	0.004		
22110	0.004		
22120	0.004		
22130	0.004		
22140	0.005		
22150	0.006		
22160	0.006		
22170	0.008		
22180	0.005		
22190	0.004		
22200	0.005		
22210	0.005		
22220	0.004		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
22230	0.005		
22240	0.005		
22250	0.007		
22260	0.006		
22270	0.005		
22280	0.006		
22290	0.006		
22300	0.007		
22310	0.006		
22320	0.006		
22330	0.006		
22340	0.006		
22350	0.007		
22360	0.008		
22370	0.007		
22380	0.007		
22390	0.008		
22400	0.009		
22410	0.014		
22420	0.007		
22430	0.007		
22440	0.046		
22450	0.007		
22460	0.011		
22470	0.007		
22480	0.007		
22490	0.007		
22500	0.026		
22510	0.007		
22520	0.007		
22530	0.006		
22540	0.007		
22550	0.006		
22560	0.007		
22570	0.008		
22580	0.006		
22590	0.022		
22600	0.006		
22610	0.008		
22620	0.01		
22630	0.007		
22640	0.007		
22650	0.007		
22660	0.007		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
22670	0.027		
22680	0.009		
22690	0.008		
22700	0.006		
22710	0.008		
22720	0.008		
22730	0.007		
22740	0.007		
22750	0.007		
22760	0.008		
22770	0.007		
22780	0.007		
22790	0.006		
22800	0.007		
22810	0.006		
22820	0.007		
22830	0.01		
22840	0.007		
22850	0.006		
22860	0.006		
22870	0.006		
22880	0.007		
22890	0.006		
22900	0.006		
22910	0.007		
22920	0.008		
22930	0.006		
22940	0.007		
22950	0.006		
22960	0.007		
22970	0.007		
22980	0.007		
22990	0.009		
23000	0.006		
23010	0.005		
23020	0.007		
23030	0.006		
23040	0.006		
23050	0.006		
23060	0.005		
23070	0.006		
23080	0.007		
23090	0.006		
23100	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23110	0.006		
23120	0.006		
23130	0.005		
23140	0.008		
23150	0.007		
23160	0.006		
23170	0.007		
23180	0.007		
23190	0.007		
23200	0.006		
23210	0.006		
23220	0.006		
23230	0.006		
23240	0.01		
23250	0.006		
23260	0.006		
23270	0.006		
23280	0.006		
23290	0.006		
23300	0.006		
23310	0.009		
23320	0.008		
23330	0.005		
23340	0.005		
23350	0.006		
23360	0.006		
23370	0.006		
23380	0.007		
23390	0.006		
23400	0.006		
23410	0.005		
23420	0.007		
23430	0.006		
23440	0.008		
23450	0.007		
23460	0.008		
23470	0.005		
23480	0.006		
23490	0.005		
23500	0.005		
23510	0.006		
23520	0.005		
23530	0.005		
23540	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23550	0.005		
23560	0.006		
23570	0.007		
23580	0.005		
23590	0.006		
23600	0.006		
23610	0.006		
23620	0.006		
23630	0.006		
23640	0.005		
23650	0.005		
23660	0.008		
23670	0.005		
23680	0.004		
23690	0.005		
23700	0.005		
23710	0.005		
23720	0.005		
23730	0.006		
23740	0.005		
23750	0.006		
23760	0.005		
23770	0.005		
23780	0.005		
23790	0.005		
23800	0.006		
23810	0.005		
23820	0.005		
23830	0.006		
23840	0.005		
23850	0.005		
23860	0.005		
23870	0.005		
23880	0.005		
23890	0.007		
23900	0.006		
23910	0.006		
23920	0.005		
23930	0.012		
23940	0.006		
23950	0.005		
23960	0.005		
23970	0.005		
23980	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
23990	0.005		
24000	0.006		
24010	0.005		
24020	0.006		
24030	0.005		
24040	0.005		
24050	0.009		
24060	0.005		
24070	0.006		
24080	0.005		
24090	0.005		
24100	0.005		
24110	0.005		
24120	0.006		
24130	0.005		
24140	0.006		
24150	0.005		
24160	0.005		
24170	0.006		
24180	0.005		
24190	0.005		
24200	0.005		
24210	0.005		
24220	0.005		
24230	0.006		
24240	0.005		
24250	0.005		
24260	0.005		
24270	0.004		
24280	0.004		
24290	0.005		
24300	0.005		
24310	0.005		
24320	0.005		
24330	0.005		
24340	0.006		
24350	0.005		
24360	0.005		
24370	0.006		
24380	0.007		
24390	0.006		
24400	0.005		
24410	0.005		
24420	0.005		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
24430	0.004		
24440	0.005		
24450	0.006		
24460	0.005		
24470	0.005		
24480	0.005		
24490	0.005		
24500	0.005		
24510	0.005		
24520	0.005		
24530	0.005		
24540	0.005		
24550	0.006		
24560	0.005		
24570	0.005		
24580	0.005		
24590	0.004		
24600	0.005		
24610	0.005		
24620	0.005		
24630	0.005		
24640	0.004		
24650	0.004		
24660	0.004		
24670	0.004		
24680	0.004		
24690	0.005		
24700	0.004		
24710	0.004		
24720	0.005		
24730	0.005		
24740	0.005		
24750	0.005		
24760	0.004		
24770	0.005		
24780	0.004		
24790	0.005		
24800	0.004		
24810	0.004		
24820	0.004		
24830	0.005		
24840	0.004		
24850	0.004		
24860	0.004		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
24870	0.005		
24880	0.005		
24890	0.005		
24900	0.005		
24910	0.006		
24920	0.005		
24930	0.005		
24940	0.005		
24950	0.006		
24960	0.005		
24970	0.005		
24980	0.006		
24990	0.006		
25000	0.005		
25010	0.006		
25020	0.006		
25030	0.005		
25040	0.006		
25050	0.006		
25060	0.005		
25070	0.006		
25080	0.005		
25090	0.005		
25100	0.005		
25110	0.004		
25120	0.005		
25130	0.005		
25140	0.004		
25150	0.004		
25160	0.004		
25170	0.004		
25180	0.004		
25190	0.004		
25200	0.004		
25210	0.004		
25220	0.004		
25230	0.004		
25240	0.005		
25250	0.004		
25260	0.005		
25270	0.005		
25280	0.004		
25290	0.005		
25300	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
25310	0.004		
25320	0.005		
25330	0.004		
25340	0.005		
25350	0.005		
25360	0.005		
25370	0.005		
25380	0.005		
25390	0.005		
25400	0.005		
25410	0.005		
25420	0.004		
25430	0.004		
25440	0.006		
25450	0.021		
25460	0.005		
25470	0.005		
25480	0.004		
25490	0.005		
25500	0.004		
25510	0.004		
25520	0.004		
25530	0.004		
25540	0.004		
25550	0.004		
25560	0.004		
25570	0.004		
25580	0.004		
25590	0.004		
25600	0.004		
25610	0.004		
25620	0.004		
25630	0.005		
25640	0.004		
25650	0.004		
25660	0.005		
25670	0.004		
25680	0.005		
25690	0.004		
25700	0.004		
25710	0.004		
25720	0.005		
25730	0.006		
25740	0.004		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
25750	0.004		
25760	0.004		
25770	0.004		
25780	0.004		
25790	0.004		
25800	0.004		
25810	0.004		
25820	0.004		
25830	0.004		
25840	0.004		
25850	0.004		
25860	0.004		
25870	0.004		
25880	0.004		
25890	0.004		
25900	0.004		
25910	0.004		
25920	0.004		
25930	0.003		
25940	0.004		
25950	0.004		
25960	0.003		
25970	0.004		
25980	0.004		
25990	0.005		
26000	0.004		
26010	0.004		
26020	0.004		
26030	0.004		
26040	0.004		
26050	0.004		
26060	0.003		
26070	0.003		
26080	0.004		
26090	0.003		
26100	0.003		
26110	0.004		
26120	0.004		
26130	0.004		
26140	0.004		
26150	0.004		
26160	0.003		
26170	0.003		
26180	0.003		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26190	0.003		
26200	0.003		
26210	0.003		
26220	0.003		
26230	0.003		
26240	0.003		
26250	0.003		
26260	0.003		
26270	0.003		
26280	0.004		
26290	0.003		
26300	0.004		
26310	0.005		
26320	0.004		
26330	0.003		
26340	0.004		
26350	0.003		
26360	0.004		
26370	0.003		
26380	0.004		
26390	0.004		
26400	0.003		
26410	0.004		
26420	0.004		
26430	0.004		
26440	0.003		
26450	0.004		
26460	0.004		
26470	0.004		
26480	0.004		
26490	0.004		
26500	0.004		
26510	0.004		
26520	0.006		
26530	0.006		
26540	0.004		
26550	0.004		
26560	0.004		
26570	0.003		
26580	0.003		
26590	0.004		
26600	0.004		
26610	0.008		
26620	0.006		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
26630	0.004		
26640	0.003		
26650	0.004		
26660	0.004		
26670	0.004		
26680	0.011		
26690	0.004		
26700	0.004		
26710	0.003		
26720	0.004		
26730	0.003		
26740	0.003		
26750	0.004		
26760	0.004		
26770	0.004		
26780	0.004		
26790	0.003		
26800	0.003		
26810	0.004		
26820	0.004		
26830	0.004		
26840	0.004		
26850	0.004		
26860	0.004		
26870	0.004		
26880	0.004		
26890	0.004		
26900	0.004		
26910	0.004		
26920	0.004		
26930	0.004		
26940	0.004		
26950	0.004		
26960	0.004		
26970	0.004		
26980	0.004		
26990	0.003		
27000	0.004		
27010	0.004		
27020	0.004		
27030	0.005		
27040	0.004		
27050	0.004		
27060	0.004		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
27070	0.004		
27080	0.005		
27090	0.004		
27100	0.005		
27110	0.004		
27120	0.004		
27130	0.004		
27140	0.004		
27150	0.004		
27160	0.005		
27170	0.005		
27180	0.004		
27190	0.004		
27200	0.004		
27210	0.004		
27220	0.004		
27230	0.004		
27240	0.005		
27250	0.004		
27260	0.007		
27270	0.004		
27280	0.005		
27290	0.004		
27300	0.004		
27310	0.004		
27320	0.004		
27330	0.004		
27340	0.004		
27350	0.004		
27360	0.005		
27370	0.004		
27380	0.004		
27390	0.003		
27400	0.004		
27410	0.003		
27420	0.003		
27430	0.004		
27440	0.003		
27450	0.004		
27460	0.004		
27470	0.003		
27480	0.003		
27490	0.004		
27500	0.003		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
27510	0.003		
27520	0.003		
27530	0.003		
27540	0.003		
27550	0.006		
27560	0.003		
27570	0.003		
27580	0.003		
27590	0.003		
27600	0.003		
27610	0.005		
27620	0.003		
27630	0.004		
27640	0.003		
27650	0.003		
27660	0.003		
27670	0.003		
27680	0.003		
27690	0.003		
27700	0.004		
27710	0.003		
27720	0.003		
27730	0.003		
27740	0.003		
27750	0.003		
27760	0.003		
27770	0.003		
27780	0.004		
27790	0.004		
27800	0.003		
27810	0.004		
27820	0.003		
27830	0.004		
27840	0.003		
27850	0.003		
27860	0.004		
27870	0.004		
27880	0.003		
27890	0.004		
27900	0.003		
27910	0.003		
27920	0.003		
27930	0.003		
27940	0.004		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
27950	0.003		
27960	0.004		
27970	0.004		
27980	0.005		
27990	0.004		
28000	0.004		
28010	0.003		
28020	0.003		
28030	0.003		
28040	0.004		
28050	0.004		
28060	0.004		
28070	0.004		
28080	0.004		
28090	0.003		
28100	0.003		
28110	0.004		
28120	0.004		
28130	0.003		
28140	0.004		
28150	0.004		
28160	0.004		
28170	0.004		
28180	0.004		
28190	0.004		
28200	0.004		
28210	0.004		
28220	0.004		
28230	0.004		
28240	0.003		
28250	0.004		
28260	0.004		
28270	0.004		
28280	0.004		
28290	0.004		
28300	0.004		
28310	0.006		
28320	0.006		
28330	0.004		
28340	0.004		
28350	0.004		
28360	0.003		
28370	0.003		
28380	0.003		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
28390	0.004		
28400	0.005		
28410	0.003		
28420	0.004		
28430	0.004		
28440	0.004		
28450	0.004		
28460	0.003		
28470	0.004		
28480	0.004		
28490	0.004		
28500	0.003		
28510	0.004		
28520	0.004		
28530	0.003		
28540	0.004		
28550	0.003		
28560	0.004		
28570	0.004		
28580	0.004		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 186 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/05/2016 07:51	-----	0.0	0.0
2	12/05/2016 07:52	-----	0.0	0.0
3	12/05/2016 07:53	-----	0.0	0.0
4	12/05/2016 07:54	-----	0.0	0.0
5	12/05/2016 07:55	-----	0.0	0.0
6	12/05/2016 07:56	-----	0.0	0.0
7	12/05/2016 07:57	-----	0.0	0.0
8	12/05/2016 07:58	-----	0.0	0.0
9	12/05/2016 07:59	-----	0.0	0.0
10	12/05/2016 08:00	-----	0.0	0.0
11	12/05/2016 08:01	-----	0.0	0.0
12	12/05/2016 08:02	-----	0.0	0.0
13	12/05/2016 08:03	-----	0.0	0.0
14	12/05/2016 08:04	-----	0.0	0.0
15	12/05/2016 08:05	-----	0.0	0.0
16	12/05/2016 08:06	-----	0.0	0.0
17	12/05/2016 08:07	-----	0.0	0.0
18	12/05/2016 08:08	-----	0.0	0.0
19	12/05/2016 08:09	-----	0.0	0.0
20	12/05/2016 08:10	-----	0.0	0.0
21	12/05/2016 08:11	-----	0.0	0.0
22	12/05/2016 08:12	-----	0.0	0.0
23	12/05/2016 08:13	-----	0.0	0.0
24	12/05/2016 08:14	-----	0.0	0.0
25	12/05/2016 08:15	-----	0.0	0.0
26	12/05/2016 08:16	-----	0.0	0.0
27	12/05/2016 08:17	-----	0.0	0.0
28	12/05/2016 08:18	-----	0.0	0.0
29	12/05/2016 08:19	-----	0.0	0.0
30	12/05/2016 08:20	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 186 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/05/2016 08:21	-----	0.0	0.0
32	12/05/2016 08:22	-----	0.0	0.0
33	12/05/2016 08:23	-----	0.0	0.0
34	12/05/2016 08:24	-----	0.0	0.0
35	12/05/2016 08:25	-----	0.0	0.0
36	12/05/2016 08:26	-----	0.0	0.0
37	12/05/2016 08:27	-----	0.0	0.0
38	12/05/2016 08:28	-----	0.0	0.0
39	12/05/2016 08:29	-----	0.0	0.0
40	12/05/2016 08:30	-----	0.0	0.0
41	12/05/2016 08:31	-----	0.0	0.0
42	12/05/2016 08:32	-----	0.0	0.0
43	12/05/2016 08:33	-----	0.0	0.0
44	12/05/2016 08:34	-----	0.0	0.0
45	12/05/2016 08:35	-----	0.0	0.0
46	12/05/2016 08:36	-----	0.0	0.0
47	12/05/2016 08:37	-----	0.0	0.0
48	12/05/2016 08:38	-----	0.0	0.0
49	12/05/2016 08:39	-----	0.0	0.0
50	12/05/2016 08:40	-----	0.0	0.0
51	12/05/2016 08:41	-----	0.0	0.0
52	12/05/2016 08:42	-----	0.0	0.0
53	12/05/2016 08:43	-----	0.0	0.0
54	12/05/2016 08:44	-----	0.0	0.0
55	12/05/2016 08:45	-----	0.0	0.0
56	12/05/2016 08:46	-----	0.0	0.0
57	12/05/2016 08:47	-----	0.0	0.0
58	12/05/2016 08:48	-----	0.0	0.0
59	12/05/2016 08:49	-----	0.0	0.0
60	12/05/2016 08:50	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 186 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/05/2016 08:51	-----	0.0	0.0
62	12/05/2016 08:52	-----	0.0	0.0
63	12/05/2016 08:53	-----	0.0	0.0
64	12/05/2016 08:54	-----	0.0	0.0
65	12/05/2016 08:55	-----	0.0	0.0
66	12/05/2016 08:56	-----	0.0	0.0
67	12/05/2016 08:57	-----	0.0	0.0
68	12/05/2016 08:58	-----	0.0	0.0
69	12/05/2016 08:59	-----	0.0	0.0
70	12/05/2016 09:00	-----	0.0	0.0
71	12/05/2016 09:01	-----	0.0	0.0
72	12/05/2016 09:02	-----	0.0	0.0
73	12/05/2016 09:03	-----	0.0	0.0
74	12/05/2016 09:04	-----	0.0	0.0
75	12/05/2016 09:05	-----	0.0	0.0
76	12/05/2016 09:06	-----	0.0	0.0
77	12/05/2016 09:07	-----	0.0	0.0
78	12/05/2016 09:08	-----	0.0	0.0
79	12/05/2016 09:09	-----	0.0	0.0
80	12/05/2016 09:10	-----	0.0	0.0
81	12/05/2016 09:11	-----	0.0	0.0
82	12/05/2016 09:12	-----	0.0	0.0
83	12/05/2016 09:13	-----	0.0	0.0
84	12/05/2016 09:14	-----	0.0	0.0
85	12/05/2016 09:15	-----	0.0	0.0
86	12/05/2016 09:16	-----	0.0	0.0
87	12/05/2016 09:17	-----	0.0	0.0
88	12/05/2016 09:18	-----	0.0	0.0
89	12/05/2016 09:19	-----	0.0	0.0
90	12/05/2016 09:20	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 186 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/05/2016 09:21	-----	0.0	0.0
92	12/05/2016 09:22	-----	0.0	0.0
93	12/05/2016 09:23	-----	0.0	0.0
94	12/05/2016 09:24	-----	0.0	0.0
95	12/05/2016 09:25	-----	0.0	0.0
96	12/05/2016 09:26	-----	0.0	0.0
97	12/05/2016 09:27	-----	0.0	0.0
98	12/05/2016 09:28	-----	0.0	0.0
99	12/05/2016 09:29	-----	0.0	0.0
100	12/05/2016 09:30	-----	0.0	0.0
101	12/05/2016 09:31	-----	0.0	0.0
102	12/05/2016 09:32	-----	0.0	0.0
103	12/05/2016 09:33	-----	0.0	0.0
104	12/05/2016 09:34	-----	0.0	0.0
105	12/05/2016 09:35	-----	0.0	0.0
106	12/05/2016 09:36	-----	0.0	0.0
107	12/05/2016 09:37	-----	0.0	0.0
108	12/05/2016 09:38	-----	0.0	0.0
109	12/05/2016 09:39	-----	0.0	0.0
110	12/05/2016 09:40	-----	0.0	0.0
111	12/05/2016 09:41	-----	0.0	0.0
112	12/05/2016 09:42	-----	0.0	0.0
113	12/05/2016 09:43	-----	0.0	0.1
114	12/05/2016 09:44	-----	0.0	0.0
115	12/05/2016 09:45	-----	0.0	0.0
116	12/05/2016 09:46	-----	0.0	0.0
117	12/05/2016 09:47	-----	0.0	0.0
118	12/05/2016 09:48	-----	0.0	0.0
119	12/05/2016 09:49	-----	0.0	0.0
120	12/05/2016 09:50	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 186 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/05/2016 09:51	-----	0.0	0.0
122	12/05/2016 09:52	-----	0.0	0.1
123	12/05/2016 09:53	-----	0.0	0.1
124	12/05/2016 09:54	-----	0.0	0.0
125	12/05/2016 09:55	-----	0.0	0.0
126	12/05/2016 09:56	-----	0.0	0.1
127	12/05/2016 09:57	-----	0.0	0.1
128	12/05/2016 09:58	-----	0.0	0.1
129	12/05/2016 09:59	-----	0.0	0.1
130	12/05/2016 10:00	-----	0.0	0.1
131	12/05/2016 10:01	-----	0.0	0.1
132	12/05/2016 10:02	-----	0.0	0.1
133	12/05/2016 10:03	-----	0.0	0.1
134	12/05/2016 10:04	-----	0.0	0.1
135	12/05/2016 10:05	-----	0.0	0.1
136	12/05/2016 10:06	-----	0.0	0.1
137	12/05/2016 10:07	-----	0.0	0.1
138	12/05/2016 10:08	-----	0.0	0.0
139	12/05/2016 10:09	-----	0.0	0.0
140	12/05/2016 10:10	-----	0.0	0.0
141	12/05/2016 10:11	-----	0.0	0.0
142	12/05/2016 10:12	-----	0.0	0.0
143	12/05/2016 10:13	-----	0.0	0.1
144	12/05/2016 10:14	-----	0.0	0.1
145	12/05/2016 10:15	-----	0.0	0.1
146	12/05/2016 10:16	-----	0.0	0.1
147	12/05/2016 10:17	-----	0.0	0.1
148	12/05/2016 10:18	-----	0.0	0.1
149	12/05/2016 10:19	-----	0.0	0.1
150	12/05/2016 10:20	-----	0.0	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 186 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/05/2016 10:21	-----	0.0	0.1
152	12/05/2016 10:22	-----	0.0	0.1
153	12/05/2016 10:23	-----	0.0	0.1
154	12/05/2016 10:24	-----	0.0	0.1
155	12/05/2016 10:25	-----	0.1	0.1
156	12/05/2016 10:26	-----	0.0	0.1
157	12/05/2016 10:27	-----	0.0	0.1
158	12/05/2016 10:28	-----	0.0	0.1
159	12/05/2016 10:29	-----	0.0	0.1
160	12/05/2016 10:30	-----	0.0	0.1
161	12/05/2016 10:31	-----	0.1	0.1
162	12/05/2016 10:32	-----	0.1	0.1
163	12/05/2016 10:33	-----	0.1	0.1
164	12/05/2016 10:34	-----	0.1	0.1
165	12/05/2016 10:35	-----	0.1	0.1
166	12/05/2016 10:36	-----	0.1	0.1
167	12/05/2016 10:37	-----	0.1	0.1
168	12/05/2016 10:38	-----	0.1	0.1
169	12/05/2016 10:39	-----	0.1	0.1
170	12/05/2016 10:40	-----	0.1	0.1
171	12/05/2016 10:41	-----	0.1	0.1
172	12/05/2016 10:42	-----	0.1	0.1
173	12/05/2016 10:43	-----	0.1	0.1
174	12/05/2016 10:44	-----	0.1	0.1
175	12/05/2016 10:45	-----	0.1	0.1
176	12/05/2016 10:46	-----	0.1	0.1
177	12/05/2016 10:47	-----	0.1	0.1
178	12/05/2016 10:48	-----	0.1	0.1
179	12/05/2016 10:49	-----	0.1	0.1
180	12/05/2016 10:50	-----	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 186 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
181	12/05/2016 10:51	-----	0.1	0.1
182	12/05/2016 10:52	-----	0.1	0.1
183	12/05/2016 10:53	-----	0.1	0.1
184	12/05/2016 10:54	-----	0.1	0.1
185	12/05/2016 10:55	-----	0.1	0.1
186	12/05/2016 10:56	-----	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 156 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/05/2016 11:24	-----	0.0	0.0
2	12/05/2016 11:25	-----	0.0	0.0
3	12/05/2016 11:26	-----	0.0	0.0
4	12/05/2016 11:27	-----	0.0	0.0
5	12/05/2016 11:28	-----	0.0	0.0
6	12/05/2016 11:29	-----	0.0	0.0
7	12/05/2016 11:30	-----	0.0	0.0
8	12/05/2016 11:31	-----	0.0	0.0
9	12/05/2016 11:32	-----	0.0	0.0
10	12/05/2016 11:33	-----	0.0	0.0
11	12/05/2016 11:34	-----	0.0	0.1
12	12/05/2016 11:35	-----	0.0	0.0
13	12/05/2016 11:36	-----	0.0	0.1
14	12/05/2016 11:37	-----	0.0	0.1
15	12/05/2016 11:38	-----	0.0	0.1
16	12/05/2016 11:39	-----	0.0	0.1
17	12/05/2016 11:40	-----	0.0	0.1
18	12/05/2016 11:41	-----	0.0	0.1
19	12/05/2016 11:42	-----	0.0	0.1
20	12/05/2016 11:43	-----	0.0	0.1
21	12/05/2016 11:44	-----	0.0	0.1
22	12/05/2016 11:45	-----	0.0	0.1
23	12/05/2016 11:46	-----	0.0	0.1
24	12/05/2016 11:47	-----	0.0	0.1
25	12/05/2016 11:48	-----	0.0	0.1
26	12/05/2016 11:49	-----	0.0	0.1
27	12/05/2016 11:50	-----	0.1	0.1
28	12/05/2016 11:51	-----	0.1	0.1
29	12/05/2016 11:52	-----	0.1	0.1
30	12/05/2016 11:53	-----	0.1	0.1

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 156 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/05/2016 11:54	-----	0.1	0.1
32	12/05/2016 11:55	-----	0.1	0.1
33	12/05/2016 11:56	-----	0.1	0.1
34	12/05/2016 11:57	-----	0.1	0.1
35	12/05/2016 11:58	-----	0.1	0.1
36	12/05/2016 11:59	-----	0.1	0.1
37	12/05/2016 12:00	-----	0.1	0.1
38	12/05/2016 12:01	-----	0.1	0.1
39	12/05/2016 12:02	-----	0.1	0.1
40	12/05/2016 12:03	-----	0.1	0.1
41	12/05/2016 12:04	-----	0.1	0.1
42	12/05/2016 12:05	-----	0.1	0.1
43	12/05/2016 12:06	-----	0.1	0.1
44	12/05/2016 12:07	-----	0.1	0.1
45	12/05/2016 12:08	-----	0.1	0.1
46	12/05/2016 12:09	-----	0.1	0.1
47	12/05/2016 12:10	-----	0.1	0.1
48	12/05/2016 12:11	-----	0.1	0.1
49	12/05/2016 12:12	-----	0.1	0.1
50	12/05/2016 12:13	-----	0.1	0.1
51	12/05/2016 12:14	-----	0.1	0.1
52	12/05/2016 12:15	-----	0.1	0.1
53	12/05/2016 12:16	-----	0.1	0.1
54	12/05/2016 12:17	-----	0.1	0.1
55	12/05/2016 12:18	-----	0.1	0.1
56	12/05/2016 12:19	-----	0.1	0.1
57	12/05/2016 12:20	-----	0.1	0.1
58	12/05/2016 12:21	-----	0.1	0.1
59	12/05/2016 12:22	-----	0.1	0.1
60	12/05/2016 12:23	-----	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 156 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/05/2016 12:24	-----	0.1	0.1
62	12/05/2016 12:25	-----	0.1	0.1
63	12/05/2016 12:26	-----	0.1	0.1
64	12/05/2016 12:27	-----	0.1	0.1
65	12/05/2016 12:28	-----	0.1	0.1
66	12/05/2016 12:29	-----	0.1	0.1
67	12/05/2016 12:30	-----	0.1	0.1
68	12/05/2016 12:31	-----	0.1	0.1
69	12/05/2016 12:32	-----	0.1	0.1
70	12/05/2016 12:33	-----	0.1	0.1
71	12/05/2016 12:34	-----	0.1	0.1
72	12/05/2016 12:35	-----	0.1	0.1
73	12/05/2016 12:36	-----	0.1	0.1
74	12/05/2016 12:37	-----	0.1	0.1
75	12/05/2016 12:38	-----	0.1	0.1
76	12/05/2016 12:39	-----	0.1	0.1
77	12/05/2016 12:40	-----	0.1	0.1
78	12/05/2016 12:41	-----	0.1	0.1
79	12/05/2016 12:42	-----	0.1	0.1
80	12/05/2016 12:43	-----	0.1	0.1
81	12/05/2016 12:44	-----	0.1	0.1
82	12/05/2016 12:45	-----	0.1	0.1
83	12/05/2016 12:46	-----	0.1	0.1
84	12/05/2016 12:47	-----	0.1	0.1
85	12/05/2016 12:48	-----	0.1	0.1
86	12/05/2016 12:49	-----	0.1	0.1
87	12/05/2016 12:50	-----	0.1	0.1
88	12/05/2016 12:51	-----	0.1	0.1
89	12/05/2016 12:52	-----	0.1	0.1
90	12/05/2016 12:53	-----	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 156 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/05/2016 12:54	-----	0.1	0.1
92	12/05/2016 12:55	-----	0.1	0.1
93	12/05/2016 12:56	-----	0.1	0.1
94	12/05/2016 12:57	-----	0.1	0.1
95	12/05/2016 12:58	-----	0.1	0.1
96	12/05/2016 12:59	-----	0.1	0.1
97	12/05/2016 13:00	-----	0.1	0.1
98	12/05/2016 13:01	-----	0.1	0.1
99	12/05/2016 13:02	-----	0.1	0.1
100	12/05/2016 13:03	-----	0.1	0.1
101	12/05/2016 13:04	-----	0.1	0.1
102	12/05/2016 13:05	-----	0.1	0.1
103	12/05/2016 13:06	-----	0.1	0.1
104	12/05/2016 13:07	-----	0.1	0.1
105	12/05/2016 13:08	-----	0.1	0.1
106	12/05/2016 13:09	-----	0.1	0.1
107	12/05/2016 13:10	-----	0.1	0.2
108	12/05/2016 13:11	-----	0.1	0.1
109	12/05/2016 13:12	-----	0.1	0.1
110	12/05/2016 13:13	-----	0.1	0.1
111	12/05/2016 13:14	-----	0.1	0.1
112	12/05/2016 13:15	-----	0.1	0.1
113	12/05/2016 13:16	-----	0.1	0.1
114	12/05/2016 13:17	-----	0.1	0.1
115	12/05/2016 13:18	-----	0.1	0.1
116	12/05/2016 13:19	-----	0.1	0.1
117	12/05/2016 13:20	-----	0.1	0.1
118	12/05/2016 13:21	-----	0.1	0.1
119	12/05/2016 13:22	-----	0.1	0.1
120	12/05/2016 13:23	-----	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 156 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/05/2016 13:24	-----	0.1	0.1
122	12/05/2016 13:25	-----	0.1	0.1
123	12/05/2016 13:26	-----	0.1	0.1
124	12/05/2016 13:27	-----	0.1	0.1
125	12/05/2016 13:28	-----	0.1	0.1
126	12/05/2016 13:29	-----	0.1	0.1
127	12/05/2016 13:30	-----	0.1	0.1
128	12/05/2016 13:31	-----	0.1	0.1
129	12/05/2016 13:32	-----	0.1	0.1
130	12/05/2016 13:33	-----	0.1	0.1
131	12/05/2016 13:34	-----	0.1	0.1
132	12/05/2016 13:35	-----	0.1	0.1
133	12/05/2016 13:36	-----	0.1	0.1
134	12/05/2016 13:37	-----	0.1	0.1
135	12/05/2016 13:38	-----	0.1	0.1
136	12/05/2016 13:39	-----	0.1	0.1
137	12/05/2016 13:40	-----	0.1	0.1
138	12/05/2016 13:41	-----	0.1	0.1
139	12/05/2016 13:42	-----	0.1	0.1
140	12/05/2016 13:43	-----	0.1	0.1
141	12/05/2016 13:44	-----	0.1	0.1
142	12/05/2016 13:45	-----	0.1	0.1
143	12/05/2016 13:46	-----	0.1	0.1
144	12/05/2016 13:47	-----	0.1	0.1
145	12/05/2016 13:48	-----	0.1	0.1
146	12/05/2016 13:49	-----	0.1	0.1
147	12/05/2016 13:50	-----	0.1	0.1
148	12/05/2016 13:51	-----	0.1	0.1
149	12/05/2016 13:52	-----	0.1	0.1
150	12/05/2016 13:53	-----	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 156 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/05/2016 13:54	-----	0.1	0.1
152	12/05/2016 13:55	-----	0.1	0.1
153	12/05/2016 13:56	-----	0.1	0.1
154	12/05/2016 13:57	-----	0.1	0.1
155	12/05/2016 13:58	-----	0.1	0.1
156	12/05/2016 13:59	-----	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 3 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/05/2016 06:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/05/2016 14:09	-----	0.1	0.1
2	12/05/2016 14:10	-----	0.1	0.1
3	12/05/2016 14:11	-----	0.1	0.1

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 118 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/06/2016 06:04	-----	0.0	0.0
2	12/06/2016 06:05	-----	0.0	0.0
3	12/06/2016 06:06	-----	0.0	0.0
4	12/06/2016 06:07	-----	0.0	0.0
5	12/06/2016 06:08	-----	0.0	0.0
6	12/06/2016 06:09	-----	0.0	0.0
7	12/06/2016 06:10	-----	0.0	0.0
8	12/06/2016 06:11	-----	0.0	0.0
9	12/06/2016 06:12	-----	0.0	0.0
10	12/06/2016 06:13	-----	0.0	0.0
11	12/06/2016 06:14	-----	0.0	0.0
12	12/06/2016 06:15	-----	0.0	0.0
13	12/06/2016 06:16	-----	0.0	0.0
14	12/06/2016 06:17	-----	0.0	0.0
15	12/06/2016 06:18	-----	0.0	0.0
16	12/06/2016 06:19	-----	0.0	0.0
17	12/06/2016 06:20	-----	0.0	0.0
18	12/06/2016 06:21	-----	0.0	0.0
19	12/06/2016 06:22	-----	0.0	0.0
20	12/06/2016 06:23	-----	0.0	0.0
21	12/06/2016 06:24	-----	0.0	0.0
22	12/06/2016 06:25	-----	0.0	0.0
23	12/06/2016 06:26	-----	0.0	0.0
24	12/06/2016 06:27	-----	0.0	0.0
25	12/06/2016 06:28	-----	0.0	0.0
26	12/06/2016 06:29	-----	0.0	0.0
27	12/06/2016 06:30	-----	0.0	0.0
28	12/06/2016 06:31	-----	0.0	0.0
29	12/06/2016 06:32	-----	0.0	0.0
30	12/06/2016 06:33	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 118 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/06/2016 06:34	-----	0.0	0.0
32	12/06/2016 06:35	-----	0.0	0.0
33	12/06/2016 06:36	-----	0.0	0.0
34	12/06/2016 06:37	-----	0.0	0.1
35	12/06/2016 06:38	-----	0.0	0.0
36	12/06/2016 06:39	-----	0.0	0.1
37	12/06/2016 06:40	-----	0.0	0.1
38	12/06/2016 06:41	-----	0.0	0.1
39	12/06/2016 06:42	-----	0.0	0.0
40	12/06/2016 06:43	-----	0.0	0.1
41	12/06/2016 06:44	-----	0.0	0.1
42	12/06/2016 06:45	-----	0.0	0.1
43	12/06/2016 06:46	-----	0.0	0.1
44	12/06/2016 06:47	-----	0.0	0.1
45	12/06/2016 06:48	-----	0.0	0.1
46	12/06/2016 06:49	-----	0.0	0.1
47	12/06/2016 06:50	-----	0.0	0.1
48	12/06/2016 06:51	-----	0.0	0.1
49	12/06/2016 06:52	-----	0.0	0.1
50	12/06/2016 06:53	-----	0.0	0.1
51	12/06/2016 06:54	-----	0.0	0.1
52	12/06/2016 06:55	-----	0.0	0.1
53	12/06/2016 06:56	-----	0.0	0.1
54	12/06/2016 06:57	-----	0.0	0.1
55	12/06/2016 06:58	-----	0.0	0.1
56	12/06/2016 06:59	-----	0.0	0.1
57	12/06/2016 07:00	-----	0.0	0.1
58	12/06/2016 07:01	-----	0.0	0.1
59	12/06/2016 07:02	-----	0.0	0.1
60	12/06/2016 07:03	-----	0.0	0.1

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 118 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/06/2016 07:04	-----	0.0	0.1
62	12/06/2016 07:05	-----	0.0	0.1
63	12/06/2016 07:06	-----	0.0	0.1
64	12/06/2016 07:07	-----	0.0	0.1
65	12/06/2016 07:08	-----	0.0	0.1
66	12/06/2016 07:09	-----	0.0	0.1
67	12/06/2016 07:10	-----	0.0	0.1
68	12/06/2016 07:11	-----	0.0	0.1
69	12/06/2016 07:12	-----	0.0	0.1
70	12/06/2016 07:13	-----	0.0	0.1
71	12/06/2016 07:14	-----	0.0	0.1
72	12/06/2016 07:15	-----	0.0	0.1
73	12/06/2016 07:16	-----	0.0	0.1
74	12/06/2016 07:17	-----	0.0	0.1
75	12/06/2016 07:18	-----	0.0	0.1
76	12/06/2016 07:19	-----	0.0	0.1
77	12/06/2016 07:20	-----	0.0	0.1
78	12/06/2016 07:21	-----	0.0	0.1
79	12/06/2016 07:22	-----	0.0	0.1
80	12/06/2016 07:23	-----	0.0	0.1
81	12/06/2016 07:24	-----	0.0	0.0
82	12/06/2016 07:25	-----	0.0	0.0
83	12/06/2016 07:26	-----	0.0	0.0
84	12/06/2016 07:27	-----	0.0	0.0
85	12/06/2016 07:28	-----	0.0	0.0
86	12/06/2016 07:29	-----	0.0	0.0
87	12/06/2016 07:30	-----	0.0	0.0
88	12/06/2016 07:31	-----	0.0	0.0
89	12/06/2016 07:32	-----	0.0	0.1
90	12/06/2016 07:33	-----	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 118 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/06/2016 07:34	-----	0.0	0.1
92	12/06/2016 07:35	-----	0.0	0.1
93	12/06/2016 07:36	-----	0.0	0.1
94	12/06/2016 07:37	-----	0.0	0.1
95	12/06/2016 07:38	-----	0.0	0.1
96	12/06/2016 07:39	-----	0.0	0.1
97	12/06/2016 07:40	-----	0.0	0.1
98	12/06/2016 07:41	-----	0.0	0.1
99	12/06/2016 07:42	-----	0.0	0.1
100	12/06/2016 07:43	-----	0.0	0.1
101	12/06/2016 07:44	-----	0.0	0.1
102	12/06/2016 07:45	-----	0.0	0.1
103	12/06/2016 07:46	-----	0.0	0.1
104	12/06/2016 07:47	-----	0.0	0.1
105	12/06/2016 07:48	-----	0.0	0.1
106	12/06/2016 07:49	-----	0.0	0.1
107	12/06/2016 07:50	-----	0.0	0.1
108	12/06/2016 07:51	-----	0.0	0.1
109	12/06/2016 07:52	-----	0.0	0.1
110	12/06/2016 07:53	-----	0.0	0.1
111	12/06/2016 07:54	-----	0.0	0.1
112	12/06/2016 07:55	-----	0.0	0.1
113	12/06/2016 07:56	-----	0.0	0.1
114	12/06/2016 07:57	-----	0.0	0.1
115	12/06/2016 07:58	-----	0.0	0.1
116	12/06/2016 07:59	-----	0.0	0.1
117	12/06/2016 08:00	-----	0.0	0.1
118	12/06/2016 08:01	-----	0.0	0.1

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 96 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/06/2016 08:35	-----	0.0	0.0
2	12/06/2016 08:36	-----	0.0	0.0
3	12/06/2016 08:37	-----	0.0	0.0
4	12/06/2016 08:38	-----	0.0	0.0
5	12/06/2016 08:39	-----	0.0	0.0
6	12/06/2016 08:40	-----	0.0	0.0
7	12/06/2016 08:41	-----	0.0	0.0
8	12/06/2016 08:42	-----	0.0	0.0
9	12/06/2016 08:43	-----	0.0	0.0
10	12/06/2016 08:44	-----	0.0	0.0
11	12/06/2016 08:45	-----	0.0	0.0
12	12/06/2016 08:46	-----	0.0	0.0
13	12/06/2016 08:47	-----	0.0	0.0
14	12/06/2016 08:48	-----	0.0	0.0
15	12/06/2016 08:49	-----	0.0	0.0
16	12/06/2016 08:50	-----	0.0	0.0
17	12/06/2016 08:51	-----	0.0	0.0
18	12/06/2016 08:52	-----	0.0	0.0
19	12/06/2016 08:53	-----	0.0	0.0
20	12/06/2016 08:54	-----	0.0	0.0
21	12/06/2016 08:55	-----	0.0	0.0
22	12/06/2016 08:56	-----	0.0	0.0
23	12/06/2016 08:57	-----	0.0	0.0
24	12/06/2016 08:58	-----	0.0	0.0
25	12/06/2016 08:59	-----	0.0	0.0
26	12/06/2016 09:00	-----	0.0	0.0
27	12/06/2016 09:01	-----	0.0	0.0
28	12/06/2016 09:02	-----	0.0	0.0
29	12/06/2016 09:03	-----	0.0	0.0
30	12/06/2016 09:04	-----	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 96 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/06/2016 09:05	-----	0.0	0.0
32	12/06/2016 09:06	-----	0.0	0.0
33	12/06/2016 09:07	-----	0.0	0.0
34	12/06/2016 09:08	-----	0.0	0.0
35	12/06/2016 09:09	-----	0.0	0.0
36	12/06/2016 09:10	-----	0.0	0.0
37	12/06/2016 09:11	-----	0.0	0.0
38	12/06/2016 09:12	-----	0.0	0.0
39	12/06/2016 09:13	-----	0.0	0.0
40	12/06/2016 09:14	-----	0.0	0.0
41	12/06/2016 09:15	-----	0.0	0.0
42	12/06/2016 09:16	-----	0.0	0.0
43	12/06/2016 09:17	-----	0.0	0.0
44	12/06/2016 09:18	-----	0.0	0.0
45	12/06/2016 09:19	-----	0.0	0.0
46	12/06/2016 09:20	-----	0.0	0.0
47	12/06/2016 09:21	-----	0.0	0.0
48	12/06/2016 09:22	-----	0.0	0.0
49	12/06/2016 09:23	-----	0.0	0.0
50	12/06/2016 09:24	-----	0.0	0.0
51	12/06/2016 09:25	-----	0.0	0.0
52	12/06/2016 09:26	-----	0.0	0.0
53	12/06/2016 09:27	-----	0.0	0.0
54	12/06/2016 09:28	-----	0.0	0.0
55	12/06/2016 09:29	-----	0.0	0.0
56	12/06/2016 09:30	-----	0.0	0.0
57	12/06/2016 09:31	-----	0.0	0.0
58	12/06/2016 09:32	-----	0.0	0.0
59	12/06/2016 09:33	-----	0.0	0.0
60	12/06/2016 09:34	-----	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 96 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/06/2016 09:35	-----	0.0	0.0
62	12/06/2016 09:36	-----	0.0	0.0
63	12/06/2016 09:37	-----	0.0	0.0
64	12/06/2016 09:38	-----	0.0	0.0
65	12/06/2016 09:39	-----	0.0	0.0
66	12/06/2016 09:40	-----	0.0	0.0
67	12/06/2016 09:41	-----	0.0	0.0
68	12/06/2016 09:42	-----	0.0	0.0
69	12/06/2016 09:43	-----	0.0	0.0
70	12/06/2016 09:44	-----	0.0	0.0
71	12/06/2016 09:45	-----	0.0	0.0
72	12/06/2016 09:46	-----	0.0	0.0
73	12/06/2016 09:47	-----	0.0	0.0
74	12/06/2016 09:48	-----	0.0	0.0
75	12/06/2016 09:49	-----	0.0	0.0
76	12/06/2016 09:50	-----	0.0	0.0
77	12/06/2016 09:51	-----	0.0	0.0
78	12/06/2016 09:52	-----	0.0	0.0
79	12/06/2016 09:53	-----	0.0	0.0
80	12/06/2016 09:54	-----	0.0	0.0
81	12/06/2016 09:55	-----	0.0	0.0
82	12/06/2016 09:56	-----	0.0	0.0
83	12/06/2016 09:57	-----	0.0	0.0
84	12/06/2016 09:58	-----	0.0	0.0
85	12/06/2016 09:59	-----	0.0	0.0
86	12/06/2016 10:00	-----	0.0	0.0
87	12/06/2016 10:01	-----	0.0	0.0
88	12/06/2016 10:02	-----	0.0	0.0
89	12/06/2016 10:03	-----	0.0	0.0
90	12/06/2016 10:04	-----	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 96 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/06/2016 10:05	-----	0.0	0.0
92	12/06/2016 10:06	-----	0.0	0.0
93	12/06/2016 10:07	-----	0.0	0.0
94	12/06/2016 10:08	-----	0.0	0.0
95	12/06/2016 10:09	-----	0.0	0.0
96	12/06/2016 10:10	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 166 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/06/2016 11:06	-----	0.0	0.0
2	12/06/2016 11:07	-----	0.0	0.0
3	12/06/2016 11:08	-----	0.0	0.0
4	12/06/2016 11:09	-----	0.0	0.0
5	12/06/2016 11:10	-----	0.0	0.0
6	12/06/2016 11:11	-----	0.0	0.0
7	12/06/2016 11:12	-----	0.0	0.0
8	12/06/2016 11:13	-----	0.0	0.0
9	12/06/2016 11:14	-----	0.0	0.0
10	12/06/2016 11:15	-----	0.0	0.0
11	12/06/2016 11:16	-----	0.0	0.0
12	12/06/2016 11:17	-----	0.0	0.0
13	12/06/2016 11:18	-----	0.0	0.0
14	12/06/2016 11:19	-----	0.0	0.0
15	12/06/2016 11:20	-----	0.0	0.0
16	12/06/2016 11:21	-----	0.0	0.0
17	12/06/2016 11:22	-----	0.0	0.0
18	12/06/2016 11:23	-----	0.0	0.0
19	12/06/2016 11:24	-----	0.0	0.0
20	12/06/2016 11:25	-----	0.0	0.0
21	12/06/2016 11:26	-----	0.0	0.0
22	12/06/2016 11:27	-----	0.0	0.0
23	12/06/2016 11:28	-----	0.0	0.0
24	12/06/2016 11:29	-----	0.0	0.0
25	12/06/2016 11:30	-----	0.0	0.0
26	12/06/2016 11:31	-----	0.0	0.0
27	12/06/2016 11:32	-----	0.0	0.0
28	12/06/2016 11:33	-----	0.0	0.0
29	12/06/2016 11:34	-----	0.0	0.0
30	12/06/2016 11:35	-----	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 166 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/06/2016 11:36	-----	0.0	0.0
32	12/06/2016 11:37	-----	0.0	0.0
33	12/06/2016 11:38	-----	0.0	0.0
34	12/06/2016 11:39	-----	0.0	0.0
35	12/06/2016 11:40	-----	0.0	0.0
36	12/06/2016 11:41	-----	0.0	0.0
37	12/06/2016 11:42	-----	0.0	0.0
38	12/06/2016 11:43	-----	0.0	0.0
39	12/06/2016 11:44	-----	0.0	0.0
40	12/06/2016 11:45	-----	0.0	0.0
41	12/06/2016 11:46	-----	0.0	0.0
42	12/06/2016 11:47	-----	0.0	0.0
43	12/06/2016 11:48	-----	0.0	0.0
44	12/06/2016 11:49	-----	0.0	0.0
45	12/06/2016 11:50	-----	0.0	0.0
46	12/06/2016 11:51	-----	0.0	0.0
47	12/06/2016 11:52	-----	0.0	0.0
48	12/06/2016 11:53	-----	0.0	0.0
49	12/06/2016 11:54	-----	0.0	0.0
50	12/06/2016 11:55	-----	0.0	0.0
51	12/06/2016 11:56	-----	0.0	0.0
52	12/06/2016 11:57	-----	0.0	0.0
53	12/06/2016 11:58	-----	0.0	0.0
54	12/06/2016 11:59	-----	0.0	0.0
55	12/06/2016 12:00	-----	0.0	0.0
56	12/06/2016 12:01	-----	0.0	0.0
57	12/06/2016 12:02	-----	0.0	0.0
58	12/06/2016 12:03	-----	0.0	0.0
59	12/06/2016 12:04	-----	0.0	0.0
60	12/06/2016 12:05	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 166 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/06/2016 12:06	-----	0.0	0.0
62	12/06/2016 12:07	-----	0.0	0.0
63	12/06/2016 12:08	-----	0.0	0.0
64	12/06/2016 12:09	-----	0.0	0.0
65	12/06/2016 12:10	-----	0.0	0.0
66	12/06/2016 12:11	-----	0.0	0.0
67	12/06/2016 12:12	-----	0.0	0.0
68	12/06/2016 12:13	-----	0.0	0.0
69	12/06/2016 12:14	-----	0.0	0.0
70	12/06/2016 12:15	-----	0.0	0.0
71	12/06/2016 12:16	-----	0.0	0.0
72	12/06/2016 12:17	-----	0.0	0.0
73	12/06/2016 12:18	-----	0.0	0.0
74	12/06/2016 12:19	-----	0.0	0.0
75	12/06/2016 12:20	-----	0.0	0.0
76	12/06/2016 12:21	-----	0.0	0.0
77	12/06/2016 12:22	-----	0.0	0.0
78	12/06/2016 12:23	-----	0.0	0.0
79	12/06/2016 12:24	-----	0.0	0.0
80	12/06/2016 12:25	-----	0.0	0.0
81	12/06/2016 12:26	-----	0.0	0.0
82	12/06/2016 12:27	-----	0.0	0.0
83	12/06/2016 12:28	-----	0.0	0.0
84	12/06/2016 12:29	-----	0.0	0.0
85	12/06/2016 12:30	-----	0.0	0.0
86	12/06/2016 12:31	-----	0.0	0.0
87	12/06/2016 12:32	-----	0.0	0.0
88	12/06/2016 12:33	-----	0.0	0.0
89	12/06/2016 12:34	-----	0.0	0.0
90	12/06/2016 12:35	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 166 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
91	12/06/2016 12:36	-----	0.0	0.0
92	12/06/2016 12:37	-----	0.0	0.0
93	12/06/2016 12:38	-----	0.0	0.0
94	12/06/2016 12:39	-----	0.0	0.0
95	12/06/2016 12:40	-----	0.0	0.0
96	12/06/2016 12:41	-----	0.0	0.0
97	12/06/2016 12:42	-----	0.0	0.0
98	12/06/2016 12:43	-----	0.0	0.0
99	12/06/2016 12:44	-----	0.0	0.0
100	12/06/2016 12:45	-----	0.0	0.0
101	12/06/2016 12:46	-----	0.0	0.0
102	12/06/2016 12:47	-----	0.0	0.0
103	12/06/2016 12:48	-----	0.0	0.0
104	12/06/2016 12:49	-----	0.0	0.0
105	12/06/2016 12:50	-----	0.0	0.0
106	12/06/2016 12:51	-----	0.0	0.0
107	12/06/2016 12:52	-----	0.0	0.0
108	12/06/2016 12:53	-----	0.0	0.0
109	12/06/2016 12:54	-----	0.0	0.0
110	12/06/2016 12:55	-----	0.0	0.0
111	12/06/2016 12:56	-----	0.0	0.0
112	12/06/2016 12:57	-----	0.0	0.0
113	12/06/2016 12:58	-----	0.0	0.0
114	12/06/2016 12:59	-----	0.0	0.0
115	12/06/2016 13:00	-----	0.0	0.0
116	12/06/2016 13:01	-----	0.0	0.0
117	12/06/2016 13:02	-----	0.0	0.0
118	12/06/2016 13:03	-----	0.0	0.0
119	12/06/2016 13:04	-----	0.0	0.0
120	12/06/2016 13:05	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 166 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
121	12/06/2016 13:06	-----	0.0	0.0
122	12/06/2016 13:07	-----	0.0	0.0
123	12/06/2016 13:08	-----	0.0	0.0
124	12/06/2016 13:09	-----	0.0	0.0
125	12/06/2016 13:10	-----	0.0	0.0
126	12/06/2016 13:11	-----	0.0	0.0
127	12/06/2016 13:12	-----	0.0	0.0
128	12/06/2016 13:13	-----	0.0	0.0
129	12/06/2016 13:14	-----	0.0	0.0
130	12/06/2016 13:15	-----	0.0	0.0
131	12/06/2016 13:16	-----	0.0	0.0
132	12/06/2016 13:17	-----	0.0	0.0
133	12/06/2016 13:18	-----	0.0	0.0
134	12/06/2016 13:19	-----	0.0	0.0
135	12/06/2016 13:20	-----	0.0	0.0
136	12/06/2016 13:21	-----	0.0	0.0
137	12/06/2016 13:22	-----	0.0	0.0
138	12/06/2016 13:23	-----	0.0	0.0
139	12/06/2016 13:24	-----	0.0	0.0
140	12/06/2016 13:25	-----	0.0	0.0
141	12/06/2016 13:26	-----	0.0	0.0
142	12/06/2016 13:27	-----	0.0	0.0
143	12/06/2016 13:28	-----	0.0	0.0
144	12/06/2016 13:29	-----	0.0	0.0
145	12/06/2016 13:30	-----	0.0	0.0
146	12/06/2016 13:31	-----	0.0	0.0
147	12/06/2016 13:32	-----	0.0	0.0
148	12/06/2016 13:33	-----	0.0	0.0
149	12/06/2016 13:34	-----	0.0	0.0
150	12/06/2016 13:35	-----	0.0	0.0

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 166 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/06/2016 05:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
151	12/06/2016 13:36	-----	0.0	0.0
152	12/06/2016 13:37	-----	0.0	0.0
153	12/06/2016 13:38	-----	0.0	0.0
154	12/06/2016 13:39	-----	0.0	0.0
155	12/06/2016 13:40	-----	0.0	0.0
156	12/06/2016 13:41	-----	0.0	0.0
157	12/06/2016 13:42	-----	0.0	0.0
158	12/06/2016 13:43	-----	0.0	0.0
159	12/06/2016 13:44	-----	0.0	0.0
160	12/06/2016 13:45	-----	0.0	0.0
161	12/06/2016 13:46	-----	0.0	0.0
162	12/06/2016 13:47	-----	0.0	0.0
163	12/06/2016 13:48	-----	0.0	0.0
164	12/06/2016 13:49	-----	0.0	0.0
165	12/06/2016 13:50	-----	0.0	0.0
166	12/06/2016 13:51	-----	0.0	0.0

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 84 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/07/2016 04:57

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/07/2016 08:10	-----	0.4	0.5
2	12/07/2016 08:11	-----	0.4	0.5
3	12/07/2016 08:12	-----	0.4	0.5
4	12/07/2016 08:13	-----	0.4	0.5
5	12/07/2016 08:14	-----	0.4	0.5
6	12/07/2016 08:15	-----	0.4	0.5
7	12/07/2016 08:16	-----	0.4	0.5
8	12/07/2016 08:17	-----	0.4	0.5
9	12/07/2016 08:18	-----	0.4	0.5
10	12/07/2016 08:19	-----	0.4	0.5
11	12/07/2016 08:20	-----	0.4	0.5
12	12/07/2016 08:21	-----	0.4	0.5
13	12/07/2016 08:22	-----	0.4	0.5
14	12/07/2016 08:23	-----	0.4	0.5
15	12/07/2016 08:24	-----	0.4	0.5
16	12/07/2016 08:25	-----	0.4	0.5
17	12/07/2016 08:26	-----	0.4	0.5
18	12/07/2016 08:27	-----	0.4	0.5
19	12/07/2016 08:28	-----	0.4	0.5
20	12/07/2016 08:29	-----	0.4	0.5
21	12/07/2016 08:30	-----	0.4	0.5
22	12/07/2016 08:31	-----	0.4	0.5
23	12/07/2016 08:32	-----	0.4	0.5
24	12/07/2016 08:33	-----	0.4	0.5
25	12/07/2016 08:34	-----	0.4	0.5
26	12/07/2016 08:35	-----	0.4	0.5
27	12/07/2016 08:36	-----	0.4	0.5
28	12/07/2016 08:37	-----	0.4	0.5
29	12/07/2016 08:38	-----	0.4	0.5
30	12/07/2016 08:39	-----	0.4	0.5

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 84 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/07/2016 04:57

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/07/2016 08:40	-----	0.4	0.5
32	12/07/2016 08:41	-----	0.4	0.5
33	12/07/2016 08:42	-----	0.4	0.5
34	12/07/2016 08:43	-----	0.4	0.5
35	12/07/2016 08:44	-----	0.4	0.5
36	12/07/2016 08:45	-----	0.4	0.5
37	12/07/2016 08:46	-----	0.4	0.5
38	12/07/2016 08:47	-----	0.4	0.5
39	12/07/2016 08:48	-----	0.4	0.5
40	12/07/2016 08:49	-----	0.4	0.5
41	12/07/2016 08:50	-----	0.4	0.5
42	12/07/2016 08:51	-----	0.4	0.5
43	12/07/2016 08:52	-----	0.4	0.5
44	12/07/2016 08:53	-----	0.4	0.5
45	12/07/2016 08:54	-----	0.4	0.5
46	12/07/2016 08:55	-----	0.4	0.5
47	12/07/2016 08:56	-----	0.4	0.5
48	12/07/2016 08:57	-----	0.4	0.5
49	12/07/2016 08:58	-----	0.4	0.5
50	12/07/2016 08:59	-----	0.4	0.5
51	12/07/2016 09:00	-----	0.4	0.5
52	12/07/2016 09:01	-----	0.4	0.5
53	12/07/2016 09:02	-----	0.4	0.5
54	12/07/2016 09:03	-----	0.4	0.5
55	12/07/2016 09:04	-----	0.4	0.4
56	12/07/2016 09:05	-----	0.4	0.5
57	12/07/2016 09:06	-----	0.4	0.5
58	12/07/2016 09:07	-----	0.4	0.4
59	12/07/2016 09:08	-----	0.4	0.5
60	12/07/2016 09:09	-----	0.4	0.5

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 84 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/07/2016 04:57

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/07/2016 09:10	-----	0.4	0.5
62	12/07/2016 09:11	-----	0.4	0.5
63	12/07/2016 09:12	-----	0.4	0.4
64	12/07/2016 09:13	-----	0.4	0.5
65	12/07/2016 09:14	-----	0.4	0.5
66	12/07/2016 09:15	-----	0.4	0.4
67	12/07/2016 09:16	-----	0.4	0.4
68	12/07/2016 09:17	-----	0.4	0.5
69	12/07/2016 09:18	-----	0.4	0.4
70	12/07/2016 09:19	-----	0.4	0.4
71	12/07/2016 09:20	-----	0.4	0.4
72	12/07/2016 09:21	-----	0.4	0.4
73	12/07/2016 09:22	-----	0.4	0.4
74	12/07/2016 09:23	-----	0.4	0.9
75	12/07/2016 09:24	-----	0.4	0.5
76	12/07/2016 09:25	-----	0.4	0.4
77	12/07/2016 09:26	-----	0.4	0.5
78	12/07/2016 09:27	-----	0.4	0.4
79	12/07/2016 09:28	-----	0.4	0.4
80	12/07/2016 09:29	-----	0.4	0.5
81	12/07/2016 09:30	-----	0.4	0.5
82	12/07/2016 09:31	-----	0.4	0.4
83	12/07/2016 09:32	-----	0.4	0.4
84	12/07/2016 09:33	-----	0.4	0.4

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 78 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/08/2016 04:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/08/2016 06:05	-----	0.3	0.4
2	12/08/2016 06:06	-----	0.3	0.4
3	12/08/2016 06:07	-----	0.3	0.4
4	12/08/2016 06:08	-----	0.3	0.4
5	12/08/2016 06:09	-----	0.3	0.4
6	12/08/2016 06:10	-----	0.3	0.4
7	12/08/2016 06:11	-----	0.4	0.4
8	12/08/2016 06:12	-----	0.4	0.5
9	12/08/2016 06:13	-----	0.4	0.5
10	12/08/2016 06:14	-----	0.4	0.5
11	12/08/2016 06:15	-----	0.4	0.5
12	12/08/2016 06:16	-----	0.4	0.5
13	12/08/2016 06:17	-----	0.4	0.6
14	12/08/2016 06:18	-----	0.4	0.5
15	12/08/2016 06:19	-----	0.4	0.5
16	12/08/2016 06:20	-----	0.4	0.6
17	12/08/2016 06:21	-----	0.4	0.6
18	12/08/2016 06:22	-----	0.4	0.5
19	12/08/2016 06:23	-----	0.4	0.5
20	12/08/2016 06:24	-----	0.5	0.6
21	12/08/2016 06:25	-----	0.5	0.6
22	12/08/2016 06:26	-----	0.4	0.6
23	12/08/2016 06:27	-----	0.5	0.6
24	12/08/2016 06:28	-----	0.5	0.7
25	12/08/2016 06:29	-----	0.5	0.9
26	12/08/2016 06:30	-----	0.4	0.5
27	12/08/2016 06:31	-----	0.6	1.4
28	12/08/2016 06:32	-----	0.5	0.6
29	12/08/2016 06:33	-----	0.5	0.6
30	12/08/2016 06:34	-----	0.4	0.5

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 78 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/08/2016 04:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/08/2016 06:35	-----	0.4	0.5
32	12/08/2016 06:36	-----	0.5	0.8
33	12/08/2016 06:37	-----	0.4	0.5
34	12/08/2016 06:38	-----	0.5	0.6
35	12/08/2016 06:39	-----	0.5	1.0
36	12/08/2016 06:40	-----	0.5	0.6
37	12/08/2016 06:41	-----	0.5	0.6
38	12/08/2016 06:42	-----	0.5	0.6
39	12/08/2016 06:43	-----	0.5	0.8
40	12/08/2016 06:44	-----	0.5	0.7
41	12/08/2016 06:45	-----	0.5	0.6
42	12/08/2016 06:46	-----	0.5	0.6
43	12/08/2016 06:47	-----	0.5	0.6
44	12/08/2016 06:48	-----	0.5	0.7
45	12/08/2016 06:49	-----	0.5	0.6
46	12/08/2016 06:50	-----	0.5	0.8
47	12/08/2016 06:51	-----	0.5	0.7
48	12/08/2016 06:52	-----	0.5	0.6
49	12/08/2016 06:53	-----	0.5	0.6
50	12/08/2016 06:54	-----	0.5	0.8
51	12/08/2016 06:55	-----	0.5	0.6
52	12/08/2016 06:56	-----	0.5	0.8
53	12/08/2016 06:57	-----	0.5	0.6
54	12/08/2016 06:58	-----	0.5	0.6
55	12/08/2016 06:59	-----	0.5	0.8
56	12/08/2016 07:00	-----	0.6	0.8
57	12/08/2016 07:01	-----	0.5	0.6
58	12/08/2016 07:02	-----	0.5	0.7
59	12/08/2016 07:03	-----	0.5	0.7
60	12/08/2016 07:04	-----	0.5	0.7

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 78 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/08/2016 04:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
61	12/08/2016 07:05	-----	0.5	0.7
62	12/08/2016 07:06	-----	0.5	0.9
63	12/08/2016 07:07	-----	0.5	1.1
64	12/08/2016 07:08	-----	0.6	0.8
65	12/08/2016 07:09	-----	0.5	1.2
66	12/08/2016 07:10	-----	0.5	0.6
67	12/08/2016 07:11	-----	0.5	0.6
68	12/08/2016 07:12	-----	0.6	0.8
69	12/08/2016 07:13	-----	0.5	0.6
70	12/08/2016 07:14	-----	0.5	0.6
71	12/08/2016 07:15	-----	0.5	0.6
72	12/08/2016 07:16	-----	0.5	0.6
73	12/08/2016 07:17	-----	0.5	0.6
74	12/08/2016 07:18	-----	0.5	0.6
75	12/08/2016 07:19	-----	0.5	0.6
76	12/08/2016 07:20	-----	0.5	0.6
77	12/08/2016 07:21	-----	0.5	0.6
78	12/08/2016 07:22	-----	0.5	0.6

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 59 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/08/2016 04:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	12/08/2016 08:15	-----	0.6	0.7
2	12/08/2016 08:16	-----	0.6	0.6
3	12/08/2016 08:17	-----	0.6	0.6
4	12/08/2016 08:18	-----	0.6	0.6
5	12/08/2016 08:19	-----	0.6	0.6
6	12/08/2016 08:20	-----	0.6	0.6
7	12/08/2016 08:21	-----	0.6	0.7
8	12/08/2016 08:22	-----	0.5	0.6
9	12/08/2016 08:23	-----	0.6	0.6
10	12/08/2016 08:24	-----	0.6	0.6
11	12/08/2016 08:25	-----	0.6	0.6
12	12/08/2016 08:26	-----	0.6	0.7
13	12/08/2016 08:27	-----	0.5	0.6
14	12/08/2016 08:28	-----	0.5	0.6
15	12/08/2016 08:29	-----	0.5	0.6
16	12/08/2016 08:30	-----	0.5	0.6
17	12/08/2016 08:31	-----	0.5	0.6
18	12/08/2016 08:32	-----	0.5	0.6
19	12/08/2016 08:33	-----	0.5	0.6
20	12/08/2016 08:34	-----	0.5	0.6
21	12/08/2016 08:35	-----	0.5	0.6
22	12/08/2016 08:36	-----	0.5	0.6
23	12/08/2016 08:37	-----	0.5	0.6
24	12/08/2016 08:38	-----	0.5	0.6
25	12/08/2016 08:39	-----	0.5	0.6
26	12/08/2016 08:40	-----	0.5	0.6
27	12/08/2016 08:41	-----	0.5	0.6
28	12/08/2016 08:42	-----	0.5	0.6
29	12/08/2016 08:43	-----	0.5	0.6
30	12/08/2016 08:44	-----	0.5	0.6

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 008093

User ID: 00000001 Site ID: 00000020

Data Points: 59 Gas Name: Isobutylene Sample Period: 60 sec

Last Calibration Time: 12/08/2016 04:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
31	12/08/2016 08:45	-----	0.5	0.6
32	12/08/2016 08:46	-----	0.5	0.6
33	12/08/2016 08:47	-----	0.5	0.6
34	12/08/2016 08:48	-----	0.5	0.6
35	12/08/2016 08:49	-----	0.5	0.6
36	12/08/2016 08:50	-----	0.5	0.7
37	12/08/2016 08:51	-----	0.5	0.6
38	12/08/2016 08:52	-----	0.5	0.6
39	12/08/2016 08:53	-----	0.5	0.6
40	12/08/2016 08:54	-----	0.5	0.6
41	12/08/2016 08:55	-----	0.5	0.6
42	12/08/2016 08:56	-----	0.5	0.6
43	12/08/2016 08:57	-----	0.5	0.6
44	12/08/2016 08:58	-----	0.5	0.6
45	12/08/2016 08:59	-----	0.5	0.6
46	12/08/2016 09:00	-----	0.5	0.6
47	12/08/2016 09:01	-----	0.5	0.6
48	12/08/2016 09:02	-----	0.5	0.6
49	12/08/2016 09:03	-----	0.5	0.6
50	12/08/2016 09:04	-----	0.5	0.6
51	12/08/2016 09:05	-----	0.5	0.6
52	12/08/2016 09:06	-----	0.5	0.6
53	12/08/2016 09:07	-----	0.5	0.6
54	12/08/2016 09:08	-----	0.5	0.6
55	12/08/2016 09:09	-----	0.5	0.6
56	12/08/2016 09:10	-----	0.5	0.6
57	12/08/2016 09:11	-----	0.5	0.6
58	12/08/2016 09:12	-----	0.5	0.6
59	12/08/2016 09:13	-----	0.5	0.7

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10	0.012		
20	0.012		
30	0.013		
40	0.01		
50	0.009		
60	0.01		
70	0.01		
80	0.011		
90	0.01		
100	0.014		
110	0.012		
120	0.009		
130	0.009		
140	0.009		
150	0.009		
160	0.009		
170	0.01		
180	0.009		
190	0.013		
200	0.01		
210	0.008		
220	0.008		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
230	0.008		
240	0.008		
250	0.008		
260	0.008		
270	0.008		
280	0.009		
290	0.008		
300	0.008		
310	0.008		
320	0.008		
330	0.009		
340	0.008		
350	0.008		
360	0.008		
370	0.008		
380	0.008		
390	0.008		
400	0.008		
410	0.009		
420	0.01		
430	0.009		
440	0.009		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
450	0.008		
460	0.008		
470	0.008		
480	0.008		
490	0.008		
500	0.007		
510	0.008		
520	0.007		
530	0.007		
540	0.007		
550	0.007		
560	0.008		
570	0.007		
580	0.007		
590	0.007		
600	0.007		
610	0.007		
620	0.007		
630	0.007		
640	0.007		
650	0.007		
660	0.008		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

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Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
670	0.007		
680	0.007		
690	0.007		
700	0.008		
710	0.008		
720	0.007		
730	0.007		
740	0.007		
750	0.007		
760	0.007		
770	0.007		
780	0.007		
790	0.007		
800	0.007		
810	0.007		
820	0.008		
830	0.008		
840	0.007		
850	0.007		
860	0.007		
870	0.006		
880	0.006		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

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Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
890	0.006		
900	0.007		
910	0.006		
920	0.006		
930	0.006		
940	0.006		
950	0.006		
960	0.007		
970	0.007		
980	0.007		
990	0.007		
1000	0.006		
1010	0.008		
1020	0.006		
1030	0.007		
1040	0.007		
1050	0.006		
1060	0.006		
1070	0.006		
1080	0.007		
1090	0.009		
1100	0.007		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1110	0.007		
1120	0.007		
1130	0.006		
1140	0.006		
1150	0.006		
1160	0.006		
1170	0.007		
1180	0.006		
1190	0.006		
1200	0.006		
1210	0.006		
1220	0.007		
1230	0.007		
1240	0.006		
1250	0.007		
1260	0.007		
1270	0.007		
1280	0.007		
1290	0.006		
1300	0.006		
1310	0.006		
1320	0.006		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1330	0.006		
1340	0.007		
1350	0.007		
1360	0.007		
1370	0.006		
1380	0.006		
1390	0.007		
1400	0.006		
1410	0.006		
1420	0.006		
1430	0.006		
1440	0.007		
1450	0.006		
1460	0.006		
1470	0.006		
1480	0.007		
1490	0.007		
1500	0.007		
1510	0.007		
1520	0.007		
1530	0.006		
1540	0.007		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1550	0.007		
1560	0.007		
1570	0.007		
1580	0.007		
1590	0.006		
1600	0.007		
1610	0.006		
1620	0.007		
1630	0.007		
1640	0.007		
1650	0.007		
1660	0.007		
1670	0.007		
1680	0.007		
1690	0.007		
1700	0.008		
1710	0.007		
1720	0.007		
1730	0.007		
1740	0.007		
1750	0.007		
1760	0.007		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

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Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
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Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1770	0.008		
1780	0.007		
1790	0.008		
1800	0.007		
1810	0.007		
1820	0.007		
1830	0.007		
1840	0.007		
1850	0.007		
1860	0.007		
1870	0.007		
1880	0.007		
1890	0.007		
1900	0.007		
1910	0.008		
1920	0.007		
1930	0.007		
1940	0.007		
1950	0.007		
1960	0.007		
1970	0.008		
1980	0.008		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
1990	0.008		
2000	0.008		
2010	0.008		
2020	0.008		
2030	0.008		
2040	0.008		
2050	0.008		
2060	0.008		
2070	0.008		
2080	0.008		
2090	0.008		
2100	0.008		
2110	0.007		
2120	0.008		
2130	0.008		
2140	0.008		
2150	0.008		
2160	0.008		
2170	0.008		
2180	0.009		
2190	0.008		
2200	0.008		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2210	0.008		
2220	0.008		
2230	0.008		
2240	0.009		
2250	0.008		
2260	0.008		
2270	0.008		
2280	0.008		
2290	0.008		
2300	0.008		
2310	0.008		
2320	0.009		
2330	0.009		
2340	0.009		
2350	0.009		
2360	0.009		
2370	0.009		
2380	0.009		
2390	0.009		
2400	0.009		
2410	0.009		
2420	0.009		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2430	0.009		
2440	0.01		
2450	0.009		
2460	0.01		
2470	0.009		
2480	0.009		
2490	0.01		
2500	0.01		
2510	0.009		
2520	0.01		
2530	0.009		
2540	0.009		
2550	0.01		
2560	0.01		
2570	0.01		
2580	0.01		
2590	0.01		
2600	0.01		
2610	0.01		
2620	0.01		
2630	0.01		
2640	0.01		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
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Test Start Time	1:52:29 PM
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Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2650	0.01		
2660	0.01		
2670	0.01		
2680	0.01		
2690	0.01		
2700	0.01		
2710	0.011		
2720	0.011		
2730	0.01		
2740	0.01		
2750	0.01		
2760	0.01		
2770	0.011		
2780	0.011		
2790	0.01		
2800	0.011		
2810	0.01		
2820	0.01		
2830	0.011		
2840	0.011		
2850	0.011		
2860	0.01		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

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Serial Number	8530122710
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Test Start Time	1:52:29 PM
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Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
2870	0.01		
2880	0.011		
2890	0.01		
2900	0.011		
2910	0.011		
2920	0.011		
2930	0.011		
2940	0.011		
2950	0.011		
2960	0.012		
2970	0.012		
2980	0.012		
2990	0.012		
3000	0.012		
3010	0.013		
3020	0.013		
3030	0.012		
3040	0.013		
3050	0.012		
3060	0.012		
3070	0.012		
3080	0.012		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3090	0.013		
3100	0.012		
3110	0.012		
3120	0.013		
3130	0.013		
3140	0.013		
3150	0.013		
3160	0.013		
3170	0.013		
3180	0.014		
3190	0.013		
3200	0.013		
3210	0.013		
3220	0.014		
3230	0.014		
3240	0.014		
3250	0.014		
3260	0.014		
3270	0.014		
3280	0.014		
3290	0.014		
3300	0.013		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
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Test Start Time	1:52:29 PM
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Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3310	0.013		
3320	0.015		
3330	0.014		
3340	0.014		
3350	0.014		
3360	0.014		
3370	0.014		
3380	0.014		
3390	0.014		
3400	0.014		
3410	0.015		
3420	0.014		
3430	0.014		
3440	0.014		
3450	0.014		
3460	0.014		
3470	0.015		
3480	0.015		
3490	0.015		
3500	0.015		
3510	0.015		
3520	0.015		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3530	0.015		
3540	0.015		
3550	0.015		
3560	0.016		
3570	0.015		
3580	0.015		
3590	0.015		
3600	0.015		
3610	0.015		
3620	0.015		
3630	0.016		
3640	0.015		
3650	0.015		
3660	0.015		
3670	0.016		
3680	0.015		
3690	0.015		
3700	0.015		
3710	0.015		
3720	0.016		
3730	0.016		
3740	0.017		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3750	0.016		
3760	0.016		
3770	0.016		
3780	0.016		
3790	0.015		
3800	0.016		
3810	0.017		
3820	0.016		
3830	0.019		
3840	0.027		
3850	0.019		
3860	0.017		
3870	0.016		
3880	0.016		
3890	0.017		
3900	0.017		
3910	0.016		
3920	0.016		
3930	0.016		
3940	0.016		
3950	0.016		
3960	0.016		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
3970	0.016		
3980	0.016		
3990	0.016		
4000	0.016		
4010	0.016		
4020	0.016		
4030	0.016		
4040	0.016		
4050	0.016		
4060	0.016		
4070	0.016		
4080	0.016		
4090	0.016		
4100	0.016		
4110	0.016		
4120	0.016		
4130	0.016		
4140	0.016		
4150	0.016		
4160	0.016		
4170	0.016		
4180	0.016		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4190	0.016		
4200	0.016		
4210	0.016		
4220	0.016		
4230	0.016		
4240	0.016		
4250	0.016		
4260	0.016		
4270	0.015		
4280	0.015		
4290	0.015		
4300	0.015		
4310	0.016		
4320	0.016		
4330	0.016		
4340	0.015		
4350	0.015		
4360	0.015		
4370	0.015		
4380	0.015		
4390	0.015		
4400	0.015		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4410	0.015		
4420	0.015		
4430	0.015		
4440	0.015		
4450	0.015		
4460	0.015		
4470	0.015		
4480	0.015		
4490	0.016		
4500	0.016		
4510	0.015		
4520	0.015		
4530	0.015		
4540	0.015		
4550	0.015		
4560	0.015		
4570	0.022		
4580	0.021		
4590	0.017		
4600	0.016		
4610	0.016		
4620	0.015		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4630	0.015		
4640	0.016		
4650	0.017		
4660	0.016		
4670	0.015		
4680	0.015		
4690	0.024		
4700	0.017		
4710	0.016		
4720	0.017		
4730	0.016		
4740	0.015		
4750	0.025		
4760	0.017		
4770	0.018		
4780	0.016		
4790	0.015		
4800	0.015		
4810	0.015		
4820	0.015		
4830	0.015		
4840	0.015		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
4850	0.015		
4860	0.015		
4870	0.016		
4880	0.017		
4890	0.015		
4900	0.019		
4910	0.017		
4920	0.029		
4930	0.04		
4940	0.019		
4950	0.022		
4960	0.026		
4970	0.025		
4980	0.02		
4990	0.016		
5000	0.016		
5010	0.016		
5020	0.016		
5030	0.02		
5040	0.016		
5050	0.015		
5060	0.015		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5070	0.015		
5080	0.015		
5090	0.015		
5100	0.023		
5110	0.018		
5120	0.016		
5130	0.015		
5140	0.015		
5150	0.016		
5160	0.018		
5170	0.016		
5180	0.015		
5190	0.015		
5200	0.015		
5210	0.019		
5220	0.015		
5230	0.015		
5240	0.015		
5250	0.015		
5260	0.014		
5270	0.014		
5280	0.03		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5290	0.026		
5300	0.023		
5310	0.02		
5320	0.022		
5330	0.022		
5340	0.02		
5350	0.017		
5360	0.016		
5370	0.018		
5380	0.017		
5390	0.015		
5400	0.014		
5410	0.015		
5420	0.018		
5430	0.015		
5440	0.015		
5450	0.015		
5460	0.014		
5470	0.014		
5480	0.015		
5490	0.015		
5500	0.017		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5510	0.018		
5520	0.017		
5530	0.028		
5540	0.023		
5550	0.016		
5560	0.015		
5570	0.014		
5580	0.014		
5590	0.014		
5600	0.014		
5610	0.014		
5620	0.015		
5630	0.014		
5640	0.015		
5650	0.014		
5660	0.015		
5670	0.018		
5680	0.016		
5690	0.015		
5700	0.015		
5710	0.016		
5720	0.014		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5730	0.017		
5740	0.016		
5750	0.014		
5760	0.014		
5770	0.015		
5780	0.014		
5790	0.014		
5800	0.014		
5810	0.016		
5820	0.014		
5830	0.016		
5840	0.015		
5850	0.018		
5860	0.021		
5870	0.019		
5880	0.019		
5890	0.016		
5900	0.018		
5910	0.019		
5920	0.015		
5930	0.015		
5940	0.016		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
5950	0.014		
5960	0.015		
5970	0.018		
5980	0.015		
5990	0.014		
6000	0.013		
6010	0.014		
6020	0.014		
6030	0.013		
6040	0.014		
6050	0.013		
6060	0.015		
6070	0.016		
6080	0.016		
6090	0.014		
6100	0.014		
6110	0.014		
6120	0.014		
6130	0.014		
6140	0.014		
6150	0.014		
6160	0.015		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6170	0.014		
6180	0.014		
6190	0.014		
6200	0.014		
6210	0.015		
6220	0.016		
6230	0.026		
6240	0.022		
6250	0.023		
6260	0.018		
6270	0.024		
6280	0.028		
6290	0.016		
6300	0.015		
6310	0.014		
6320	0.014		
6330	0.014		
6340	0.015		
6350	0.02		
6360	0.02		
6370	0.019		
6380	0.026		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6390	0.017		
6400	0.016		
6410	0.015		
6420	0.014		
6430	0.014		
6440	0.014		
6450	0.015		
6460	0.015		
6470	0.014		
6480	0.015		
6490	0.015		
6500	0.019		
6510	0.019		
6520	0.017		
6530	0.015		
6540	0.014		
6550	0.014		
6560	0.015		
6570	0.015		
6580	0.015		
6590	0.015		
6600	0.015		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6610	0.019		
6620	0.019		
6630	0.018		
6640	0.017		
6650	0.017		
6660	0.019		
6670	0.017		
6680	0.017		
6690	0.018		
6700	0.016		
6710	0.015		
6720	0.015		
6730	0.015		
6740	0.052		
6750	0.047		
6760	0.039		
6770	0.057		
6780	0.222		
6790	0.045		
6800	0.025		
6810	0.018		
6820	0.015		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6830	0.015		
6840	0.015		
6850	0.015		
6860	0.015		
6870	0.02		
6880	0.02		
6890	0.017		
6900	0.016		
6910	0.016		
6920	0.015		
6930	0.016		
6940	0.015		
6950	0.017		
6960	0.024		
6970	0.017		
6980	0.018		
6990	0.017		
7000	0.016		
7010	0.015		
7020	0.016		
7030	0.015		
7040	0.016		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7050	0.017		
7060	0.023		
7070	0.018		
7080	0.019		
7090	0.018		
7100	0.017		
7110	0.025		
7120	0.019		
7130	0.016		
7140	0.017		
7150	0.017		
7160	0.017		
7170	0.016		
7180	0.016		
7190	0.015		
7200	0.016		
7210	0.016		
7220	0.016		
7230	0.016		
7240	0.015		
7250	0.015		
7260	0.016		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7270	0.015		
7280	0.015		
7290	0.015		
7300	0.015		
7310	0.015		
7320	0.016		
7330	0.016		
7340	0.015		
7350	0.016		
7360	0.015		
7370	0.015		
7380	0.016		
7390	0.016		
7400	0.016		
7410	0.016		
7420	0.016		
7430	0.016		
7440	0.018		
7450	0.017		
7460	0.016		
7470	0.016		
7480	0.02		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7490	0.018		
7500	0.016		
7510	0.017		
7520	0.018		
7530	0.021		
7540	0.017		
7550	0.017		
7560	0.016		
7570	0.021		
7580	0.026		
7590	0.025		
7600	0.018		
7610	0.019		
7620	0.02		
7630	0.018		
7640	0.017		
7650	0.021		
7660	0.02		
7670	0.021		
7680	0.019		
7690	0.018		
7700	0.019		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7710	0.018		
7720	0.025		
7730	0.027		
7740	0.021		
7750	0.017		
7760	0.017		
7770	0.017		
7780	0.017		
7790	0.019		
7800	0.019		
7810	0.018		
7820	0.02		
7830	0.019		
7840	0.02		
7850	0.02		
7860	0.019		
7870	0.021		
7880	0.019		
7890	0.023		
7900	0.023		
7910	0.018		
7920	0.018		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7930	0.017		
7940	0.018		
7950	0.042		
7960	0.04		
7970	0.028		
7980	0.025		
7990	0.02		
8000	0.021		
8010	0.021		
8020	0.018		
8030	0.016		
8040	0.016		
8050	0.021		
8060	0.017		
8070	0.024		
8080	0.022		
8090	0.017		
8100	0.018		
8110	0.019		
8120	0.513		
8130	0.482		
8140	0.115		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8150	0.159		
8160	0.119		
8170	0.079		
8180	0.099		
8190	0.028		
8200	0.023		
8210	0.018		
8220	0.04		
8230	0.018		
8240	0.016		
8250	0.017		
8260	0.016		
8270	0.016		
8280	0.016		
8290	0.015		
8300	0.015		
8310	0.016		
8320	0.016		
8330	0.015		
8340	0.015		
8350	0.016		
8360	0.015		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8370	0.014		
8380	0.014		
8390	0.014		
8400	0.018		
8410	0.014		
8420	0.015		
8430	0.015		
8440	0.014		
8450	0.014		
8460	0.014		
8470	0.013		
8480	0.015		
8490	0.015		
8500	0.015		
8510	0.014		
8520	0.014		
8530	0.014		
8540	0.014		
8550	0.014		
8560	0.013		
8570	0.013		
8580	0.013		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8590	0.014		
8600	0.014		
8610	0.014		
8620	0.014		
8630	0.013		
8640	0.014		
8650	0.014		
8660	0.014		
8670	0.013		
8680	0.013		
8690	0.014		
8700	0.014		
8710	0.014		
8720	0.014		
8730	0.014		
8740	0.013		
8750	0.014		
8760	0.014		
8770	0.014		
8780	0.013		
8790	0.014		
8800	0.013		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8810	0.013		
8820	0.013		
8830	0.014		
8840	0.015		
8850	0.016		
8860	0.015		
8870	0.014		
8880	0.014		
8890	0.016		
8900	0.016		
8910	0.019		
8920	0.031		
8930	0.015		
8940	0.015		
8950	0.014		
8960	0.013		
8970	0.013		
8980	0.013		
8990	0.013		
9000	0.014		
9010	0.013		
9020	0.013		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9030	0.013		
9040	0.013		
9050	0.013		
9060	0.013		
9070	0.013		
9080	0.014		
9090	0.013		
9100	0.013		
9110	0.013		
9120	0.014		
9130	0.013		
9140	0.012		
9150	0.012		
9160	0.031		
9170	0.075		
9180	0.05		
9190	0.022		
9200	0.017		
9210	0.015		
9220	0.013		
9230	0.038		
9240	0.045		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9250	0.035		
9260	0.017		
9270	0.015		
9280	0.014		
9290	0.013		
9300	0.012		
9310	0.013		
9320	0.134		
9330	0.066		
9340	0.059		
9350	0.042		
9360	0.061		
9370	0.111		
9380	0.032		
9390	0.025		
9400	0.046		
9410	0.041		
9420	0.056		
9430	0.241		
9440	0.087		
9450	0.087		
9460	0.427		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9470	0.226		
9480	0.222		
9490	0.356		
9500	0.082		
9510	0.036		
9520	0.025		
9530	0.05		
9540	0.115		
9550	0.034		
9560	0.021		
9570	0.018		
9580	0.016		
9590	0.016		
9600	0.014		
9610	0.015		
9620	0.082		
9630	0.087		
9640	0.032		
9650	0.018		
9660	0.015		
9670	0.023		
9680	0.025		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9690	0.018		
9700	0.013		
9710	0.014		
9720	0.012		
9730	0.012		
9740	0.013		
9750	0.012		
9760	0.011		
9770	0.013		
9780	0.018		
9790	0.013		
9800	0.013		
9810	0.012		
9820	0.011		
9830	0.017		
9840	0.011		
9850	0.011		
9860	0.011		
9870	0.011		
9880	0.011		
9890	0.011		
9900	0.011		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
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Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9910	0.011		
9920	0.011		
9930	0.011		
9940	0.011		
9950	0.01		
9960	0.01		
9970	0.01		
9980	0.01		
9990	0.01		
10000	0.012		
10010	0.013		
10020	0.013		
10030	0.011		
10040	0.011		
10050	0.012		
10060	0.01		
10070	0.01		
10080	0.011		
10090	0.011		
10100	0.011		
10110	0.011		
10120	0.011		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
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Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10130	0.011		
10140	0.011		
10150	0.01		
10160	0.01		
10170	0.01		
10180	0.01		
10190	0.012		
10200	0.011		
10210	0.01		
10220	0.01		
10230	0.01		
10240	0.01		
10250	0.01		
10260	0.011		
10270	0.011		
10280	0.012		
10290	0.011		
10300	0.01		
10310	0.011		
10320	0.011		
10330	0.01		
10340	0.013		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10350	0.01		
10360	0.01		
10370	0.011		
10380	0.011		
10390	0.01		
10400	0.01		
10410	0.01		
10420	0.01		
10430	0.01		
10440	0.011		
10450	0.01		
10460	0.01		
10470	0.011		
10480	0.01		
10490	0.01		
10500	0.01		
10510	0.011		
10520	0.01		
10530	0.01		
10540	0.01		
10550	0.01		
10560	0.01		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10570	0.01		
10580	0.011		
10590	0.011		
10600	0.01		
10610	0.011		
10620	0.011		
10630	0.01		
10640	0.01		
10650	0.011		
10660	0.011		
10670	0.01		
10680	0.011		
10690	0.011		
10700	0.011		
10710	0.01		
10720	0.01		
10730	0.011		
10740	0.011		
10750	0.014		
10760	0.01		
10770	0.012		
10780	0.014		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10790	0.012		
10800	0.011		
10810	0.01		
10820	0.012		
10830	0.011		
10840	0.011		
10850	0.011		
10860	0.011		
10870	0.011		
10880	0.011		
10890	0.011		
10900	0.01		
10910	0.011		
10920	0.011		
10930	0.011		
10940	0.011		
10950	0.011		
10960	0.011		
10970	0.011		
10980	0.012		
10990	0.029		
11000	0.017		

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Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11010	0.015		
11020	0.013		
11030	0.012		
11040	0.011		
11050	0.011		
11060	0.011		
11070	0.011		
11080	0.011		
11090	0.011		
11100	0.011		
11110	0.011		
11120	0.011		
11130	0.012		
11140	0.012		
11150	0.012		
11160	0.011		
11170	0.011		
11180	0.011		
11190	0.012		
11200	0.012		
11210	0.011		
11220	0.014		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11230	0.013		
11240	0.012		
11250	0.012		
11260	0.013		
11270	0.013		
11280	0.014		
11290	0.013		
11300	0.015		
11310	0.017		
11320	0.015		
11330	0.012		
11340	0.012		
11350	0.013		
11360	0.035		
11370	0.019		
11380	0.014		
11390	0.013		
11400	0.013		
11410	0.012		
11420	0.012		
11430	0.012		
11440	0.011		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11450	0.012		
11460	0.011		
11470	0.012		
11480	0.012		
11490	0.012		
11500	0.014		
11510	0.011		
11520	0.012		
11530	0.012		
11540	0.012		
11550	0.012		
11560	0.012		
11570	0.025		
11580	0.02		
11590	0.015		
11600	0.012		
11610	0.012		
11620	0.012		
11630	0.012		
11640	0.013		
11650	0.013		
11660	0.012		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11670	0.019		
11680	0.019		
11690	0.012		
11700	0.013		
11710	0.013		
11720	0.014		
11730	0.013		
11740	0.013		
11750	0.012		
11760	0.013		
11770	0.012		
11780	0.012		
11790	0.012		
11800	0.012		
11810	0.012		
11820	0.012		
11830	0.012		
11840	0.013		
11850	0.015		
11860	0.029		
11870	0.023		
11880	0.017		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
11890	0.017		
11900	0.018		
11910	0.016		
11920	0.017		
11930	0.016		
11940	0.061		
11950	0.015		
11960	0.014		
11970	0.013		
11980	0.014		
11990	0.013		
12000	0.014		
12010	0.015		
12020	0.017		
12030	0.02		
12040	0.016		
12050	0.027		
12060	0.016		
12070	0.019		
12080	0.027		
12090	0.026		
12100	0.016		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12110	0.015		
12120	0.019		
12130	0.028		
12140	0.023		
12150	0.018		
12160	0.017		
12170	0.016		
12180	0.015		
12190	0.014		
12200	0.014		
12210	0.014		
12220	0.015		
12230	0.015		
12240	0.017		
12250	0.017		
12260	0.06		
12270	0.07		
12280	0.099		
12290	0.054		
12300	0.063		
12310	0.038		
12320	0.04		

Attachment D: Community Air Monitoring Data

Phase II Investigation Field Report

Remedial Investigation, Former Camp Hero, Montauk, New York

Activity: Down-wind air monitoring during drilling operations

Drill Rig: Fraste Sonic XL Operator(s): D. Moon (Cascade), M. Glinski (AECOM)

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530122710
Firmware Version	3.4
Test Start Time	1:52:29 PM
Test Start Date	12/8/2016
Test Length [D:H:M]	0:03:25
Test Interval [M:S]	0:10
Mass Average [mg/m3]	0.018
Mass Minimum [mg/m3]	0.006
Mass Maximum [mg/m3]	0.513
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1233

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
12330	0.032		

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Attachment E

Laser Induced Fluorescence Screening Report

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Camp Hero State Park, Formerly Used Defense Site

Fri. Dec. 23, 2016

High Resolution Site Evaluation Report

Project Location: **Colonel John Dunn Road, Camp Hero, Montauk, NY**

Client

Brendan McGuinness
AECOM
3101 Wilson Boulevard
Arlington, Virginia 22201

Sensor Technologies

- ☐ Membrane Interface Probe with Hydraulic Profiling Tool (MiHPT)
- ☐ Membrane Interface Probe (MIP)
- ☐ Hydraulic Profiling Tool (HPT)
- ☐ Electrical Conductivity (EC)
- ☐ Low Level MiHPT (LLMiHPT)
- ☑ Laser Induced Fluorescence (LIF) - Ultraviolet Optical Scanning Tool (UVOST®)

Membrane Interface Probe Detectors

- ☐ Photo Ionization Detector (PID)
- ☐ Flame Ionization Detector (FID)
- ☐ Halogen Specific Detector (XSD)
- ☐ Electron Capture Detector (ECD)

Notes/Anomalies

No anomalies noted

Sample Dates	# of Locations	Survey Depth	Aquisition Software Version	Operator
e . o . 3 , 2016 to Sun. Dec. 4, 2016	44	38.33 Feet	Dakota Technologies, Optical Screening Tool (OST)	Johnn Montgomeryy

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Electrical Conductivity (EC)
EC continuously measures soil electrical conductivity by transmitting a low level alternating electrical current through the soil between electrically isolated sensor pins of the probe and the probe body. The voltage response of the imposed current to the soil is measured across these same two points. Conductivity, the inverse of resistivity, is measured in milliSiemens/meter (mS/m). The probe is reasonably accurate in the range of 5 to 400 mS/m. In general lower conductivity values are characteristic of larger grain soil types while higher conductivities are characteristic of finer sized particles such as finer sand, silts, and clays.

Hydraulic Profile Tool (HPT)
HPT continuously measures the hydraulic conductivity of the soil by injecting the constant flow of water through a small stainless steel screen into the soil formation and measuring the hydraulic pressure at both the pump source and the injection port vs. depth. The flow rate of the water into the soil formation is also measured and recorded in milliliters per minute (mL/min) versus depth. Static formation hydraulic pressure measurements (dissipation tests) can also be made by stopping at discrete intervals to determine the static water level. The HPT software can also provide an estimate of K (a value used in hydrogeologic calculations) to provide an interpretation of the hydraulic permeability of the formation.

Membrane Interface Probe (MIP)
MIP continuously measures total chemical detector response to volatile organic compounds (VOCs) vs. depth. The operating principle is based on heating the soil and/or water around a semi-permeable polymer membrane to 121° Celsius (C), volatilizing VOCs that then partition across this membrane. Nitrogen is used as an inert carrier gas, and travels from a surface supply down a transfer tubing which sweeps across the back of the membrane and returns any captured VOCs to the installed detectors at the surface. It takes approximately 60 seconds for the nitrogen gas stream to travel through 50 meters of inert tubing and reach the detectors (see detectors below). Detector response is recorded in microvolts vs. depth. The MIP can be used in saturated or unsaturated soils, as water does not pass through the membrane.

Photo Ionization Detector (PID)
The PID consists of a special 10.2 electron volt (eV) ultraviolet lamp that emits sufficient energy to ionize most aromatics such as benzene, toluene, xylene, etc., and many other molecules with an ionization potential below 10.2 eV. The PID also emits a response for chlorinated compounds containing double-bonded carbons (halogenated ethylenes), such as trichloroethylene (TCE) and tetrachloroethylene (PCE).

Flame Ionization Detector (FID)
The FID utilizes a hydrogen flame to combust compounds in the carrier gas and responds to any molecule with a carbon-hydrogen bond.

Halogen Specific Detector (XSD)
The XSD consists of a ceramic probe, platinum wire (anode) and platinum bead (cathode) mounted inside a high temperature reactor. The XSD is sensitive and provides a linear response to the quantity of halogen.

Electron Capture Detector (ECD)
The ECD detector consists of a sealed stainless steel cylinder containing radioactive Nickel-63, similar to a household smoke detector, that emits beta particles (electrons), which collide with the instrument carrier gas molecules, ionizing them in the process. When electro-negative compounds including chlorinated, fluorinated, or brominated molecules enter the cell, they immediately combine with the free electrons and provide a detector response. The ECD response is non-linear and variable depending on the atomic structure of the compound detected.

Low Level MIP (LL-MIP)
LL MIP can greatly increase the sensitivity of the MIP logging tool. The primary feature of LL MIP technology is that the carrier gas stream that sweeps the internal surface of the MIP membrane is pulsed. This results in an increase in the concentration of VOC contaminant delivered to the MIP detectors. This technology can provide the ability to track and map contaminant plumes down to concentrations at or below the 100 ppb range for some contaminants. Performance is highly dependent on the condition of the MIP system and the sensitivity of the installed detectors.

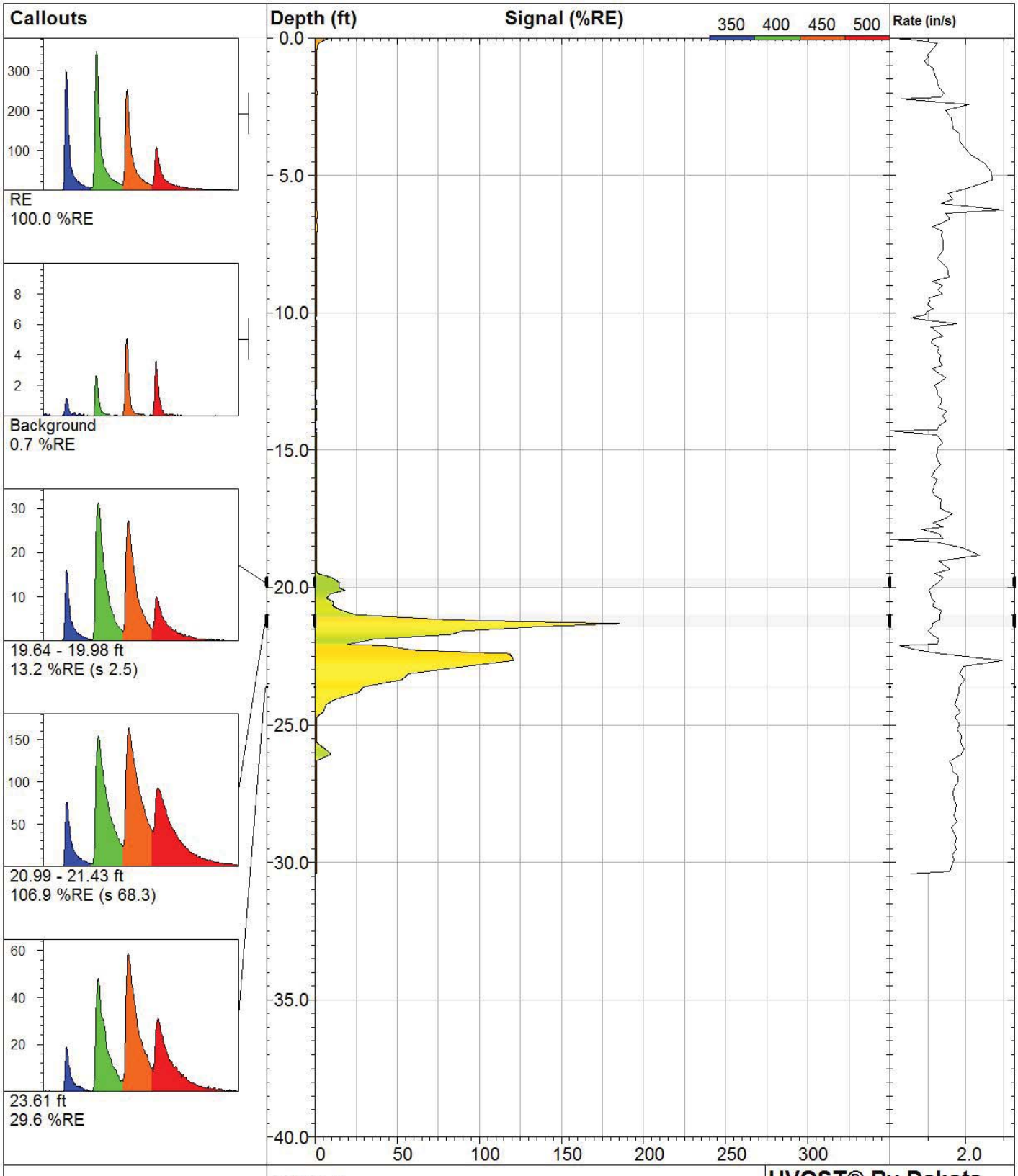
Laser Induced Fluorescence - UltraViolet Optical Scanning Tool (LIF-UVOST®)
The LIF/UVOST® system uses a high- energy laser to produce an ultraviolet light source for the detection of polycyclic aromatic hydrocarbons (PAHs). The LIF/ UVOST® system employs a excitation beam of light from a XeCl laser at 308 nm light pulsed at 50 megahertz. Any residual phase PAHs present in the soil grains will absorb this photon energy in the form of fluorescence. This fluorescence is returned to the optical detection system via a second silica fiber optic line, measured, and recorded in real time across four specific wavelengths, namely 350, 400, 450, and 500 nm. Individual LIF/UVOST® logs consist of a primary graph of total fluorescence as a percentage of a Reference Emitter (RE) test standard versus depth, an information box and up to five waveform callouts. These callouts present the fluoresce intensity of each of the monitored wavelengths on the Y-axis (in microvolts (uV)). The four peaks are due to the fluorescence at the four monitored wavelengths called channels. Each channel is assigned a color. Various NAPLs will have a unique waveform signature based on the relative amplitude of the four channels and/or the broadening of one or more of the channels. Performance Testing: All detector systems are tested before and after each survey location to verify proper system response to known reference values. Records of these performance tests are kept with the project and system operating logs. UVOST® is a registered trademark of Dakota Technologies, Inc.

Camp Hero State Park, Formerly Used Defense Site

COLUMBIA TECHNOLOGIES



LIF Logs, Collective Scale

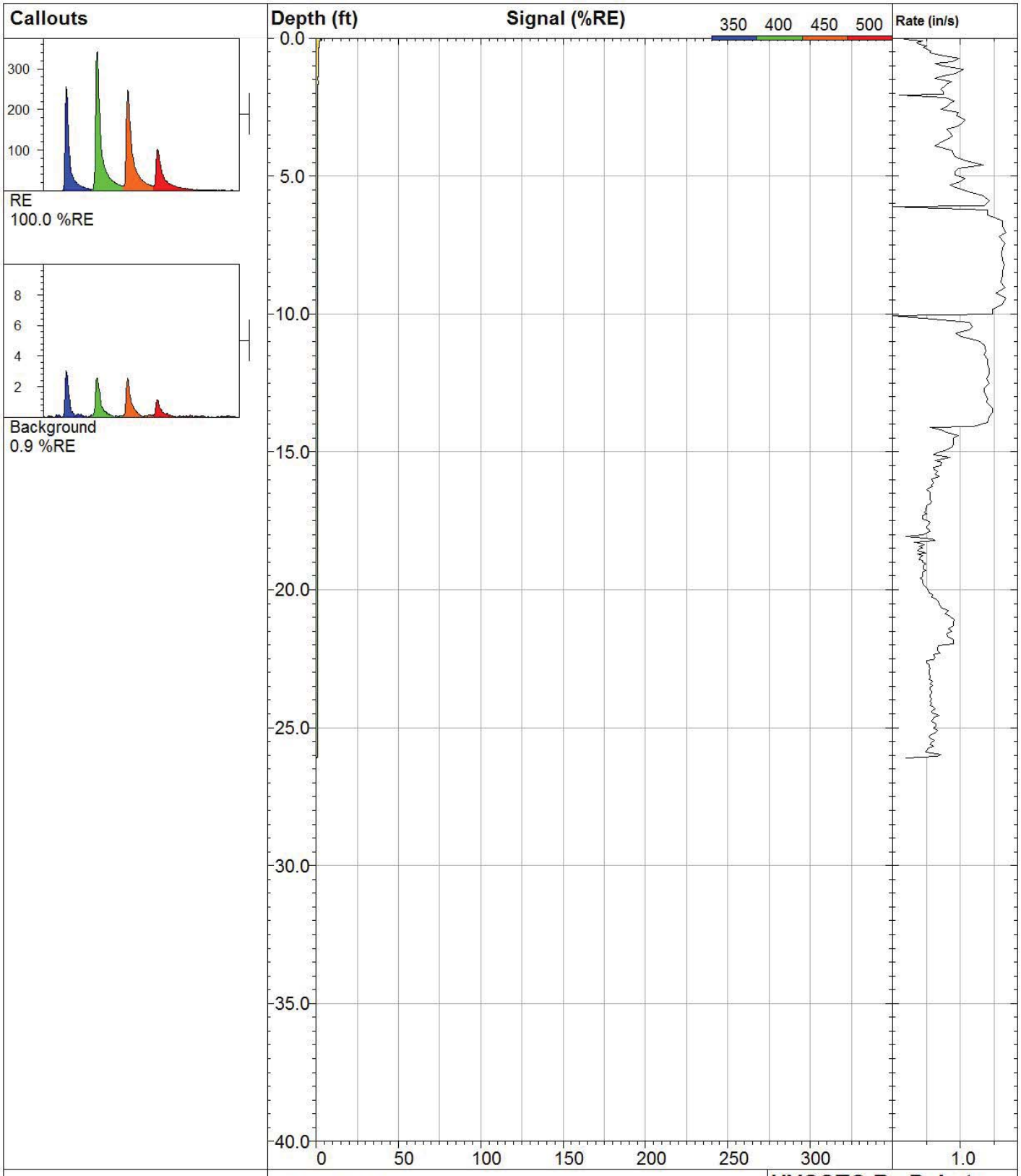


203A

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.41 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **185.6 %RE @ 21.31 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 15:07 EST**

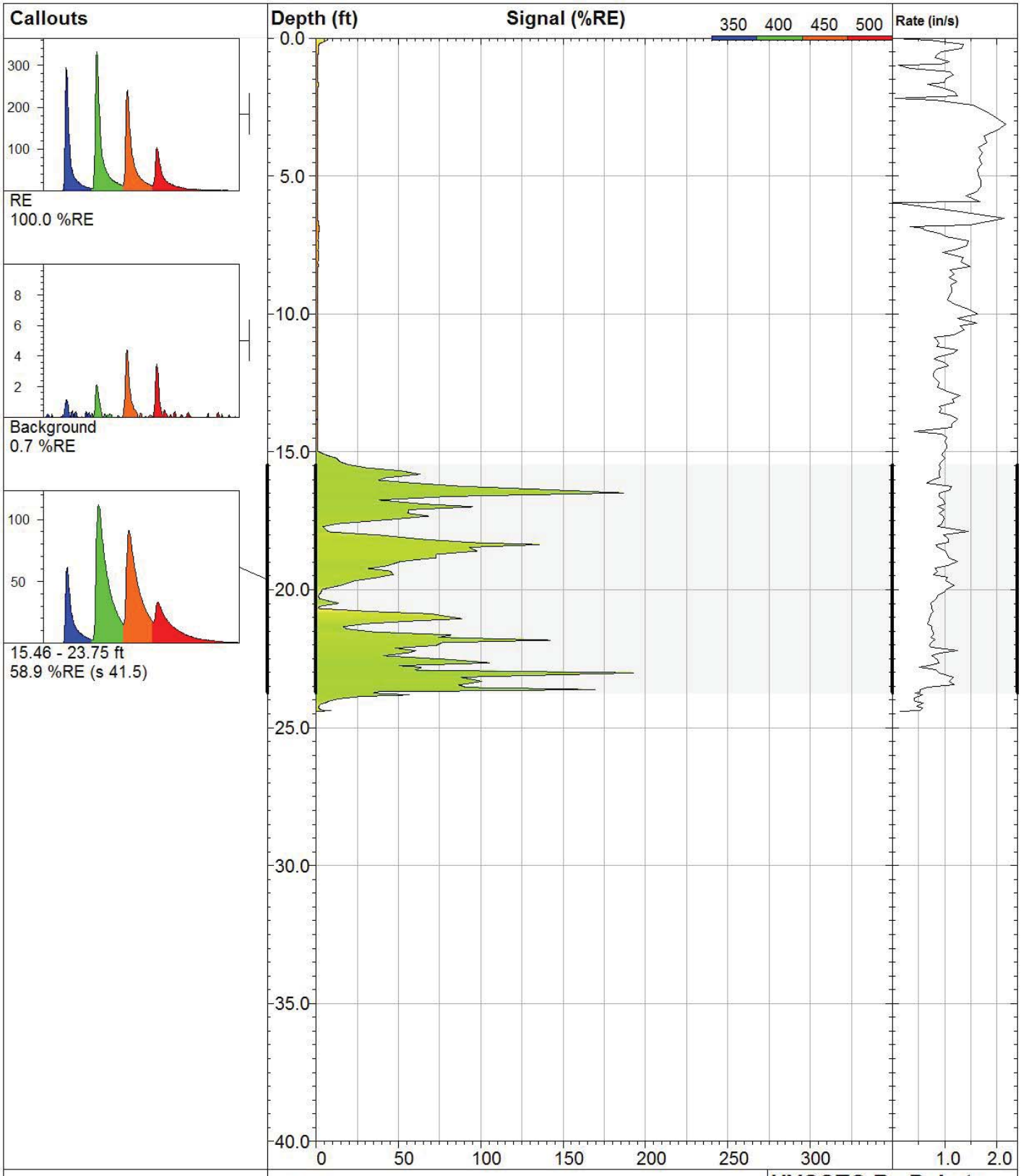


203AAA

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.10 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.7 %RE @ 0.06 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-04 08:30 EST**

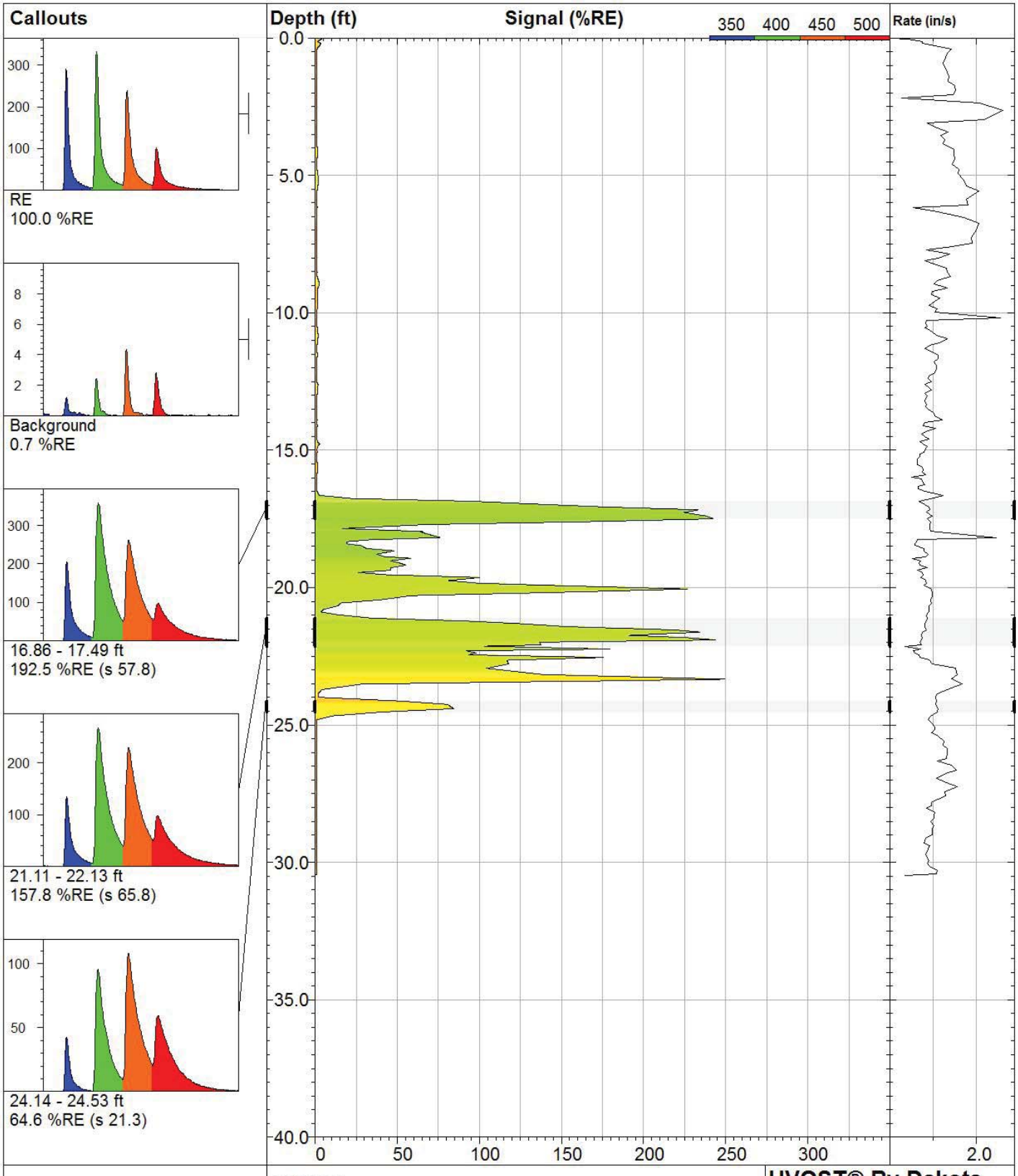


203B

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.41 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **194.7 %RE @ 23.01 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 13:09 EST**

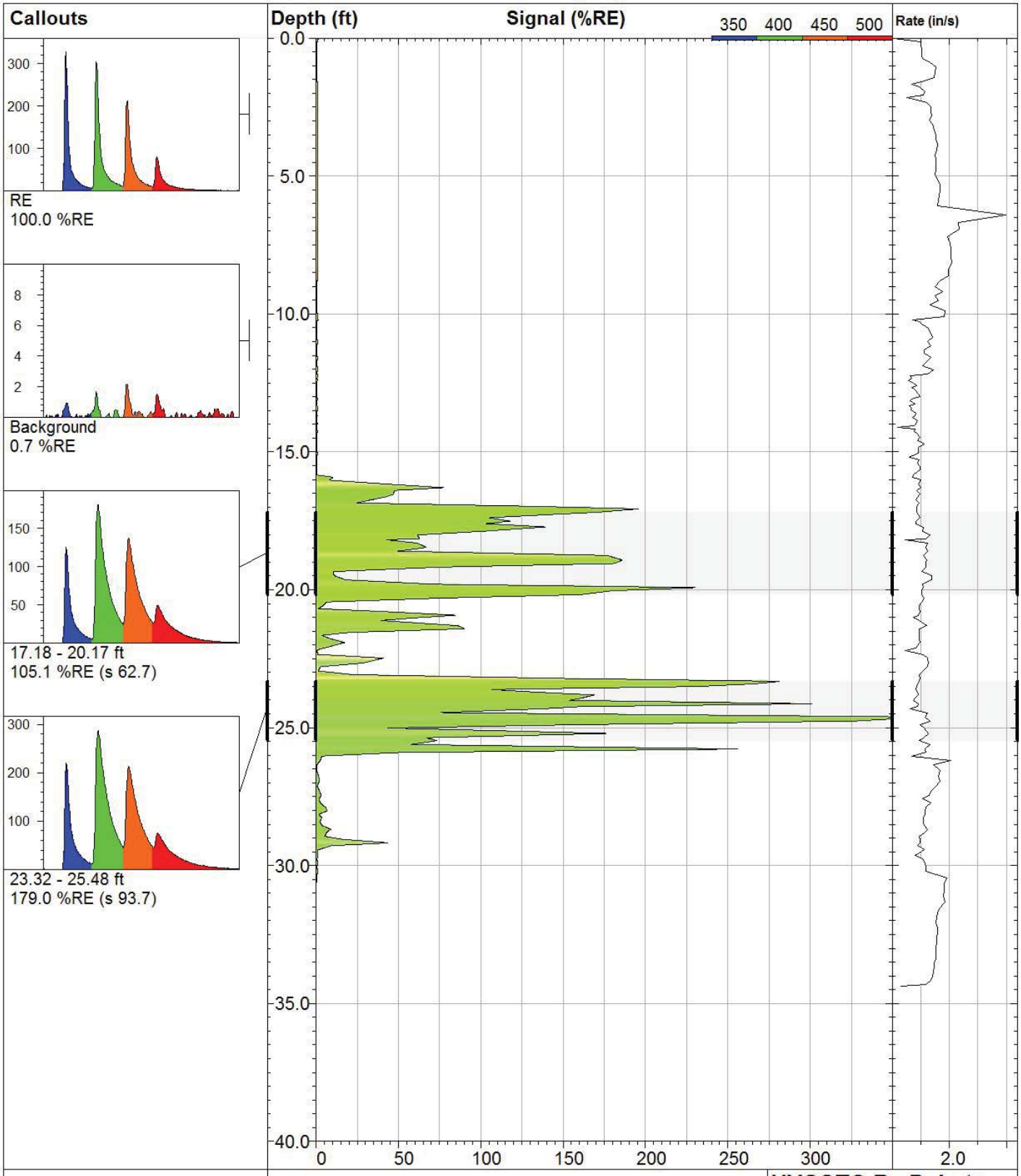


203C

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.46 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **249.7 %RE @ 23.33 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 14:28 EST**

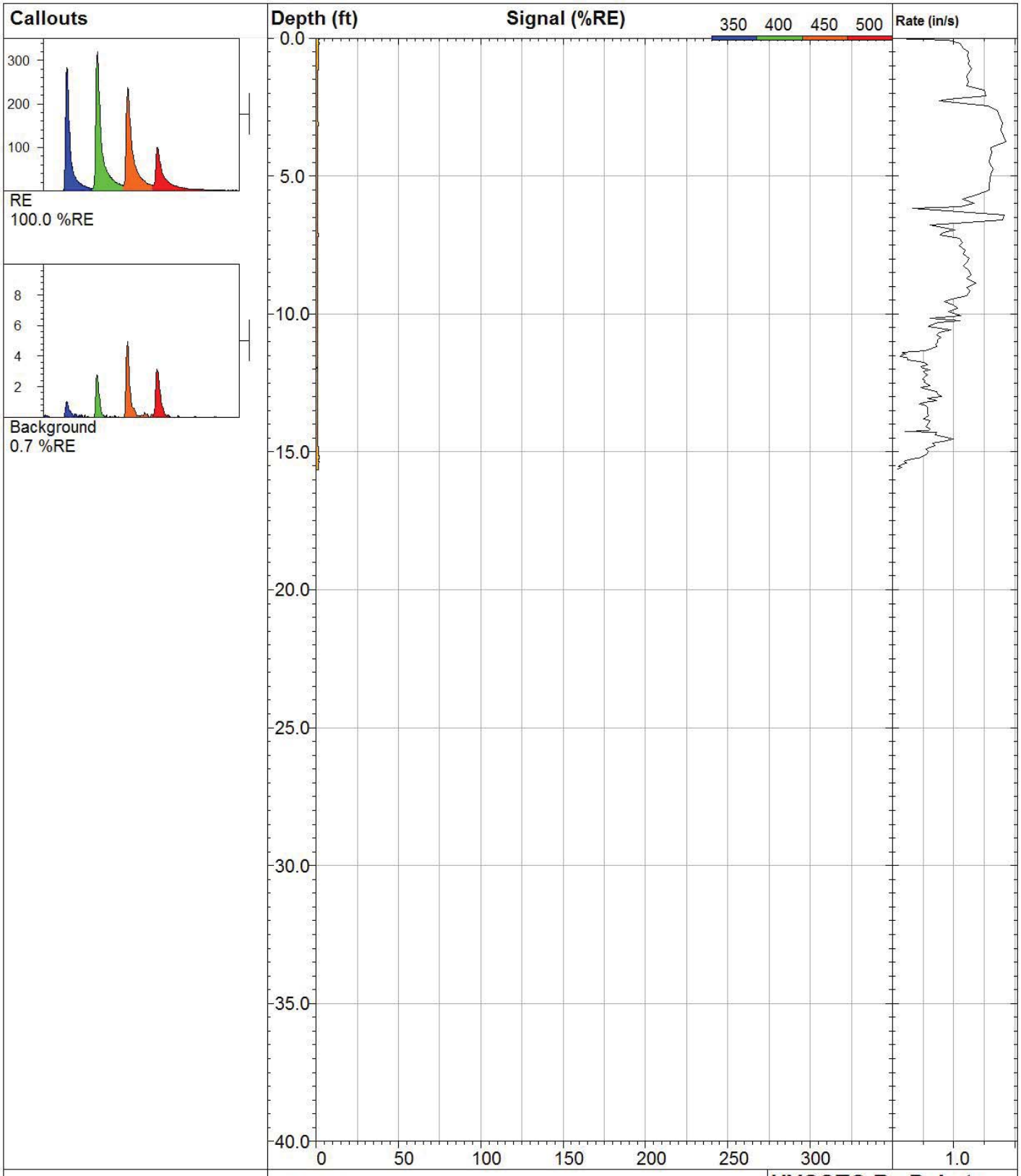


203CC

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **34.38 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **369.8 %RE @ 24.62 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 11:50 EST**

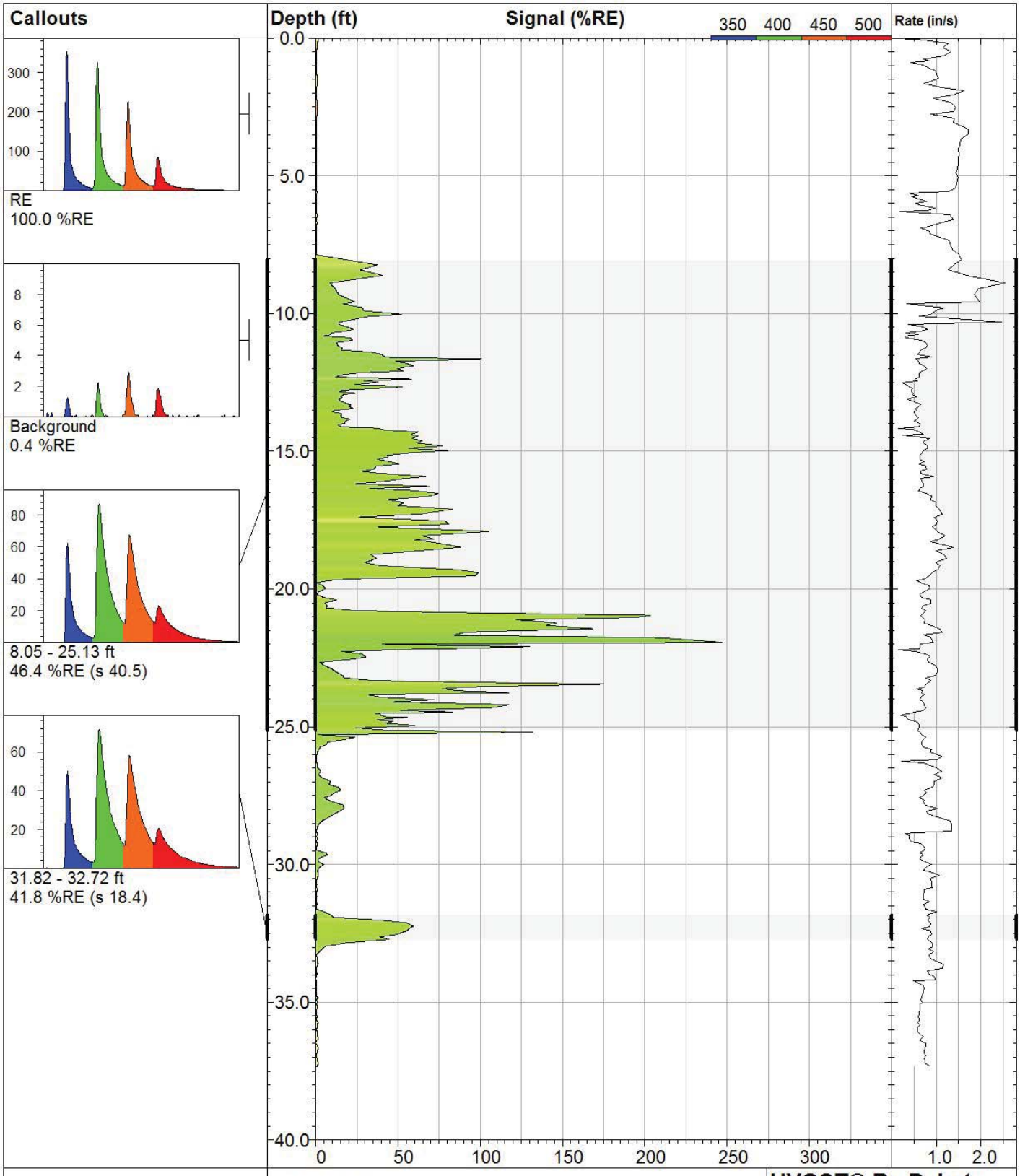


203D

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.66 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.0 %RE @ 0.00 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 09:14 EST**

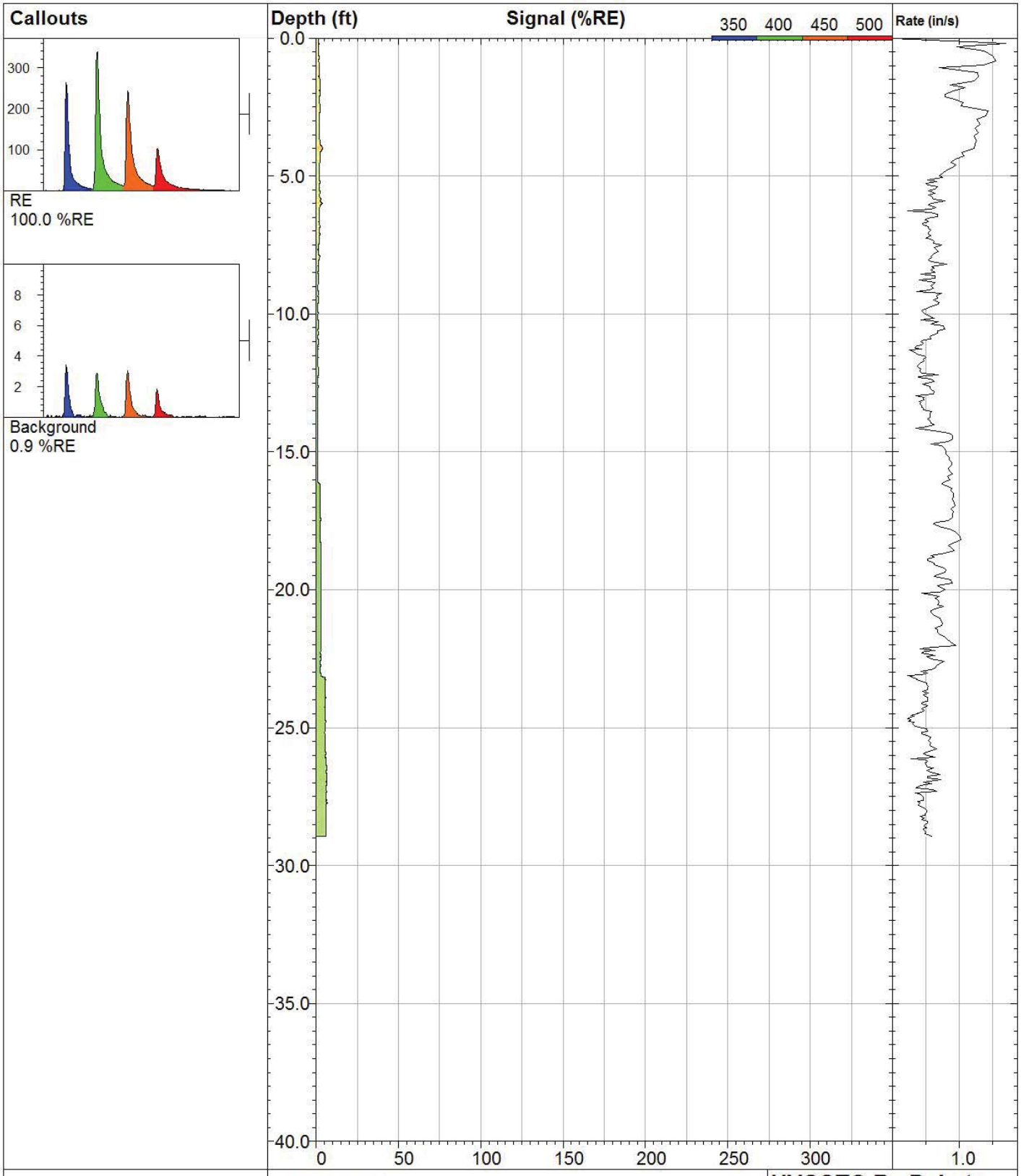


203DD

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **37.34 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **247.1 %RE @ 21.93 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 13:13 EST**

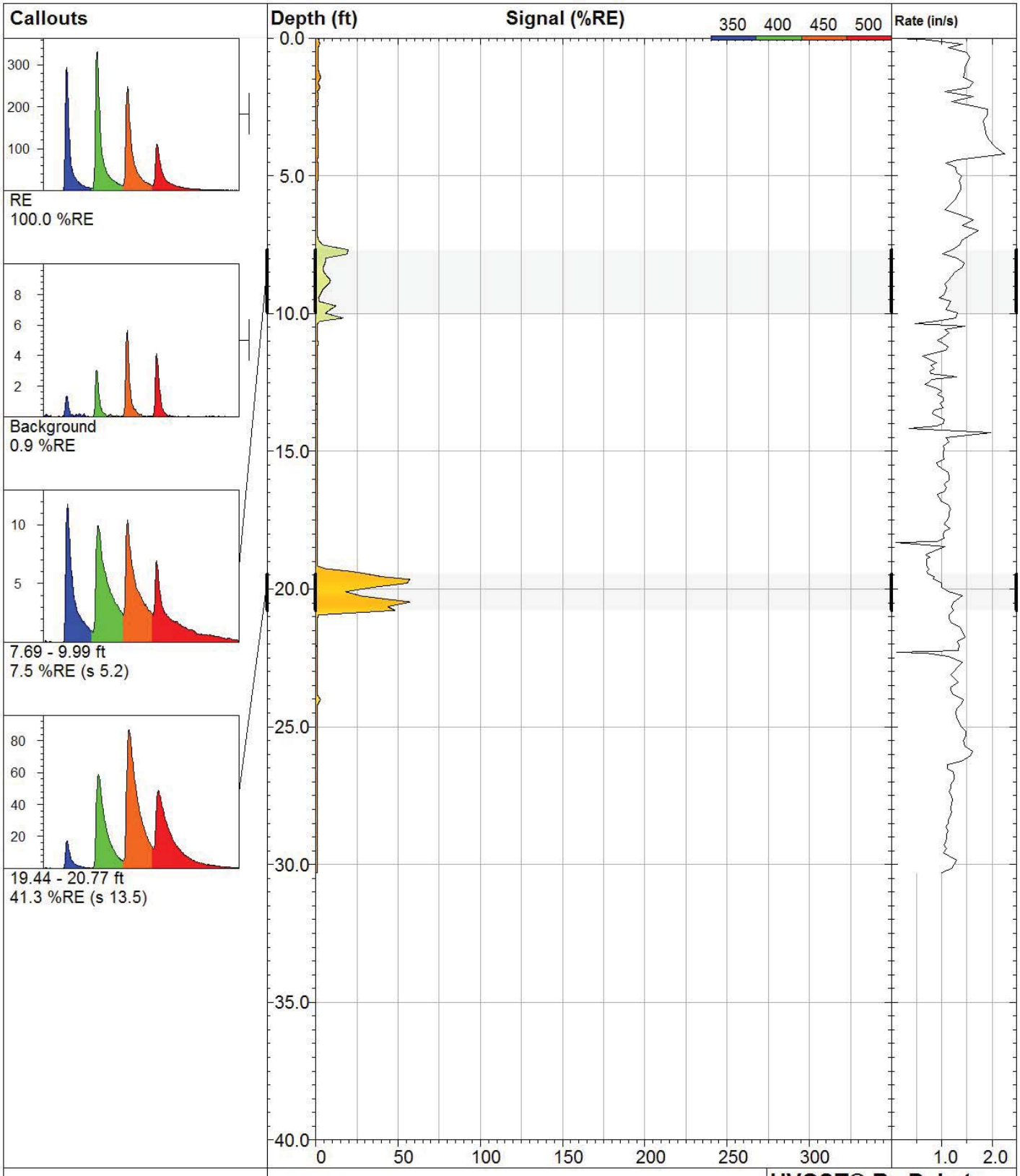


203DDD

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **28.95 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.9 %RE @ 27.74 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-04 10:49 EST**

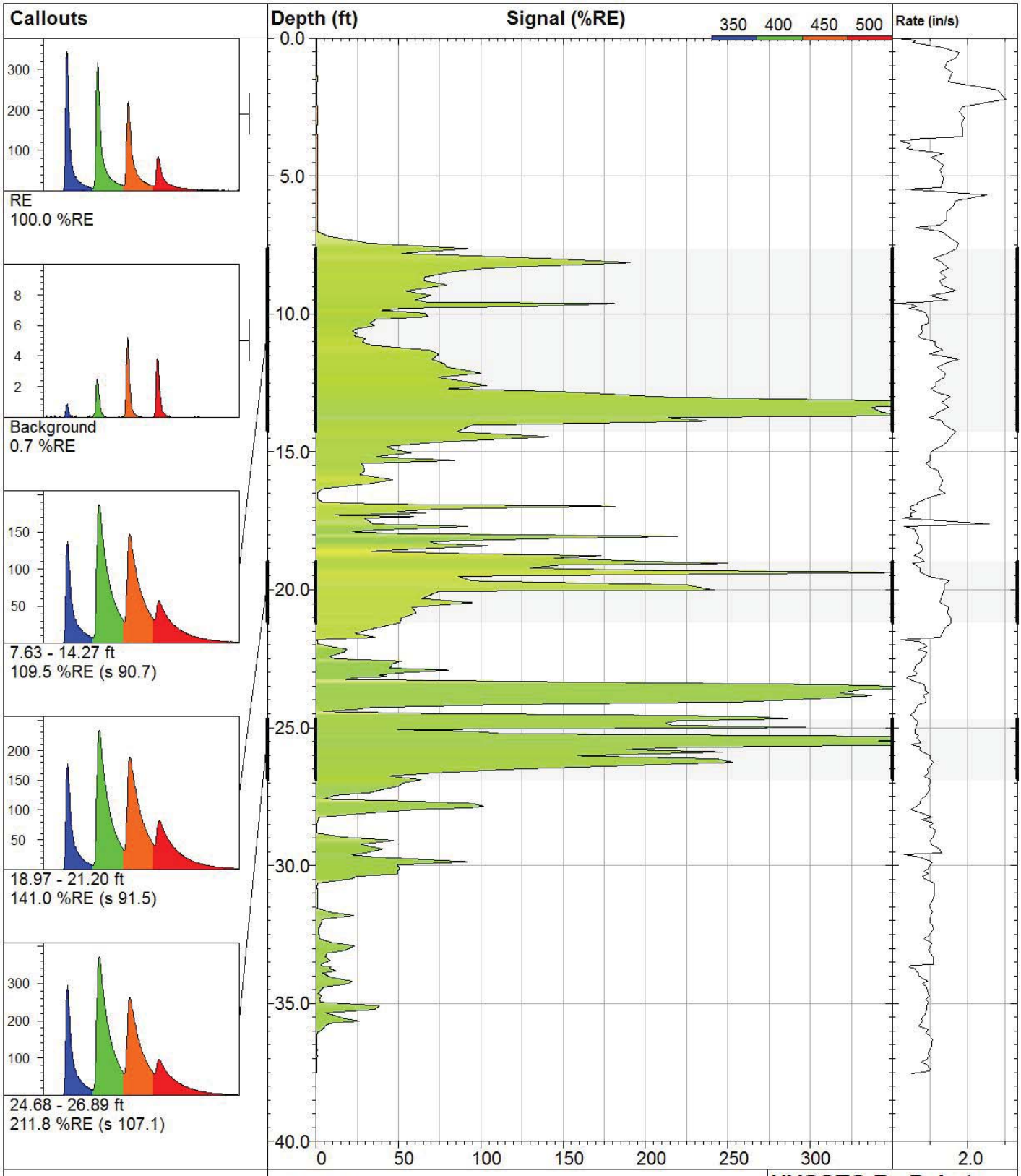


203E

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.30 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **57.3 %RE @ 20.47 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 08:48 EST**

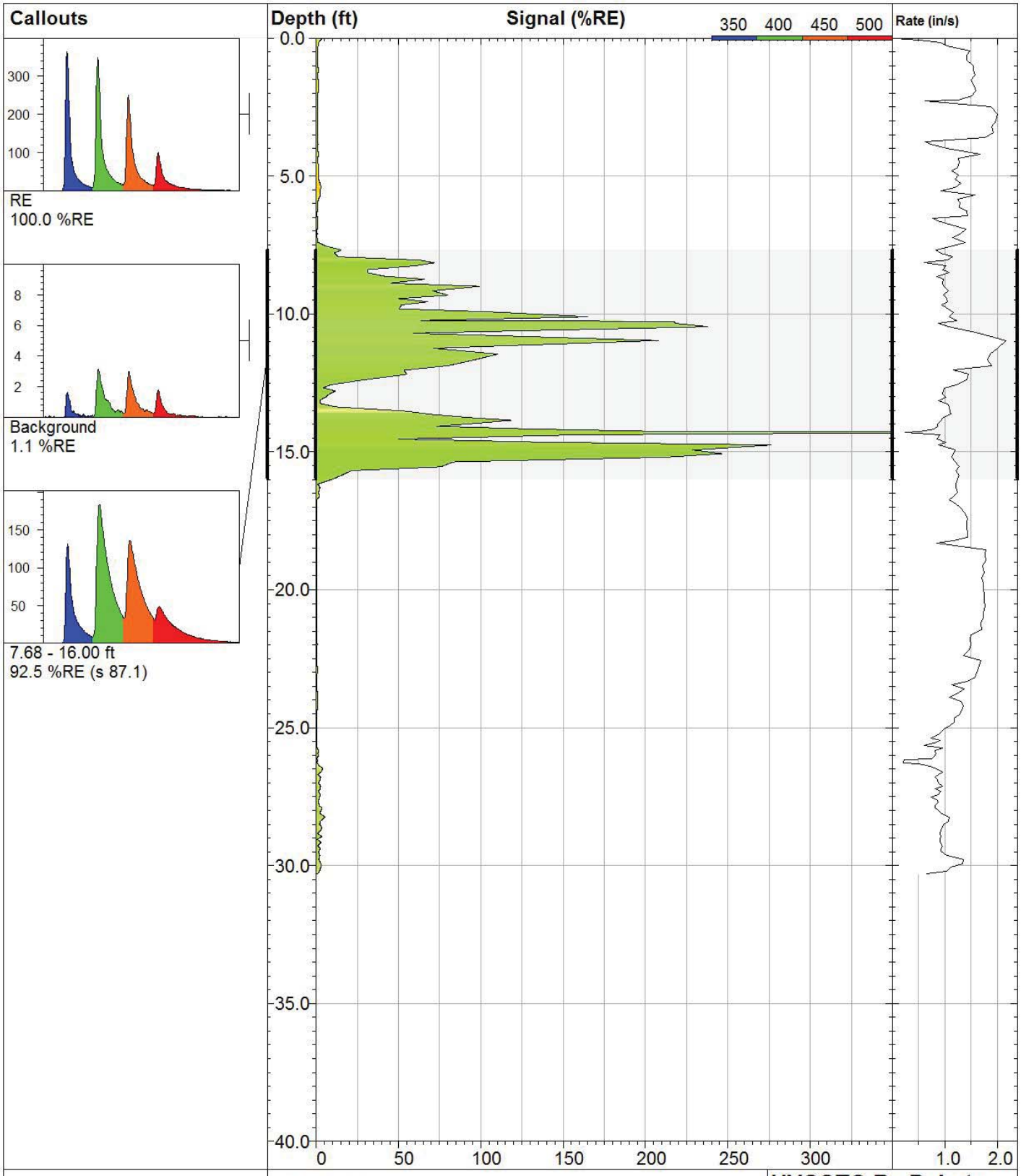


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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **37.53 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **419.0 %RE @ 25.37 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 13:58 EST**

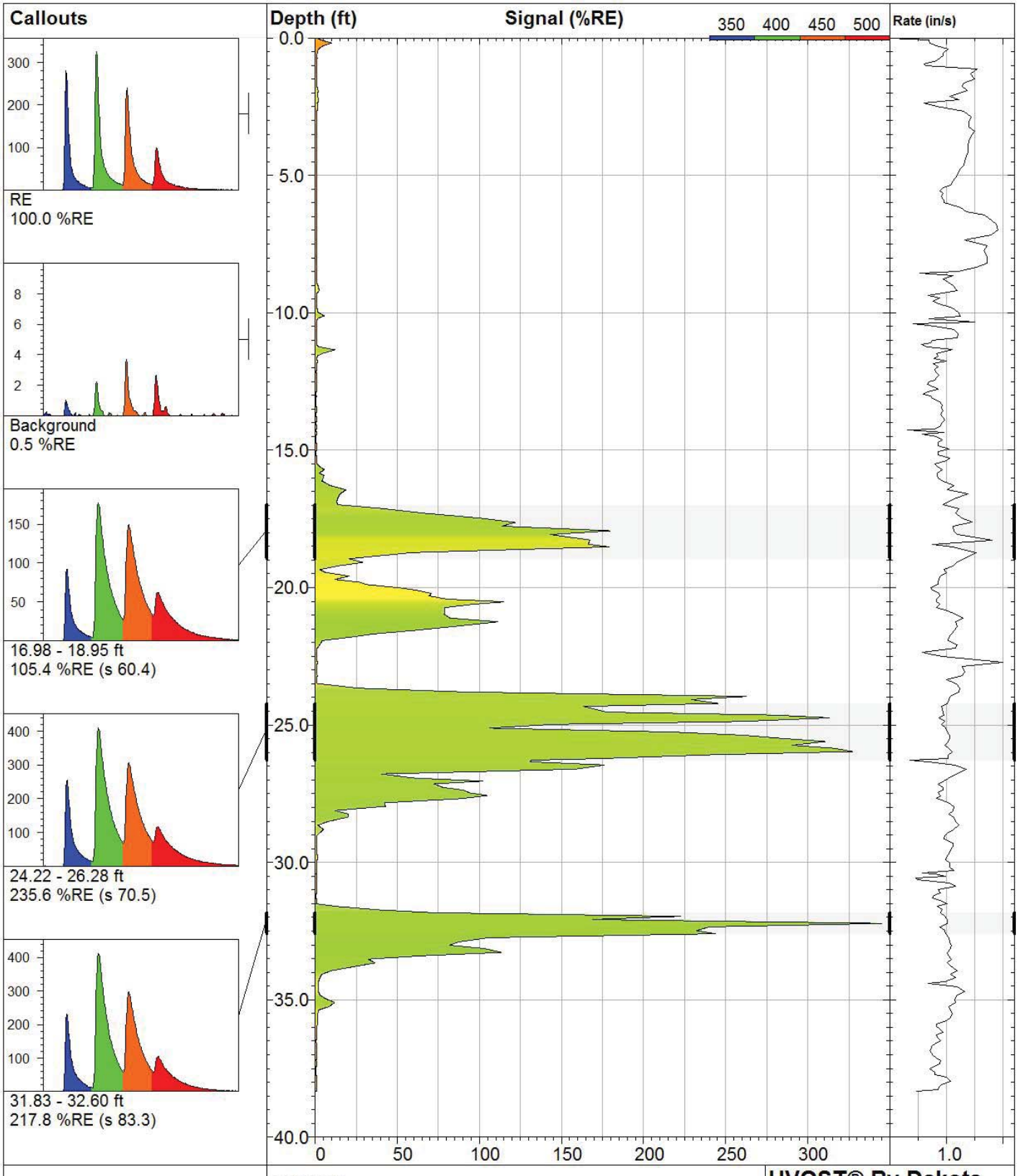


203FF

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.29 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **416.6 %RE @ 14.28 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 14:42 EST**

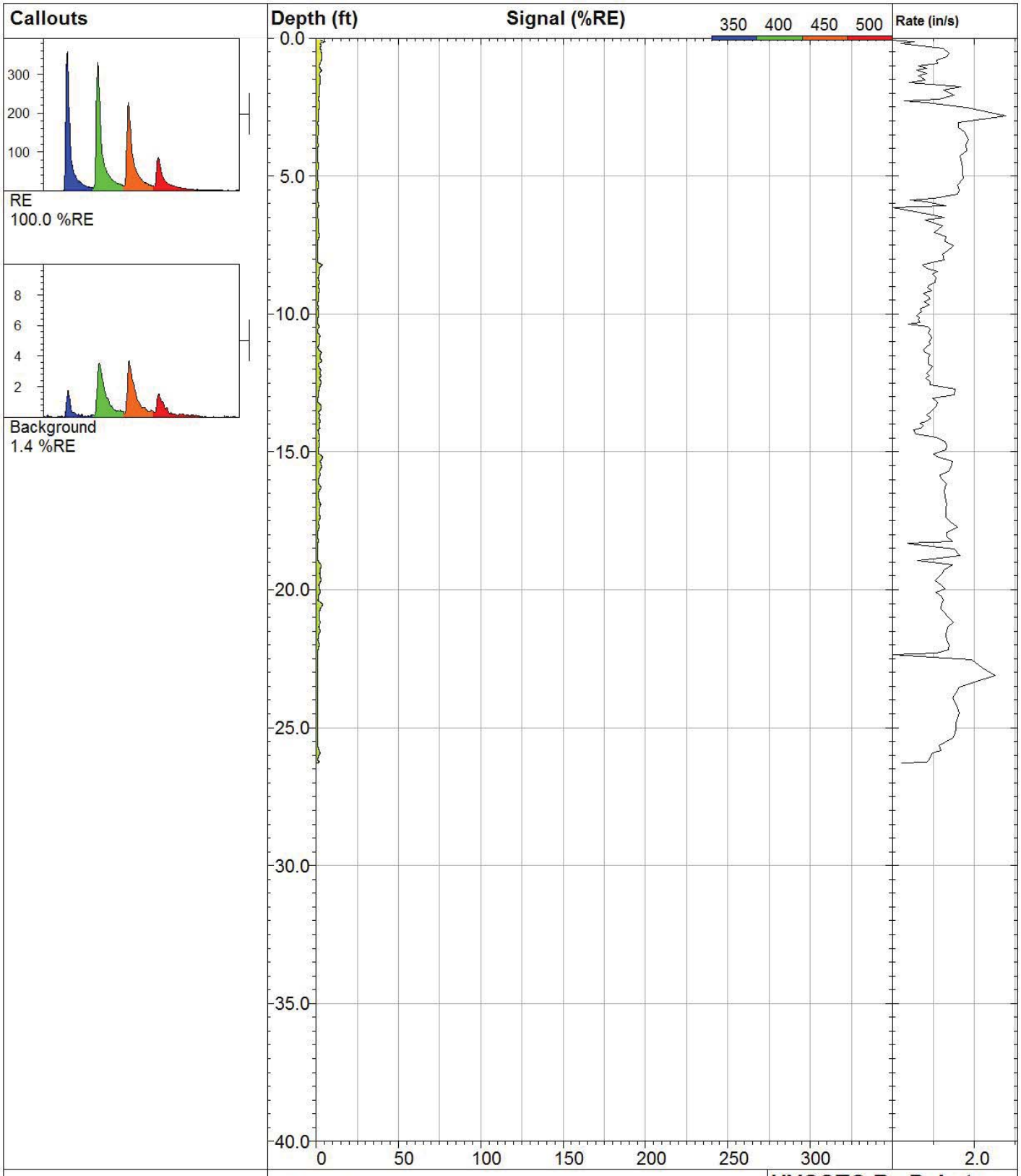


203G

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **38.33 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **345.9 %RE @ 32.22 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 13:37 EST**

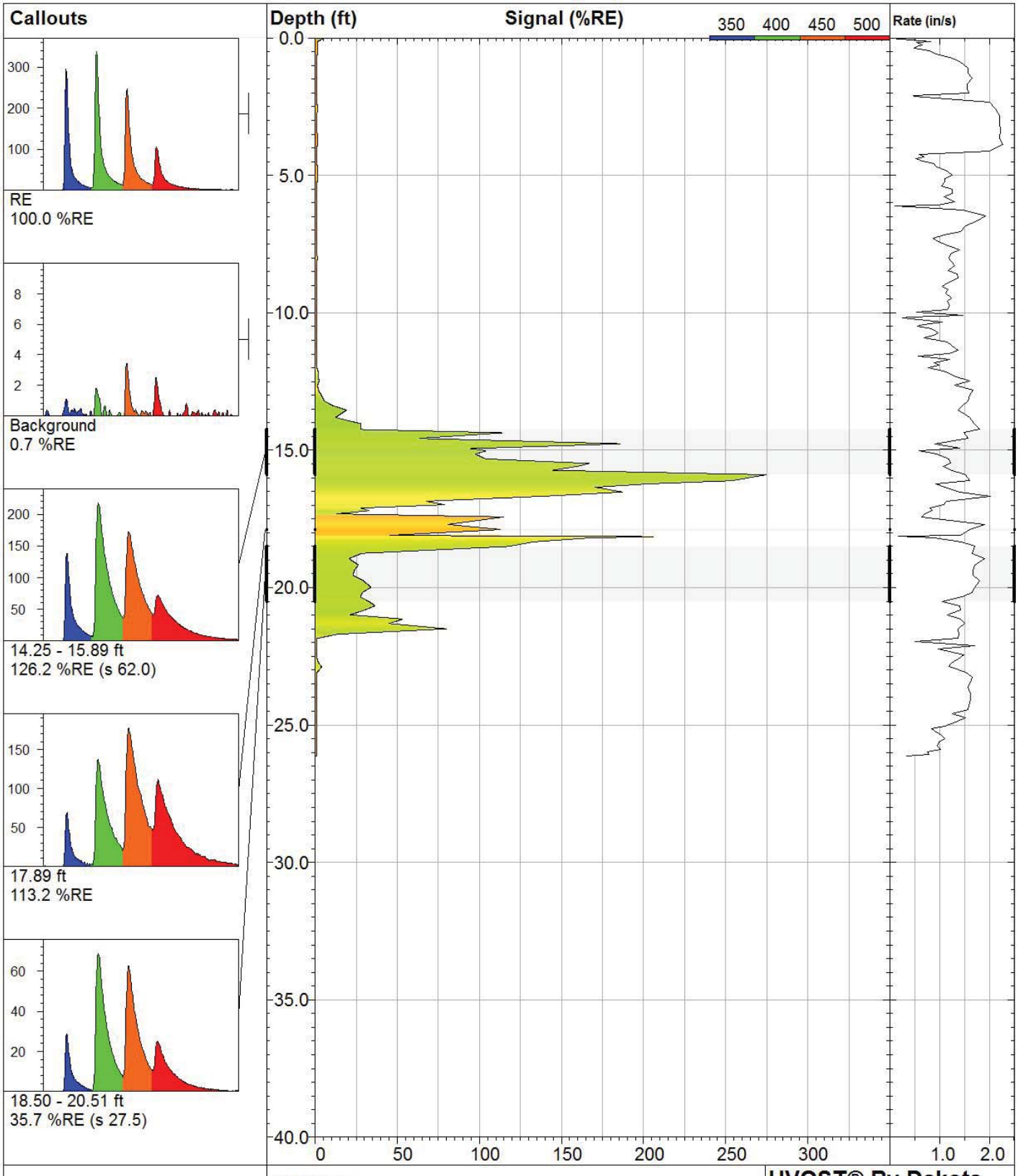


203GG

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.29 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.5 %RE @ 0.14 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 15:14 EST**

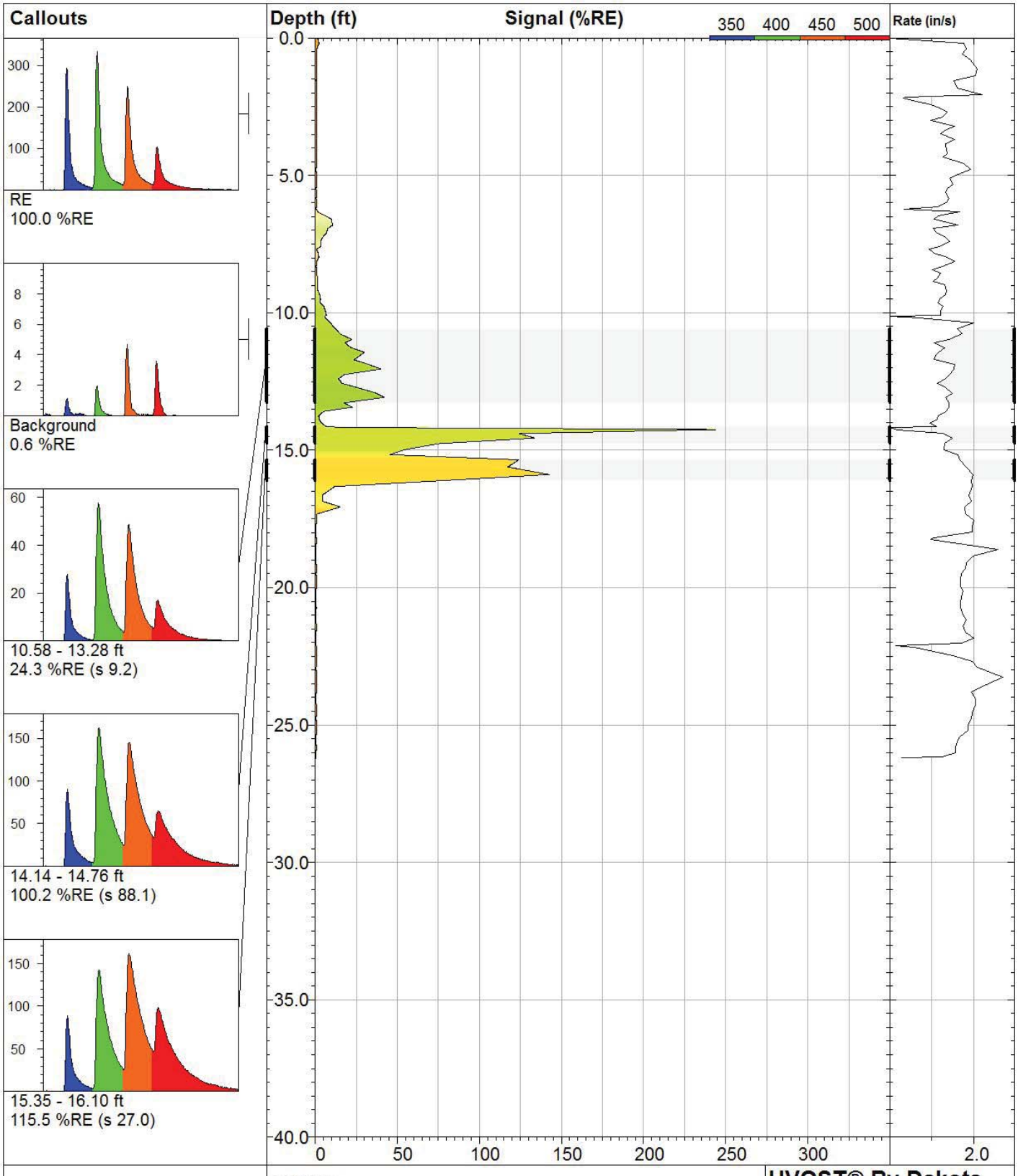


203H

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.12 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **274.8 %RE @ 15.89 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 12:45 EST**

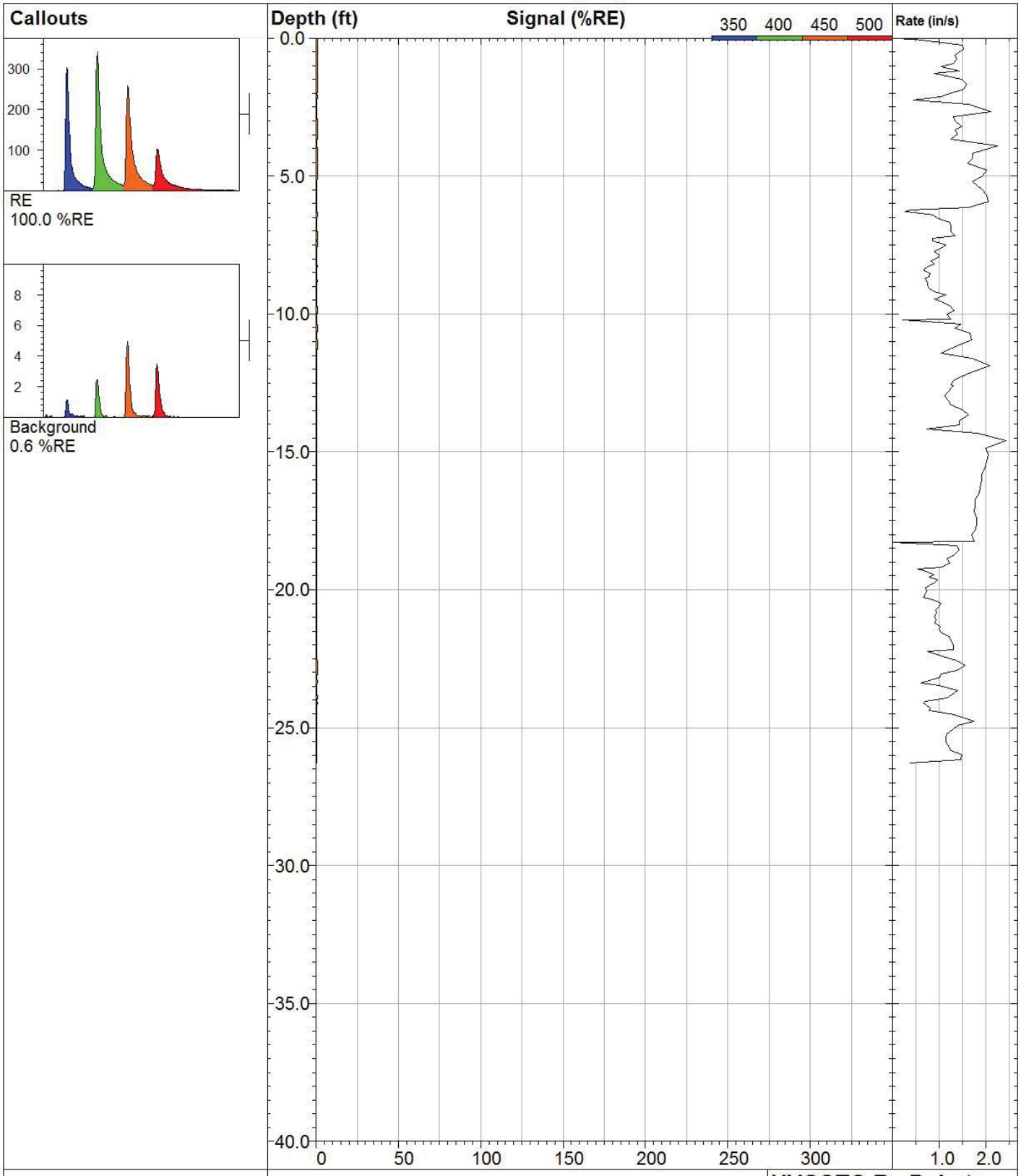


COLUMBIA TECHNOLOGIES

203I

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.22 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **244.5 %RE @ 14.25 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 15:32 EST**

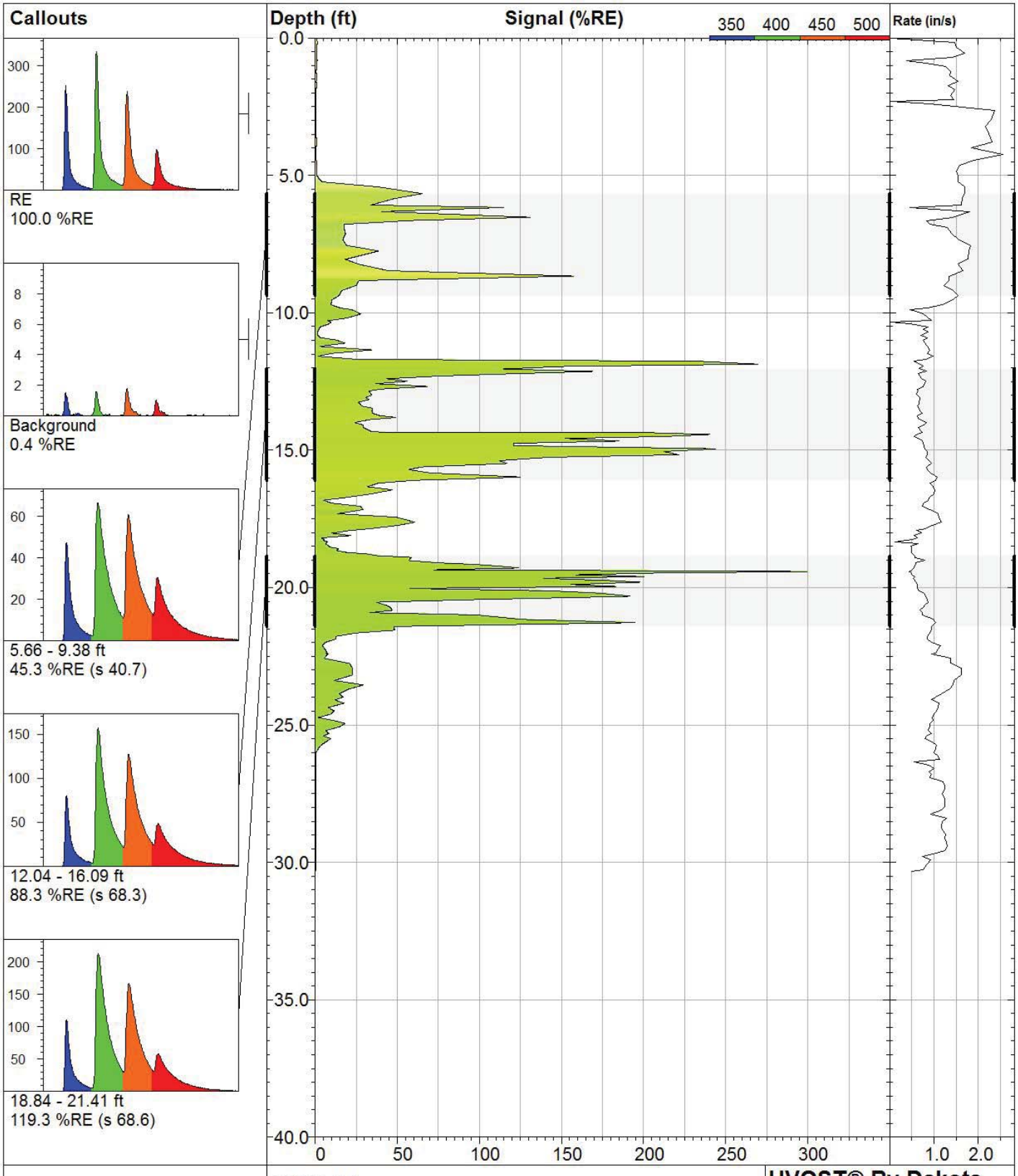


COLUMBIA TECHNOLOGIES

203J

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.28 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **1.2 %RE @ 0.24 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 14:58 EST**

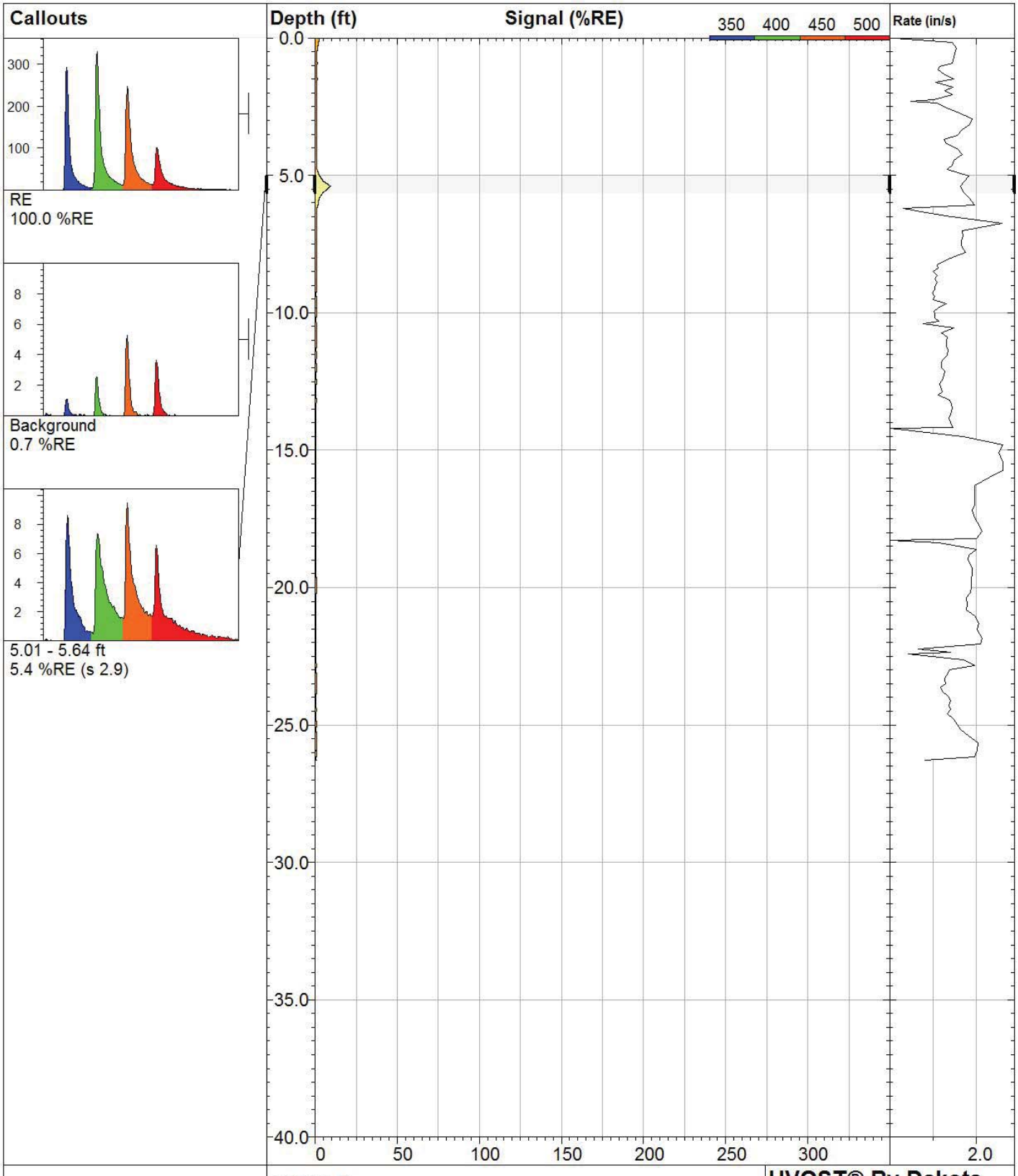


203JJ

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.31 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **305.7 %RE @ 19.41 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 15:05 EST**

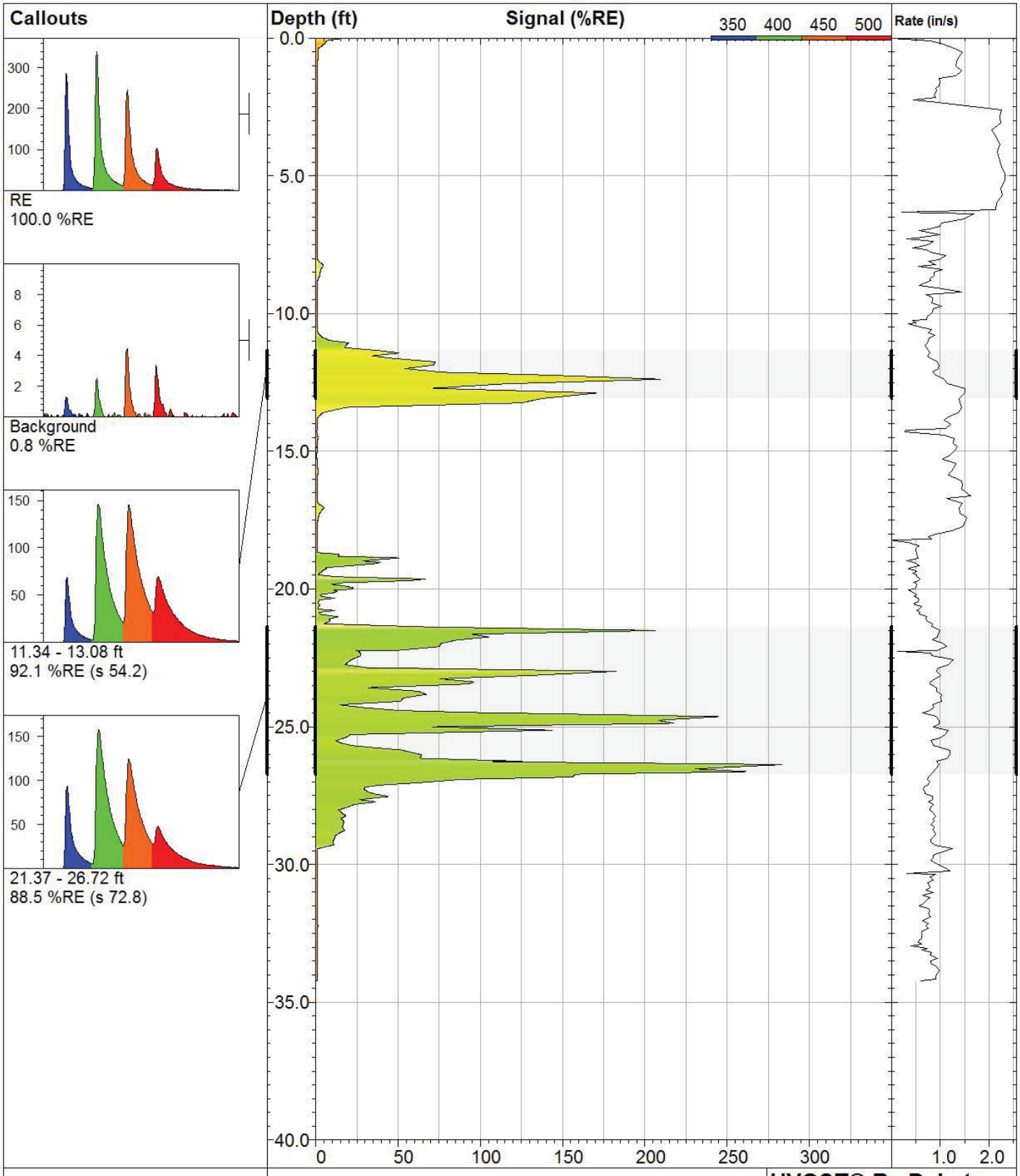


203K

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.29 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.4 %RE @ 5.40 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 14:22 EST**

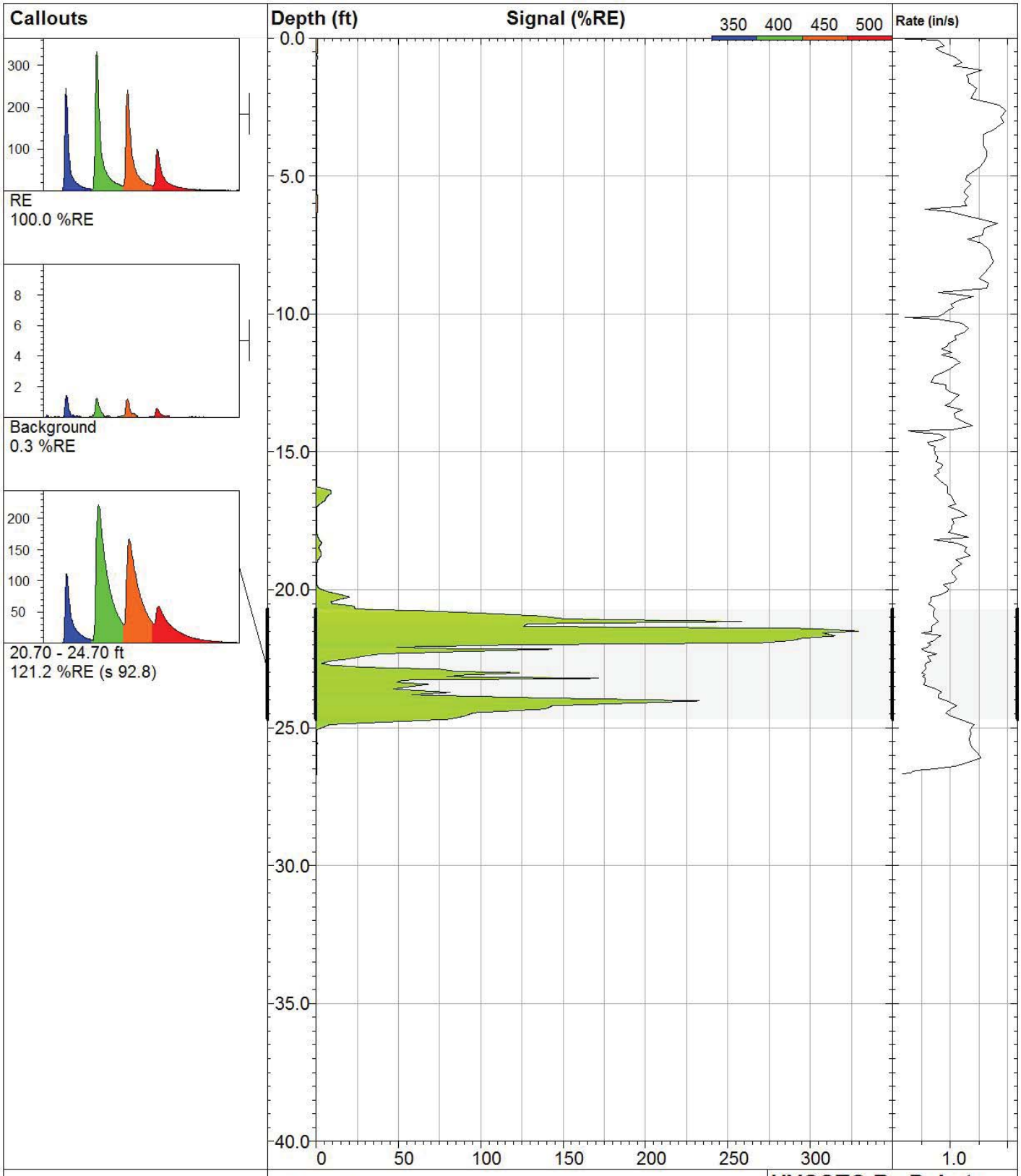


203L

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **34.23 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **284.4 %RE @ 26.37 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 11:06 EST**

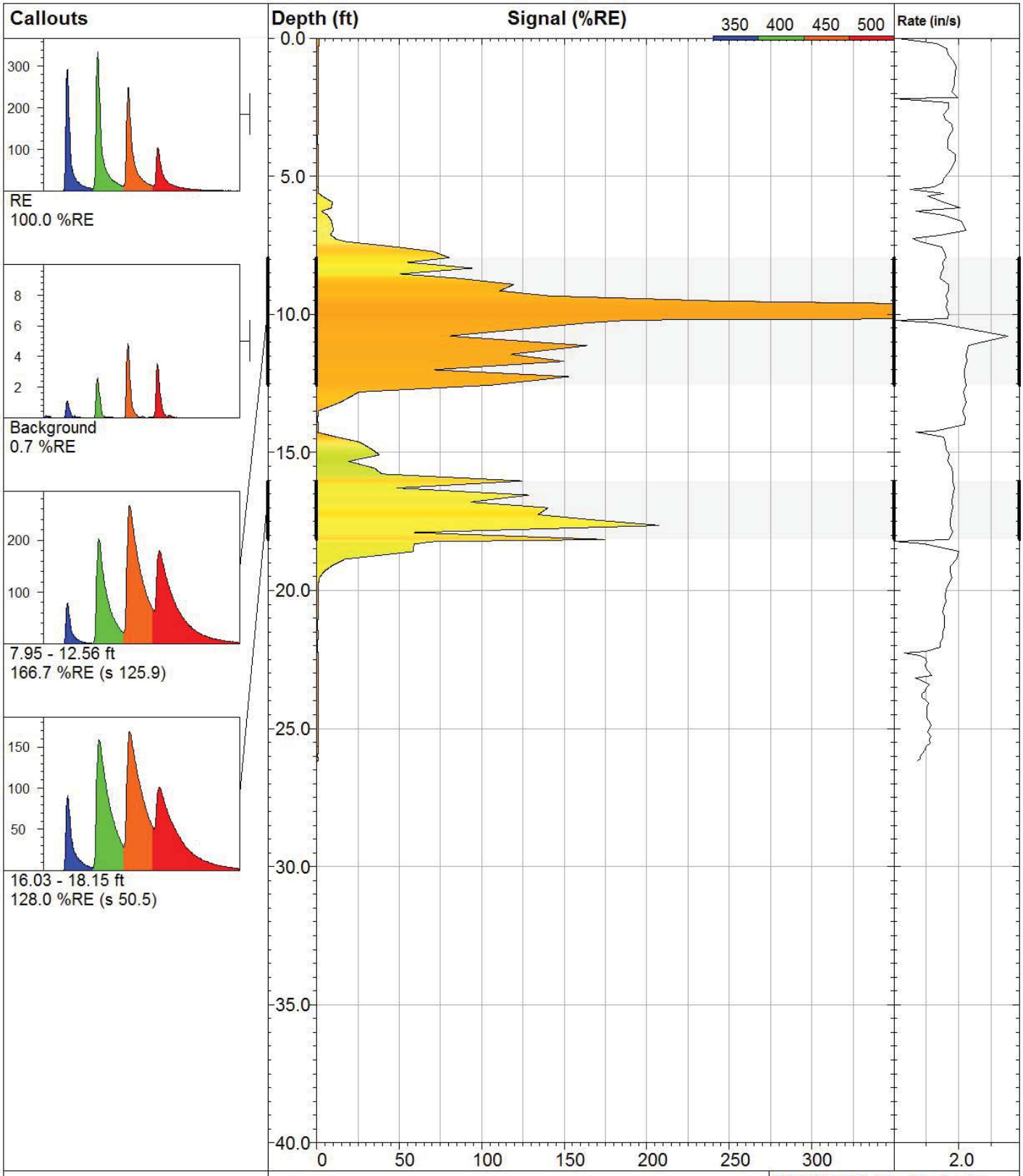


203LL

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.71 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **329.7 %RE @ 21.50 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 11:42 EST**

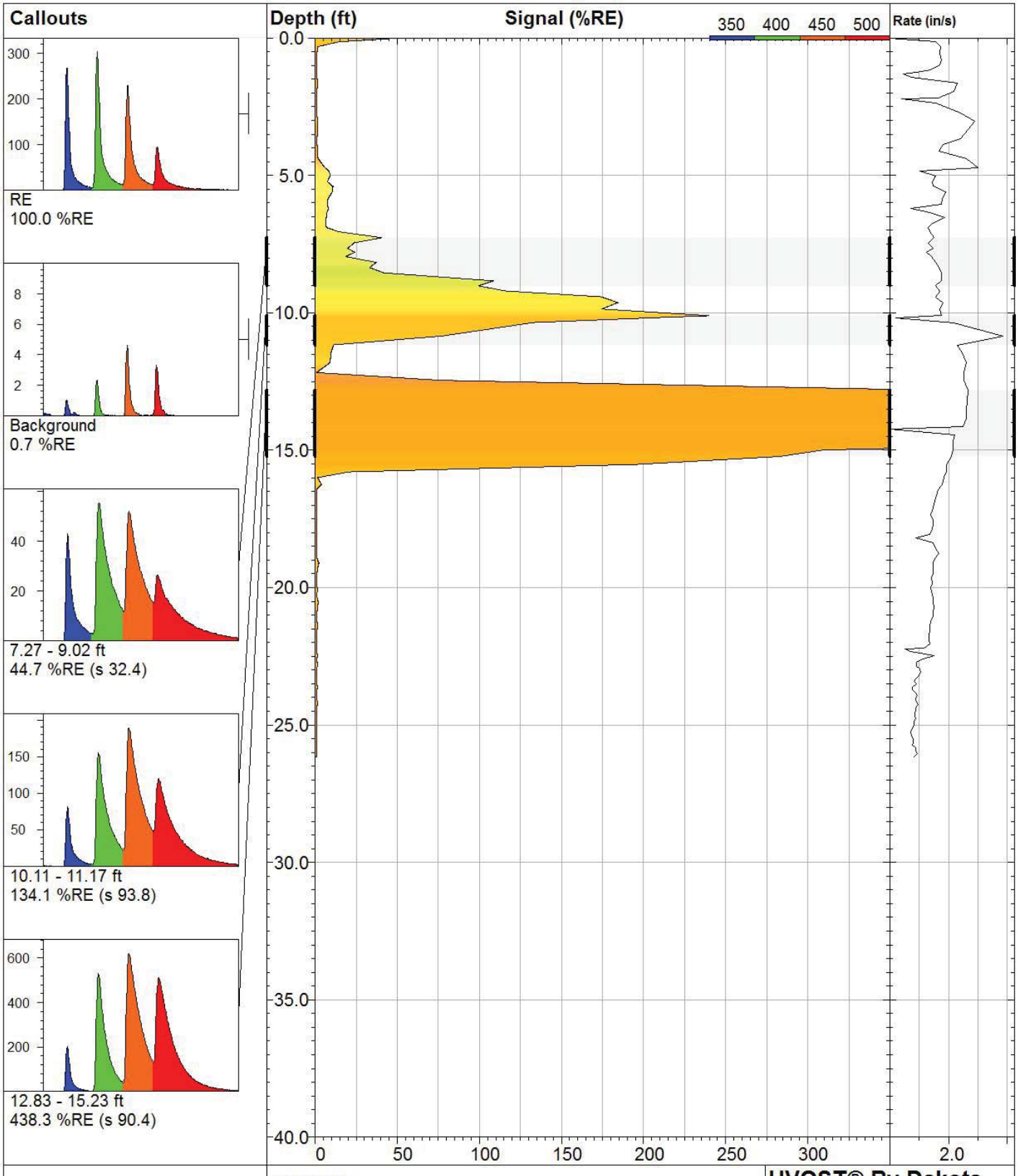


203M

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.19 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **505.8 %RE @ 9.74 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 10:57 EST**

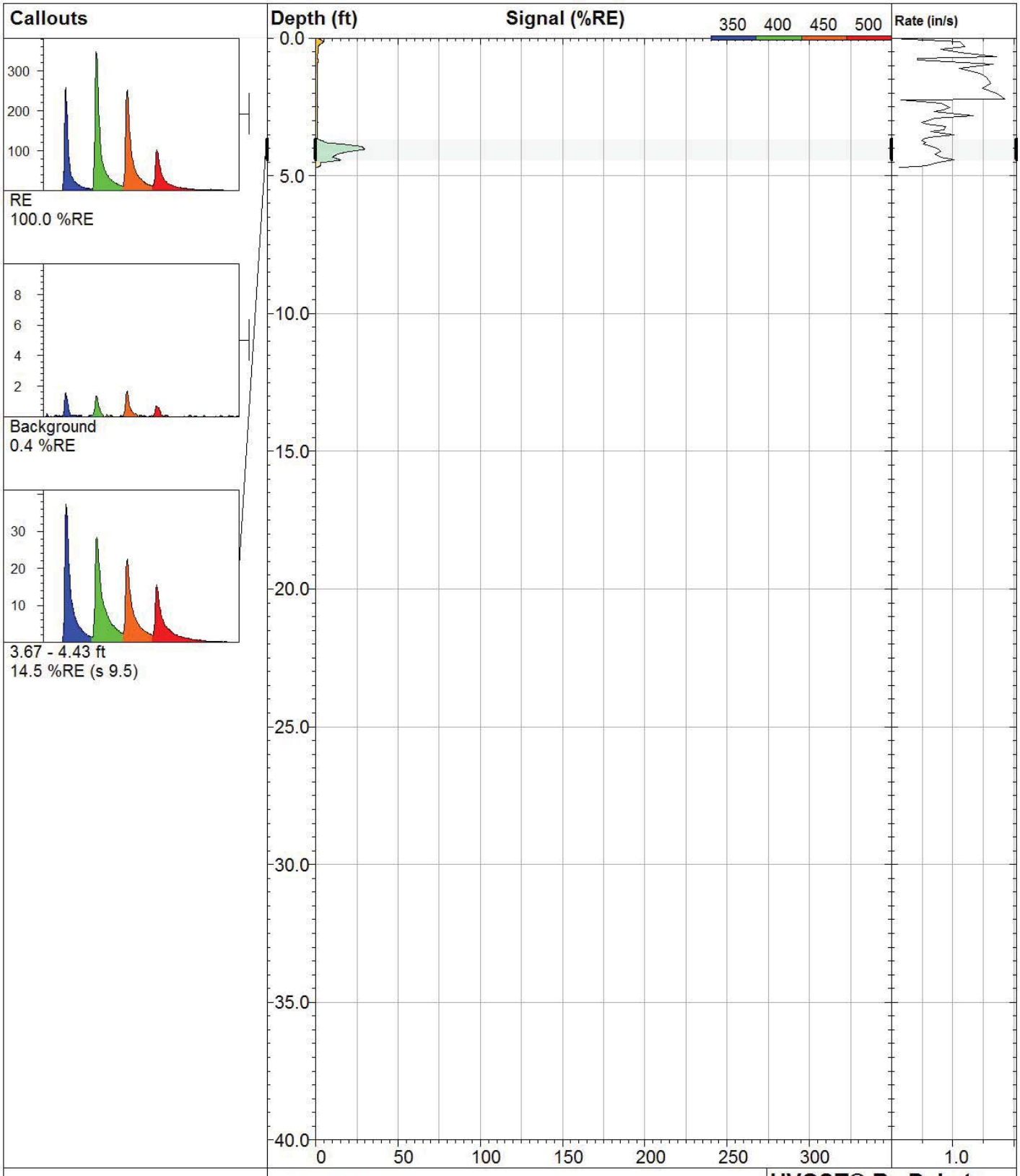


203N

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.17 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **549.2 %RE @ 14.23 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 11:33 EST**

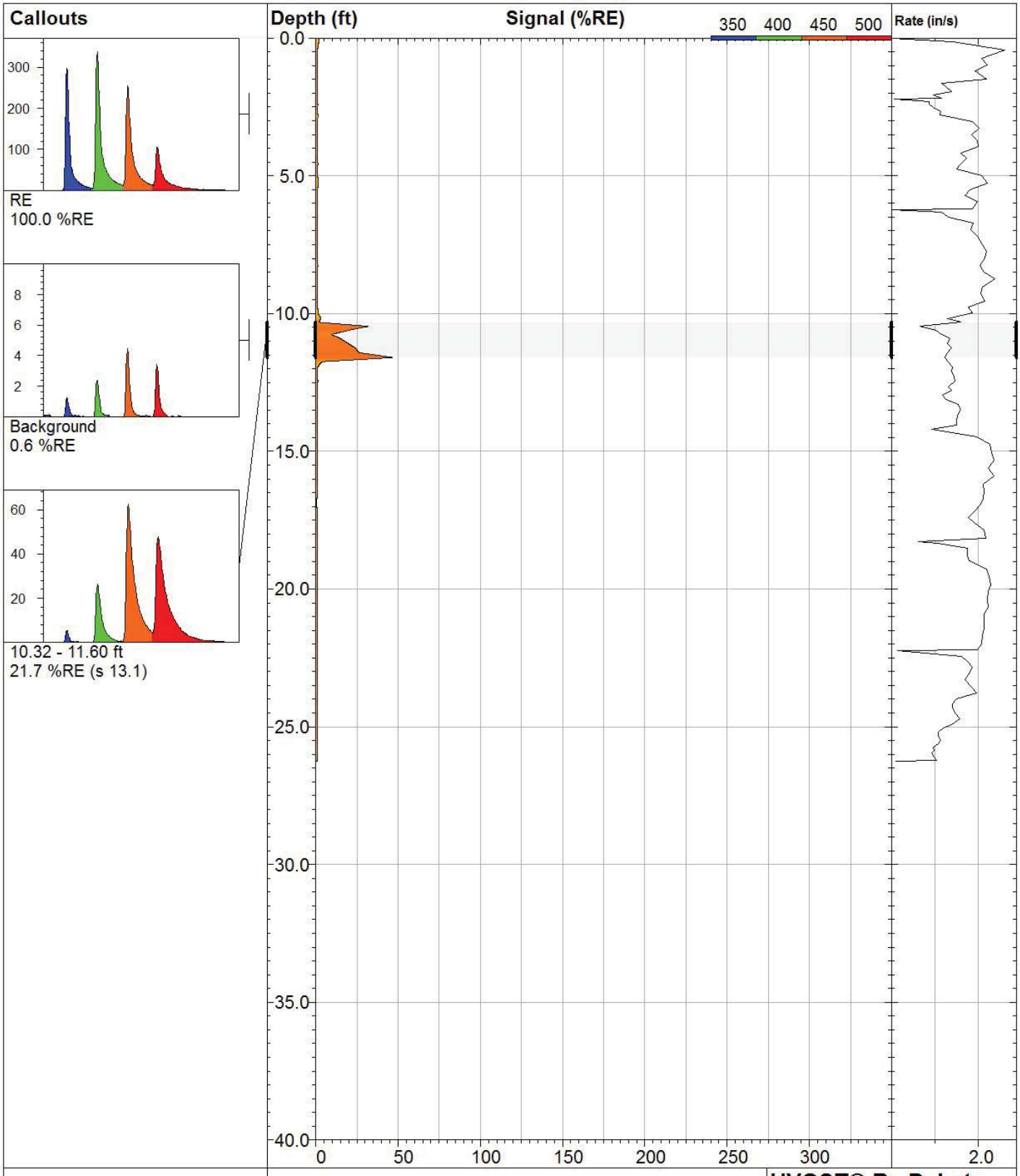


203NN

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.70 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **29.8 %RE @ 4.04 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 12:56 EST**

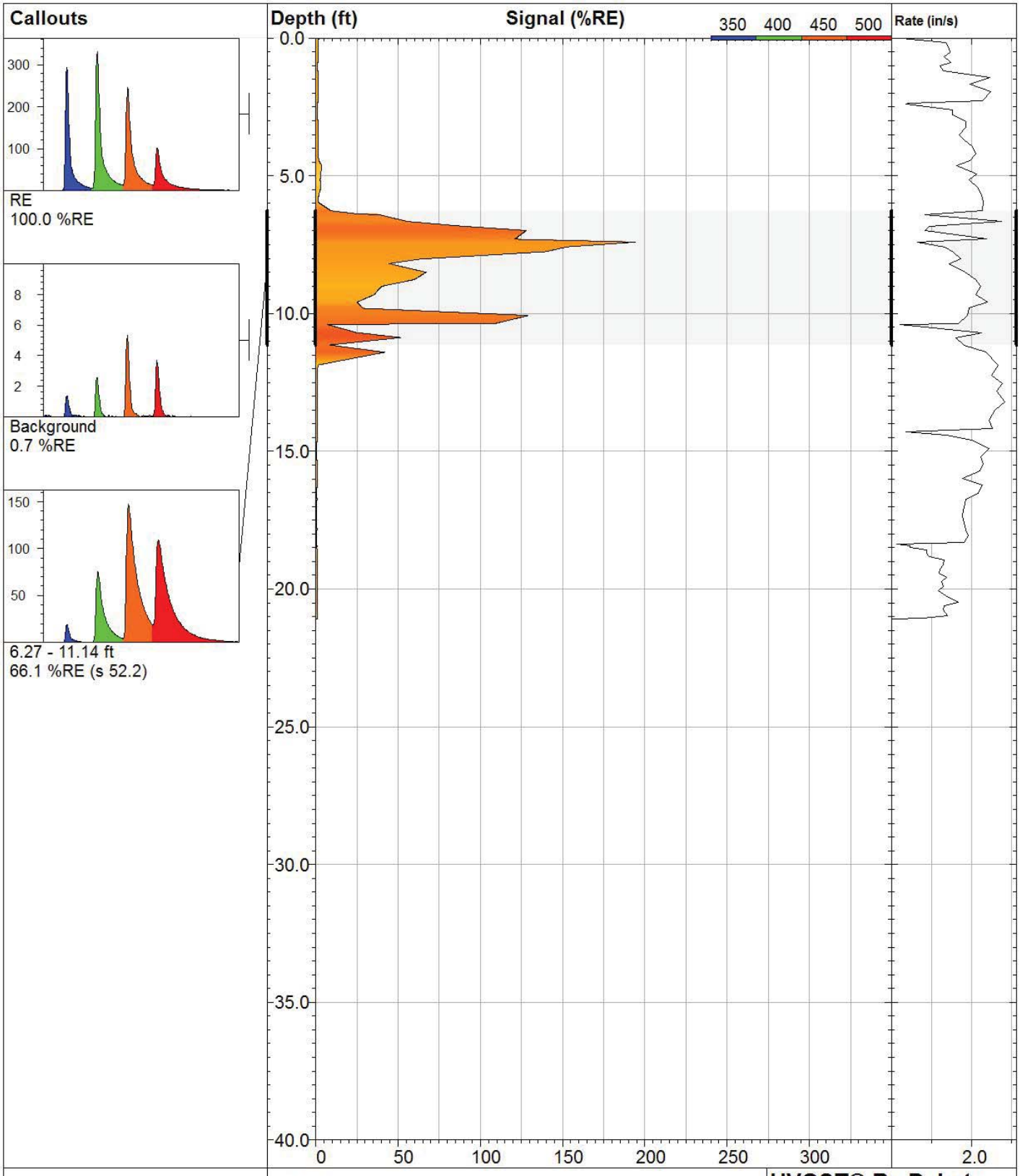


COLUMBIA TECHNOLOGIES

203O

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.27 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **46.8 %RE @ 11.60 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 10:40 EST**

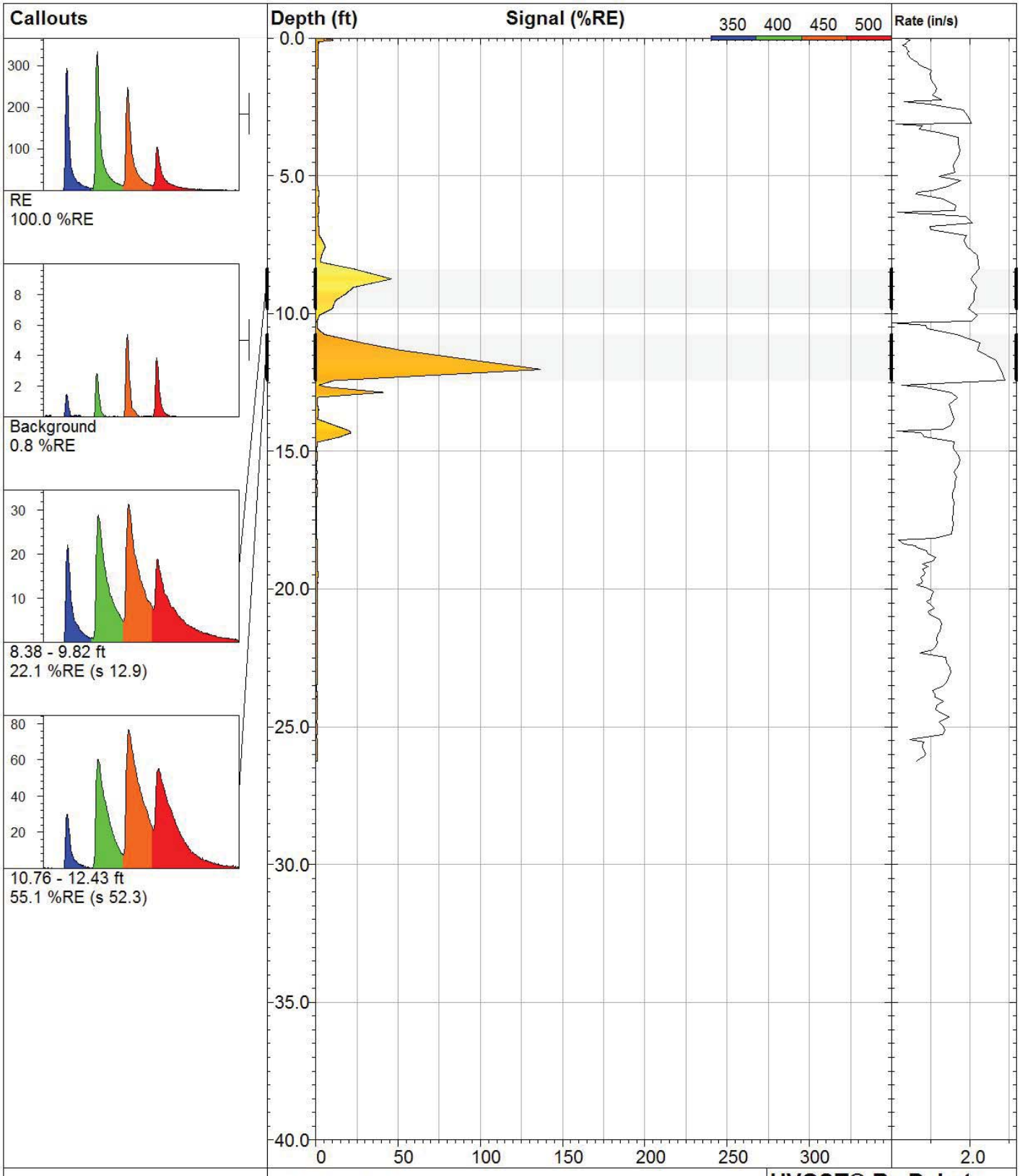


203P

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **21.09 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **194.4 %RE @ 7.40 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 10:25 EST**



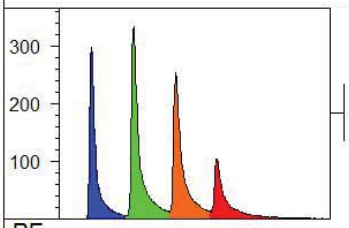
203PZ03

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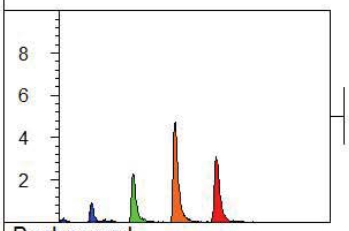
COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.24 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **137.1 %RE @ 12.03 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 09:44 EST**

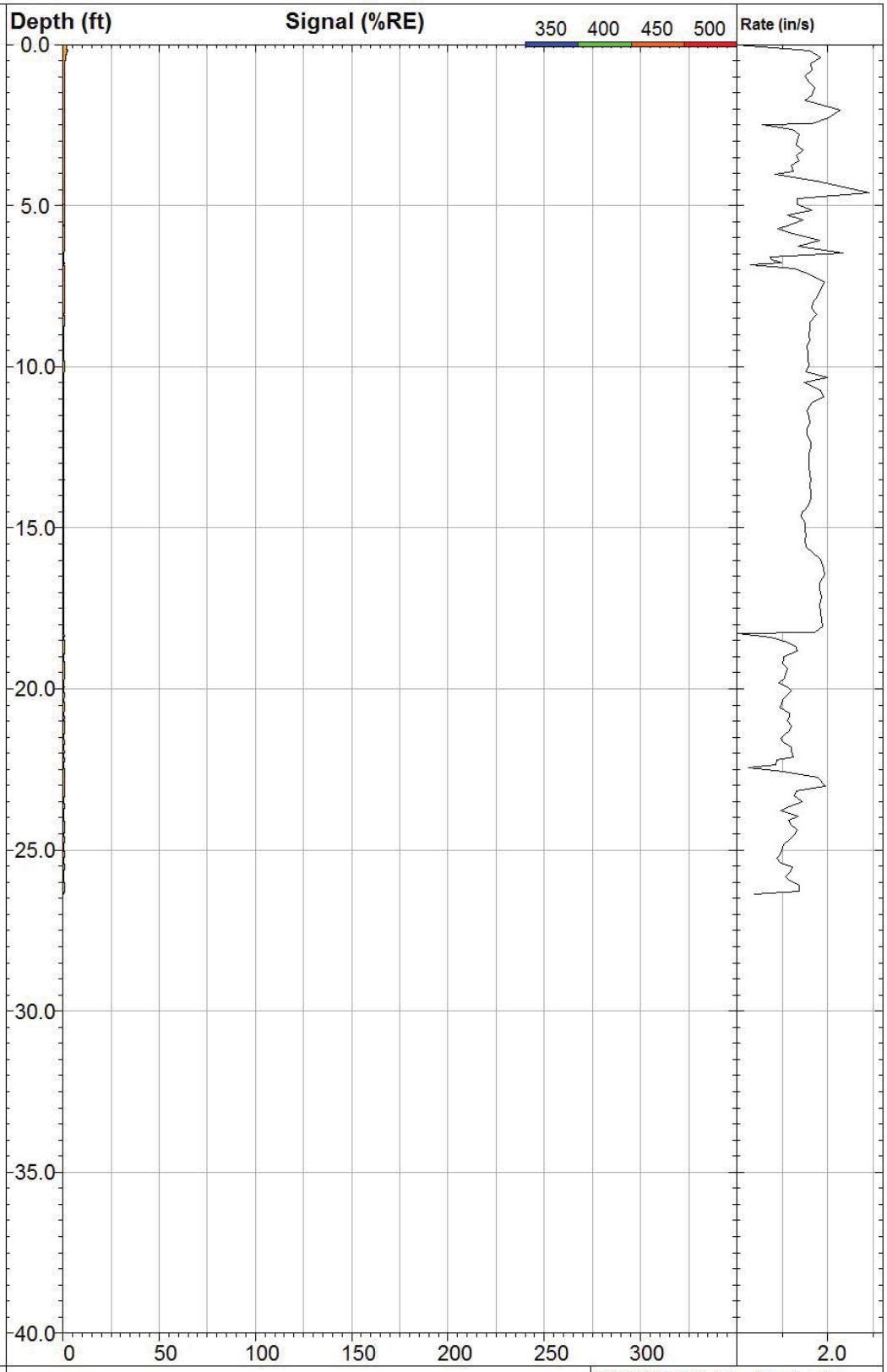
Callouts



RE
100.0 %RE



Background
0.6 %RE

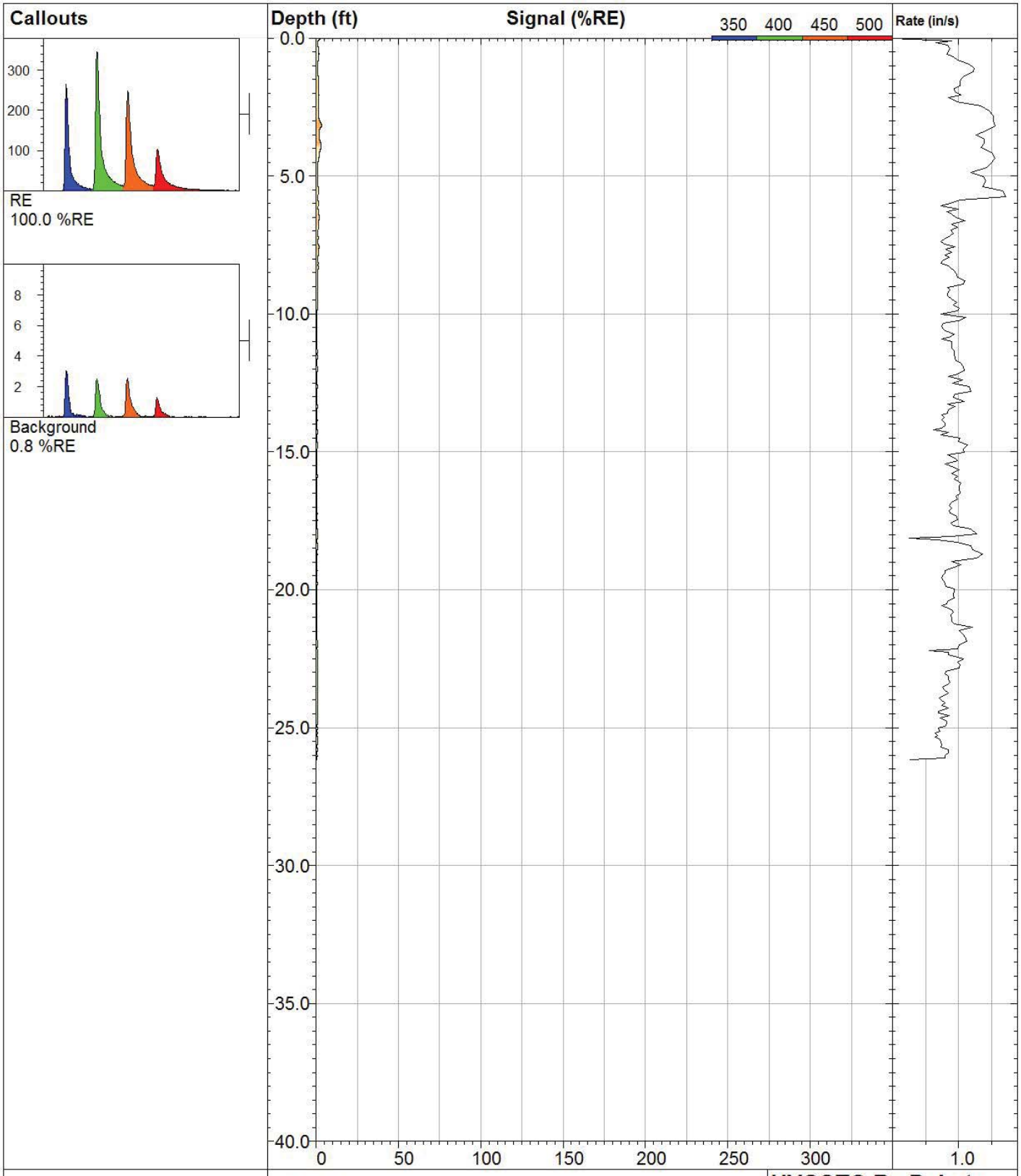


203Q

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.37 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.3 %RE @ 0.19 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 13:41 EST**

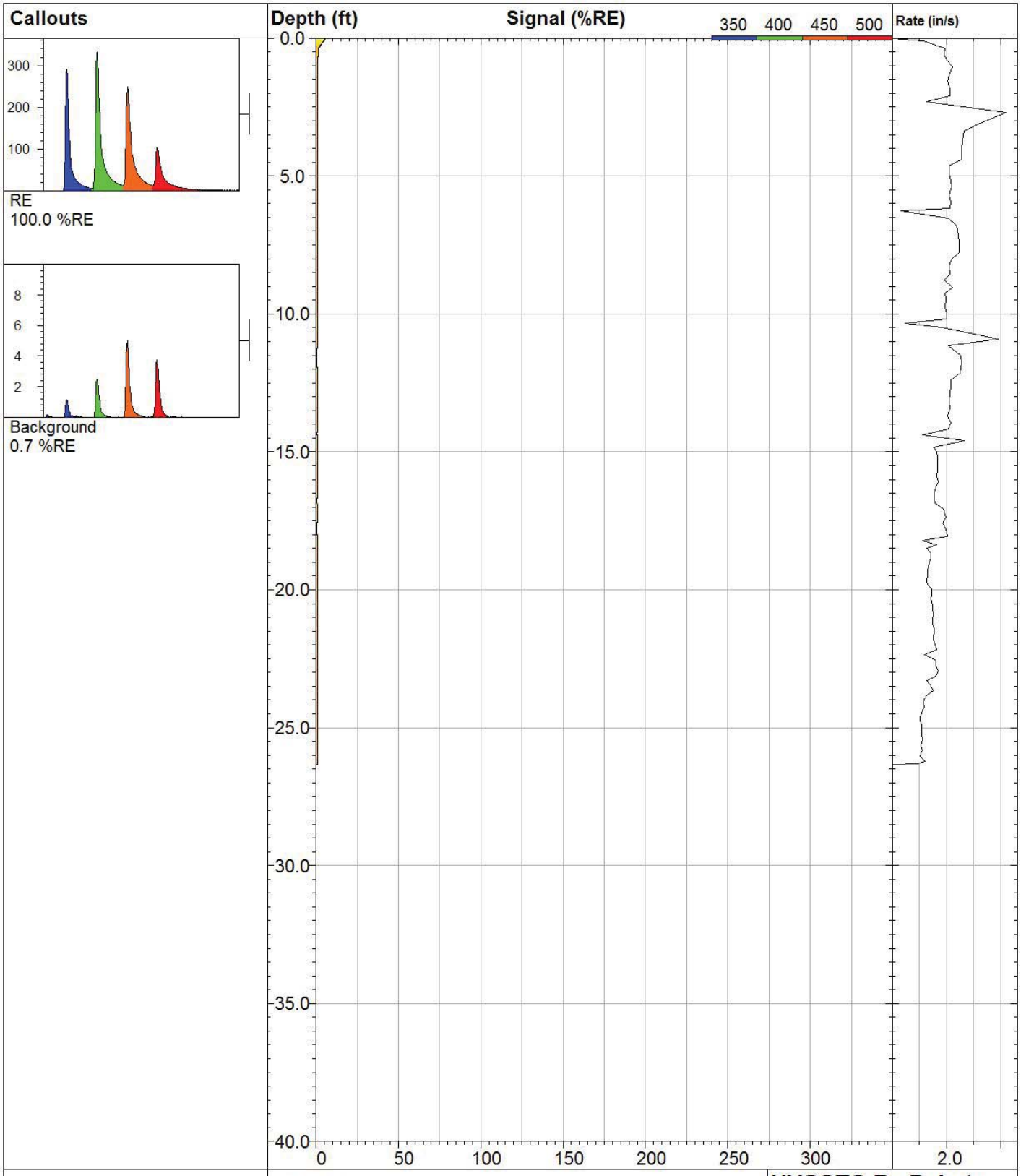


203QQ

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.15 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.7 %RE @ 3.17 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-04 09:52 EST**

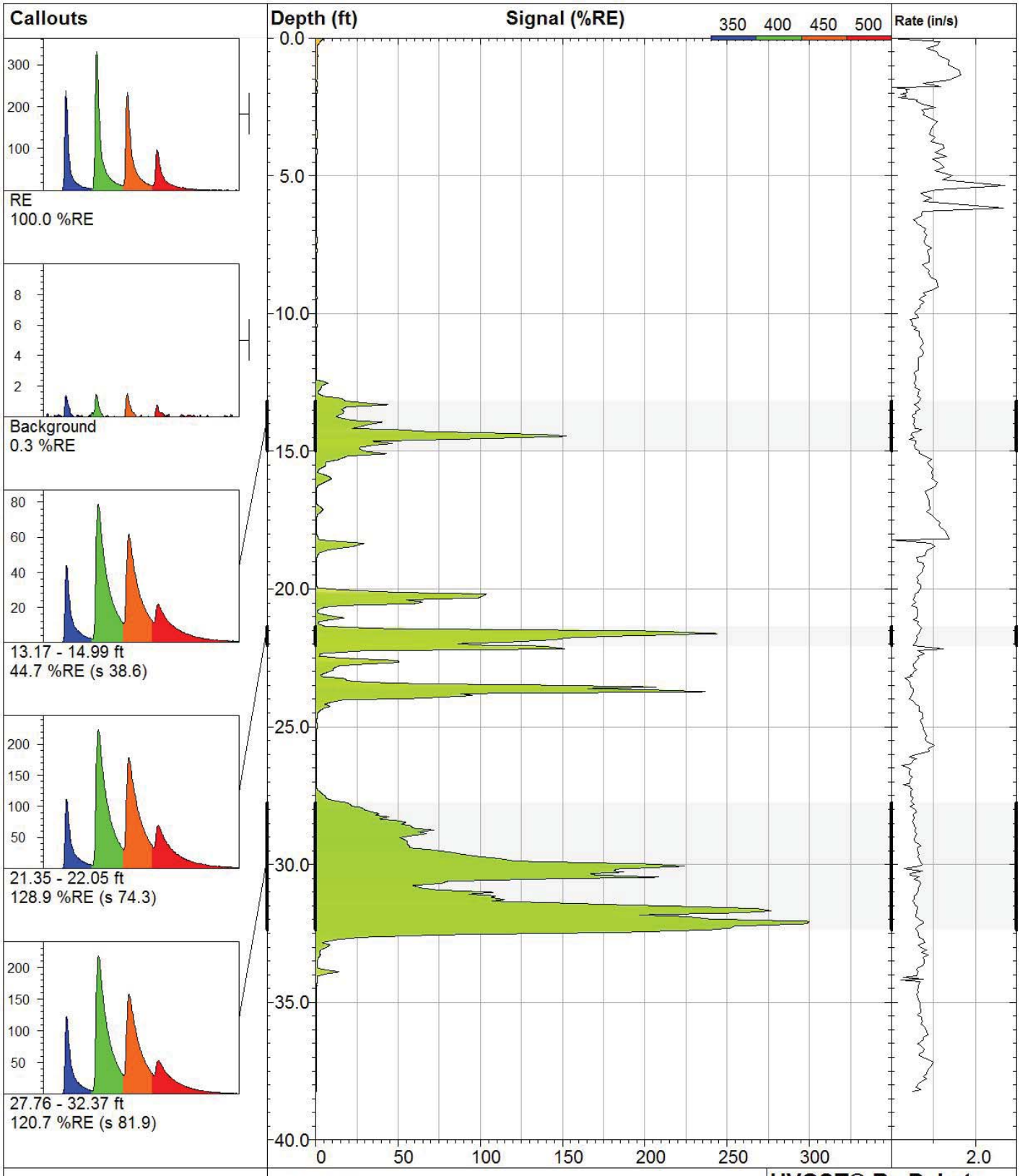


203R

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.35 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.5 %RE @ 0.00 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 13:25 EST**

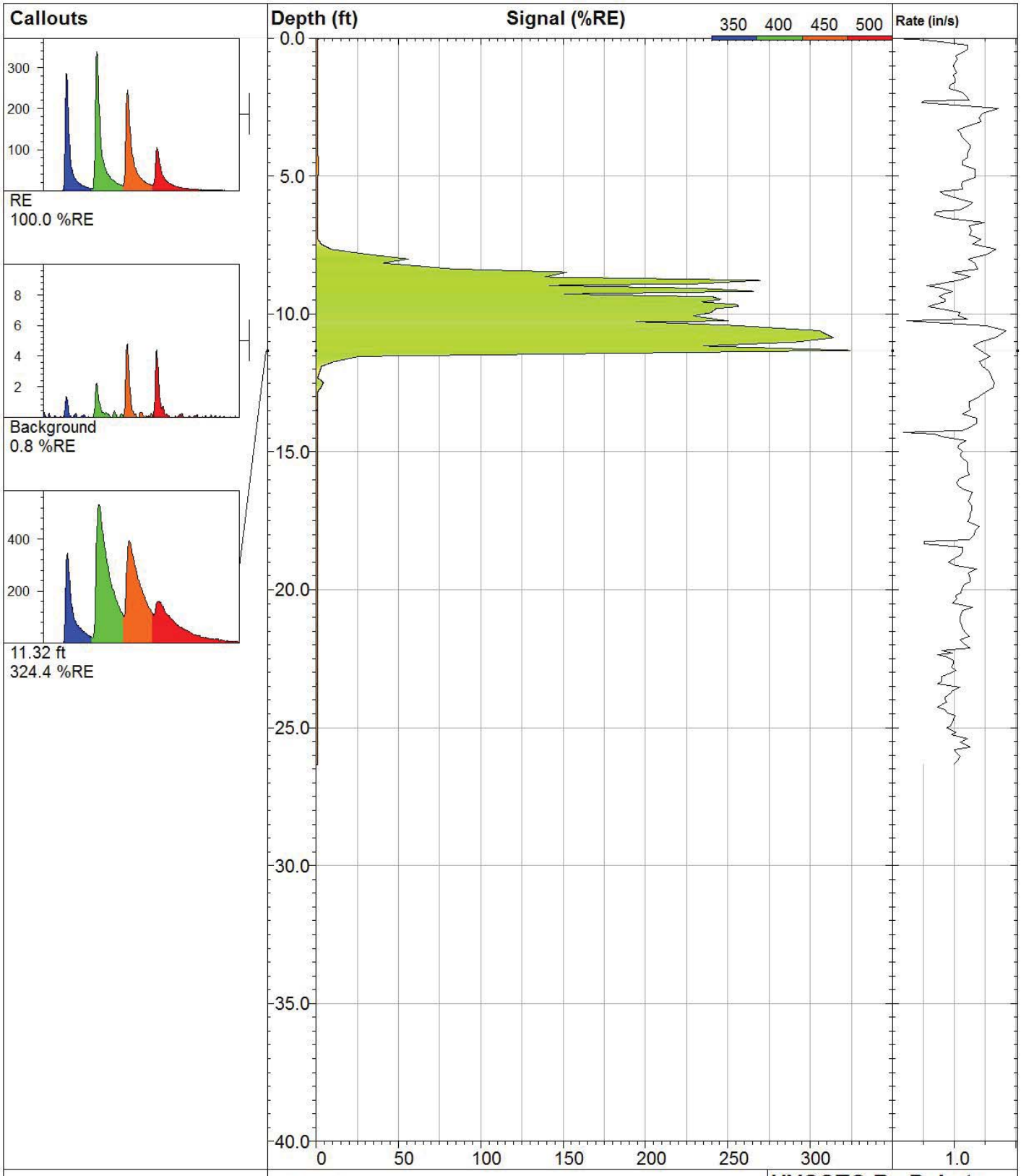


203RR

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **38.23 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **299.8 %RE @ 32.06 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 14:04 EST**

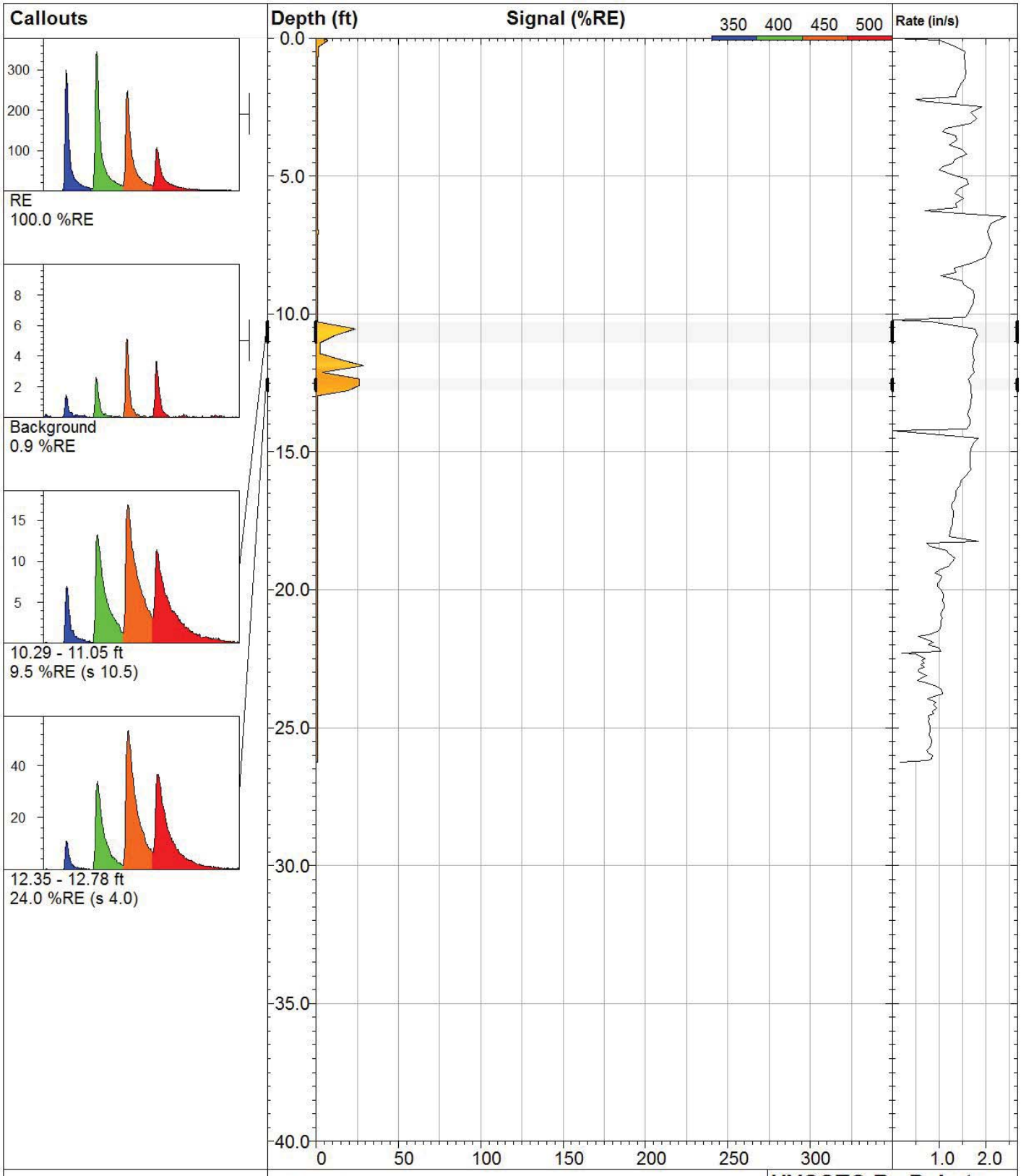


COLUMBIA TECHNOLOGIES

203S

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.34 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **324.4 %RE @ 11.32 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 10:26 EST**

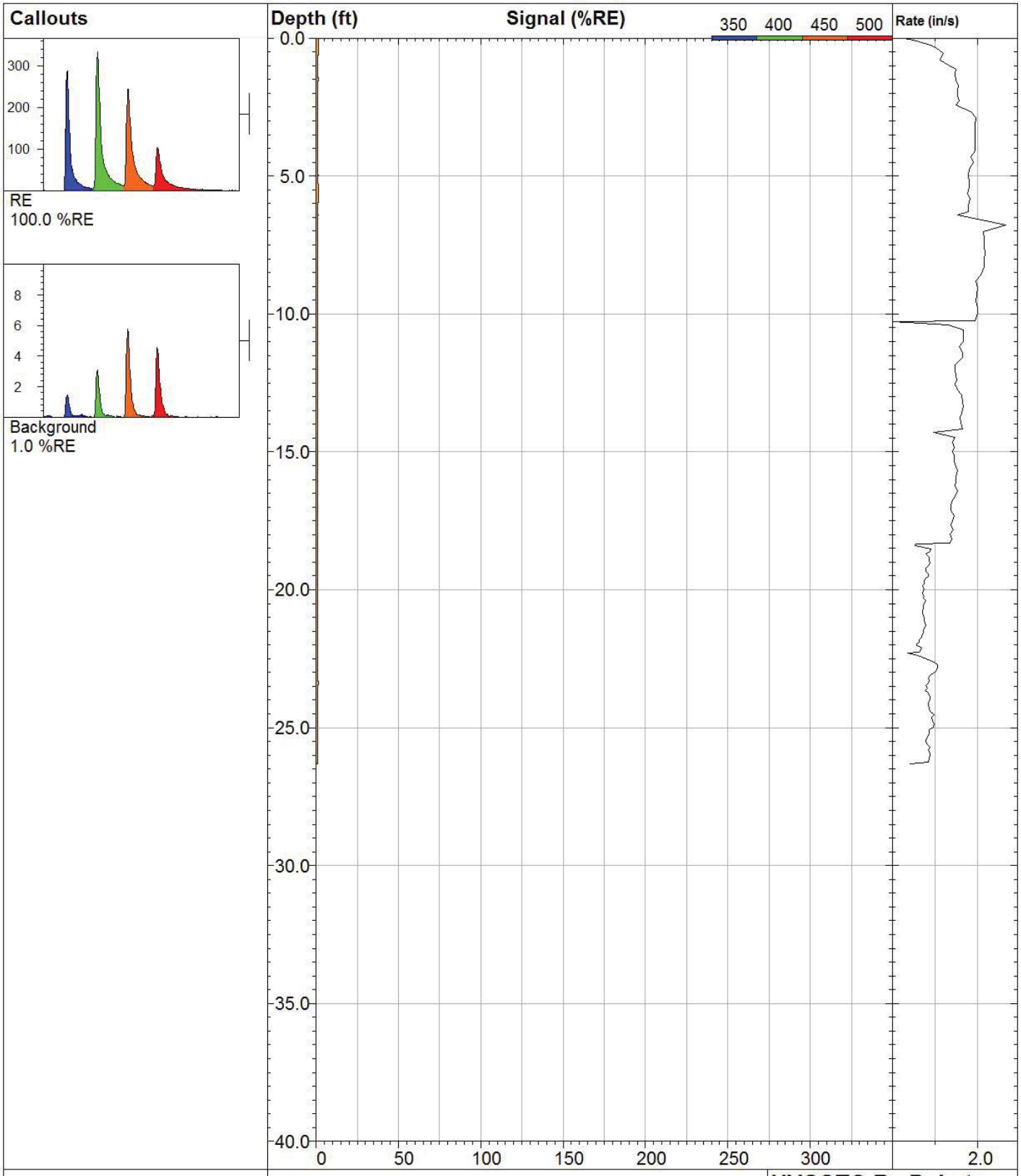


203T

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.26 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **28.9 %RE @ 11.87 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 09:45 EST**

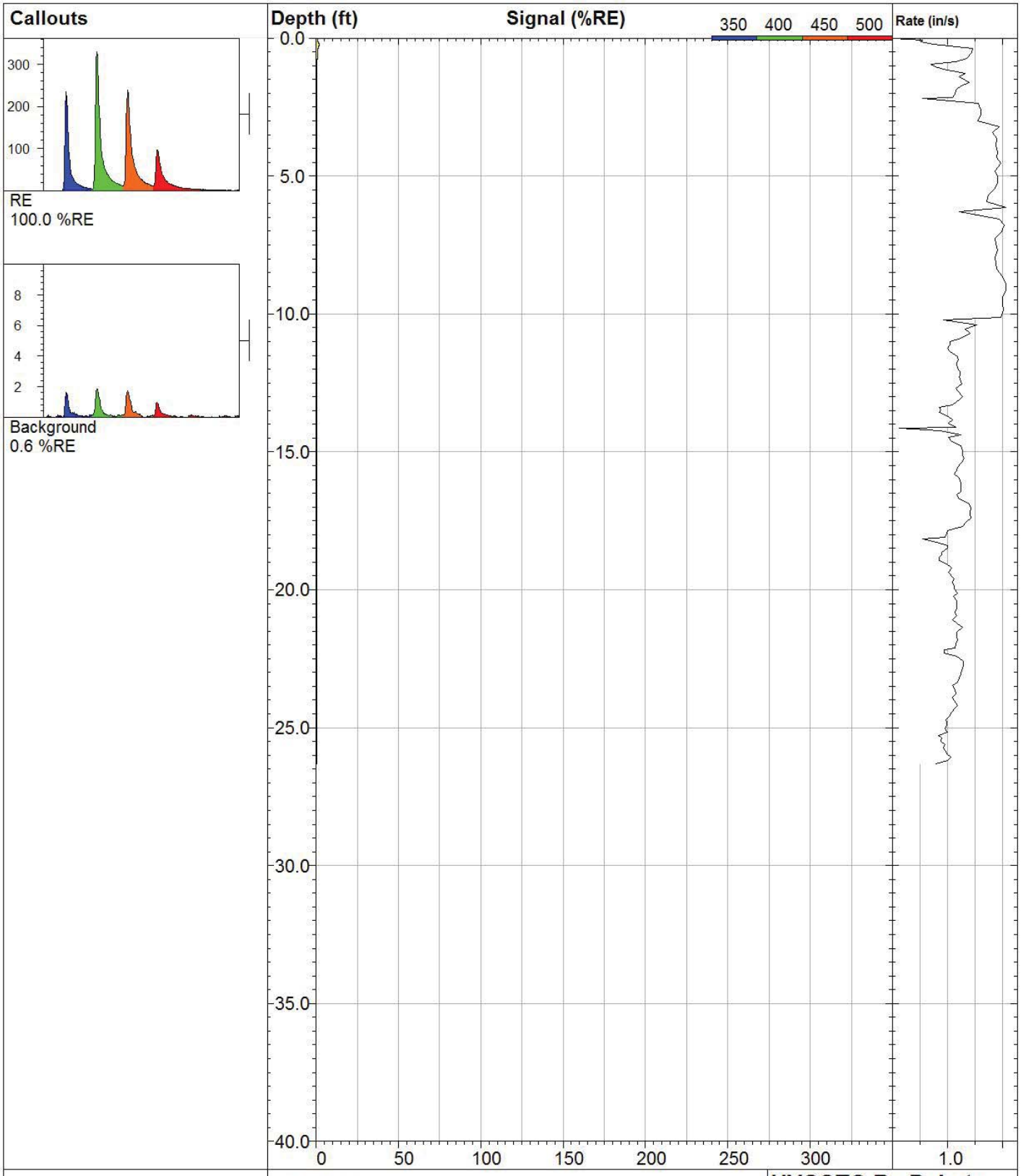


COLUMBIA TECHNOLOGIES

203U

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.31 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **1.7 %RE @ 0.08 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 09:17 EST**

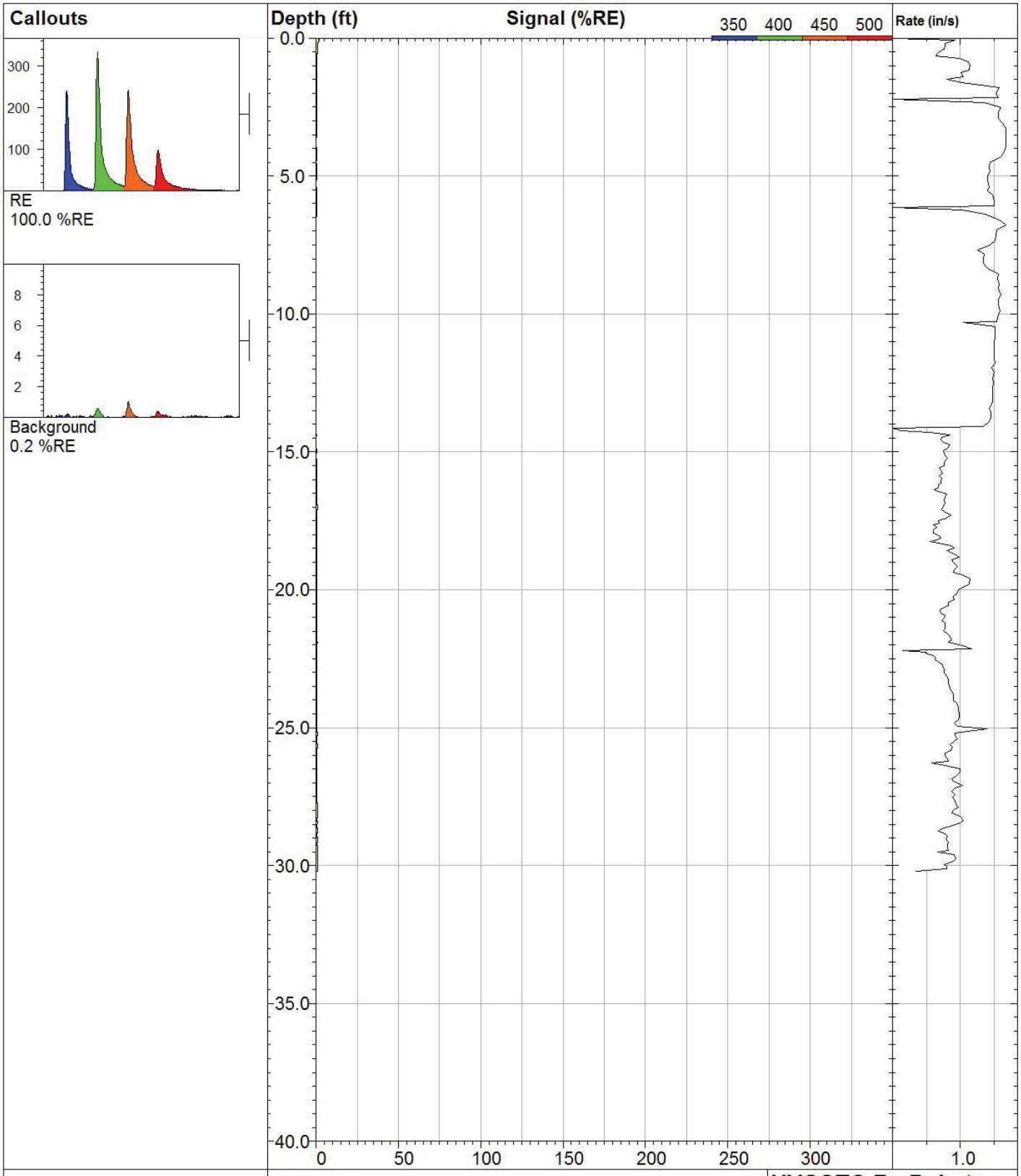


203V

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.33 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.1 %RE @ 0.22 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 09:20 EST**

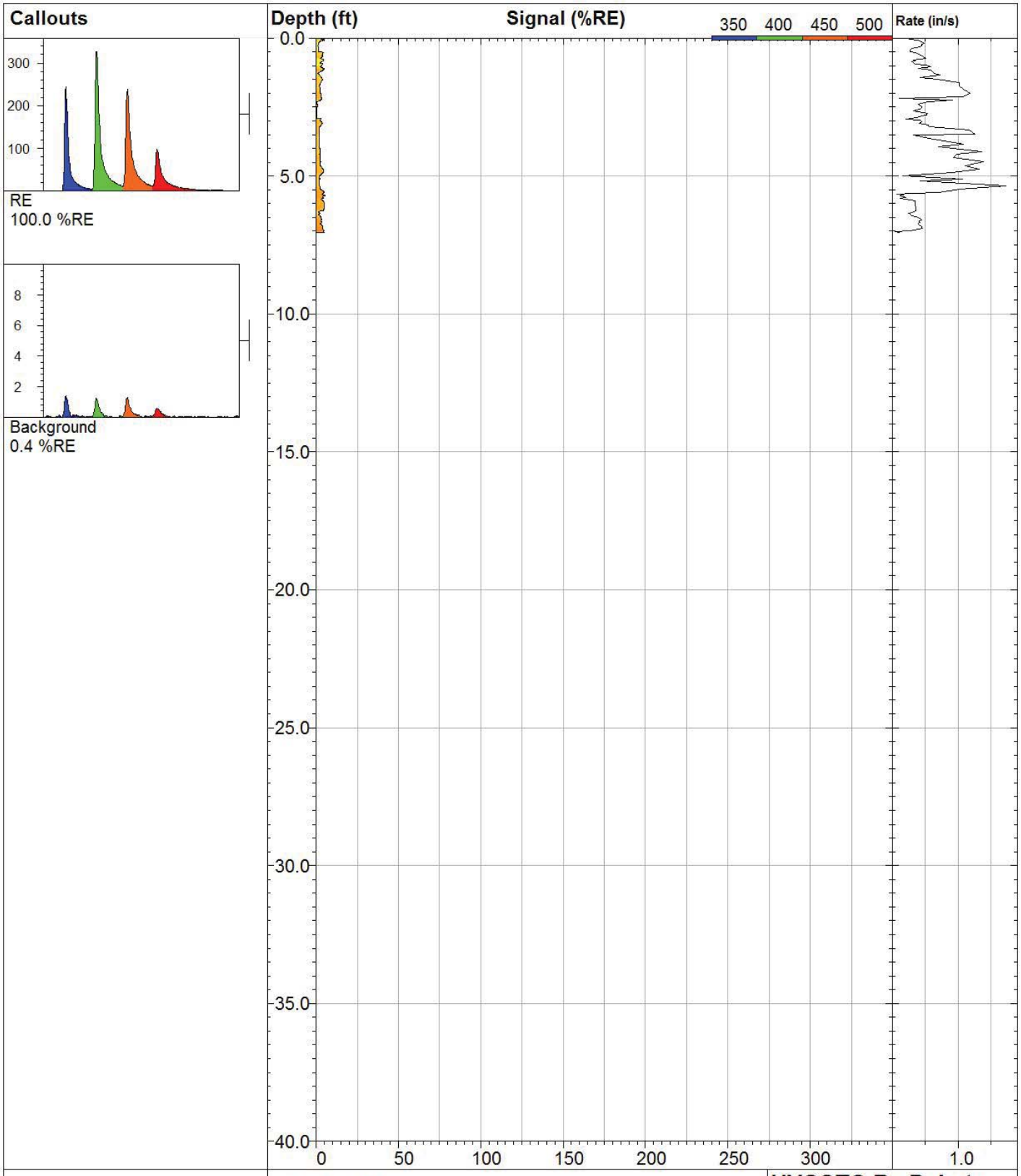


203W

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.20 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.1 %RE @ 0.08 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 08:49 EST**

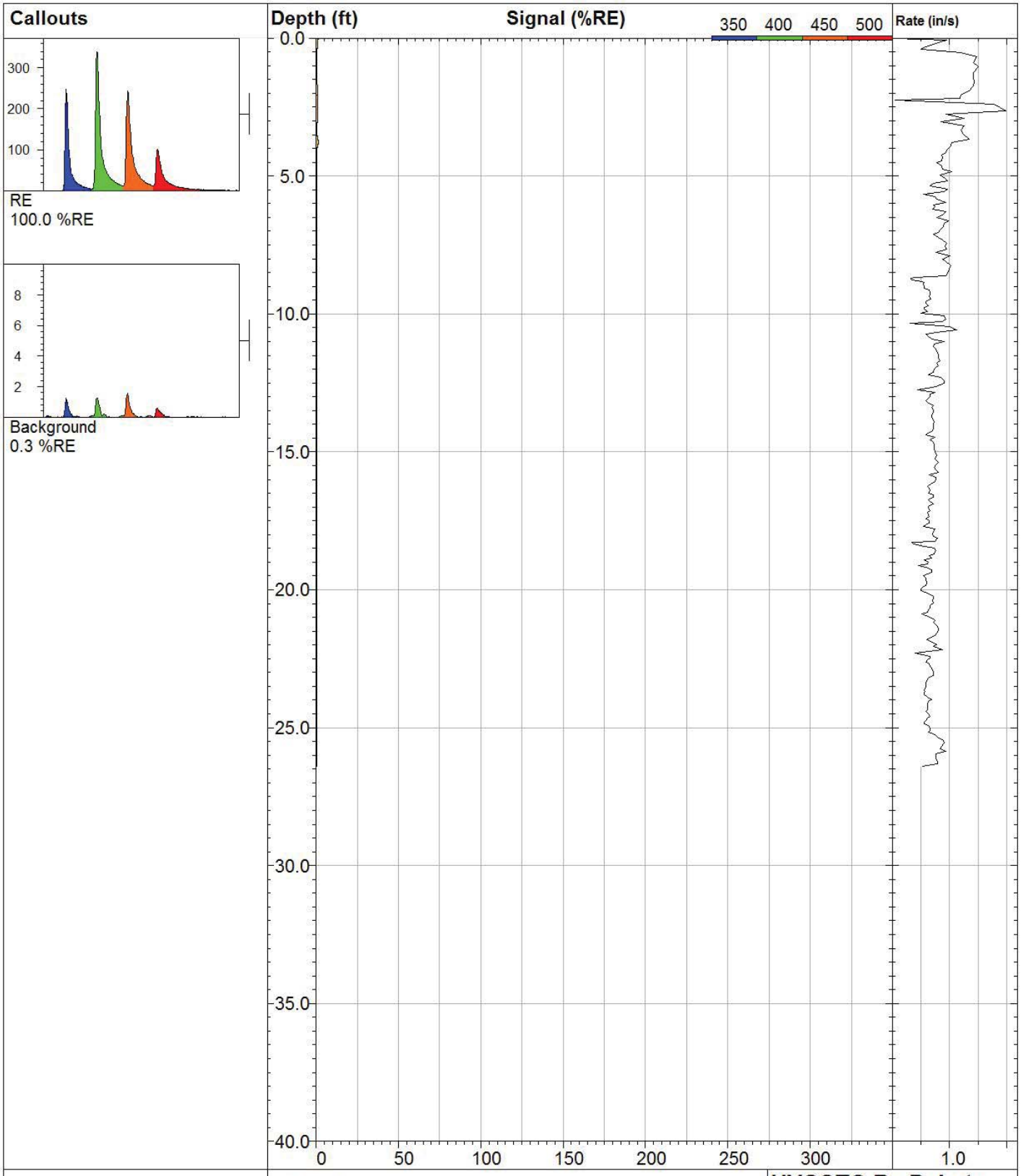


203WW

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.05 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.6 %RE @ 5.71 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 13:45 EST**

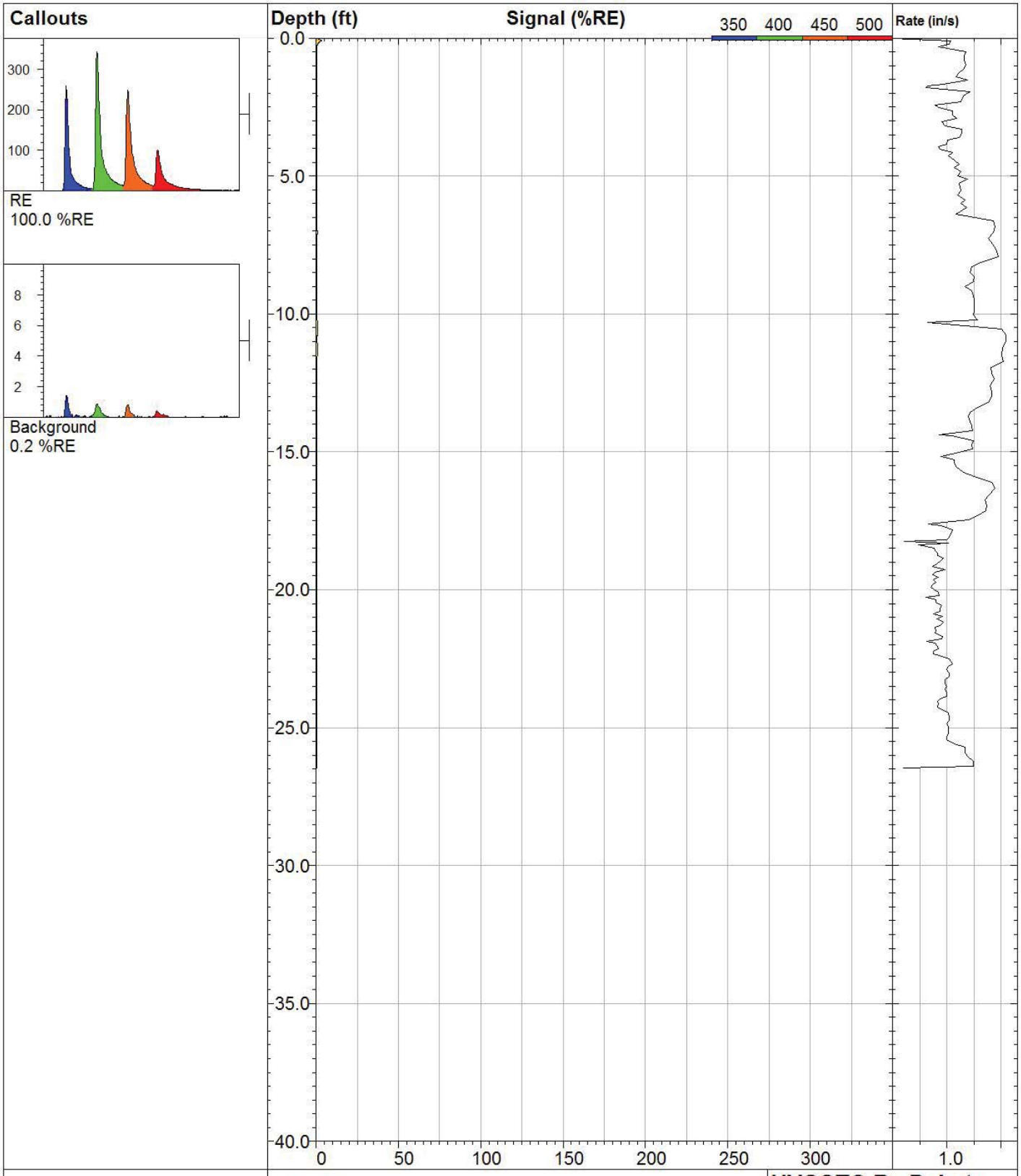


203X

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.40 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **1.8 %RE @ 0.00 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 10:25 EST**

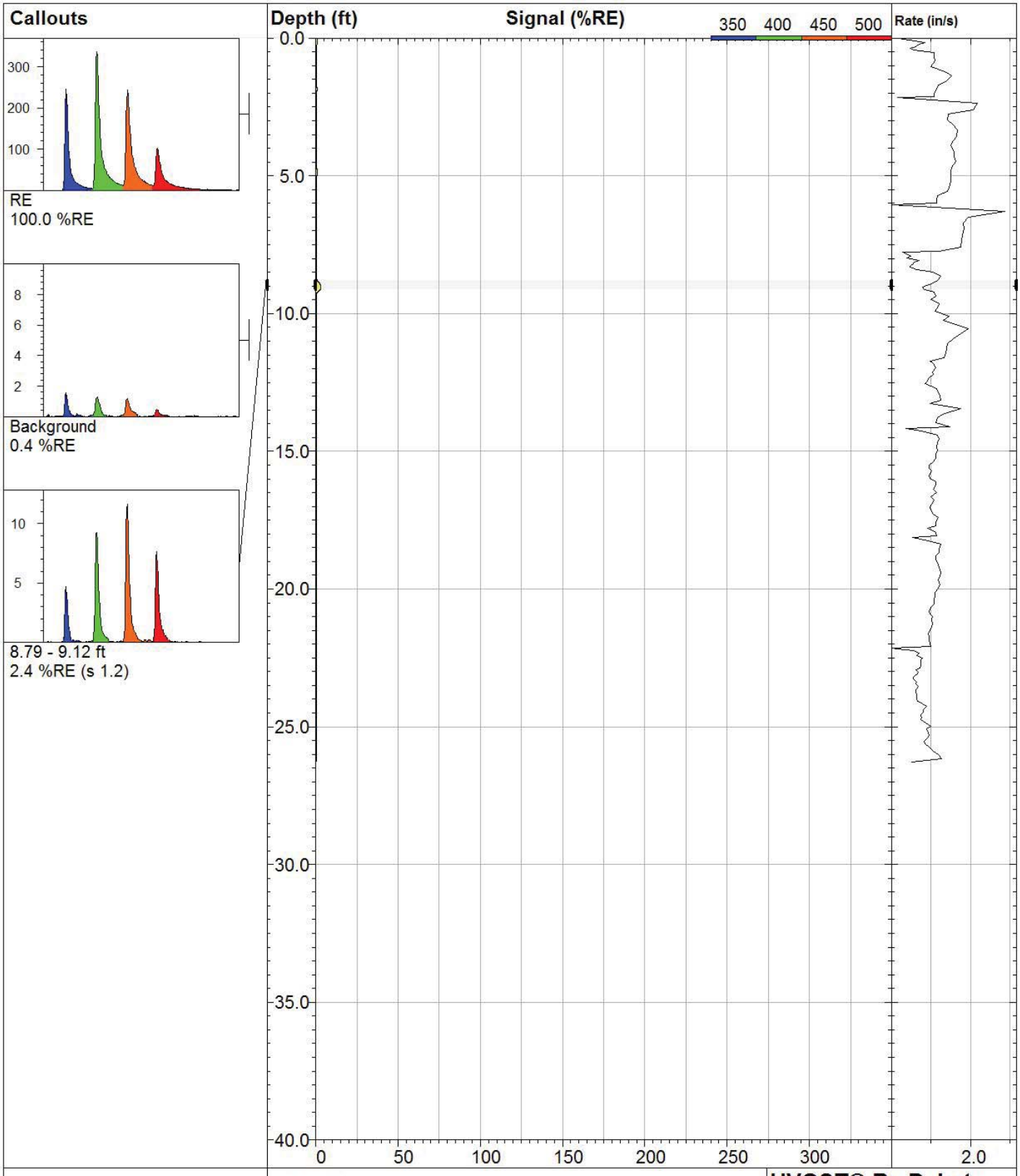


203Y

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.47 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.2 %RE @ 0.09 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 10:50 EST**

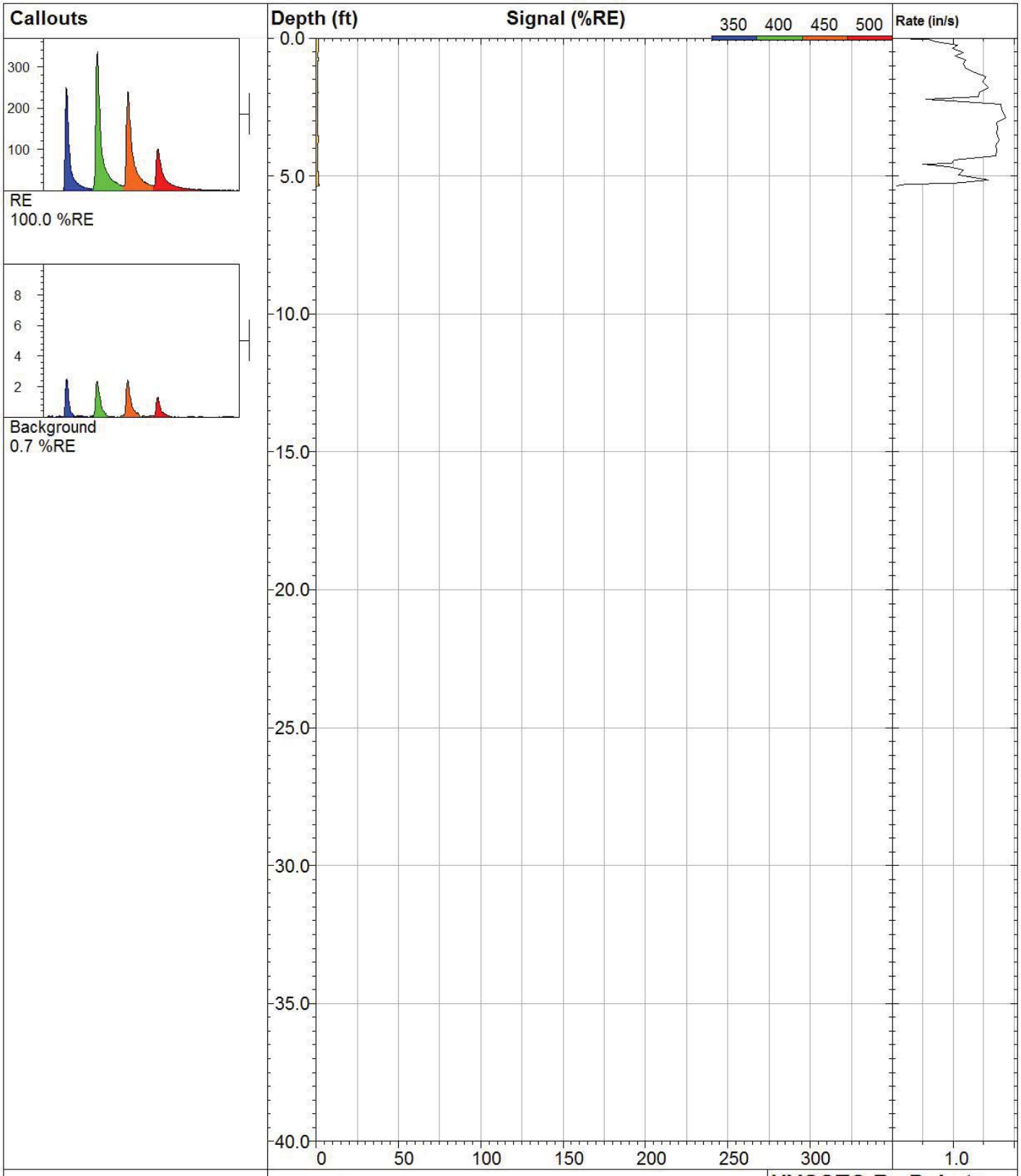


203Z

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.27 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.2 %RE @ 9.12 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 09:55 EST**



203ZZ

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.37 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.1 %RE @ 5.36 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-04 09:06 EST**

Attachment F

Laboratory Analytical Reports and Validation

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Attachment F1

Laboratory Analytical Sample Reports

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Electronic Version Provided Separately

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Attachment F2

Laboratory Investigation-Derived Waste Analytical Report

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Analysis Report

Partial Report

Sample Description: TB-20161216-01 Water
Camp Hero

LL Sample # WW 8752885
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 08:00

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A01 SDG#: APP16-01TB

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		ug/l	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	< 20	6	20	20	1
11997	Benzene	71-43-2	< 1	0.5	1	1	1
11997	Bromochloromethane	74-97-5	< 2	1	2	5	1
11997	Bromodichloromethane	75-27-4	< 1	0.5	1	1	1
11997	Bromoform	75-25-2	< 1	0.5	1	4	1
11997	Bromomethane	74-83-9	< 1	0.5	1	1	1
11997	2-Butanone	78-93-3	< 8	3	8	10	1
11997	Carbon Disulfide	75-15-0	< 2	1	2	5	1
11997	Carbon Tetrachloride	56-23-5	< 1	0.5	1	1	1
11997	Chlorobenzene	108-90-7	< 1	0.5	1	1	1
11997	Chloroethane	75-00-3	< 1	0.5	1	1	1
11997	Chloroform	67-66-3	< 1	0.5	1	1	1
11997	Chloromethane	74-87-3	< 1	0.5	1	1	1
11997	Cyclohexane	110-82-7	< 4	2	4	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	< 4	2	4	5	1
11997	Dibromochloromethane	124-48-1	< 1	0.5	1	1	1
11997	1,2-Dibromoethane	106-93-4	< 1	0.5	1	1	1
11997	Dichlorodifluoromethane	75-71-8	< 1	0.5	1	1	1
11997	1,1-Dichloroethane	75-34-3	< 1	0.5	1	1	1
11997	1,2-Dichloroethane	107-06-2	< 1	0.5	1	1	1
11997	1,1-Dichloroethene	75-35-4	< 1	0.5	1	1	1
11997	cis-1,2-Dichloroethene	156-59-2	< 1	0.5	1	1	1
11997	trans-1,2-Dichloroethene	156-60-5	< 1	0.5	1	1	1
11997	1,2-Dichloropropane	78-87-5	< 1	0.5	1	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	< 1	0.5	1	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	< 1	0.5	1	1	1
11997	1,4-Dioxane	123-91-1	< 200	70	200	250	1
11997	Ethylbenzene	100-41-4	< 1	0.5	1	1	1
11997	Freon 113	76-13-1	< 4	2	4	10	1
11997	2-Hexanone	591-78-6	< 8	3	8	10	1
11997	Isopropylbenzene	98-82-8	< 2	1	2	5	1
11997	Methyl Acetate	79-20-9	< 2	1	2	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	< 1	0.5	1	1	1
11997	4-Methyl-2-pentanone	108-10-1	< 8	3	8	10	1
11997	Methylcyclohexane	108-87-2	< 2	1	2	5	1
11997	Methylene Chloride	75-09-2	< 4	2	4	4	1
11997	Styrene	100-42-5	< 2	1	2	5	1
11997	1,1,1,2-Tetrachloroethane	630-20-6	< 1	0.5	1	1	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	< 1	0.5	1	1	1
11997	Tetrachloroethene	127-18-4	< 1	0.5	1	1	1
11997	Toluene	108-88-3	< 1	0.5	1	1	1
11997	1,2,3-Trichlorobenzene	87-61-6	< 2	1	2	5	1
11997	1,1,1-Trichloroethane	71-55-6	< 1	0.5	1	1	1
11997	1,1,2-Trichloroethane	79-00-5	< 1	0.5	1	1	1
11997	Trichloroethene	79-01-6	< 1	0.5	1	1	1
11997	Trichlorofluoromethane	75-69-4	< 1	0.5	1	1	1
11997	1,2,3-Trichloropropane	96-18-4	< 2	1	2	5	1
11997	Vinyl Acetate	108-05-4	< 4	2	4	10	1
11997	Vinyl Chloride	75-01-4	< 1	0.5	1	1	1
11997	m+p-Xylene	179601-23-1	< 1	0.5	1	1	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: TB-20161216-01 Water
Camp Hero

LL Sample # WW 8752885
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 08:00

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A01 SDG#: APP16-01TB

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		ug/l	ug/l	ug/l	ug/l	
11997	o-Xylene	95-47-6	< 1	0.5	1	1	1
11997	Xylene (Total)	1330-20-7	< 1	0.5	1	1	1

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs 8260C Water	SW-846 8260C	1	L163582AA	12/24/2016 01:31	Kevin D Kelly	1

Sample Description: WW-20161216-01 Water
Camp Hero

LL Sample # WW 8752886
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:00

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A02 SDG#: APP16-02

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		ug/l	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	< 200	60	200	200	10
11997	Benzene	71-43-2	< 10	5	10	10	10
11997	Bromochloromethane	74-97-5	< 20	10	20	50	10
11997	Bromodichloromethane	75-27-4	< 10	5	10	10	10
11997	Bromoform	75-25-2	< 10	5	10	40	10
11997	Bromomethane	74-83-9	< 10	5	10	10	10
11997	2-Butanone	78-93-3	< 80	30	80	100	10
11997	Carbon Disulfide	75-15-0	< 20	10	20	50	10
11997	Carbon Tetrachloride	56-23-5	< 10	5	10	10	10
11997	Chlorobenzene	108-90-7	< 10	5	10	10	10
11997	Chloroethane	75-00-3	< 10	5	10	10	10
11997	Chloroform	67-66-3	< 10	5	10	10	10
11997	Chloromethane	74-87-3	< 10	5	10	10	10
11997	Cyclohexane	110-82-7	< 40	20	40	50	10
11997	1,2-Dibromo-3-chloropropane	96-12-8	< 40	20	40	50	10

*=This limit was used in the evaluation of the final result

Sample Description: WW-20161216-01 Water
Camp Hero

LL Sample # WW 8752886
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:00

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A02 SDG#: APP16-02

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		ug/l	ug/l	ug/l	ug/l	
11997	Dibromochloromethane	124-48-1	< 10	5	10	10	10
11997	1,2-Dibromoethane	106-93-4	< 10	5	10	10	10
11997	Dichlorodifluoromethane	75-71-8	< 10	5	10	10	10
11997	1,1-Dichloroethane	75-34-3	< 10	5	10	10	10
11997	1,2-Dichloroethane	107-06-2	< 10	5	10	10	10
11997	1,1-Dichloroethene	75-35-4	< 10	5	10	10	10
11997	cis-1,2-Dichloroethene	156-59-2	< 10	5	10	10	10
11997	trans-1,2-Dichloroethene	156-60-5	< 10	5	10	10	10
11997	1,2-Dichloropropane	78-87-5	< 10	5	10	10	10
11997	cis-1,3-Dichloropropene	10061-01-5	< 10	5	10	10	10
11997	trans-1,3-Dichloropropene	10061-02-6	< 10	5	10	10	10
11997	1,4-Dioxane	123-91-1	< 2,000	700	2,000	2,500	10
11997	Ethylbenzene	100-41-4	< 10	5	10	10	10
11997	Freon 113	76-13-1	< 40	20	40	100	10
11997	2-Hexanone	591-78-6	< 80	30	80	100	10
11997	Isopropylbenzene	98-82-8	< 20	10	20	50	10
11997	Methyl Acetate	79-20-9	< 20	10	20	50	10
11997	Methyl Tertiary Butyl Ether	1634-04-4	< 10	5	10	10	10
11997	4-Methyl-2-pentanone	108-10-1	< 80	30	80	100	10
11997	Methylcyclohexane	108-87-2	< 20	10	20	50	10
11997	Methylene Chloride	75-09-2	< 40	20	40	40	10
11997	Styrene	100-42-5	< 20	10	20	50	10
11997	1,1,1,2-Tetrachloroethane	630-20-6	< 10	5	10	10	10
11997	1,1,2,2-Tetrachloroethane	79-34-5	< 10	5	10	10	10
11997	Tetrachloroethene	127-18-4	< 10	5	10	10	10
11997	Toluene	108-88-3	< 10	5	10	10	10
11997	1,2,3-Trichlorobenzene	87-61-6	< 20	10	20	50	10
11997	1,1,1-Trichloroethane	71-55-6	< 10	5	10	10	10
11997	1,1,2-Trichloroethane	79-00-5	< 10	5	10	10	10
11997	Trichloroethene	79-01-6	< 10	5	10	10	10
11997	Trichlorofluoromethane	75-69-4	< 10	5	10	10	10
11997	1,2,3-Trichloropropane	96-18-4	< 20	10	20	50	10
11997	Vinyl Acetate	108-05-4	< 40	20	40	100	10
11997	Vinyl Chloride	75-01-4	< 10	5	10	10	10
11997	m+p-Xylene	179601-23-1	< 10	5	10	10	10
11997	o-Xylene	95-47-6	< 10	5	10	10	10
11997	Xylene (Total)	1330-20-7	< 10	5	10	10	10
Reporting limits were raised due to sample foaming.							
GC/MS Semivolatiles	**SW-846 8270D**		ug/l	ug/l	ug/l	ug/l	
14242	Acenaphthene	83-32-9	0.75	0.11	0.43	0.53	1
14242	Acenaphthylene	208-96-8	0.76	0.11	0.43	0.53	1
14242	Acetophenone	98-86-2	< 1.1	0.53	1.1	1.1	1
14242	Anthracene	120-12-7	0.16 J	0.11	0.43	0.53	1
14242	Atrazine	1912-24-9	< 4.3	2.1	4.3	5.3	1
14242	Benzaldehyde	100-52-7	< 4.3	1.1	4.3	5.3	1
14242	Benzo(a)anthracene	56-55-3	< 0.43	0.11	0.43	0.53	1
14242	Benzo(a)pyrene	50-32-8	< 0.43	0.11	0.43	0.53	1
14242	Benzo(b)fluoranthene	205-99-2	< 0.43	0.11	0.43	0.53	1
14242	Benzo(g,h,i)perylene	191-24-2	< 0.43	0.11	0.43	0.53	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: WW-20161216-01 Water
Camp Hero

LL Sample # WW 8752886
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:00

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A02 SDG#: APP16-02

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Semivolatiles SW-846 8270D			ug/l		ug/l	ug/l	ug/l	
14242	Benzo(k)fluoranthene	207-08-9	< 0.43		0.11	0.43	0.53	1
14242	Benzoic acid	65-85-0	< 16		6.4	16	16	1
14242	Benzyl alcohol	100-51-6	< 16		11	16	16	1
14242	1,1'-Biphenyl	92-52-4	2.5		0.53	1.1	1.1	1
14242	4-Bromophenyl-phenylether	101-55-3	< 1.1		0.53	1.1	1.1	1
14242	Butylbenzylphthalate	85-68-7	< 4.3		2.1	4.3	5.3	1
14242	Di-n-butylphthalate	84-74-2	< 4.3		2.1	4.3	5.3	1
14242	Caprolactam	105-60-2	< 16		5.3	16	16	1
14242	Carbazole	86-74-8	0.87	J	0.53	1.1	1.1	1
14242	4-Chloro-3-methylphenol	59-50-7	0.82	J	0.53	1.1	1.1	1
14242	4-Chloroaniline	106-47-8	< 4.3		2.1	4.3	4.3	1
14242	bis(2-Chloroethoxy)methane	111-91-1	< 1.1		0.53	1.1	1.1	1
14242	bis(2-Chloroethyl)ether	111-44-4	< 1.1		0.53	1.1	1.1	1
14242	2-Chloronaphthalene	91-58-7	< 1.1		0.43	1.1	1.1	1
14242	2-Chlorophenol	95-57-8	< 1.1		0.53	1.1	1.1	1
14242	4-Chlorophenyl-phenylether	7005-72-3	< 1.1		0.53	1.1	1.1	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.1		0.53	1.1	1.1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.							
14242	Chrysene	218-01-9	< 0.43		0.11	0.43	0.53	1
14242	Dibenz(a,h)anthracene	53-70-3	< 0.43		0.11	0.43	0.53	1
14242	Dibenzofuran	132-64-9	< 1.1		0.53	1.1	1.1	1
14242	1,2-Dichlorobenzene	95-50-1	< 1.1		0.53	1.1	1.1	1
14242	1,3-Dichlorobenzene	541-73-1	< 1.1		0.53	1.1	1.1	1
14242	1,4-Dichlorobenzene	106-46-7	< 1.1		0.53	1.1	1.1	1
14242	3,3'-Dichlorobenzidine	91-94-1	< 4.3		2.1	4.3	5.3	1
14242	2,4-Dichlorophenol	120-83-2	< 1.1		0.53	1.1	1.1	1
14242	Diethylphthalate	84-66-2	< 4.3		2.1	4.3	5.3	1
14242	2,4-Dimethylphenol	105-67-9	< 1.1		0.53	1.1	1.1	1
14242	Dimethylphthalate	131-11-3	< 4.3		2.1	4.3	5.3	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	< 16		5.3	16	16	1
14242	2,4-Dinitrophenol	51-28-5	< 32		11	32	32	1
14242	2,4-Dinitrotoluene	121-14-2	< 4.3		1.1	4.3	5.3	1
14242	2,6-Dinitrotoluene	606-20-2	< 1.1		0.53	1.1	1.1	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	< 4.3		2.1	4.3	5.3	1
14242	Fluoranthene	206-44-0	< 0.43		0.11	0.43	0.53	1
14242	Fluorene	86-73-7	1.0		0.11	0.43	0.53	1
14242	Hexachlorobenzene	118-74-1	< 0.43		0.11	0.43	0.53	1
14242	Hexachlorobutadiene	87-68-3	< 1.1		0.53	1.1	1.1	1
14242	Hexachlorocyclopentadiene	77-47-4	< 16		5.3	16	16	1
14242	Hexachloroethane	67-72-1	< 4.3		1.1	4.3	5.3	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	< 0.43		0.11	0.43	0.53	1
14242	Isophorone	78-59-1	< 1.1		0.53	1.1	1.1	1
14242	1-Methylnaphthalene	90-12-0	9.7		0.11	0.43	0.53	1
14242	2-Methylnaphthalene	91-57-6	14		0.11	0.43	0.53	1
14242	2-Methylphenol	95-48-7	< 1.1		0.53	1.1	1.1	1
14242	4-Methylphenol	106-44-5	0.92	J	0.53	1.1	1.1	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: WW-20161216-01 Water
Camp Hero

LL Sample # WW 8752886
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:00

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A02 SDG#: APP16-02

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14242	Naphthalene	91-20-3	23	0.11	0.43	0.53	1
14242	2-Nitroaniline	88-74-4	< 1.1	0.53	1.1	1.1	1
14242	3-Nitroaniline	99-09-2	< 1.1	0.53	1.1	1.1	1
14242	4-Nitroaniline	100-01-6	< 1.1	0.53	1.1	1.1	1
14242	Nitrobenzene	98-95-3	< 1.1	0.53	1.1	1.1	1
14242	2-Nitrophenol	88-75-5	< 1.1	0.53	1.1	1.1	1
14242	4-Nitrophenol	100-02-7	< 32	11	32	32	1
14242	N-Nitrosodimethylamine	62-75-9	< 4.3	2.1	4.3	5.3	1
14242	N-Nitroso-di-n-propylamine	621-64-7	< 1.1	0.53	1.1	1.1	1
14242	N-Nitrosodiphenylamine	86-30-6	< 1.1	0.53	1.1	1.1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14242	Di-n-octylphthalate	117-84-0	< 4.3	2.1	4.3	5.3	1
14242	Pentachlorophenol	87-86-5	< 4.3	1.1	4.3	5.3	1
14242	Phenanthrene	85-01-8	0.84	0.11	0.43	0.53	1
14242	Phenol	108-95-2	1.4	0.53	1.1	1.1	1
14242	Pyrene	129-00-0	< 0.43	0.11	0.43	0.53	1
14242	1,2,4,5-Tetrachlorobenzene	95-94-3	< 1.1	0.53	1.1	1.1	1
14242	2,3,4,6-Tetrachlorophenol	58-90-2	< 1.1	0.53	1.1	1.1	1
14242	1,2,4-Trichlorobenzene	120-82-1	< 1.1	0.53	1.1	1.1	1
14242	2,4,5-Trichlorophenol	95-95-4	< 1.1	0.53	1.1	1.1	1
14242	2,4,6-Trichlorophenol	88-06-2	< 1.1	0.53	1.1	1.1	1
GC/MS Semivolatiles	**SW-846 8270D SIM**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
14244	Acenaphthene	83-32-9	0.73	0.011	0.043	0.053	1
14244	Acenaphthylene	208-96-8	0.62	0.011	0.043	0.053	1
14244	Anthracene	120-12-7	0.11	0.011	0.043	0.053	1
14244	Benzo(a)anthracene	56-55-3	0.015 J	0.011	0.043	0.053	1
14244	Benzo(a)pyrene	50-32-8	< 0.043	0.011	0.043	0.053	1
14244	Benzo(b)fluoranthene	205-99-2	< 0.043	0.011	0.043	0.053	1
14244	Benzo(g,h,i)perylene	191-24-2	< 0.043	0.011	0.043	0.053	1
14244	Benzo(k)fluoranthene	207-08-9	< 0.043	0.011	0.043	0.053	1
14244	Chrysene	218-01-9	0.018 J	0.011	0.043	0.053	1
14244	Dibenz(a,h)anthracene	53-70-3	< 0.043	0.011	0.043	0.053	1
14244	Fluoranthene	206-44-0	0.031 J	0.011	0.043	0.053	1
14244	Fluorene	86-73-7	0.95	0.011	0.043	0.053	1
14244	Indeno(1,2,3-cd)pyrene	193-39-5	< 0.043	0.011	0.043	0.053	1
14244	1-Methylnaphthalene	90-12-0	10	0.011	0.043	0.053	1
14244	2-Methylnaphthalene	91-57-6	17	0.053	0.21	0.27	5
14244	Naphthalene	91-20-3	26	0.16	0.32	0.32	5
14244	Phenanthrene	85-01-8	0.87	0.032	0.064	0.064	1
14244	Pyrene	129-00-0	0.042 J	0.011	0.043	0.053	1
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	< 0.006	0.002	0.006	0.008	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: WW-20161216-01 Water
Camp Hero

LL Sample # WW 8752886
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:00

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

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Suite 900
Arlington VA 22201

16A02 SDG#: APP16-02

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Pesticides/PCBs	**SW-846 8081B**		ug/l		ug/l	ug/l	ug/l	
10589	Alpha BHC	319-84-6	< 0.007	V	0.004	0.007	0.008	1
10589	Beta BHC	319-85-7	< 0.01	V	0.007	0.01	0.01	1
10589	Gamma BHC - Lindane	58-89-9	< 0.006		0.002	0.006	0.008	1
10589	Alpha Chlordane	5103-71-9	< 0.006		0.002	0.006	0.008	1
10589	Gamma Chlordane	5103-74-2	< 0.02		0.006	0.02	0.02	1
10589	p,p-DDD	72-54-8	< 0.008		0.004	0.008	0.02	1
10589	p,p-DDE	72-55-9	< 0.008		0.004	0.008	0.02	1
10589	p,p-DDT	50-29-3	< 0.008		0.004	0.008	0.02	1
10589	Delta BHC	319-86-8	< 0.006		0.003	0.006	0.008	1
10589	Dieldrin	60-57-1	< 0.008		0.004	0.008	0.02	1
10589	Endosulfan I	959-98-8	< 0.007		0.004	0.007	0.008	1
10589	Endosulfan II	33213-65-9	< 0.02		0.01	0.02	0.02	1
10589	Endosulfan Sulfate	1031-07-8	< 0.01		0.005	0.01	0.02	1
10589	Endrin	72-20-8	< 0.02		0.007	0.02	0.02	1
10589	Endrin Aldehyde	7421-93-4	< 0.03		0.02	0.03	0.08	1
10589	Endrin Ketone	53494-70-5	< 0.008		0.004	0.008	0.02	1
10589	Heptachlor	76-44-8	< 0.006		0.002	0.006	0.008	1
10589	Heptachlor Epoxide	1024-57-3	< 0.006		0.002	0.006	0.008	1
10589	Methoxychlor	72-43-5	< 0.06		0.02	0.06	0.08	1
10589	Toxaphene	8001-35-2	< 0.5		0.2	0.5	0.8	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary.
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082A**		ug/l		ug/l	ug/l	ug/l	
10591	PCB-1016	12674-11-2	< 0.24		0.081	0.24	0.41	1
10591	PCB-1221	11104-28-2	< 0.24		0.081	0.24	0.41	1
10591	PCB-1232	11141-16-5	< 0.33		0.16	0.33	0.41	1
10591	PCB-1242	53469-21-9	< 0.24		0.081	0.24	0.41	1
10591	PCB-1248	12672-29-6	< 0.24		0.081	0.24	0.41	1
10591	PCB-1254	11097-69-1	< 0.24		0.081	0.24	0.41	1
10591	PCB-1260	11096-82-5	< 0.24		0.12	0.24	0.41	1
10591	PCB-1262	37324-23-5	< 0.33		0.16	0.33	0.41	1
10591	PCB-1268	11100-14-4	< 0.26		0.13	0.26	0.41	1
Wet Chemistry	**SW-846 9012B**		ug/l		ug/l	ug/l	ug/l	
10704	Total Cyanide in Water	57-12-5	< 10		5.0	10	10	1

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Partial Report

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs 8260C Water	SW-846 8260C	1	L163642AA	12/29/2016 18:56	Kerri E Legerlotz	10
14242	SVOCs 8270D Water	SW-846 8270D	1	16355WAJ026	12/22/2016 13:02	Holly B Ziegler	1
14244	PAH SIM 8270D with Full Scan	SW-846 8270D SIM	1	17006WAF026	01/12/2017 18:00	Holly B Ziegler	1
14244	PAH SIM 8270D with Full Scan	SW-846 8270D SIM	1	17006WAF026	01/12/2017 19:56	Holly B Ziegler	5
10589	OC Pesticides in Water	SW-846 8081B	1	163550022A	12/23/2016 10:19	Andrea L Jones	1
10591	PCBs in Water by 8082A	SW-846 8082A	1	163560010A	12/23/2016 02:48	Kirby B Turner	1
10704	Total Cyanide in Water	SW-846 9012B	1	16363960101A	12/28/2016 13:55	Dein K Bernot	1

Sample Description: WW-20161216-01 Water
Camp Hero

LL Sample # WW 8752887
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:00

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

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Arlington VA 22201

16A03 SDG#: APP16-03

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals	**SW-846 6020A**		ug/l		ug/l	ug/l	ug/l	
06023	Aluminum	7429-90-5	8,280		23.1	50.0	200	1
06024	Antimony	7440-36-0	< 1.0		0.48	1.0	2.0	1
06025	Arsenic	7440-38-2	2.7	J	0.68	2.0	4.0	1
06026	Barium	7440-39-3	99.3		0.96	2.0	4.0	1
06027	Beryllium	7440-41-7	0.37	J	0.11	0.25	1.0	1
06028	Cadmium	7440-43-9	< 0.50		0.19	0.50	1.0	1
06029	Calcium	7440-70-2	61,900		98.1	200	400	1
06031	Chromium	7440-47-3	32.9		0.59	2.0	4.0	1
02828	Trivalent Chromium 6020A	16065-83-1	20		0.59	2.5	4.0	1
	The Trivalent Chromium result is calculated by subtracting Hexavalent Chromium from Total Chromium.							
06032	Cobalt	7440-48-4	5.3		0.20	0.50	1.0	1
06033	Copper	7440-50-8	17.0		0.52	1.0	4.0	1
06034	Iron	7439-89-6	9,740		33.7	100	200	1
06035	Lead	7439-92-1	5.4		0.090	0.25	2.0	1
06036	Magnesium	7439-95-4	5,670		11.7	50.0	200	1
06037	Manganese	7439-96-5	422		0.88	2.0	4.0	1
06039	Nickel	7440-02-0	10.5		0.85	2.0	4.0	1
06040	Potassium	7440-09-7	16,400		66.9	200	400	1
06041	Selenium	7782-49-2	0.96	J	0.44	1.0	4.0	1
06042	Silver	7440-22-4	< 0.25		0.12	0.25	1.0	1
06043	Sodium	7440-23-5	81,700		46.8	100	400	1
06045	Thallium	7440-28-0	< 0.25		0.16	0.25	1.0	1
06048	Vanadium	7440-62-2	19.4		0.20	0.50	1.0	1
06049	Zinc	7440-66-6	167		3.5	7.5	30.0	1
	SW-846 7470A		ug/l		ug/l	ug/l	ug/l	
00259	Mercury	7439-97-6	< 0.10		0.050	0.10	0.20	1
Wet Chemistry	**EPA 218.6**		ug/l		ug/l	ug/l	ug/l	
12868	Hexavalent Chromium	18540-29-9	13.3		0.75	2.5	2.5	50

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06023	Aluminum	SW-846 6020A	1	163560639001A	12/29/2016 07:02	Sarah L Burt	1
06024	Antimony	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06025	Arsenic	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06026	Barium	SW-846 6020A	1	163560639001D	12/23/2016 13:29	Patrick J Engle	1
06027	Beryllium	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06028	Cadmium	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06029	Calcium	SW-846 6020A	1	163560639001B	12/23/2016 13:29	Patrick J Engle	1
06031	Chromium	SW-846 6020A	1	163650639003A	01/03/2017 06:29	Scott P Cuff	1
02828	Trivalent Chromium 6020A	SW-846 6020A	1	170122828001	01/12/2017 13:17	Nina C Haller	1
06032	Cobalt	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06033	Copper	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06034	Iron	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06035	Lead	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06036	Magnesium	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06037	Manganese	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06039	Nickel	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06040	Potassium	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06041	Selenium	SW-846 6020A	1	163560639001B	12/23/2016 13:29	Patrick J Engle	1
06042	Silver	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06043	Sodium	SW-846 6020A	1	163560639001A	12/29/2016 07:02	Sarah L Burt	1
06045	Thallium	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
06048	Vanadium	SW-846 6020A	1	163560639001A	12/29/2016 07:02	Sarah L Burt	1
06049	Zinc	SW-846 6020A	1	163560639001A	12/23/2016 13:29	Patrick J Engle	1
00259	Mercury	SW-846 7470A	1	163565713001	12/31/2016 16:52	Parker D Lindstrom	1
12868	Hexavalent Chromium	EPA 218.6	1	17010987142A	01/10/2017 17:43	Clinton M Wilson	50

Sample Description: WW-20161216-02 Water
Camp Hero

LL Sample # WW 8752888
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:10

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

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Suite 900
Arlington VA 22201

16A04 SDG#: APP16-04

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		ug/l	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	230	60	200	200	10
11997	Benzene	71-43-2	< 10	5	10	10	10
11997	Bromochloromethane	74-97-5	< 20	10	20	50	10
11997	Bromodichloromethane	75-27-4	< 10	5	10	10	10
11997	Bromoform	75-25-2	< 10	5	10	40	10
11997	Bromomethane	74-83-9	< 10	5	10	10	10
11997	2-Butanone	78-93-3	430	30	80	100	10
11997	Carbon Disulfide	75-15-0	< 20	10	20	50	10
11997	Carbon Tetrachloride	56-23-5	< 10	5	10	10	10
11997	Chlorobenzene	108-90-7	< 10	5	10	10	10
11997	Chloroethane	75-00-3	< 10	5	10	10	10
11997	Chloroform	67-66-3	< 10	5	10	10	10

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: WW-20161216-02 Water
Camp Hero

LL Sample # WW 8752888
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:10

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

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3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A04 SDG#: APP16-04

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		ug/l		ug/l	ug/l	ug/l	
11997	Chloromethane	74-87-3	< 10		5	10	10	10
11997	Cyclohexane	110-82-7	< 40		20	40	50	10
11997	1,2-Dibromo-3-chloropropane	96-12-8	< 40		20	40	50	10
11997	Dibromochloromethane	124-48-1	< 10		5	10	10	10
11997	1,2-Dibromoethane	106-93-4	< 10		5	10	10	10
11997	Dichlorodifluoromethane	75-71-8	< 10		5	10	10	10
11997	1,1-Dichloroethane	75-34-3	< 10		5	10	10	10
11997	1,2-Dichloroethane	107-06-2	< 10		5	10	10	10
11997	1,1-Dichloroethene	75-35-4	< 10		5	10	10	10
11997	cis-1,2-Dichloroethene	156-59-2	< 10		5	10	10	10
11997	trans-1,2-Dichloroethene	156-60-5	< 10		5	10	10	10
11997	1,2-Dichloropropane	78-87-5	< 10		5	10	10	10
11997	cis-1,3-Dichloropropene	10061-01-5	< 10		5	10	10	10
11997	trans-1,3-Dichloropropene	10061-02-6	< 10		5	10	10	10
11997	1,4-Dioxane	123-91-1	< 2,000		700	2,000	2,500	10
11997	Ethylbenzene	100-41-4	8	J	5	10	10	10
11997	Freon 113	76-13-1	< 40		20	40	100	10
11997	2-Hexanone	591-78-6	< 80		30	80	100	10
11997	Isopropylbenzene	98-82-8	< 20		10	20	50	10
11997	Methyl Acetate	79-20-9	< 20		10	20	50	10
11997	Methyl Tertiary Butyl Ether	1634-04-4	< 10		5	10	10	10
11997	4-Methyl-2-pentanone	108-10-1	< 80		30	80	100	10
11997	Methylcyclohexane	108-87-2	< 20		10	20	50	10
11997	Methylene Chloride	75-09-2	< 40		20	40	40	10
11997	Styrene	100-42-5	< 20		10	20	50	10
11997	1,1,1,2-Tetrachloroethane	630-20-6	< 10		5	10	10	10
11997	1,1,2,2-Tetrachloroethane	79-34-5	< 10		5	10	10	10
11997	Tetrachloroethene	127-18-4	< 10		5	10	10	10
11997	Toluene	108-88-3	6	J	5	10	10	10
11997	1,2,3-Trichlorobenzene	87-61-6	< 20		10	20	50	10
11997	1,1,1-Trichloroethane	71-55-6	< 10		5	10	10	10
11997	1,1,2-Trichloroethane	79-00-5	< 10		5	10	10	10
11997	Trichloroethene	79-01-6	7	J	5	10	10	10
11997	Trichlorofluoromethane	75-69-4	< 10		5	10	10	10
11997	1,2,3-Trichloropropane	96-18-4	< 20		10	20	50	10
11997	Vinyl Acetate	108-05-4	< 40		20	40	100	10
11997	Vinyl Chloride	75-01-4	< 10		5	10	10	10
11997	m+p-Xylene	179601-23-1	10		5	10	10	10
11997	o-Xylene	95-47-6	6	J	5	10	10	10
11997	Xylene (Total)	1330-20-7	16		5	10	10	10
Reporting limits were raised due to sample foaming.								
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	ug/l	
14242	Acenaphthene	83-32-9	6.5		0.12	0.50	0.62	1
14242	Acenaphthylene	208-96-8	< 0.50		0.12	0.50	0.62	1
14242	Acetophenone	98-86-2	< 1.2		0.62	1.2	1.2	1
14242	Anthracene	120-12-7	2.8		0.12	0.50	0.62	1
14242	Atrazine	1912-24-9	< 5.0		2.5	5.0	6.2	1
14242	Benzaldehyde	100-52-7	< 5.0		1.2	5.0	6.2	1
14242	Benzo(a)anthracene	56-55-3	1.0		0.12	0.50	0.62	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: WW-20161216-02 Water
Camp Hero

LL Sample # WW 8752888
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:10

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

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Suite 900
Arlington VA 22201

16A04 SDG#: APP16-04

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Semivolatiles SW-846 8270D			ug/l		ug/l	ug/l	ug/l	
14242	Benzo(a)pyrene	50-32-8	0.66		0.12	0.50	0.62	1
14242	Benzo(b)fluoranthene	205-99-2	0.80		0.12	0.50	0.62	1
14242	Benzo(g,h,i)perylene	191-24-2	0.31	J	0.12	0.50	0.62	1
14242	Benzo(k)fluoranthene	207-08-9	0.37	J	0.12	0.50	0.62	1
14242	Benzoic acid	65-85-0	< 19		7.5	19	19	1
14242	Benzyl alcohol	100-51-6	< 19		12	19	19	1
14242	1,1'-Biphenyl	92-52-4	28		0.62	1.2	1.2	1
14242	4-Bromophenyl-phenylether	101-55-3	< 1.2		0.62	1.2	1.2	1
14242	Butylbenzylphthalate	85-68-7	< 5.0		2.5	5.0	6.2	1
14242	Di-n-butylphthalate	84-74-2	< 5.0		2.5	5.0	6.2	1
14242	Caprolactam	105-60-2	< 19		6.2	19	19	1
14242	Carbazole	86-74-8	2.5		0.62	1.2	1.2	1
14242	4-Chloro-3-methylphenol	59-50-7	< 1.2		0.62	1.2	1.2	1
14242	4-Chloroaniline	106-47-8	< 5.0		2.5	5.0	5.0	1
14242	bis(2-Chloroethoxy)methane	111-91-1	< 1.2		0.62	1.2	1.2	1
14242	bis(2-Chloroethyl)ether	111-44-4	< 1.2		0.62	1.2	1.2	1
14242	2-Chloronaphthalene	91-58-7	< 1.2		0.50	1.2	1.2	1
14242	2-Chlorophenol	95-57-8	< 1.2		0.62	1.2	1.2	1
14242	4-Chlorophenyl-phenylether	7005-72-3	< 1.2		0.62	1.2	1.2	1
14242	2,2'-oxybis(1-Chloropropane)	108-60-1	< 1.2		0.62	1.2	1.2	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.							
14242	Chrysene	218-01-9	1.2		0.12	0.50	0.62	1
14242	Dibenz(a,h)anthracene	53-70-3	< 0.50		0.12	0.50	0.62	1
14242	Dibenzofuran	132-64-9	8.4		0.62	1.2	1.2	1
14242	1,2-Dichlorobenzene	95-50-1	< 1.2		0.62	1.2	1.2	1
14242	1,3-Dichlorobenzene	541-73-1	< 1.2		0.62	1.2	1.2	1
14242	1,4-Dichlorobenzene	106-46-7	< 1.2		0.62	1.2	1.2	1
14242	3,3'-Dichlorobenzidine	91-94-1	< 5.0		2.5	5.0	6.2	1
14242	2,4-Dichlorophenol	120-83-2	< 1.2		0.62	1.2	1.2	1
14242	Diethylphthalate	84-66-2	< 5.0		2.5	5.0	6.2	1
14242	2,4-Dimethylphenol	105-67-9	< 1.2		0.62	1.2	1.2	1
14242	Dimethylphthalate	131-11-3	< 5.0		2.5	5.0	6.2	1
14242	4,6-Dinitro-2-methylphenol	534-52-1	< 19		6.2	19	19	1
14242	2,4-Dinitrophenol	51-28-5	< 37		12	37	37	1
14242	2,4-Dinitrotoluene	121-14-2	< 5.0		1.2	5.0	6.2	1
14242	2,6-Dinitrotoluene	606-20-2	< 1.2		0.62	1.2	1.2	1
14242	bis(2-Ethylhexyl)phthalate	117-81-7	430		25	50	62	10
14242	Fluoranthene	206-44-0	2.4		0.12	0.50	0.62	1
14242	Fluorene	86-73-7	13		0.12	0.50	0.62	1
14242	Hexachlorobenzene	118-74-1	< 0.50		0.12	0.50	0.62	1
14242	Hexachlorobutadiene	87-68-3	< 1.2		0.62	1.2	1.2	1
14242	Hexachlorocyclopentadiene	77-47-4	< 19		6.2	19	19	1
14242	Hexachloroethane	67-72-1	< 5.0		1.2	5.0	6.2	1
14242	Indeno(1,2,3-cd)pyrene	193-39-5	0.26	J	0.12	0.50	0.62	1
14242	Isophorone	78-59-1	< 1.2		0.62	1.2	1.2	1
14242	1-Methylnaphthalene	90-12-0	110		0.12	0.50	0.62	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: WW-20161216-02 Water
Camp Hero

LL Sample # WW 8752888
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:10

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A04 SDG#: APP16-04

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	ug/l	ug/l	
14242	2-Methylnaphthalene	91-57-6	240	1.2	5.0	6.2	10
14242	2-Methylphenol	95-48-7	< 1.2	0.62	1.2	1.2	1
14242	4-Methylphenol	106-44-5	< 1.2	0.62	1.2	1.2	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14242	Naphthalene	91-20-3	57	0.12	0.50	0.62	1
14242	2-Nitroaniline	88-74-4	< 1.2	0.62	1.2	1.2	1
14242	3-Nitroaniline	99-09-2	< 1.2	0.62	1.2	1.2	1
14242	4-Nitroaniline	100-01-6	< 1.2	0.62	1.2	1.2	1
14242	Nitrobenzene	98-95-3	< 1.2	0.62	1.2	1.2	1
14242	2-Nitrophenol	88-75-5	< 1.2	0.62	1.2	1.2	1
14242	4-Nitrophenol	100-02-7	< 37	12	37	37	1
14242	N-Nitrosodimethylamine	62-75-9	< 5.0	2.5	5.0	6.2	1
14242	N-Nitroso-di-n-propylamine	621-64-7	< 1.2	0.62	1.2	1.2	1
14242	N-Nitrosodiphenylamine	86-30-6	< 1.2	0.62	1.2	1.2	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14242	Di-n-octylphthalate	117-84-0	< 5.0	2.5	5.0	6.2	1
14242	Pentachlorophenol	87-86-5	< 5.0	1.2	5.0	6.2	1
14242	Phenanthrene	85-01-8	24	0.12	0.50	0.62	1
14242	Phenol	108-95-2	< 1.2	0.62	1.2	1.2	1
14242	Pyrene	129-00-0	2.5	0.12	0.50	0.62	1
14242	1,2,4,5-Tetrachlorobenzene	95-94-3	< 1.2	0.62	1.2	1.2	1
14242	2,3,4,6-Tetrachlorophenol	58-90-2	< 1.2	0.62	1.2	1.2	1
14242	1,2,4-Trichlorobenzene	120-82-1	< 1.2	0.62	1.2	1.2	1
14242	2,4,5-Trichlorophenol	95-95-4	< 1.2	0.62	1.2	1.2	1
14242	2,4,6-Trichlorophenol	88-06-2	< 1.2	0.62	1.2	1.2	1
GC/MS Semivolatiles SW-846 8270D SIM			ug/l	ug/l	ug/l	ug/l	
14244	Acenaphthene	83-32-9	5.6	0.012	0.050	0.062	1
14244	Acenaphthylene	208-96-8	< 0.050	0.012	0.050	0.062	1
14244	Anthracene	120-12-7	2.0	0.012	0.050	0.062	1
14244	Benzo(a)anthracene	56-55-3	0.95	0.012	0.050	0.062	1
14244	Benzo(a)pyrene	50-32-8	0.63	0.012	0.050	0.062	1
14244	Benzo(b)fluoranthene	205-99-2	0.80	0.012	0.050	0.062	1
14244	Benzo(g,h,i)perylene	191-24-2	0.30	0.012	0.050	0.062	1
14244	Benzo(k)fluoranthene	207-08-9	0.37	0.012	0.050	0.062	1
14244	Chrysene	218-01-9	0.97	0.012	0.050	0.062	1
14244	Dibenz(a,h)anthracene	53-70-3	0.12	0.012	0.050	0.062	1
14244	Fluoranthene	206-44-0	2.0	0.012	0.050	0.062	1
14244	Fluorene	86-73-7	6.9	0.012	0.050	0.062	1
14244	Indeno(1,2,3-cd)pyrene	193-39-5	0.31	0.012	0.050	0.062	1
14244	1-Methylnaphthalene	90-12-0	130	0.62	2.5	3.1	50
14244	2-Methylnaphthalene	91-57-6	220	0.62	2.5	3.1	50
14244	Naphthalene	91-20-3	67	1.9	3.7	3.7	50
14244	Phenanthrene	85-01-8	26	1.9	3.7	3.7	50
14244	Pyrene	129-00-0	1.9	0.012	0.050	0.062	1

*=This limit was used in the evaluation of the final result

Sample Description: WW-20161216-02 Water
Camp Hero

LL Sample # WW 8752888
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:10

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A04 SDG#: APP16-04

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
	The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken: The sample was re-analyzed and internal standard areas are again outside of the QC acceptance limits, indicating a matrix effect. The reported data is from the initial analysis of the sample.						
Pesticides/PCBs	**SW-846 8081B**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10589	Aldrin	309-00-2	< 0.007	0.002	0.007	0.009	1
10589	Alpha BHC	319-84-6	0.008 JP	0.003	0.007	0.009	1
10589	Beta BHC	319-85-7	0.1 P	0.003	0.007	0.009	1
10589	Gamma BHC - Lindane	58-89-9	0.03 P	0.002	0.007	0.009	1
10589	Alpha Chlordane	5103-71-9	< 0.007	0.003	0.007	0.009	1
10589	Gamma Chlordane	5103-74-2	< 0.02	0.007	0.02	0.02	1
10589	p,p-DDD	72-54-8	< 0.009	0.005	0.009	0.02	1
10589	p,p-DDE	72-55-9	< 0.009	0.005	0.009	0.02	1
10589	p,p-DDT	50-29-3	< 0.009	0.005	0.009	0.02	1
10589	Delta BHC	319-86-8	< 0.007	0.003	0.007	0.009	1
10589	Dieldrin	60-57-1	< 0.009	0.005	0.009	0.02	1
10589	Endosulfan I	959-98-8	< 0.008	0.004	0.008	0.009	1
10589	Endosulfan II	33213-65-9	< 0.03	0.01	0.03	0.03	1
10589	Endosulfan Sulfate	1031-07-8	< 0.01	0.005	0.01	0.02	1
10589	Endrin	72-20-8	< 0.02	0.008	0.02	0.02	1
10589	Endrin Aldehyde	7421-93-4	< 0.04	0.02	0.04	0.09	1
10589	Endrin Ketone	53494-70-5	< 0.009	0.005	0.009	0.02	1
10589	Heptachlor	76-44-8	< 0.007	0.002	0.007	0.009	1
10589	Heptachlor Epoxide	1024-57-3	< 0.007	0.002	0.007	0.009	1
10589	Methoxychlor	72-43-5	< 0.07	0.03	0.07	0.09	1
10589	Toxaphene	8001-35-2	< 0.6	0.3	0.6	0.9	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary.						
Pesticides/PCBs	**SW-846 8082A**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10591	PCB-1016	12674-11-2	< 0.24	0.082	0.24	0.41	1
10591	PCB-1221	11104-28-2	< 0.24	0.082	0.24	0.41	1
10591	PCB-1232	11141-16-5	< 0.33	0.16	0.33	0.41	1
10591	PCB-1242	53469-21-9	< 0.24	0.082	0.24	0.41	1
10591	PCB-1248	12672-29-6	< 0.24	0.082	0.24	0.41	1
10591	PCB-1254	11097-69-1	< 0.24	0.082	0.24	0.41	1
10591	PCB-1260	11096-82-5	< 0.24	0.12	0.24	0.41	1
10591	PCB-1262	37324-23-5	< 0.33	0.16	0.33	0.41	1
10591	PCB-1268	11100-14-4	< 0.26	0.13	0.26	0.41	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. A reduced sample amount of 25 ml was used for the reextract due to the sample matrix. All results are reported from the first trial.						

*=This limit was used in the evaluation of the final result

Sample Description: WW-20161216-02 Water
Camp Hero

LL Sample # WW 8752888
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:10

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A04 SDG#: APP16-04

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Wet Chemistry	**SW-846 9012B**		ug/l	ug/l	ug/l	ug/l	
10704	Total Cyanide in Water	57-12-5	< 10	5.0	10	10	1

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs 8260C Water	SW-846 8260C	1	L163642AA	12/29/2016 19:18	Kerri E Legerlotz	10
14242	SVOCs 8270D Water	SW-846 8270D	1	16355WAJ026	12/22/2016 13:30	Holly B Ziegler	1
14242	SVOCs 8270D Water	SW-846 8270D	1	16355WAJ026	12/28/2016 10:46	Holly B Ziegler	10
14244	PAH SIM 8270D with Full Scan	SW-846 8270D SIM	1	17006WAF026	01/12/2017 18:29	Holly B Ziegler	1
14244	PAH SIM 8270D with Full Scan	SW-846 8270D SIM	1	17006WAF026	01/12/2017 20:25	Holly B Ziegler	50
10589	OC Pesticides in Water	SW-846 8081B	1	163550022A	12/23/2016 10:59	Andrea L Jones	1
10591	PCBs in Water by 8082A	SW-846 8082A	1	163560010A	12/23/2016 02:59	Jessica L Miller	1
10704	Total Cyanide in Water	SW-846 9012B	1	16363960101A	12/28/2016 13:56	Dein K Bernot	1

Sample Description: WW-20161216-02 Water
Camp Hero

LL Sample # WW 8752889
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:10

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A05 SDG#: APP16-05

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals	**SW-846 6020A**		ug/l	ug/l	ug/l	ug/l	
06023	Aluminum	7429-90-5	105,000	23.1	50.0	200	1
06024	Antimony	7440-36-0	0.49 J	0.48	1.0	2.0	1
06025	Arsenic	7440-38-2	32.9	0.68	2.0	4.0	1
06026	Barium	7440-39-3	828	0.96	2.0	4.0	1
06027	Beryllium	7440-41-7	4.7	0.11	0.25	1.0	1
06028	Cadmium	7440-43-9	2.5	0.19	0.50	1.0	1
06029	Calcium	7440-70-2	80,400	98.1	200	400	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: WW-20161216-02 Water
Camp Hero

LL Sample # WW 8752889
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:10

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A05 SDG#: APP16-05

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals	**SW-846 6020A**		ug/l		ug/l	ug/l	ug/l	
06031	Chromium	7440-47-3	251		0.59	2.0	4.0	1
02828	Trivalent Chromium 6020A	16065-83-1	230		0.59	2.5	4.0	1
	The Trivalent Chromium result is calculated by subtracting Hexavalent Chromium from Total Chromium.							
06032	Cobalt	7440-48-4	63.1		0.20	0.50	1.0	1
06033	Copper	7440-50-8	149		0.52	1.0	4.0	1
06034	Iron	7439-89-6	139,000		33.7	100	200	1
06035	Lead	7439-92-1	70.2		0.090	0.25	2.0	1
06036	Magnesium	7439-95-4	46,800		11.7	50.0	200	1
06037	Manganese	7439-96-5	2,750		4.4	10.0	20.0	5
06039	Nickel	7440-02-0	137		0.85	2.0	4.0	1
06040	Potassium	7440-09-7	91,700		66.9	200	400	1
06041	Selenium	7782-49-2	1.7	J	0.44	1.0	4.0	1
06042	Silver	7440-22-4	0.17	J	0.12	0.25	1.0	1
06043	Sodium	7440-23-5	109,000		46.8	100	400	1
06045	Thallium	7440-28-0	2.2		0.16	0.25	1.0	1
06048	Vanadium	7440-62-2	274		0.20	0.50	1.0	1
06049	Zinc	7440-66-6	445		3.5	7.5	30.0	1
	SW-846 7470A		ug/l		ug/l	ug/l	ug/l	
00259	Mercury	7439-97-6	0.11	J	0.050	0.10	0.20	1
Wet Chemistry	**EPA 218.6**		ug/l		ug/l	ug/l	ug/l	
12868	Hexavalent Chromium	18540-29-9	17.1		0.75	2.5	2.5	50

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06023	Aluminum	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06024	Antimony	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06025	Arsenic	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06026	Barium	SW-846 6020A	1	163560639002D	12/29/2016 00:11	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06028	Cadmium	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06029	Calcium	SW-846 6020A	1	163560639002B	12/29/2016 00:11	Sarah L Burt	1
06031	Chromium	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
02828	Trivalent Chromium 6020A	SW-846 6020A	1	170122828001	01/12/2017 13:49	Nina C Haller	1
06032	Cobalt	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06033	Copper	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06034	Iron	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06035	Lead	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06036	Magnesium	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06037	Manganese	SW-846 6020A	1	163560639002A	12/29/2016 10:32	Scott P Cuff	5

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06039	Nickel	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06040	Potassium	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06041	Selenium	SW-846 6020A	1	163560639002B	12/29/2016 00:11	Sarah L Burt	1
06042	Silver	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06043	Sodium	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06045	Thallium	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06048	Vanadium	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
06049	Zinc	SW-846 6020A	1	163560639002A	12/29/2016 00:11	Sarah L Burt	1
00259	Mercury	SW-846 7470A	1	163565713002	12/31/2016 17:38	Parker D Lindstrom	1
12868	Hexavalent Chromium	EPA 218.6	1	17010987142A	01/10/2017 19:04	Clinton M Wilson	50

Sample Description: ST-20161216-01 Soil
Camp Hero

LL Sample # SW 8752890
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:20

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A06 SDG#: APP16-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		mg/kg	mg/kg	mg/kg	mg/kg	
11995	Acetone	67-64-1	0.014 J	0.01	0.023	0.028	1.28
11995	Benzene	71-43-2	< 0.003	0.0007	0.003	0.007	1.28
11995	Bromochloromethane	74-97-5	< 0.003	0.001	0.003	0.007	1.28
11995	Bromodichloromethane	75-27-4	< 0.003	0.001	0.003	0.007	1.28
11995	Bromoform	75-25-2	< 0.003	0.001	0.003	0.007	1.28
11995	Bromomethane	74-83-9	< 0.006	0.003	0.006	0.007	1.28
11995	2-Butanone	78-93-3	< 0.011	0.006	0.011	0.014	1.28
11995	Carbon Disulfide	75-15-0	< 0.003	0.001	0.003	0.007	1.28
11995	Carbon Tetrachloride	56-23-5	< 0.003	0.001	0.003	0.007	1.28
11995	Chlorobenzene	108-90-7	< 0.003	0.001	0.003	0.007	1.28
11995	Chloroethane	75-00-3	< 0.006	0.003	0.006	0.007	1.28
11995	Chloroform	67-66-3	< 0.003	0.001	0.003	0.007	1.28
11995	Chloromethane	74-87-3	< 0.006	0.003	0.006	0.007	1.28
11995	Cyclohexane	110-82-7	< 0.003	0.001	0.003	0.007	1.28
11995	1,2-Dibromo-3-chloropropane	96-12-8	< 0.006	0.003	0.006	0.007	1.28
11995	Dibromochloromethane	124-48-1	< 0.003	0.001	0.003	0.007	1.28
11995	1,2-Dibromoethane	106-93-4	< 0.003	0.001	0.003	0.007	1.28
11995	Dichlorodifluoromethane	75-71-8	< 0.006	0.003	0.006	0.007	1.28
11995	1,1-Dichloroethane	75-34-3	< 0.003	0.001	0.003	0.007	1.28
11995	1,2-Dichloroethane	107-06-2	< 0.003	0.001	0.003	0.007	1.28
11995	1,1-Dichloroethene	75-35-4	< 0.003	0.001	0.003	0.007	1.28
11995	cis-1,2-Dichloroethene	156-59-2	< 0.003	0.001	0.003	0.007	1.28
11995	trans-1,2-Dichloroethene	156-60-5	< 0.003	0.001	0.003	0.007	1.28
11995	1,2-Dichloropropane	78-87-5	< 0.003	0.001	0.003	0.007	1.28
11995	cis-1,3-Dichloropropene	10061-01-5	< 0.003	0.001	0.003	0.007	1.28
11995	trans-1,3-Dichloropropene	10061-02-6	< 0.003	0.001	0.003	0.007	1.28
11995	1,4-Dioxane	123-91-1	< 0.28	0.099	0.28	0.35	1.28
11995	Ethylbenzene	100-41-4	< 0.003	0.001	0.003	0.007	1.28
11995	Freon 113	76-13-1	< 0.006	0.003	0.006	0.014	1.28
11995	2-Hexanone	591-78-6	< 0.011	0.004	0.011	0.014	1.28
11995	Isopropylbenzene	98-82-8	< 0.003	0.001	0.003	0.007	1.28
11995	Methyl Acetate	79-20-9	< 0.006	0.003	0.006	0.007	1.28

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: ST-20161216-01 Soil
Camp Hero

LL Sample # SW 8752890
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:20

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A06 SDG#: APP16-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		mg/kg	mg/kg	mg/kg	mg/kg	
11995	Methyl Tertiary Butyl Ether	1634-04-4	< 0.003	0.0007	0.003	0.007	1.28
11995	4-Methyl-2-pentanone	108-10-1	< 0.011	0.004	0.011	0.014	1.28
11995	Methylcyclohexane	108-87-2	< 0.003	0.001	0.003	0.007	1.28
11995	Methylene Chloride	75-09-2	< 0.006	0.003	0.006	0.007	1.28
11995	Styrene	100-42-5	< 0.003	0.001	0.003	0.007	1.28
11995	1,1,1,2-Tetrachloroethane	630-20-6	< 0.003	0.001	0.003	0.007	1.28
11995	1,1,2,2-Tetrachloroethane	79-34-5	< 0.003	0.001	0.003	0.007	1.28
11995	Tetrachloroethene	127-18-4	< 0.003	0.001	0.003	0.007	1.28
11995	Toluene	108-88-3	< 0.003	0.001	0.003	0.007	1.28
11995	1,2,3-Trichlorobenzene	87-61-6	< 0.003	0.001	0.003	0.007	1.28
11995	1,1,1-Trichloroethane	71-55-6	< 0.003	0.001	0.003	0.007	1.28
11995	1,1,2-Trichloroethane	79-00-5	< 0.003	0.001	0.003	0.007	1.28
11995	Trichloroethene	79-01-6	< 0.003	0.001	0.003	0.007	1.28
11995	Trichlorofluoromethane	75-69-4	< 0.006	0.003	0.006	0.007	1.28
11995	1,2,3-Trichloropropane	96-18-4	< 0.003	0.001	0.003	0.007	1.28
11995	Vinyl Acetate	108-05-4	< 0.006	0.003	0.006	0.014	1.28
11995	Vinyl Chloride	75-01-4	< 0.003	0.001	0.003	0.007	1.28
11995	m+p-Xylene	179601-23-1	< 0.003	0.001	0.003	0.007	1.28
11995	o-Xylene	95-47-6	< 0.003	0.001	0.003	0.007	1.28
11995	Xylene (Total)	1330-20-7	< 0.003	0.001	0.003	0.007	1.28

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC/DoD Standards. The following analytes are accepted based on this allowance: 4-Methyl-2-Pentanone

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated:
Acetone

GC/MS Semivolatiles	**SW-846 8270D**		mg/kg	mg/kg	mg/kg	mg/kg	
10726	Acenaphthene	83-32-9	0.041	0.004	0.015	0.019	1
10726	Acenaphthylene	208-96-8	< 0.015	0.004	0.015	0.019	1
10726	Acetophenone	98-86-2	< 0.036	0.018	0.036	0.036	1
10726	Anthracene	120-12-7	0.026	0.004	0.015	0.019	1
10726	Atrazine	1912-24-9	< 0.15	0.036	0.15	0.18	1
10726	Benzaldehyde	100-52-7	< 0.15	0.073	0.15	0.18	1
10726	Benzo(a)anthracene	56-55-3	0.008 J	0.004	0.015	0.019	1
10726	Benzo(a)pyrene	50-32-8	0.007 J	0.004	0.015	0.019	1
10726	Benzo(b)fluoranthene	205-99-2	0.01 J	0.004	0.015	0.019	1
10726	Benzo(g,h,i)perylene	191-24-2	< 0.015	0.004	0.015	0.019	1
10726	Benzo(k)fluoranthene	207-08-9	< 0.015	0.004	0.015	0.019	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: ST-20161216-01 Soil
Camp Hero

LL Sample # SW 8752890
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:20

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A06 SDG#: APP16-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
GC/MS Semivolatiles SW-846 8270D			mg/kg	mg/kg	mg/kg	mg/kg	
10726	Benzoic acid	65-85-0	< 0.54	0.18	0.54	0.54	1
10726	Benzyl alcohol	100-51-6	< 0.54	0.18	0.54	0.54	1
10726	1,1'-Biphenyl	92-52-4	0.12	0.018	0.036	0.036	1
10726	4-Bromophenyl-phenylether	101-55-3	< 0.036	0.018	0.036	0.036	1
10726	Butylbenzylphthalate	85-68-7	< 0.15	0.073	0.15	0.18	1
10726	Di-n-butylphthalate	84-74-2	< 0.15	0.073	0.15	0.18	1
10726	Caprolactam	105-60-2	< 0.15	0.036	0.15	0.18	1
10726	Carbazole	86-74-8	< 0.036	0.018	0.036	0.036	1
10726	4-Chloro-3-methylphenol	59-50-7	< 0.036	0.018	0.036	0.036	1
10726	4-Chloroaniline	106-47-8	< 0.073	0.036	0.073	0.073	1
10726	bis(2-Chloroethoxy)methane	111-91-1	< 0.036	0.018	0.036	0.036	1
10726	bis(2-Chloroethyl)ether	111-44-4	< 0.036	0.018	0.036	0.036	1
10726	2-Chloronaphthalene	91-58-7	< 0.015	0.007	0.015	0.036	1
10726	2-Chlorophenol	95-57-8	< 0.036	0.018	0.036	0.036	1
10726	4-Chlorophenyl-phenylether	7005-72-3	< 0.036	0.018	0.036	0.036	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.036	0.018	0.036	0.036	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10726	Chrysene	218-01-9	0.01 J	0.004	0.015	0.019	1
10726	Dibenz(a,h)anthracene	53-70-3	< 0.015	0.004	0.015	0.019	1
10726	Dibenzofuran	132-64-9	0.064	0.018	0.036	0.036	1
10726	1,2-Dichlorobenzene	95-50-1	< 0.036	0.018	0.036	0.036	1
10726	1,3-Dichlorobenzene	541-73-1	< 0.036	0.018	0.036	0.036	1
10726	1,4-Dichlorobenzene	106-46-7	< 0.036	0.018	0.036	0.036	1
10726	3,3'-Dichlorobenzidine	91-94-1	< 0.36	0.11	0.36	0.36	1
10726	2,4-Dichlorophenol	120-83-2	< 0.036	0.018	0.036	0.036	1
10726	Diethylphthalate	84-66-2	< 0.15	0.073	0.15	0.18	1
10726	2,4-Dimethylphenol	105-67-9	< 0.036	0.018	0.036	0.036	1
10726	Dimethylphthalate	131-11-3	< 0.15	0.073	0.15	0.18	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	< 0.54	0.18	0.54	0.54	1
10726	2,4-Dinitrophenol	51-28-5	< 1.1	0.33	1.1	1.1	1
10726	2,4-Dinitrotoluene	121-14-2	< 0.18	0.073	0.18	0.18	1
10726	2,6-Dinitrotoluene	606-20-2	< 0.036	0.018	0.036	0.036	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	< 0.15	0.073	0.15	0.19	1
10726	Fluoranthene	206-44-0	0.021	0.004	0.015	0.019	1
10726	Fluorene	86-73-7	0.096	0.004	0.015	0.019	1
10726	Hexachlorobenzene	118-74-1	< 0.015	0.004	0.015	0.019	1
10726	Hexachlorobutadiene	87-68-3	< 0.036	0.018	0.036	0.036	1
10726	Hexachlorocyclopentadiene	77-47-4	< 0.54	0.18	0.54	0.54	1
10726	Hexachloroethane	67-72-1	< 0.15	0.036	0.15	0.18	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	0.004 J	0.004	0.015	0.019	1
10726	Isophorone	78-59-1	< 0.036	0.018	0.036	0.036	1
10726	1-Methylnaphthalene	90-12-0	0.30	0.004	0.015	0.019	1
10726	2-Methylnaphthalene	91-57-6	0.51	0.004	0.015	0.019	1
10726	2-Methylphenol	95-48-7	< 0.036	0.018	0.036	0.036	1
10726	4-Methylphenol	106-44-5	< 0.036	0.018	0.036	0.036	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: ST-20161216-01 Soil
Camp Hero

LL Sample # SW 8752890
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:20

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A06 SDG#: APP16-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
GC/MS Semivolatiles SW-846 8270D			mg/kg	mg/kg	mg/kg	mg/kg	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10726	Naphthalene	91-20-3	0.089	0.004	0.015	0.019	1
10726	2-Nitroaniline	88-74-4	< 0.036	0.018	0.036	0.036	1
10726	3-Nitroaniline	99-09-2	< 0.15	0.073	0.15	0.18	1
10726	4-Nitroaniline	100-01-6	< 0.15	0.073	0.15	0.18	1
10726	Nitrobenzene	98-95-3	< 0.036	0.018	0.036	0.036	1
10726	2-Nitrophenol	88-75-5	< 0.036	0.018	0.036	0.036	1
10726	4-Nitrophenol	100-02-7	< 0.54	0.18	0.54	0.54	1
10726	N-Nitrosodimethylamine	62-75-9	< 0.18	0.073	0.18	0.18	1
10726	N-Nitroso-di-n-propylamine	621-64-7	< 0.036	0.018	0.036	0.036	1
10726	N-Nitrosodiphenylamine	86-30-6	< 0.036	0.018	0.036	0.036	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10726	Di-n-octylphthalate	117-84-0	< 0.15	0.073	0.15	0.18	1
10726	Pentachlorophenol	87-86-5	< 0.15	0.036	0.15	0.19	1
10726	Phenanthrene	85-01-8	0.25	0.004	0.015	0.019	1
10726	Phenol	108-95-2	< 0.036	0.018	0.036	0.036	1
10726	Pyrene	129-00-0	0.028	0.004	0.015	0.019	1
10726	1,2,4,5-Tetrachlorobenzene	95-94-3	< 0.036	0.018	0.036	0.036	1
10726	2,3,4,6-Tetrachlorophenol	58-90-2	< 0.15	0.073	0.15	0.18	1
10726	1,2,4-Trichlorobenzene	120-82-1	< 0.036	0.018	0.036	0.036	1
10726	2,4,5-Trichlorophenol	95-95-4	< 0.036	0.018	0.036	0.036	1
10726	2,4,6-Trichlorophenol	88-06-2	< 0.036	0.018	0.036	0.036	1
GC/MS Semivolatiles SW-846 8270D SIM			mg/kg	mg/kg	mg/kg	mg/kg	
12969	Acenaphthene	83-32-9	0.048	0.00073	0.0015	0.0018	1
12969	Acenaphthylene	208-96-8	< 0.0015	0.00036	0.0015	0.0018	1
12969	Anthracene	120-12-7	0.021	0.00036	0.0015	0.0018	1
12969	Benzo(a)anthracene	56-55-3	0.0064	0.00073	0.0015	0.0018	1
12969	Benzo(a)pyrene	50-32-8	0.0053	0.00073	0.0015	0.0018	1
12969	Benzo(b)fluoranthene	205-99-2	0.0086	0.00073	0.0015	0.0018	1
12969	Benzo(g,h,i)perylene	191-24-2	0.0021	0.00073	0.0015	0.0018	1
12969	Benzo(k)fluoranthene	207-08-9	0.0035	0.00073	0.0015	0.0018	1
12969	Chrysene	218-01-9	0.0075	0.00036	0.0015	0.0018	1
12969	Dibenz(a,h)anthracene	53-70-3	0.00074 J	0.00073	0.0015	0.0018	1
12969	Fluoranthene	206-44-0	0.023	0.00073	0.0015	0.0018	1
12969	Fluorene	86-73-7	0.12	0.00073	0.0015	0.0018	1
12969	Indeno(1,2,3-cd)pyrene	193-39-5	0.0021	0.00073	0.0015	0.0018	1
12969	1-Methylnaphthalene	90-12-0	0.23	0.00073	0.0015	0.0018	1
12969	2-Methylnaphthalene	91-57-6	0.56	0.0036	0.0073	0.0091	5
12969	Naphthalene	91-20-3	0.10	0.00073	0.0015	0.0018	1
12969	Phenanthrene	85-01-8	0.26	0.00073	0.0015	0.0018	1
12969	Pyrene	129-00-0	0.028	0.00036	0.0015	0.0018	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC/DoD Standards. The following analytes are accepted based on this

*=This limit was used in the evaluation of the final result

Sample Description: ST-20161216-01 Soil
Camp Hero

LL Sample # SW 8752890
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:20

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A06 SDG#: APP16-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
	allowance: Acenaphthene						
Pesticides/PCBs	**SW-846 8081B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10590	Aldrin	309-00-2	< 0.00066	0.00019	0.00066	0.00091	1
10590	Alpha BHC	319-84-6	< 0.00066	0.00019	0.00066	0.00091	1
10590	Beta BHC	319-85-7	< 0.00099	0.00033	0.00099	0.0011	1
10590	Gamma BHC - Lindane	58-89-9	0.00042 JP	0.00019	0.00066	0.00091	1
10590	Alpha Chlordane	5103-71-9	< 0.00066	0.00019	0.00066	0.00091	1
10590	Gamma Chlordane	5103-74-2	0.00087 JP	0.00019	0.00066	0.00091	1
10590	p,p-DDD	72-54-8	< 0.0013	0.00036	0.0013	0.0019	1
10590	p,p-DDE	72-55-9	0.00066 J	0.00036	0.0013	0.0019	1
10590	p,p-DDT	50-29-3	< 0.0013	0.00038	0.0013	0.0019	1
10590	Delta BHC	319-86-8	< 0.00099	0.00049	0.00099	0.00099	1
10590	Dieldrin	60-57-1	< 0.0013	0.00036	0.0013	0.0019	1
10590	Endosulfan I	959-98-8	0.00043 J	0.00024	0.00066	0.00091	1
10590	Endosulfan II	33213-65-9	< 0.0013	0.00036	0.0013	0.0019	1
10590	Endosulfan Sulfate	1031-07-8	< 0.0013	0.00036	0.0013	0.0019	1
10590	Endrin	72-20-8	< 0.0013	0.00036	0.0013	0.0019	1
10590	Endrin Aldehyde	7421-93-4	< 0.0013	0.00036	0.0013	0.0019	1
10590	Endrin Ketone	53494-70-5	< 0.0020	0.00066	0.0020	0.0020	1
10590	Heptachlor	76-44-8	< 0.00066	0.00019	0.00066	0.00091	1
10590	Heptachlor Epoxide	1024-57-3	0.00039 JP	0.00019	0.00066	0.00091	1
10590	Methoxychlor	72-43-5	< 0.0071	0.0019	0.0071	0.0074	1
10590	Toxaphene	8001-35-2	< 0.031	0.015	0.031	0.036	1
Pesticides/PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	< 0.011	0.0039	0.011	0.019	1
10885	PCB-1221	11104-28-2	< 0.011	0.0050	0.011	0.019	1
10885	PCB-1232	11141-16-5	< 0.017	0.0087	0.017	0.019	1
10885	PCB-1242	53469-21-9	< 0.011	0.0036	0.011	0.019	1
10885	PCB-1248	12672-29-6	< 0.011	0.0036	0.011	0.019	1
10885	PCB-1254	11097-69-1	< 0.011	0.0036	0.011	0.019	1
10885	PCB-1260	11096-82-5	< 0.011	0.0053	0.011	0.019	1
10885	PCB-1262	37324-23-5	< 0.011	0.0036	0.011	0.019	1
10885	PCB-1268	11100-14-4	< 0.011	0.0036	0.011	0.019	1
Metals	**SW-846 6020A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06123	Aluminum	7429-90-5	19,600	4.71	10.2	40.8	2
06124	Antimony	7440-36-0	< 0.204	0.100	0.204	0.408	2
06125	Arsenic	7440-38-2	6.03	0.151	0.408	0.816	2
06126	Barium	7440-39-3	174	0.163	0.408	0.816	2
06127	Beryllium	7440-41-7	0.836	0.0220	0.0510	0.204	2
06128	Cadmium	7440-43-9	0.0744 J	0.0396	0.102	0.204	2
06129	Calcium	7440-70-2	8,160	20.0	40.8	81.6	2
06131	Chromium	7440-47-3	40.7	0.121	0.204	0.816	2
02829	Trivalent Chromium 6020A	16065-83-1	39.9	0.15	0.43	0.82	1
	The Trivalent Chromium result is calculated by subtracting Hexavalent Chromium from Total Chromium.						
06132	Cobalt	7440-48-4	11.3	0.0410	0.102	0.204	2

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: ST-20161216-01 Soil
Camp Hero

LL Sample # SW 8752890
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:20

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A06 SDG#: APP16-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
Metals	**SW-846 6020A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	25.0	0.103	0.204	0.816	2
06134	Iron	7439-89-6	26,900	6.87	20.4	40.8	2
06135	Lead	7439-92-1	8.56	0.0298	0.0510	0.408	2
06136	Magnesium	7439-95-4	8,200	2.41	10.2	40.8	2
06137	Manganese	7439-96-5	456	0.896	1.02	4.08	10
06139	Nickel	7440-02-0	26.0	0.170	0.204	0.816	2
06140	Potassium	7440-09-7	7,150	9.61	20.4	81.6	2
06141	Selenium	7782-49-2	< 0.204	0.0891	0.204	0.816	2
06142	Silver	7440-22-4	< 0.0510	0.0241	0.0510	0.204	2
06143	Sodium	7440-23-5	358	9.54	20.4	81.6	2
06145	Thallium	7440-28-0	0.344	0.0296	0.0510	0.204	2
06148	Vanadium	7440-62-2	58.3	0.0385	0.102	0.204	2
06149	Zinc	7440-66-6	61.2	1.29	3.06	6.12	2
	SW-846 7471B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	< 0.0178	0.0107	0.0178	0.107	1
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.79	0.15	0.43	0.43	1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10705	Total Cyanide in Solids	57-12-5	< 0.52	0.19	0.52	0.52	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	**%**	
00111	Moisture	n.a.	9.2	0.50	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

Eurofins Lancaster Laboratories Environmental, LLC is responsible only for the certified testing of samples. We are not directly responsible for the integrity of the sample prior to laboratory receipt. Any reported concentrations
less than 200 ug/kg may be biased low if they were not collected according to EPA
5035/5035A specifications.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	VOCs 8260C Soil	SW-846 8260C	1	A163611AA	12/26/2016 15:15	Jennifer K Howe	1.28
10726	SVOCs 8270D Soil	SW-846 8270D	1	16357SLH026	12/28/2016 02:23	Anthony P Bauer	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12969	PAH SIM 8270D with Full Scan	SW-846 8270D SIM	1	17006SLD026	01/14/2017 00:55	Edward C Monborne	1
12969	PAH SIM 8270D with Full Scan	SW-846 8270D SIM	1	17006SLD026	01/15/2017 20:18	William H Saadeh	5
10590	OC Pesticides in Soils	SW-846 8081B	1	163630012A	01/06/2017 22:14	Lisa A Reinert	1
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	163640015A	12/30/2016 17:22	Jessica L Miller	1
06123	Aluminum	SW-846 6020A	1	163560637003A	12/29/2016 03:42	Sarah L Burt	2
06124	Antimony	SW-846 6020A	1	163560637003A	12/29/2016 03:42	Sarah L Burt	2
06125	Arsenic	SW-846 6020A	1	163560637003A	12/29/2016 12:24	Scott P Cuff	2
06126	Barium	SW-846 6020A	1	163560637003D	12/29/2016 03:42	Sarah L Burt	2
06127	Beryllium	SW-846 6020A	1	163560637003A	12/29/2016 03:42	Sarah L Burt	2
06128	Cadmium	SW-846 6020A	1	163560637003A	12/29/2016 12:24	Scott P Cuff	2
06129	Calcium	SW-846 6020A	1	163560637003B	12/29/2016 12:24	Scott P Cuff	2
06131	Chromium	SW-846 6020A	1	163560637003A	12/30/2016 07:22	Scott P Cuff	2
02829	Trivalent Chromium 6020A	SW-846 6020A	1	170122829001	01/12/2017 13:56	Nina C Haller	1
06132	Cobalt	SW-846 6020A	1	163560637003A	12/29/2016 12:24	Scott P Cuff	2
06133	Copper	SW-846 6020A	1	163560637003A	12/29/2016 12:24	Scott P Cuff	2
06134	Iron	SW-846 6020A	1	163560637003A	12/29/2016 03:42	Sarah L Burt	2
06135	Lead	SW-846 6020A	1	163560637003A	12/29/2016 03:42	Sarah L Burt	2
06136	Magnesium	SW-846 6020A	1	163560637003A	12/29/2016 03:42	Sarah L Burt	2
06137	Manganese	SW-846 6020A	1	163560637003A	12/30/2016 07:24	Scott P Cuff	10
06139	Nickel	SW-846 6020A	1	163560637003A	12/29/2016 12:24	Scott P Cuff	2
06140	Potassium	SW-846 6020A	1	163560637003A	12/30/2016 07:22	Scott P Cuff	2
06141	Selenium	SW-846 6020A	1	163560637003B	12/29/2016 03:42	Sarah L Burt	2
06142	Silver	SW-846 6020A	1	163560637003A	12/29/2016 03:42	Sarah L Burt	2
06143	Sodium	SW-846 6020A	1	163560637003A	12/30/2016 07:22	Scott P Cuff	2
06145	Thallium	SW-846 6020A	1	163560637003A	12/29/2016 03:42	Sarah L Burt	2
06148	Vanadium	SW-846 6020A	1	163560637003A	12/30/2016 07:22	Scott P Cuff	2
06149	Zinc	SW-846 6020A	1	163560637003A	12/29/2016 03:42	Sarah L Burt	2
00159	Mercury	SW-846 7471B	1	163560638002	12/22/2016 12:49	Damary Valentin	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	17007243201A	01/11/2017 01:15	Clinton M Wilson	1
10705	Total Cyanide in Solids	SW-846 9012B	1	16363960201A	12/28/2016 14:09	Dein K Bernot	1
00111	Moisture	SM 2540 G-1997	1	16357820007B	12/22/2016 14:11	Larry E Bevins	1

Sample Description: ST-20161216-02 Soil
Camp Hero

LL Sample # SW 8752893
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:30

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A09 SDG#: APP16-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		mg/kg	mg/kg	mg/kg	mg/kg	
11995	Acetone	67-64-1	< 0.75	0.33	0.75	0.94	42.02
11995	Benzene	71-43-2	< 0.094	0.023	0.094	0.23	42.02
11995	Bromochloromethane	74-97-5	< 0.094	0.047	0.094	0.23	42.02
11995	Bromodichloromethane	75-27-4	< 0.094	0.047	0.094	0.23	42.02
11995	Bromoform	75-25-2	< 0.094	0.047	0.094	0.23	42.02
11995	Bromomethane	74-83-9	< 0.19	0.094	0.19	0.23	42.02
11995	2-Butanone	78-93-3	< 0.38	0.19	0.38	0.47	42.02

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: ST-20161216-02 Soil
Camp Hero

LL Sample # SW 8752893
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:30

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A09 SDG#: APP16-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
GC/MS Volatiles	**SW-846 8260C**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
11995	Carbon Disulfide	75-15-0	< 0.094	0.047	0.094	0.23	42.02
11995	Carbon Tetrachloride	56-23-5	< 0.094	0.047	0.094	0.23	42.02
11995	Chlorobenzene	108-90-7	< 0.094	0.047	0.094	0.23	42.02
11995	Chloroethane	75-00-3	< 0.19	0.094	0.19	0.23	42.02
11995	Chloroform	67-66-3	< 0.094	0.047	0.094	0.23	42.02
11995	Chloromethane	74-87-3	< 0.19	0.094	0.19	0.23	42.02
11995	Cyclohexane	110-82-7	0.29	0.047	0.094	0.23	42.02
11995	1,2-Dibromo-3-chloropropane	96-12-8	< 0.19	0.094	0.19	0.23	42.02
11995	Dibromochloromethane	124-48-1	< 0.094	0.047	0.094	0.23	42.02
11995	1,2-Dibromoethane	106-93-4	< 0.094	0.047	0.094	0.23	42.02
11995	Dichlorodifluoromethane	75-71-8	< 0.19	0.094	0.19	0.23	42.02
11995	1,1-Dichloroethane	75-34-3	< 0.094	0.047	0.094	0.23	42.02
11995	1,2-Dichloroethane	107-06-2	< 0.094	0.047	0.094	0.23	42.02
11995	1,1-Dichloroethene	75-35-4	< 0.094	0.047	0.094	0.23	42.02
11995	cis-1,2-Dichloroethene	156-59-2	< 0.094	0.047	0.094	0.23	42.02
11995	trans-1,2-Dichloroethene	156-60-5	< 0.094	0.047	0.094	0.23	42.02
11995	1,2-Dichloropropane	78-87-5	< 0.094	0.047	0.094	0.23	42.02
11995	cis-1,3-Dichloropropene	10061-01-5	< 0.094	0.047	0.094	0.23	42.02
11995	trans-1,3-Dichloropropene	10061-02-6	< 0.094	0.047	0.094	0.23	42.02
11995	1,4-Dioxane	123-91-1	< 9.4	3.3	9.4	12	42.02
11995	Ethylbenzene	100-41-4	0.56	0.047	0.094	0.23	42.02
11995	Freon 113	76-13-1	< 0.19	0.094	0.19	0.47	42.02
11995	2-Hexanone	591-78-6	< 0.38	0.14	0.38	0.47	42.02
11995	Isopropylbenzene	98-82-8	0.38	0.047	0.094	0.23	42.02
11995	Methyl Acetate	79-20-9	< 0.19	0.094	0.19	0.23	42.02
11995	Methyl Tertiary Butyl Ether	1634-04-4	< 0.094	0.023	0.094	0.23	42.02
11995	4-Methyl-2-pentanone	108-10-1	< 0.38	0.14	0.38	0.47	42.02
11995	Methylcyclohexane	108-87-2	1.3	0.047	0.094	0.23	42.02
11995	Methylene Chloride	75-09-2	< 0.19	0.094	0.19	0.23	42.02
11995	Styrene	100-42-5	< 0.094	0.047	0.094	0.23	42.02
11995	1,1,1,2-Tetrachloroethane	630-20-6	< 0.094	0.047	0.094	0.23	42.02
11995	1,1,2,2-Tetrachloroethane	79-34-5	< 0.094	0.047	0.094	0.23	42.02
11995	Tetrachloroethene	127-18-4	< 0.094	0.047	0.094	0.23	42.02
11995	Toluene	108-88-3	< 0.094	0.047	0.094	0.23	42.02
11995	1,2,3-Trichlorobenzene	87-61-6	< 0.094	0.047	0.094	0.23	42.02
11995	1,1,1-Trichloroethane	71-55-6	< 0.094	0.047	0.094	0.23	42.02
11995	1,1,2-Trichloroethane	79-00-5	< 0.094	0.047	0.094	0.23	42.02
11995	Trichloroethene	79-01-6	< 0.094	0.047	0.094	0.23	42.02
11995	Trichlorofluoromethane	75-69-4	< 0.19	0.094	0.19	0.23	42.02
11995	1,2,3-Trichloropropane	96-18-4	< 0.094	0.047	0.094	0.23	42.02
11995	Vinyl Acetate	108-05-4	< 0.19	0.094	0.19	0.47	42.02
11995	Vinyl Chloride	75-01-4	< 0.094	0.047	0.094	0.23	42.02
11995	m+p-Xylene	179601-23-1	0.63	0.047	0.094	0.23	42.02
11995	o-Xylene	95-47-6	0.10 J	0.047	0.094	0.23	42.02
11995	Xylene (Total)	1330-20-7	0.73	0.047	0.094	0.23	42.02
GC/MS Semivolatiles	**SW-846 8270D**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10726	Acenaphthene	83-32-9	0.83	0.004	0.015	0.019	1
10726	Acenaphthylene	208-96-8	< 0.015	0.004	0.015	0.019	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: ST-20161216-02 Soil
Camp Hero

LL Sample # SW 8752893
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:30

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A09 SDG#: APP16-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
GC/MS Semivolatiles SW-846 8270D			mg/kg	mg/kg	mg/kg	mg/kg	
10726	Acetophenone	98-86-2	< 0.037	0.018	0.037	0.037	1
10726	Anthracene	120-12-7	0.61	0.004	0.015	0.019	1
10726	Atrazine	1912-24-9	< 0.15	0.037	0.15	0.18	1
10726	Benzaldehyde	100-52-7	< 0.15	0.074	0.15	0.18	1
10726	Benzo(a)anthracene	56-55-3	0.069	0.004	0.015	0.019	1
10726	Benzo(a)pyrene	50-32-8	0.045	0.004	0.015	0.019	1
10726	Benzo(b)fluoranthene	205-99-2	0.055	0.004	0.015	0.019	1
10726	Benzo(g,h,i)perylene	191-24-2	0.018 J	0.004	0.015	0.019	1
10726	Benzo(k)fluoranthene	207-08-9	0.026	0.004	0.015	0.019	1
10726	Benzoic acid	65-85-0	< 0.55	0.18	0.55	0.55	1
10726	Benzyl alcohol	100-51-6	< 0.55	0.18	0.55	0.55	1
10726	1,1'-Biphenyl	92-52-4	3.0	0.018	0.037	0.037	1
10726	4-Bromophenyl-phenylether	101-55-3	< 0.037	0.018	0.037	0.037	1
10726	Butylbenzylphthalate	85-68-7	< 0.15	0.074	0.15	0.18	1
10726	Di-n-butylphthalate	84-74-2	< 0.15	0.074	0.15	0.18	1
10726	Caprolactam	105-60-2	< 0.15	0.037	0.15	0.18	1
10726	Carbazole	86-74-8	< 0.037	0.018	0.037	0.037	1
10726	4-Chloro-3-methylphenol	59-50-7	< 0.037	0.018	0.037	0.037	1
10726	4-Chloroaniline	106-47-8	< 0.074	0.037	0.074	0.074	1
10726	bis(2-Chloroethoxy)methane	111-91-1	< 0.037	0.018	0.037	0.037	1
10726	bis(2-Chloroethyl)ether	111-44-4	< 0.037	0.018	0.037	0.037	1
10726	2-Chloronaphthalene	91-58-7	< 0.015	0.007	0.015	0.036	1
10726	2-Chlorophenol	95-57-8	< 0.037	0.018	0.037	0.037	1
10726	4-Chlorophenyl-phenylether	7005-72-3	< 0.037	0.018	0.037	0.037	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	< 0.037	0.018	0.037	0.037	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
10726	Chrysene	218-01-9	0.071	0.004	0.015	0.019	1
10726	Dibenz(a,h)anthracene	53-70-3	0.006 J	0.004	0.015	0.019	1
10726	Dibenzofuran	132-64-9	1.0	0.018	0.037	0.037	1
10726	1,2-Dichlorobenzene	95-50-1	< 0.037	0.018	0.037	0.037	1
10726	1,3-Dichlorobenzene	541-73-1	< 0.037	0.018	0.037	0.037	1
10726	1,4-Dichlorobenzene	106-46-7	< 0.037	0.018	0.037	0.037	1
10726	3,3'-Dichlorobenzidine	91-94-1	< 0.37	0.11	0.37	0.37	1
10726	2,4-Dichlorophenol	120-83-2	< 0.037	0.018	0.037	0.037	1
10726	Diethylphthalate	84-66-2	< 0.15	0.074	0.15	0.18	1
10726	2,4-Dimethylphenol	105-67-9	< 0.037	0.018	0.037	0.037	1
10726	Dimethylphthalate	131-11-3	< 0.15	0.074	0.15	0.18	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	< 0.55	0.18	0.55	0.55	1
10726	2,4-Dinitrophenol	51-28-5	< 1.1	0.33	1.1	1.1	1
10726	2,4-Dinitrotoluene	121-14-2	< 0.18	0.074	0.18	0.18	1
10726	2,6-Dinitrotoluene	606-20-2	< 0.037	0.018	0.037	0.037	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	0.60	0.074	0.15	0.19	1
10726	Fluoranthene	206-44-0	0.26	0.004	0.015	0.019	1
10726	Fluorene	86-73-7	1.9	0.004	0.015	0.019	1
10726	Hexachlorobenzene	118-74-1	< 0.015	0.004	0.015	0.019	1
10726	Hexachlorobutadiene	87-68-3	< 0.037	0.018	0.037	0.037	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: ST-20161216-02 Soil
Camp Hero

LL Sample # SW 8752893
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:30

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A09 SDG#: APP16-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
GC/MS Semivolatiles	**SW-846 8270D**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10726	Hexachlorocyclopentadiene	77-47-4	< 0.55	0.18	0.55	0.55	1
10726	Hexachloroethane	67-72-1	< 0.15	0.037	0.15	0.18	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	0.017 J	0.004	0.015	0.019	1
10726	Isophorone	78-59-1	< 0.037	0.018	0.037	0.037	1
10726	1-Methylnaphthalene	90-12-0	15	0.037	0.15	0.19	10
10726	2-Methylnaphthalene	91-57-6	24	0.037	0.15	0.19	10
10726	2-Methylphenol	95-48-7	< 0.037	0.018	0.037	0.037	1
10726	4-Methylphenol	106-44-5	< 0.037	0.018	0.037	0.037	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10726	Naphthalene	91-20-3	6.2	0.037	0.15	0.19	10
10726	2-Nitroaniline	88-74-4	< 0.037	0.018	0.037	0.037	1
10726	3-Nitroaniline	99-09-2	< 0.15	0.074	0.15	0.18	1
10726	4-Nitroaniline	100-01-6	< 0.15	0.074	0.15	0.18	1
10726	Nitrobenzene	98-95-3	< 0.037	0.018	0.037	0.037	1
10726	2-Nitrophenol	88-75-5	< 0.037	0.018	0.037	0.037	1
10726	4-Nitrophenol	100-02-7	< 0.55	0.18	0.55	0.55	1
10726	N-Nitrosodimethylamine	62-75-9	< 0.18	0.074	0.18	0.18	1
10726	N-Nitroso-di-n-propylamine	621-64-7	< 0.037	0.018	0.037	0.037	1
10726	N-Nitrosodiphenylamine	86-30-6	< 0.037	0.018	0.037	0.037	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10726	Di-n-octylphthalate	117-84-0	< 0.15	0.074	0.15	0.18	1
10726	Pentachlorophenol	87-86-5	< 0.15	0.037	0.15	0.19	1
10726	Phenanthrene	85-01-8	4.4	0.004	0.015	0.019	1
10726	Phenol	108-95-2	< 0.037	0.018	0.037	0.037	1
10726	Pyrene	129-00-0	0.37	0.004	0.015	0.019	1
10726	1,2,4,5-Tetrachlorobenzene	95-94-3	< 0.037	0.018	0.037	0.037	1
10726	2,3,4,6-Tetrachlorophenol	58-90-2	< 0.15	0.074	0.15	0.18	1
10726	1,2,4-Trichlorobenzene	120-82-1	< 0.037	0.018	0.037	0.037	1
10726	2,4,5-Trichlorophenol	95-95-4	< 0.037	0.018	0.037	0.037	1
10726	2,4,6-Trichlorophenol	88-06-2	< 0.037	0.018	0.037	0.037	1
Pesticides/PCBs	**SW-846 8081B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10590	Aldrin	309-00-2	< 0.00067	0.00019	0.00067	0.00092	1
10590	Alpha BHC	319-84-6	0.00031 JP	0.00019	0.00067	0.00092	1
10590	Beta BHC	319-85-7	< 0.0010	0.00033	0.0010	0.0011	1
10590	Gamma BHC - Lindane	58-89-9	< 0.00067	0.00019	0.00067	0.00092	1
10590	Alpha Chlordane	5103-71-9	< 0.00067	0.00019	0.00067	0.00092	1
10590	Gamma Chlordane	5103-74-2	< 0.00067	0.00019	0.00067	0.00092	1
10590	p,p-DDD	72-54-8	0.00044 JP	0.00037	0.0013	0.0019	1
10590	p,p-DDE	72-55-9	0.00047 JP	0.00037	0.0013	0.0019	1
10590	p,p-DDT	50-29-3	< 0.0013	0.00039	0.0013	0.0019	1
10590	Delta BHC	319-86-8	< 0.0010	0.00050	0.0010	0.0010	1
10590	Dieldrin	60-57-1	< 0.0013	0.00037	0.0013	0.0019	1
10590	Endosulfan I	959-98-8	< 0.00067	0.00024	0.00067	0.00092	1
10590	Endosulfan II	33213-65-9	< 0.0013	0.00037	0.0013	0.0019	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Sample Description: ST-20161216-02 Soil
Camp Hero

LL Sample # SW 8752893
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:30

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A09 SDG#: APP16-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
Pesticides/PCBs	**SW-846 8081B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10590	Endosulfan Sulfate	1031-07-8	< 0.0013	0.00037	0.0013	0.0019	1
10590	Endrin	72-20-8	< 0.0013	0.00037	0.0013	0.0019	1
10590	Endrin Aldehyde	7421-93-4	< 0.0013	0.00037	0.0013	0.0019	1
10590	Endrin Ketone	53494-70-5	< 0.0020	0.00067	0.0020	0.0020	1
10590	Heptachlor	76-44-8	< 0.00067	0.00019	0.00067	0.00092	1
10590	Heptachlor Epoxide	1024-57-3	< 0.00067	0.00019	0.00067	0.00092	1
10590	Methoxychlor	72-43-5	< 0.0072	0.0019	0.0072	0.0074	1
10590	Toxaphene	8001-35-2	< 0.031	0.016	0.031	0.037	1
Pesticides/PCBs	**SW-846 8082A Feb 2007 Rev 1**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10885	PCB-1016	12674-11-2	< 0.011	0.0040	0.011	0.019	1
10885	PCB-1221	11104-28-2	< 0.011	0.0051	0.011	0.019	1
10885	PCB-1232	11141-16-5	< 0.018	0.0089	0.018	0.019	1
10885	PCB-1242	53469-21-9	< 0.011	0.0037	0.011	0.019	1
10885	PCB-1248	12672-29-6	< 0.011	0.0037	0.011	0.019	1
10885	PCB-1254	11097-69-1	< 0.011	0.0037	0.011	0.019	1
10885	PCB-1260	11096-82-5	< 0.011	0.0055	0.011	0.019	1
10885	PCB-1262	37324-23-5	< 0.011	0.0037	0.011	0.019	1
10885	PCB-1268	11100-14-4	< 0.011	0.0037	0.011	0.019	1
Metals	**SW-846 6020A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06123	Aluminum	7429-90-5	10,600	3.82	8.27	33.1	2
06124	Antimony	7440-36-0	< 0.165	0.0812	0.165	0.331	2
06125	Arsenic	7440-38-2	3.41	0.122	0.331	0.661	2
06126	Barium	7440-39-3	71.3	0.132	0.331	0.661	2
06127	Beryllium	7440-41-7	0.474	0.0179	0.0413	0.165	2
06128	Cadmium	7440-43-9	< 0.0827	0.0321	0.0827	0.165	2
06129	Calcium	7440-70-2	1,160	16.2	33.1	66.1	2
06131	Chromium	7440-47-3	21.4	0.0977	0.165	0.661	2
02829	Trivalent Chromium 6020A	16065-83-1	20.9	0.16	0.47	0.66	1
	The Trivalent Chromium result is calculated by subtracting Hexavalent Chromium from Total Chromium.						
06132	Cobalt	7440-48-4	5.64	0.0332	0.0827	0.165	2
06133	Copper	7440-50-8	10.9	0.0833	0.165	0.661	2
06134	Iron	7439-89-6	14,500	5.57	16.5	33.1	2
06135	Lead	7439-92-1	4.35	0.0241	0.0413	0.331	2
06136	Magnesium	7439-95-4	3,560	1.95	8.27	33.1	2
06137	Manganese	7439-96-5	211	0.145	0.165	0.661	2
06139	Nickel	7440-02-0	11.4	0.138	0.165	0.661	2
06140	Potassium	7440-09-7	2,660	7.79	16.5	66.1	2
06141	Selenium	7782-49-2	< 0.165	0.0723	0.165	0.661	2
06142	Silver	7440-22-4	< 0.0413	0.0195	0.0413	0.165	2
06143	Sodium	7440-23-5	121	7.74	16.5	66.1	2
06145	Thallium	7440-28-0	0.182	0.0240	0.0413	0.165	2
06148	Vanadium	7440-62-2	28.4	0.0313	0.0827	0.165	2
06149	Zinc	7440-66-6	29.4	1.04	2.48	4.96	2

*=This limit was used in the evaluation of the final result

Partial Report

Sample Description: ST-20161216-02 Soil
Camp Hero

LL Sample # SW 8752893
LL Group # 1746258
Account # 19891

Project Name: Camp Hero

Collected: 12/16/2016 11:30

Submitted: 12/17/2016 16:50
Reported: 01/17/2017 15:10

AECOM
3101 Wilson Blvd
Suite 900
Arlington VA 22201

16A09 SDG#: APP16-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Detection Limit*	Dry Limit of Detection	Dry Limit of Quantitation	DF
Metals	**SW-846 7471B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	< 0.0183	0.0110	0.0183	0.110	1
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	Hexavalent Chromium by IC	18540-29-9	0.51	0.16	0.47	0.47	1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10705	Total Cyanide in Solids	57-12-5	< 0.53	0.19	0.53	0.53	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	**%**	
00111	Moisture	n.a.	10.4	0.50	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

Eurofins Lancaster Laboratories Environmental, LLC is responsible only for the certified testing of samples. We are not directly responsible for the integrity of the sample prior to laboratory receipt. Any reported concentrations
less than 200 ug/kg may be biased low if they were not collected according to EPA
5035/5035A specifications.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11995	VOCs 8260C Soil	SW-846 8260C	1	R163572AA	12/22/2016 23:00	Stephen C Nolte	42.02
10726	SVOCs 8270D Soil	SW-846 8270D	1	16357SLH026	12/28/2016 02:44	Anthony P Bauer	1
10726	SVOCs 8270D Soil	SW-846 8270D	1	16357SLH026	12/28/2016 08:23	Linda M Hartenstine	10
10590	OC Pesticides in Soils	SW-846 8081B	1	163630012A	01/08/2017 21:19	Lisa A Reinert	1
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	163640015A	12/30/2016 17:56	Jessica L Miller	1
06123	Aluminum	SW-846 6020A	1	163560637003A	12/29/2016 03:45	Sarah L Burt	2
06124	Antimony	SW-846 6020A	1	163560637003A	12/29/2016 03:45	Sarah L Burt	2
06125	Arsenic	SW-846 6020A	1	163560637003A	12/29/2016 12:31	Scott P Cuff	2
06126	Barium	SW-846 6020A	1	163560637003D	12/29/2016 03:45	Sarah L Burt	2
06127	Beryllium	SW-846 6020A	1	163560637003A	12/29/2016 03:45	Sarah L Burt	2
06128	Cadmium	SW-846 6020A	1	163560637003A	12/29/2016 12:31	Scott P Cuff	2
06129	Calcium	SW-846 6020A	1	163560637003B	12/29/2016 12:31	Scott P Cuff	2
06131	Chromium	SW-846 6020A	1	163560637003A	12/30/2016 07:29	Scott P Cuff	2
02829	Trivalent Chromium 6020A	SW-846 6020A	1	170122829001	01/12/2017 14:00	Nina C Haller	1
06132	Cobalt	SW-846 6020A	1	163560637003A	12/29/2016 12:31	Scott P Cuff	2
06133	Copper	SW-846 6020A	1	163560637003A	12/29/2016 12:31	Scott P Cuff	2

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Partial Report

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06134	Iron	SW-846 6020A	1	163560637003A	12/29/2016 03:45	Sarah L Burt	2
06135	Lead	SW-846 6020A	1	163560637003A	12/29/2016 03:45	Sarah L Burt	2
06136	Magnesium	SW-846 6020A	1	163560637003A	12/29/2016 03:45	Sarah L Burt	2
06137	Manganese	SW-846 6020A	1	163560637003A	12/30/2016 07:29	Scott P Cuff	2
06139	Nickel	SW-846 6020A	1	163560637003A	12/29/2016 12:31	Scott P Cuff	2
06140	Potassium	SW-846 6020A	1	163560637003A	12/30/2016 07:29	Scott P Cuff	2
06141	Selenium	SW-846 6020A	1	163560637003B	12/29/2016 03:45	Sarah L Burt	2
06142	Silver	SW-846 6020A	1	163560637003A	12/29/2016 03:45	Sarah L Burt	2
06143	Sodium	SW-846 6020A	1	163560637003A	12/30/2016 07:29	Scott P Cuff	2
06145	Thallium	SW-846 6020A	1	163560637003A	12/29/2016 03:45	Sarah L Burt	2
06148	Vanadium	SW-846 6020A	1	163560637003A	12/30/2016 07:29	Scott P Cuff	2
06149	Zinc	SW-846 6020A	1	163560637003A	12/29/2016 03:45	Sarah L Burt	2
00159	Mercury	SW-846 7471B	1	163560638002	12/22/2016 12:56	Damary Valentin	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	17007243201A	01/11/2017 01:22	Clinton M Wilson	1
10705	Total Cyanide in Solids	SW-846 9012B	1	16363960201A	12/28/2016 14:12	Dein K Bernot	1
00111	Moisture	SM 2540 G-1997	1	16357820007B	12/22/2016 14:11	Larry E Bevins	1

*=This limit was used in the evaluation of the final result

Reference ID:
1746258170117151005

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

Revised CoC Rec 12/20/16 SG
1746258

AECOM

PAGE 1 OF 2

Laboratory	Project Name
Eurofins Lancaster Laboratories Environmental, LLC (ELLE)	Camp Hero
Address	**Point of Contact / Phone No**
2425 New Holland Pike	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No**
Lancaster / PA / 17601	Amanda Martin (434) 664-8047

Database Information					Other Sample Information						Analysis										Chain of Custody
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260C)	SVOCs (8270C/D) PCBs Pesticides	PAHs (8270C/D SIM) - HOLD PENDING SVOCs	Metals (6010C) Mercury (7470A) Total	Metals(6010C) Mercury(7470A) Dissolved(FF	Hex Chromium (218.6) Total	Hex Chromium (218.6) Dissolved(FF)	Total Cyanide			121616-01 Batch Nov23
FieldQC	—	—	TB	1	TB-20161216-01	12/16/16	0800	WQ	2	016	2										
WW-01	—	—	N	1	WW-20161216-01		1100	WW	12	016	3	4	2	1		1		1			
WW-02	—	—	N	1	WW-20161216-02		1110	WW	12	016	3	4	2	1		1		1			POLLUTED MODE
																					HOLD PAH (SIM) ANALYSIS PENDING SVOC RESULTS

1. Relinquished By / Company	Sarah Gut AECOM	Date 12/17/16	Time 1650	1. Received By / Company		Date	Time
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	Melissa Reed ELLE	Date 12/19/16	Time 1420

Comments: LIQUID IDW SAMPLES (PAGE 1)

Shipment Method/Airbill No: Delivered by AECOM

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

19891 | 174258 | 8752885-95

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
Eurofins Lancaster Laboratories Environmental, LLC (ELLE)	Camp Hero	121616-01
Address	**Point of Contact / Phone No.**	Batch Nov23
2425 New Holland Pike	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Lancaster / PA / 17601	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260C)	SVOCs (8270C/D), PCBs, Pesticides	PAHs (8270C/D SIM) – HOLD PENDING SVOCs	Metals (6010C)/Mercury (7470A) Total	Metals(6010C)/Mercury(7470A) Dissolved(FF	Hex Chromium (218.6) Total	Hex Chromium (218.6) Dissolved(FF)	Total Cyanide				Comment
FieldQC	—	—	TB	1	TB-20161216-01	12/16/16	0800	WQ	2	016	2											
WW-01	—	—	N	1	WW-20161216-01	↓	1100	WW	12	016	3	4	2	1		1		1				
WW-02	—	—	N	1	WW-20161216-01	↓	1110	WW	12	016	3	4	2	1		1		1				PETROLEUM ODOR
																						HOLD PAH (SIM) ANALYSIS PENDING SVOC RESULTS

		Date	Time		Date	Time
1. Relinquished By / Company	Sarah Gutt AECOM	12/17/16	1650	1. Received By / Company		
2. Relinquished By / Company		Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company Tammy Leland ELLE	12/17/16	1650

Comments: LIQUID (DW SAMPLES (PAGE 1)

Shipment Method/Airbill No: Delivered by AECOM

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

19891 | 1746258 | 8752885-95

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
Eurofins Lancaster Laboratories Environmental, LLC (ELLE)	Camp Hero
Address	**Point of Contact / Phone No.**
2425 New Holland Pike	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Lancaster / PA / 17601	Amanda Martin (434) 664-8047

Chain of Custody: 121616-01
Batch Nov23

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260C)	% Moisture	SVOCs (8270C/D)/PAHs (8270C/D SIM)	Metals (6010C)/Mercury (7471b)	Hex Chromium (7119)/pH/ORP	Full TCLP - HOLD	VOCs TCLP - HOLD	Comment
ST-01	—	—	N	1	ST-20161216-01	12/16/16	1120	ST	7	016	3	1		1		1	1	
ST-02	—	—	N	1	ST-20161216-02	12/16/16	1130	ST	7	016	3	1		1		1	1	PETROLEUM ODOR

HOLD TCLP ANALYSIS PENDING RESULTS OF OTHER ANALYSES

HOLD PAH (SIM) ANALYSIS PENDING RESULTS OF SVOCs

PCBs/SVOCs/PAHs/Pesticides

	Date	Time
1. Relinquished By / Company: Sarah Cutts AECOM	12/17/16	1650
2. Relinquished By / Company:	Date	Time
3. Relinquished By / Company:	Date	Time

	Date	Time
1. Received By / Company:	Date	Time
2. Received By / Company:	Date	Time
3. Received By / Company: Tammy Deland ELLE	12/17/16	1650

Comments: SOLID/SOIL IDW SAMPLES (PAGE 2)

Shipment Method/Airbill No.: Delivered by AECOM

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 171198

Group Number(s): 1746258

Client: AECOM

Delivery and Receipt Information

Delivery Method:	Client Drop Off	Arrival Timestamp:	12/17/2016 16:50
Number of Packages:	7	Number of Projects:	1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	14
Samples Intact:	Yes	Trip Blank Type:	HCL
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 09:48 on 12/19/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	3.9	DT	Wet	Y	Bagged	N
2	DT131	2.1	DT	Wet	Y	Bagged	N
3	DT131	0.9	DT	Wet	Y	Bagged	N
4	DT131	1.7	DT	Wet	Y	Bagged	N
5	DT131	2.5	DT	Wet	Y	Bagged	N
6	DT131	0.4	DT	Wet	Y	Bagged	N
7	DT131	3.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	none detected
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Attachment F3

Data Validation Reports

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Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP03	
Date(s) of Collection:	December 13th, 2016	
Number/Type Samples & Analyses:	1 ground water sample and 1 field duplicate for a project-specific list of hexavalent chromium, and metals (EBs were run for VOCs, SVOCs, PAHs, hexavalent chromium, and metals)	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	January 31th, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) APP03. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

✓ Field rinsate blank data

✓ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✓ Laboratory duplicate results

✓ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

This data package was revised 11/9/2017 due to the Eurofins metals data breach. The majority of the data changes were made to Quality Control (QC) and/or calibration checks, not to actual sample results. Where we see sample result changes, these are primarily cases where the result exceeded the linear calibration range of the instrument and were changed to be slightly lower than the upper limit of the calibration range.

In this package, the interference check standard percent recovery for calcium was within QC specification in the original run as well as in the corrected package.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	SR
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 218.6 **Matrix: WATER**

Sample ID: CH-MW002-01 **Collected:** 12/11/2016 3:43:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.55		0.050	LOD	0.050	LOQ	ug/l	J+	Ms

Method Category: METALS

Method: 6020A **Matrix: WATER**

Sample ID: CH-MW002-01 **Collected:** 12/11/2016 3:43:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7170		200	LOD	400	LOQ	ug/l	J-	Ms
CHROMIUM	0.80	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
COBALT	0.24	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl
MAGNESIUM	6150		50.0	LOD	200	LOQ	ug/l	J-	Ms
SODIUM	34600		100	LOD	400	LOQ	ug/l	J-	Ms
VANADIUM	0.26	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl, Fd

Sample ID: CH-MW002-01DUP **Collected:** 12/11/2016 3:43:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	0.72	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
COBALT	0.28	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl
VANADIUM	0.50	U	0.50	LOD	1.0	LOQ	ug/l	UJ	Fd

Sample ID: CH-MW002-01-F **Collected:** 12/11/2016 3:43:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	0.96	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl, Fd
COBALT	0.52	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl
COPPER	1.0	U	1.0	LOD	4.0	LOQ	ug/l	UJ	Fd
VANADIUM	0.50	U	0.50	LOD	1.0	LOQ	ug/l	UJ	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: WATER**

Sample ID: CH-MW002-01-FDUP **Collected:** 12/11/2016 3:43:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	2.0	U	2.0	LOD	4.0	LOQ	ug/l	UJ	Fd
COBALT	0.49	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl
COPPER	0.85	J	1.0	LOD	4.0	LOQ	ug/l	J	Rl, Fd
VANADIUM	0.34	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl, Fd

Sample ID: EB-20161208-01 **Collected:** 12/8/2016 4:40:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	171	J	200	LOD	400	LOQ	ug/l	J	Rl
COPPER	1.4	J	1.0	LOD	4.0	LOQ	ug/l	J	Rl
LEAD	0.32	J	0.25	LOD	2.0	LOQ	ug/l	J	Rl
NICKEL	1.5	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
POTASSIUM	253	J	200	LOD	400	LOQ	ug/l	J	Rl
SODIUM	238	J	100	LOD	400	LOQ	ug/l	J	Rl

Sample ID: EB-20161208-02 **Collected:** 12/8/2016 4:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	30.0	J	50.0	LOD	200	LOQ	ug/l	J	Rl
BARIUM	1.3	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
CHROMIUM	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
IRON	150	J	100	LOD	200	LOQ	ug/l	J	Rl
MANGANESE	2.7	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
SODIUM	138	J	100	LOD	400	LOQ	ug/l	J	Rl

Method Category: METALS

Method: Calculation **Matrix: WATER**

Sample ID: EB-20161208-02 **Collected:** 12/8/2016 4:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** WATER

Sample ID: EB-20161208-01 **Collected:** 12/8/2016 4:40:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4,5-TETRACHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1,2,4-TRICHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1,2-DICHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1,3-DICHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1,4-DICHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1-METHYLNAPHTHALENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
2-METHYLNAPHTHALENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
ACENAPHTHENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
ACENAPHTHYLENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
ANTHRACENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
BENZ(A)ANTHRACENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
Benzo (g,h,i) perylene	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
BENZO(A)PYRENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
CHRYSENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
FLUORANTHENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
FLUORENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
HEXACHLOROBUTADIENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	16	U	16	LOD	16	LOQ	ug/l	UJ	Lcs
HEXACHLOROETHANE	4.1	U	4.1	LOD	5.2	LOQ	ug/l	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
NAPHTHALENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
N-NITROSODIMETHYLAMINE	4.1	U	4.1	LOD	5.2	LOQ	ug/l	UJ	Lcs
PHENANTHRENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg
PYRENE	0.41	U	0.41	LOD	0.52	LOQ	ug/l	NP	ProfJudg

Sample ID: EB-20161208-02 **Collected:** 12/8/2016 4:00:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	9.0	J	15	LOD	15	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **SVOA**

Method: **8270D** ***Matrix:*** **WATER**

Sample ID: **EB-20161208-02** ***Collected:*** **12/8/2016 4:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4,5-TETRACHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1,2,4-TRICHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1,2-DICHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1,3-DICHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1,4-DICHLOROBENZENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
1-METHYLNAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
2-METHYLNAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ACENAPHTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ACENAPHTHYLENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZ(A)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
Benzo (g,h,i) perylene	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(A)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
CHRYSENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
HEXACHLOROBUTADIENE	1.0	U	1.0	LOD	1.0	LOQ	ug/l	UJ	Lcs
HEXACHLOROCYCLOPENTADIENE	15	U	15	LOD	15	LOQ	ug/l	UJ	Lcs
HEXACHLOROETHANE	4.0	U	4.0	LOD	5.0	LOQ	ug/l	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
NAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
N-NITROSODIMETHYLAMINE	4.0	U	4.0	LOD	5.0	LOQ	ug/l	UJ	Lcs
PHENANTHRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **WATER**

Sample ID: **EB-20161208-01** ***Collected:*** **12/8/2016 4:40:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.018	J	0.041	LOD	0.052	LOQ	ug/l	UJ	Lcs, Mb
2-METHYLNAPHTHALENE	0.019	J	0.041	LOD	0.052	LOQ	ug/l	UJ	Lcs, Mb
ACENAPHTHENE	0.041	U	0.041	LOD	0.052	LOQ	ug/l	UJ	Lcs
ACENAPHTHYLENE	0.041	U	0.041	LOD	0.052	LOQ	ug/l	UJ	Lcs
NAPHTHALENE	0.035	J	0.062	LOD	0.062	LOQ	ug/l	UJ	Lcs, Mb

Sample ID: **EB-20161208-02** ***Collected:*** **12/8/2016 4:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.040	U	0.040	LOD	0.050	LOQ	ug/l	UJ	Lcs
2-METHYLNAPHTHALENE	0.040	U	0.040	LOD	0.050	LOQ	ug/l	UJ	Lcs
ACENAPHTHENE	0.040	U	0.040	LOD	0.050	LOQ	ug/l	UJ	Lcs
ACENAPHTHYLENE	0.040	U	0.040	LOD	0.050	LOQ	ug/l	UJ	Lcs
NAPHTHALENE	0.060	U	0.060	LOD	0.060	LOQ	ug/l	UJ	Lcs

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Precision
Ld	Laboratory Duplicate Precision
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Method Blank Outlier Report

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **WATER**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWN34B349WAN026	12/20/2016 9:30:00 AM	2-Methylphenol (o-Cresol) 3/4-Methylphenol [m/p-Cresol] NAPHTHALENE PHENOL	1.1 ug/l 1.1 ug/l 0.34 ug/l 2.0 ug/l	EB-20161208-01 EB-20161208-02

Method: **8270D SIM**
Matrix: **WATER**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWB00B006WAB026	1/6/2017 6:36:00 PM	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ACENAPHTHENE ANTHRACENE FLUORANTHENE FLUORENE NAPHTHALENE	0.038 ug/l 0.061 ug/l 0.038 ug/l 0.011 ug/l 0.016 ug/l 0.015 ug/l 0.33 ug/l	EB-20161208-01 EB-20161208-02

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-20161208-01(Initial/TOT)	1-METHYLNAPHTHALENE	0.018 ug/l	0.052U ug/l
EB-20161208-01(Initial/TOT)	2-METHYLNAPHTHALENE	0.019 ug/l	0.052U ug/l
EB-20161208-01(Initial/TOT)	NAPHTHALENE	0.035 ug/l	0.062U ug/l

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: WATER

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
CH-MW002-01MS (Total) CH-MW002-01MSD (Total) (CH-MW002-01)	MAGNESIUM SODIUM	78 71	- 82	83.00-118.00 85.00-117.00	- -	MAGNESIUM SODIUM	J- (all detects) UJ (all non-detects)
CH-MW002-01MS (Total) (CH-MW002-01)	CALCIUM	80	-	87.00-118.00	-	CALCIUM	J-(all detects) UJ(all non-detects)
CH-MW002-01MS (Dissolved) CH-MW002-01MSD (Dissolved) (CH-MW002-01)	CHROMIUM MANGANESE SODIUM	117 119 134	121 - 147	85.00-116.00 87.00-115.00 85.00-117.00	- - -	CHROMIUM MANGANESE SODIUM	J+(all detects)

Method: 218.6
Matrix: WATER

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
CH-MW002-01MSD (Total) (CH-MW002-01)	Hexavalent Chromium [Cr (VI)]	-	112	90.00-110.00	-	Hexavalent Chromium [Cr (VI)]	J+(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: WATER

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
CH-MW002-01DUP (Dissolved) (CH-MW002-01)	COBALT	25	20.00	J (all detects)
	VANADIUM	200	20.00	UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D
Matrix: WATER

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P9WNLCSY349WAN026 (EB-20161208-01 EB-20161208-02)	1,2,4,5-TETRACHLOROBENZENE	-	-	35.00-121.00	21 (20.00)	1,2,4,5-TETRACHLOROBENZENE	J (all detects) UJ (all non-detects)
	1,2,4-TRICHLOROBENZENE	-	-	29.00-116.00	24 (20.00)	1,2,4-TRICHLOROBENZENE	
	1,2-DICHLOROBENZENE	-	-	32.00-111.00	22 (20.00)	1,2-DICHLOROBENZENE	
	1,3-DICHLOROBENZENE	-	-	28.00-110.00	25 (20.00)	1,3-DICHLOROBENZENE	
	1,4-DICHLOROBENZENE	-	-	29.00-112.00	23 (20.00)	1,4-DICHLOROBENZENE	
	HEXACHLOROBUTADIENE	-	-	22.00-124.00	27 (20.00)	HEXACHLOROBUTADIENE	
	HEXACHLOROCYCLOPENTADIEN	-	-	10.00-81.00	32 (20.00)	HEXACHLOROCYCLOPENTADIE	
	HEXACHLOROETHANE	-	-	21.00-115.00	26 (20.00)	HEXACHLOROETHANE	
	N-NITROSODIMETHYLAMINE	-	-	19.00-68.00	22 (20.00)	N-NITROSODIMETHYLAMINE	

Method: 8270D SIM
Matrix: WATER

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6WBLCSY006WAB026 (EB-20161208-01 EB-20161208-02)	1-METHYLNAPHTHALENE	-	-	41.00-115.00	33 (20.00)	1-METHYLNAPHTHALENE	J(all detects) UJ(all non-detects)
	2-METHYLNAPHTHALENE	-	-	39.00-114.00	33 (20.00)	2-METHYLNAPHTHALENE	
	ACENAPHTHENE	-	-	48.00-114.00	25 (20.00)	ACENAPHTHENE	
	ACENAPHTHYLENE	-	-	35.00-121.00	26 (20.00)	ACENAPHTHYLENE	
	NAPHTHALENE	-	-	43.00-114.00	36 (20.00)	NAPHTHALENE	

Reporting Limit Outliers

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW002-01	CHROMIUM	J	0.80	4.0	LOQ	ug/l	J (all detects)
	COBALT	J	0.24	1.0	LOQ	ug/l	
	VANADIUM	J	0.26	1.0	LOQ	ug/l	
CH-MW002-01DUP	CHROMIUM	J	0.72	4.0	LOQ	ug/l	J (all detects)
	COBALT	J	0.28	1.0	LOQ	ug/l	
CH-MW002-01-F	CHROMIUM	J	0.96	4.0	LOQ	ug/l	J (all detects)
	COBALT	J	0.52	1.0	LOQ	ug/l	
CH-MW002-01-FDUP	COBALT	J	0.49	1.0	LOQ	ug/l	J (all detects)
	COPPER	J	0.85	4.0	LOQ	ug/l	
	VANADIUM	J	0.34	1.0	LOQ	ug/l	
EB-20161208-01	CALCIUM	J	171	400	LOQ	ug/l	J (all detects)
	COPPER	J	1.4	4.0	LOQ	ug/l	
	LEAD	J	0.32	2.0	LOQ	ug/l	
	NICKEL	J	1.5	4.0	LOQ	ug/l	
	POTASSIUM	J	253	400	LOQ	ug/l	
	SODIUM	J	238	400	LOQ	ug/l	
EB-20161208-02	ALUMINUM	J	30.0	200	LOQ	ug/l	J (all detects)
	BARIUM	J	1.3	4.0	LOQ	ug/l	
	CHROMIUM	J	1.1	4.0	LOQ	ug/l	
	IRON	J	150	200	LOQ	ug/l	
	MANGANESE	J	2.7	4.0	LOQ	ug/l	
	SODIUM	J	138	400	LOQ	ug/l	

Method: 8270D

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-20161208-02	BENZOIC ACID	J	9.0	15	LOQ	ug/l	J (all detects)

Method: 8270D SIM

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-20161208-01	1-METHYLNAPHTHALENE	J	0.018	0.052	LOQ	ug/l	J (all detects)
	2-METHYLNAPHTHALENE	J	0.019	0.052	LOQ	ug/l	
	NAPHTHALENE	J	0.035	0.062	LOQ	ug/l	

Method: Calculation

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-20161208-02	TRIVALENT CHROMIUM	J	1.1	4.0	LOQ	ug/l	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: APP03 **Laboratory: LLL**

EDD Filename: APP03-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 218.6
Matrix: WATER

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW002-01 (Total)	CH-MW002-01DUP (Total)			
Hexavalent Chromium [Cr (VI)]	0.55	0.56	2	30.00	No Qualifiers Applied

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW002-01-F (Dissolved)	CH-MW002-01-FDUP (Dissolved)			
Hexavalent Chromium [Cr (VI)]	0.57	0.55	4	30.00	No Qualifiers Applied

Method: 6020A
Matrix: WATER

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW002-01 (Total)	CH-MW002-01DUP (Total)			
BARIUM	21.6	21.0	3	30.00	No Qualifiers Applied
CALCIUM	7170	7120	1	30.00	
CHROMIUM	0.80	0.72	11	30.00	
COBALT	0.24	0.28	15	30.00	
MAGNESIUM	6150	5890	4	30.00	
MANGANESE	19.7	21.5	9	30.00	
POTASSIUM	1380	1340	3	30.00	
SODIUM	34600	33100	4	30.00	
VANADIUM	0.26	1.0 U	200	30.00	J(all detects) UJ(all non-detects)

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW002-01-F (Dissolved)	CH-MW002-01-FDUP (Dissolved)			
BARIUM	21.0	23.0	9	30.00	No Qualifiers Applied
CALCIUM	7020	7070	1	30.00	
COBALT	0.52	0.49	6	30.00	
MAGNESIUM	6310	6830	8	30.00	
MANGANESE	21.5	22.0	2	30.00	
POTASSIUM	1430	1540	7	30.00	
SODIUM	36700	36000	2	30.00	
CHROMIUM	0.96	4.0 U	200	30.00	J(all detects) UJ(all non-detects)
COPPER	4.0 U	0.85	200	30.00	
VANADIUM	1.0 U	0.34	200	30.00	

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Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP04	
Date(s) of Collection:	December 8th, 2016	
Number/Type Samples & Analyses:	6 soil samples and one field duplicate for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	January 30th, 2016	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) APP04. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✓ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✗ Laboratory duplicate results

✗ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Samples 203-SB33-01, 203-SB33-07, 203-SB36-01, and 203-SB19-01 were run for 8270 SIM and regular 8270. The final results will be presented in SVOC SIM.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	SR
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB19-01 **Collected:** 12/8/2016 1:57:00 PM **Analysis Type:** Initial1111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.146	J	0.0491	LOD	0.196	LOQ	mg/kg	J	RI
SODIUM	51.3	J	19.6	LOD	78.5	LOQ	mg/kg	U	Mb

Sample ID: 203-SB33-01 **Collected:** 12/8/2016 1:00:00 PM **Analysis Type:** Initial4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.144	J	0.0508	LOD	0.203	LOQ	mg/kg	J	RI
SODIUM	60.2	J	20.3	LOD	81.2	LOQ	mg/kg	J	RI
THALLIUM	0.0729	J	0.0508	LOD	0.203	LOQ	mg/kg	J	RI

Sample ID: 203-SB33-07 **Collected:** 12/8/2016 1:42:00 PM **Analysis Type:** Initial2222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.173	J	0.0455	LOD	0.182	LOQ	mg/kg	J	RI

Sample ID: 203-SB33-07 **Collected:** 12/8/2016 1:42:00 PM **Analysis Type:** Reanalysis-021111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.182	LOD	0.728	LOQ	mg/kg	J	RI

Sample ID: 203-SB36-01 **Collected:** 12/8/2016 11:45:00 AM **Analysis Type:** Initial1111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.169	J	0.0474	LOD	0.190	LOQ	mg/kg	J	RI

Sample ID: 203-SB36-01 **Collected:** 12/8/2016 11:45:00 AM **Analysis Type:** Reanalysis-023333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.320	J	0.190	LOD	0.759	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB36-26 **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	17900		10.8	LOD	43.3	LOQ	mg/kg	J	Ms, Fd
ANTIMONY	0.216	U	0.216	LOD	0.433	LOQ	mg/kg	UJ	Ms, Ld
BERYLLIUM	0.736		0.0541	LOD	0.216	LOQ	mg/kg	J	Ms, Fd
CADMIUM	0.0656	J	0.108	LOD	0.216	LOQ	mg/kg	J	Rl, Ms, Ld
CHROMIUM	33.0		0.216	LOD	0.865	LOQ	mg/kg	J	Ms, Fd
COBALT	10.1		0.108	LOD	0.216	LOQ	mg/kg	J	Ms, Ms
COPPER	19.0		0.216	LOD	0.865	LOQ	mg/kg	J	Ms, Fd
IRON	24700		21.6	LOD	43.3	LOQ	mg/kg	J-	Ms
LEAD	7.13		0.0541	LOD	0.433	LOQ	mg/kg	J	Ms, Fd
MAGNESIUM	6670		10.8	LOD	43.3	LOQ	mg/kg	J	Ms, Fd
MANGANESE	310		0.216	LOD	0.865	LOQ	mg/kg	J	Ms, Fd
NICKEL	21.6		0.216	LOD	0.865	LOQ	mg/kg	J	Ms, Fd
POTASSIUM	5080		21.6	LOD	86.5	LOQ	mg/kg	J	Ms, Fd
SILVER	0.0292	J	0.0541	LOD	0.216	LOQ	mg/kg	J	Rl, Ms, Ld, Fd
SODIUM	283		21.6	LOD	86.5	LOQ	mg/kg	J	Ms, Fd
THALLIUM	0.318		0.0541	LOD	0.216	LOQ	mg/kg	J	Ms, Fd
VANADIUM	49.0		0.108	LOD	0.216	LOQ	mg/kg	J	Ms, Fd
ZINC	48.1		3.25	LOD	6.49	LOQ	mg/kg	J	Ms, Fd

Sample ID: 203-SB36-26 **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-013 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.88		0.433	LOD	0.865	LOQ	mg/kg	J	Ms, Fd

Sample ID: 203-SB36-26 **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-0244333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.216	LOD	0.865	LOQ	mg/kg	J	Rl, Ms, Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB36-26 **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-0311111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2080		43.3	LOD	86.5	LOQ	mg/kg	J	Ms, Fd

Sample ID: 203-SB36-26 **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-0422222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.433	LOD	0.865	LOQ	mg/kg	J	Ms, Fd

Sample ID: 203-SB36-26DUP **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Initial22222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11500		10.7	LOD	42.7	LOQ	mg/kg	J	Fd
BERYLLIUM	0.504		0.0534	LOD	0.214	LOQ	mg/kg	J	Fd
CADMIUM	0.0590	J	0.107	LOD	0.214	LOQ	mg/kg	J	Rl
CHROMIUM	22.1		0.214	LOD	0.854	LOQ	mg/kg	J	Fd
COPPER	13.3		0.214	LOD	0.854	LOQ	mg/kg	J	Fd
LEAD	5.07		0.0534	LOD	0.427	LOQ	mg/kg	J	Fd
MAGNESIUM	4140		10.7	LOD	42.7	LOQ	mg/kg	J	Fd
MANGANESE	218		0.214	LOD	0.854	LOQ	mg/kg	J	Fd
NICKEL	14.3		0.214	LOD	0.854	LOQ	mg/kg	J	Fd
POTASSIUM	3070		21.4	LOD	85.4	LOQ	mg/kg	J	Fd
SILVER	0.0534	U	0.0534	LOD	0.214	LOQ	mg/kg	UJ	Fd
SODIUM	186		21.4	LOD	85.4	LOQ	mg/kg	J	Fd
THALLIUM	0.175	J	0.0534	LOD	0.214	LOQ	mg/kg	J	Rl, Fd
VANADIUM	30.7		0.107	LOD	0.214	LOQ	mg/kg	J	Fd
ZINC	31.6		3.20	LOD	6.41	LOQ	mg/kg	J	Fd

Sample ID: 203-SB36-26DUP **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-0111111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.41		0.427	LOD	0.854	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: SOIL**

Sample ID: 203-SB36-26DUP **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-0244445 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.100	J	0.214	LOD	0.854	LOQ	mg/kg	J	Rl, Fd

Sample ID: 203-SB36-26DUP **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-0333333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1080		42.7	LOD	85.4	LOQ	mg/kg	J	Fd

Sample ID: 203-SB36-26DUP **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-044 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	71.8		0.427	LOD	0.854	LOQ	mg/kg	J	Fd

Method Category: METALS

Method: 7199 **Matrix: SOIL**

Sample ID: 203-SB19-01 **Collected:** 12/8/2016 1:57:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.31	J	0.44	LOD	0.44	LOQ	mg/kg	J	Rl

Sample ID: 203-SB33-07 **Collected:** 12/8/2016 1:42:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.39	J	0.44	LOD	0.44	LOQ	mg/kg	J	Rl

Method Category: METALS

Method: 7471B **Matrix: SOIL**

Sample ID: 203-SB36-01 **Collected:** 12/8/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0145	J	0.0181	LOD	0.109	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: Calculation **Matrix: SOIL**

Sample ID: 203-SB36-26 **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-05 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	32.3		0.49	LOD	0.87	LOQ	mg/kg	J	Fd

Sample ID: 203-SB36-26DUP **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Reanalysis-05 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	21.5		0.48	LOD	0.85	LOQ	mg/kg	J	Fd

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB19-01 **Collected:** 12/8/2016 1:57:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.059		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.083		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHYLENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
ANTHRACENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZ(A)ANTHRACENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
Benzo (g,h,i) perylene	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.009	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(K)FLUORANTHENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
CHRYSENE	0.008	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.012	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
FLUORENE	0.011	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
HEXACHLOROCYCLOPENTADIENE	0.55	U	0.55	LOD	0.55	LOQ	mg/kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
NAPHTHALENE	0.014	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
PHENANTHRENE	0.027		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.013	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB33-01 **Collected:** 12/8/2016 1:00:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
HEXACHLOROCYCLOPENTADIENE	0.53	U	0.53	LOD	0.53	LOQ	mg/kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.014	U	0.014	LOD	0.018	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.004	J	0.014	LOD	0.018	LOQ	mg/kg	NP	RI, ProfJudg

Sample ID: 203-SB33-07 **Collected:** 12/8/2016 1:42:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
Benzo (g,h,i) perylene	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.010	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.010	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **SVOA**

Method: **8270D** ***Matrix:*** **SOIL**

Sample ID: **203-SB33-07** ***Collected:*** **12/8/2016 1:42:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
CHRYSENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.008	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
HEXACHLOROCYCLOPENTADIENE	0.55	U	0.55	LOD	0.55	LOQ	mg/kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
PYRENE	0.009	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg

Sample ID: **203-SB36-01** ***Collected:*** **12/8/2016 11:45:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
HEXACHLOROCYCLOPENTADIENE	0.57	U	0.57	LOD	0.57	LOQ	mg/kg	UJ	Lcs
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB36-01 **Collected:** 12/8/2016 11:45:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB36-26 **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Dilution-01-BASE/ NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	7.0		0.081	LOD	0.10	LOQ	mg/kg	J	Ms, Ms
2-METHYLNAPHTHALENE	12		0.081	LOD	0.10	LOQ	mg/kg	J	Ms, Ms

Sample ID: 203-SB36-26 **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.61	U	0.61	LOD	0.61	LOQ	mg/kg	UJ	Ms

Sample ID: 203-SB36-26 **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.40	U	0.40	LOD	0.40	LOQ	mg/kg	UJ	Ms
BENZ(A)ANTHRACENE	0.006	J	0.016	LOD	0.021	LOQ	mg/kg	J	Rl, Ms
BENZO(A)PYRENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	UJ	Fd
BENZO(B)FLUORANTHENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	UJ	Fd
CHRYSENE	0.012	J	0.016	LOD	0.021	LOQ	mg/kg	J	Rl, Ms
DIBENZOFURAN	0.58		0.040	LOD	0.040	LOQ	mg/kg	J	Ms
FLUORANTHENE	0.039		0.016	LOD	0.021	LOQ	mg/kg	J	Ms
HEXACHLOROCYCLOPENTADIENE	0.61	U	0.61	LOD	0.61	LOQ	mg/kg	UJ	Ms, Lcs
NAPHTHALENE	3.1		0.016	LOD	0.021	LOQ	mg/kg	J+	Ms
PHENANTHRENE	1.8		0.016	LOD	0.021	LOQ	mg/kg	J	Ms
PYRENE	0.11		0.016	LOD	0.021	LOQ	mg/kg	J	Ms

Sample ID: 203-SB36-26DUP **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.008	J	0.016	LOD	0.020	LOQ	mg/kg	J	Rl
BENZO(A)PYRENE	0.004	J	0.016	LOD	0.020	LOQ	mg/kg	J	Rl, Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB36-26DUP **Collected:** 12/8/2016 1:30:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.006	J	0.016	LOD	0.020	LOQ	mg/kg	J	Rl, Fd
CHRYSENE	0.009	J	0.016	LOD	0.020	LOQ	mg/kg	J	Rl
HEXACHLOROCYCLOPENTADIENE	0.59	U	0.59	LOD	0.59	LOQ	mg/kg	UJ	Lcs

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB19-01 **Collected:** 12/8/2016 1:57:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.0010	J	0.0014	LOD	0.0018	LOQ	mg/kg	J	Rl

Sample ID: 203-SB33-01 **Collected:** 12/8/2016 1:00:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.0016	J	0.0014	LOD	0.0018	LOQ	mg/kg	J	Rl

Sample ID: 203-SB33-07 **Collected:** 12/8/2016 1:42:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.0014	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
ANTHRACENE	0.00065	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
BENZ(A)ANTHRACENE	0.0016	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
BENZO(K)FLUORANTHENE	0.0012	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
FLUORENE	0.00081	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl

Sample ID: 203-SB36-01 **Collected:** 12/8/2016 11:45:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.00082	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
2-METHYLNAPHTHALENE	0.0015	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
ANTHRACENE	0.00043	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB36-01 **Collected:** 12/8/2016 11:45:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.0013	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
BENZO(A)PYRENE	0.0014	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
BENZO(K)FLUORANTHENE	0.00085	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
CHRYSENE	0.0017	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

Method Category: VOA

Method: 8260C **Matrix: SOIL**

Sample ID: 203-SB19-01 **Collected:** 12/8/2016 1:57:00 PM **Analysis Type:** Initial **Dilution:** 0.77

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.007	U	0.007	LOD	0.008	LOQ	mg/kg	UJ	Lcs
ACETONE	0.014	J	0.014	LOD	0.017	LOQ	mg/kg	J	Rl

Sample ID: 203-SB33-01 **Collected:** 12/8/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.008	U	0.008	LOD	0.009	LOQ	mg/kg	UJ	Lcs
ACETONE	0.013	J	0.015	LOD	0.019	LOQ	mg/kg	J	Rl

Sample ID: 203-SB33-07 **Collected:** 12/8/2016 1:42:00 PM **Analysis Type:** Initial **Dilution:** 0.76

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.007	U	0.007	LOD	0.008	LOQ	mg/kg	UJ	Lcs
ACETONE	0.012	J	0.014	LOD	0.017	LOQ	mg/kg	J	Rl
CARBON DISULFIDE	0.002	J	0.002	LOD	0.004	LOQ	mg/kg	J	Rl

Sample ID: 203-SB36-01 **Collected:** 12/8/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 0.7

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.007	U	0.007	LOD	0.008	LOQ	mg/kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **SOIL**

Sample ID: **203-SB36-26** ***Collected:*** **12/8/2016 1:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **36.13**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,2-Trifluoro-1,2,2-trichloroethane [Freon-113]	0.18	U	0.18	LOD	0.44	LOQ	mg/kg	UJ	Ms
1,4-DIOXANE	8.8	U	8.8	LOD	11	LOQ	mg/kg	UJ	Lcs
BENZENE	0.098	J	0.088	LOD	0.22	LOQ	mg/kg	J	Rl, Ms, Fd
CHLOROMETHANE	0.18	U	0.18	LOD	0.22	LOQ	mg/kg	UJ	Ms
CYCLOHEXANE	0.067	J	0.088	LOD	0.22	LOQ	mg/kg	J	Rl, Ms, Ms, Fd
Dichlorodifluoromethane [Freon-12]	0.18	U	0.18	LOD	0.22	LOQ	mg/kg	UJ	Ms
ETHYLBENZENE	0.34		0.088	LOD	0.22	LOQ	mg/kg	J	Ms, Ms, Fd
ISOPROPYLBENZENE	0.12	J	0.088	LOD	0.22	LOQ	mg/kg	J	Rl, Ms, Ms, Fd
m/p-Xylene [3/4-Xylene]	0.37		0.088	LOD	0.22	LOQ	mg/kg	J	Ms, Ms, Fd
Methylcyclohexane	0.29		0.088	LOD	0.22	LOQ	mg/kg	J	Ms, Ms, Fd
O-XYLENE	0.20	J	0.088	LOD	0.22	LOQ	mg/kg	J	Rl, Fd
Trichlorofluoromethane [Freon-11]	0.18	U	0.18	LOD	0.22	LOQ	mg/kg	UJ	Ms
VINYL CHLORIDE	0.088	U	0.088	LOD	0.22	LOQ	mg/kg	UJ	Ms
Xylene (Total)	0.57		0.088	LOD	0.22	LOQ	mg/kg	J	Ms, Ms, Fd

Sample ID: **203-SB36-26DUP** ***Collected:*** **12/8/2016 1:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **35.71**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DIOXANE	8.5	U	8.5	LOD	11	LOQ	mg/kg	UJ	Lcs
BENZENE	0.16	J	0.085	LOD	0.21	LOQ	mg/kg	J	Rl, Fd
CYCLOHEXANE	0.44		0.085	LOD	0.21	LOQ	mg/kg	J	Fd
ETHYLBENZENE	1.4		0.085	LOD	0.21	LOQ	mg/kg	J	Fd
ISOPROPYLBENZENE	0.61		0.085	LOD	0.21	LOQ	mg/kg	J	Fd
m/p-Xylene [3/4-Xylene]	1.4		0.085	LOD	0.21	LOQ	mg/kg	J	Fd
Methylcyclohexane	2.1		0.085	LOD	0.21	LOQ	mg/kg	J	Fd
O-XYLENE	0.32		0.085	LOD	0.21	LOQ	mg/kg	J	Fd
Xylene (Total)	1.8		0.085	LOD	0.21	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Ld	Laboratory Duplicate Precision
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Method Blank Outlier Report

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **6020A**
Matrix: **SOIL**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35137AB351063701A	12/20/2016 3:01:00 AM	SODIUM	11.3 mg/kg	203-SB19-01 203-SB33-01 203-SB33-07 203-SB36-01 203-SB36-26 203-SB36-26DUP
P35137AB351063701B	12/22/2016 12:48:00 AM	CALCIUM	20.8 mg/kg	203-SB19-01 203-SB33-01 203-SB33-07 203-SB36-01 203-SB36-26 203-SB36-26DUP

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
203-SB19-01(Initial1111)	SODIUM	51.3 mg/kg	78.5U mg/kg

Surrogate Outlier Report

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8260C**
Matrix: **SOIL**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
203-SB36-26 (Initial)	TOLUENE-D8	78	85.00-116.00	No Affected Compounds	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **6020A**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB36-26MSD (Wet) (203-SB36-26)	ANTIMONY CADMIUM COBALT SILVER SODIUM	- - - - -	- - 83 - -	72.00-124.00 84.00-116.00 84.00-115.00 83.00-118.00 79.00-125.00	40 (20.00) 34 (20.00) 22 (20.00) 23 (20.00) 23 (20.00)	ANTIMONY CADMIUM COBALT SILVER SODIUM	J (all detects) UJ (all non-detects)
203-SB36-26MS (Wet) 203-SB36-26MSD (Wet) (203-SB36-26)	ALUMINUM ARSENIC BERYLLIUM CHROMIUM COPPER IRON LEAD MAGNESIUM MANGANESE NICKEL POTASSIUM THALLIUM VANADIUM	-1058 51 71 -24 15 -3203 45 -622 -833 18 -38 55 -41	-1169 34 60 -34 -20 -5386 27 -931 -1059 -25 -66 53 -127	78.00-124.00 82.00-118.00 80.00-120.00 83.00-119.00 84.00-119.00 81.00-124.00 84.00-118.00 80.00-123.00 85.00-116.00 84.00-119.00 85.00-119.00 83.00-118.00 82.00-116.00	- - - - - - - - - - - - -	ALUMINUM ARSENIC BERYLLIUM CHROMIUM COPPER IRON LEAD MAGNESIUM MANGANESE NICKEL POTASSIUM THALLIUM VANADIUM	J-(all detects) UJ(all non-detects)
203-SB36-26MS (Wet) 203-SB36-26MSD (Wet) (203-SB36-26)	ZINC	136	130	82.00-119.00	-	ZINC	J+(all detects)
203-SB36-26MSD (Wet) (203-SB36-26)	SELENIUM	-	-	80.00-119.00	21 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
203-SB36-26MS (Wet) 203-SB36-26MSD (Wet) (203-SB36-26)	CALCIUM	-25	-68	86.00-118.00	-	CALCIUM	J-(all detects) UJ(all non-detects)
203-SB36-26MS (Wet) 203-SB36-26MSD (Wet) (203-SB36-26)	BARIUM	-410	-649	86.00-116.00	-	BARIUM	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB36-26MS 203-SB36-26MSD (203-SB36-26)	1-METHYLNAPHTHALENE	201	-	40.00-119.00	24 (20.00)	1-METHYLNAPHTHALENE	J(all detects)
	2,3,4,6-TETRACHLOROPHENOL	-	-	44.00-125.00	28 (20.00)	2,3,4,6-TETRACHLOROPHENOL	
	2,4-DICHLOROPHENOL	-	-	40.00-122.00	21 (20.00)	2,4-DICHLOROPHENOL	
	2,4-DINITROTOLUENE	128	-	48.00-126.00	28 (20.00)	2,4-DINITROTOLUENE	
	2-CHLORONAPHTHALENE	-	-	41.00-114.00	21 (20.00)	2-CHLORONAPHTHALENE	
	2-METHYLNAPHTHALENE	236	-	38.00-122.00	22 (20.00)	2-METHYLNAPHTHALENE	
	4,6-DINITRO-2-METHYLPHENOL	-	-	29.00-132.00	24 (20.00)	4,6-DINITRO-2-METHYLPHENOL	
	4-BROMOPHENYL PHENYL ETHEI	-	-	46.00-124.00	25 (20.00)	4-BROMOPHENYL PHENYL ETH	
	4-CHLORO-3-METHYLPHENOL	-	-	45.00-122.00	21 (20.00)	4-CHLORO-3-METHYLPHENOL	
	4-Chloroaniline [p-Chloroaniline]	-	-	17.00-106.00	86 (20.00)	4-Chloroaniline [p-Chloroaniline]	
	4-NITROANILINE	-	-	44.00-110.00	22 (20.00)	4-NITROANILINE	
	BENZ(A)ANTHRACENE	-	-	49.00-126.00	23 (20.00)	BENZ(A)ANTHRACENE	
	BENZO(A)PYRENE	-	-	45.00-129.00	21 (20.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-	-	45.00-132.00	25 (20.00)	BENZO(B)FLUORANTHENE	
	Butyl benzyl phthalate	-	-	48.00-132.00	22 (20.00)	Butyl benzyl phthalate	
	CARBAZOLE	-	-	50.00-123.00	22 (20.00)	CARBAZOLE	
	CHRYSENE	-	-	50.00-124.00	26 (20.00)	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-	-	45.00-134.00	21 (20.00)	DIBENZO(A,H)ANTHRACENE	
	DIBENZOFURAN	-	-	44.00-120.00	22 (20.00)	DIBENZOFURAN	
	DI-N-BUTYL PHTHALATE	-	-	51.00-128.00	21 (20.00)	DI-N-BUTYL PHTHALATE	
	FLUORANTHENE	-	-	50.00-127.00	23 (20.00)	FLUORANTHENE	
	HEXACHLOROBENZENE	-	-	45.00-122.00	22 (20.00)	HEXACHLOROBENZENE	
	N-NITROSODIPHENYLAMINE	189	151	38.00-127.00	23 (20.00)	N-NITROSODIPHENYLAMINE	
	PENTACHLOROPHENOL	-	-	25.00-133.00	27 (20.00)	PENTACHLOROPHENOL	
	PHENANTHRENE	-	-	50.00-121.00	24 (20.00)	PHENANTHRENE	
	PYRENE	-	-	47.00-127.00	22 (20.00)	PYRENE	
203-SB36-26MS 203-SB36-26MSD (203-SB36-26)	3,3'-DICHLOROBENZIDINE	-	16	22.00-121.00	131 (20.00)	3,3'-DICHLOROBENZIDINE	J(all detects) UJ(all non-detects)
	HEXACHLOROCYCLOPENTADIEN	15	31	57.00-142.00	66 (20.00)	HEXACHLOROCYCLOPENTADIE	
203-SB36-26MS 203-SB36-26MSD (203-SB36-26)	BENZOIC ACID	0	0	22.00-119.00	-	BENZOIC ACID	J-(all detects) UJ(all non-detects)
203-SB36-26MS 203-SB36-26MSD (203-SB36-26)	4-NITROPHENOL	140	-	30.00-132.00	-	4-NITROPHENOL	J+(all detects)
	CAPROLACTAM	255	228	46.00-117.00	-	CAPROLACTAM	
	HEXACHLOROETHANE	-	125	28.00-117.00	-	HEXACHLOROETHANE	
	NAPHTHALENE	140	-	35.00-123.00	-	NAPHTHALENE	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8260C**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB36-26MS 203-SB36-26MSD (203-SB36-26)	1,1,1,2-TETRACHLOROETHANE	-	-	78.00-125.00	23 (20.00)	1,1,1,2-TETRACHLOROETHANE	J(all detects)
	1,1,1-TRICHLOROETHANE	-	-	73.00-130.00	34 (20.00)	1,1,1-TRICHLOROETHANE	
	1,1,2,2-TETRACHLOROETHANE	-	-	70.00-124.00	30 (20.00)	1,1,2,2-TETRACHLOROETHANE	
	1,1,2-TRICHLOROETHANE	154	-	78.00-121.00	60 (20.00)	1,1,2-TRICHLOROETHANE	
	1,1-DICHLOROETHANE	-	-	76.00-125.00	30 (20.00)	1,1-DICHLOROETHANE	
	1,1-DICHLOROETHENE	-	-	70.00-131.00	33 (20.00)	1,1-DICHLOROETHENE	
	1,2,3-TRICHLOROBENZENE	-	-	66.00-130.00	22 (20.00)	1,2,3-TRICHLOROBENZENE	
	1,2,3-TRICHLOROPROPANE	147	-	73.00-125.00	48 (20.00)	1,2,3-TRICHLOROPROPANE	
	1,2-DIBROMO-3-CHLOROPROPAN	-	-	61.00-132.00	38 (20.00)	1,2-DIBROMO-3-CHLOROPROPA	
	1,2-DIBROMOETHANE	-	-	78.00-122.00	25 (20.00)	1,2-DIBROMOETHANE	
	1,2-DICHLOROETHANE	-	-	73.00-128.00	28 (20.00)	1,2-DICHLOROETHANE	
	1,2-DICHLOROPROPANE	-	-	76.00-123.00	29 (20.00)	1,2-DICHLOROPROPANE	
	1,4-DIOXANE	-	-	55.00-138.00	61 (20.00)	1,4-DIOXANE	
	2-Butanone [MEK]	-	-	51.00-148.00	37 (20.00)	2-Butanone [MEK]	
	2-HEXANONE	-	-	53.00-145.00	44 (20.00)	2-HEXANONE	
	4-Methyl-2-pentanone [MIBK]	-	-	65.00-135.00	33 (20.00)	4-Methyl-2-pentanone [MIBK]	
	ACETONE	-	-	36.00-164.00	34 (20.00)	ACETONE	
	BENZENE	-	-	77.00-121.00	35 (20.00)	BENZENE	
	BROMOCHLOROMETHANE	-	-	78.00-125.00	22 (20.00)	BROMOCHLOROMETHANE	
	BROMODICHLOROMETHANE	-	-	75.00-127.00	30 (20.00)	BROMODICHLOROMETHANE	
	BROMOFORM	-	-	67.00-132.00	22 (20.00)	BROMOFORM	
	BROMOMETHANE	-	-	53.00-143.00	35 (20.00)	BROMOMETHANE	
	CARBON DISULFIDE	-	-	63.00-132.00	35 (20.00)	CARBON DISULFIDE	
	CARBON TETRACHLORIDE	-	-	70.00-135.00	31 (20.00)	CARBON TETRACHLORIDE	
	CHLOROBENZENE	-	-	79.00-120.00	26 (20.00)	CHLOROBENZENE	
	CHLORODIBROMOMETHANE	-	-	74.00-126.00	25 (20.00)	CHLORODIBROMOMETHANE	
	CHLOROETHANE	-	-	59.00-139.00	39 (20.00)	CHLOROETHANE	
	CHLOROFORM	-	-	78.00-123.00	30 (20.00)	CHLOROFORM	
	CIS-1,2-DICHLOROETHENE	-	-	77.00-123.00	34 (20.00)	CIS-1,2-DICHLOROETHENE	
	CIS-1,3-DICHLOROPROPENE	-	-	74.00-126.00	28 (20.00)	CIS-1,3-DICHLOROPROPENE	
	CYCLOHEXANE	141	-	67.00-131.00	81 (20.00)	CYCLOHEXANE	
	ETHYLBENZENE	199	-	76.00-122.00	70 (20.00)	ETHYLBENZENE	
	ISOPROPYLBENZENE	142	-	68.00-134.00	57 (20.00)	ISOPROPYLBENZENE	
	m/p-Xylene [3/4-Xylene]	145	-	77.00-124.00	57 (20.00)	m/p-Xylene [3/4-Xylene]	
	METHYL ACETATE	-	-	53.00-144.00	23 (20.00)	METHYL ACETATE	
	Methyl tert-butyl ether [MTBE]	-	-	73.00-125.00	25 (20.00)	Methyl tert-butyl ether [MTBE]	
	Methylcyclohexane	292	-	66.00-133.00	110 (20.00)	Methylcyclohexane	
	METHYLENE CHLORIDE	-	-	70.00-128.00	30 (20.00)	METHYLENE CHLORIDE	
	STYRENE	-	-	76.00-124.00	27 (20.00)	STYRENE	
	TETRACHLOROETHENE	-	-	73.00-128.00	32 (20.00)	TETRACHLOROETHENE	
	TOLUENE	-	-	77.00-121.00	24 (20.00)	TOLUENE	
	TRANS-1,2-DICHLOROETHENE	-	-	74.00-125.00	33 (20.00)	TRANS-1,2-DICHLOROETHENE	
	TRANS-1,3-DICHLOROPROPENE	-	-	71.00-130.00	25 (20.00)	TRANS-1,3-DICHLOROPROPENE	
	TRICHLOROETHENE	-	-	77.00-123.00	29 (20.00)	TRICHLOROETHENE	
	Xylene (Total)	125	-	78.00-124.00	45 (20.00)	Xylene (Total)	
203-SB36-26MS 203-SB36-26MSD (203-SB36-26)	1,1,2-Trifluoro-1,2,2-trichloroethane [	-	57	66.00-136.00	47 (20.00)	1,1,2-Trifluoro-1,2,2-trichloroethane	J(all detects) UJ(all non-detects)
	CHLOROMETHANE	-	39	50.00-136.00	49 (20.00)	CHLOROMETHANE	
	Dichlorodifluoromethane [Freon-12]	24	12	29.00-149.00	84 (20.00)	Dichlorodifluoromethane [Freon-12	
	Trichlorofluoromethane [Freon-11]	58	43	62.00-140.00	49 (20.00)	Trichlorofluoromethane [Freon-11]	
	VINYL CHLORIDE	51	37	56.00-135.00	50 (20.00)	VINYL CHLORIDE	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB36-26DUP (Wet) (203-SB36-26)	ANTIMONY CADMIUM SILVER	200 200 51	20.00 20.00 20.00	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LDLCSQ355SLD026 (203-SB19-01 203-SB33-01 203-SB33-07 203-SB36-01 203-SB36-26 203-SB36-26DUP)	HEXACHLOROCYCLOPENTADIEN	26	-	57.00-142.00	-	HEXACHLOROCYCLOPENTADIE	J- (all detects) UJ (all non-detects)

Method: 8260C
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSA37YA163502AA (203-SB19-01 203-SB33-01 203-SB33-07 203-SB36-01)	4-Methyl-2-pentanone [MIBK]	-	62	65.00-135.00	-	4-Methyl-2-pentanone [MIBK]	J-(all detects) UJ(all non-detects)
LCSR46YR163561AA (203-SB36-26DUP)	1,4-DIOXANE	-	-	55.00-138.00	22 (20.00)	1,4-DIOXANE	J(all detects) UJ(all non-detects)
LCSR99YR163569AA (203-SB36-26)	1,4-DIOXANE	-	-	55.00-138.00	22 (20.00)	1,4-DIOXANE	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB19-01	BERYLLIUM SODIUM	J J	0.146 51.3	0.196 78.5	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB33-01	BERYLLIUM SODIUM THALLIUM	J J J	0.144 60.2 0.0729	0.203 81.2 0.203	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB33-07	SELENIUM THALLIUM	J J	0.112 0.173	0.728 0.182	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB36-01	SELENIUM THALLIUM	J J	0.320 0.169	0.759 0.190	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB36-26	CADMIUM SELENIUM SILVER	J J J	0.0656 0.161 0.0292	0.216 0.865 0.216	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB36-26DUP	CADMIUM SELENIUM THALLIUM	J J J	0.0590 0.100 0.175	0.214 0.854 0.214	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)

Method: 7199

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB19-01	Hexavalent Chromium [Cr (VI)]	J	0.31	0.44	LOQ	mg/kg	J (all detects)
203-SB33-07	Hexavalent Chromium [Cr (VI)]	J	0.39	0.44	LOQ	mg/kg	J (all detects)

Method: 7471B

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB36-01	MERCURY	J	0.0145	0.109	LOQ	mg/kg	J (all detects)

Method: 8260C

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB19-01	ACETONE	J	0.014	0.017	LOQ	mg/kg	J (all detects)
203-SB33-01	ACETONE	J	0.013	0.019	LOQ	mg/kg	J (all detects)
203-SB33-07	ACETONE CARBON DISULFIDE	J J	0.012 0.002	0.017 0.004	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB36-26	BENZENE CYCLOHEXANE ISOPROPYLBENZENE O-XYLENE	J J J J	0.098 0.067 0.12 0.20	0.22 0.22 0.22 0.22	LOQ LOQ LOQ LOQ	mg/kg mg/kg mg/kg mg/kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8260C

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB36-26DUP	BENZENE	J	0.16	0.21	LOQ	mg/kg	J (all detects)

Method: 8270D

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB19-01	ACENAPHTHENE	J	0.007	0.019	LOQ	mg/kg	J (all detects)
	ACENAPHTHYLENE	J	0.005	0.019	LOQ	mg/kg	
	ANTHRACENE	J	0.005	0.019	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.006	0.019	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.004	0.019	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.007	0.019	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.009	0.019	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.004	0.019	LOQ	mg/kg	
	CHRYSENE	J	0.008	0.019	LOQ	mg/kg	
	FLUORANTHENE	J	0.012	0.019	LOQ	mg/kg	
	FLUORENE	J	0.011	0.019	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.004	0.019	LOQ	mg/kg	
	NAPHTHALENE	J	0.014	0.019	LOQ	mg/kg	
	PYRENE	J	0.013	0.019	LOQ	mg/kg	
203-SB33-01	PYRENE	J	0.004	0.018	LOQ	mg/kg	J (all detects)
203-SB33-07	BENZ(A)ANTHRACENE	J	0.005	0.019	LOQ	mg/kg	J (all detects)
	Benzo (g,h,i) perylene	J	0.006	0.019	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.010	0.019	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.010	0.019	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.005	0.019	LOQ	mg/kg	
	CHRYSENE	J	0.007	0.019	LOQ	mg/kg	
	FLUORANTHENE	J	0.008	0.019	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.006	0.019	LOQ	mg/kg	
	PHENANTHRENE	J	0.005	0.019	LOQ	mg/kg	
	PYRENE	J	0.009	0.019	LOQ	mg/kg	
203-SB36-26	BENZ(A)ANTHRACENE	J	0.006	0.021	LOQ	mg/kg	J (all detects)
	CHRYSENE	J	0.012	0.021	LOQ	mg/kg	
203-SB36-26DUP	BENZ(A)ANTHRACENE	J	0.008	0.020	LOQ	mg/kg	J (all detects)
	BENZO(A)PYRENE	J	0.004	0.020	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.006	0.020	LOQ	mg/kg	
	CHRYSENE	J	0.009	0.020	LOQ	mg/kg	

Method: 8270D SIM

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB19-01	DIBENZO(A,H)ANTHRACENE	J	0.0010	0.0018	LOQ	mg/kg	J (all detects)
203-SB33-01	DIBENZO(A,H)ANTHRACENE	J	0.0016	0.0018	LOQ	mg/kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D SIM**

Matrix: **SOIL**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
203-SB33-07	2-METHYLNAPHTHALENE	J	0.0014	0.0018	LOQ	mg/kg	
	ANTHRACENE	J	0.00065	0.0018	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.0016	0.0018	LOQ	mg/kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.0012	0.0018	LOQ	mg/kg	
	FLUORENE	J	0.00081	0.0018	LOQ	mg/kg	
203-SB36-01	1-METHYLNAPHTHALENE	J	0.00082	0.0019	LOQ	mg/kg	
	2-METHYLNAPHTHALENE	J	0.0015	0.0019	LOQ	mg/kg	
	ANTHRACENE	J	0.00043	0.0019	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.0013	0.0019	LOQ	mg/kg	J (all detects)
	BENZO(A)PYRENE	J	0.0014	0.0019	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.00085	0.0019	LOQ	mg/kg	
	CHRYSENE	J	0.0017	0.0019	LOQ	mg/kg	

Field Duplicate RPD Report

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB36-26 (Dry)	203-SB36-26DUP (Dry)			
CADMIUM	0.0656	0.0590	11	30.00	
COBALT	10.1	7.83	25	30.00	No Qualifiers Applied
IRON	24700	19200	25	30.00	
ALUMINUM	17900	11500	44	30.00	
ARSENIC	3.88	2.41	47	30.00	
BARIUM	112	71.8	44	30.00	
BERYLLIUM	0.736	0.504	37	30.00	
CALCIUM	2080	1080	63	30.00	
CHROMIUM	33.0	22.1	40	30.00	
COPPER	19.0	13.3	35	30.00	
LEAD	7.13	5.07	34	30.00	
MAGNESIUM	6670	4140	47	30.00	J(all detects)
MANGANESE	310	218	35	30.00	UJ(all non-detects)
NICKEL	21.6	14.3	41	30.00	
POTASSIUM	5080	3070	49	30.00	
SELENIUM	0.161	0.100	47	30.00	
SILVER	0.0292	0.214 U	200	30.00	
SODIUM	283	186	41	30.00	
THALLIUM	0.318	0.175	58	30.00	
VANADIUM	49.0	30.7	46	30.00	
ZINC	48.1	31.6	41	30.00	

Method: 7199
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB36-26 (Dry)	203-SB36-26DUP (Dry)			
Hexavalent Chromium [Cr (VI)]	0.64	0.58	10	30.00	No Qualifiers Applied

Method: 8260C
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB36-26	203-SB36-26DUP			
BENZENE	0.098	0.16	48	30.00	
CYCLOHEXANE	0.067	0.44	147	30.00	
ETHYLBENZENE	0.34	1.4	122	30.00	
ISOPROPYLBENZENE	0.12	0.61	134	30.00	J(all detects)
m/p-Xylene [3/4-Xylene]	0.37	1.4	116	30.00	UJ(all non-detects)
Methylcyclohexane	0.29	2.1	151	30.00	
O-XYLENE	0.20	0.32	46	30.00	
Xylene (Total)	0.57	1.8	104	30.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: APP04 **Laboratory: LLL**

EDD Filename: APP04-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB36-26	203-SB36-26DUP			
1,1-BIPHENYL	1.7	1.6	6	30.00	No Qualifiers Applied
1-METHYLNAPHTHALENE	7.0	7.6	8	30.00	
2-METHYLNAPHTHALENE	12	13	8	30.00	
ACENAPHTHENE	0.64	0.63	2	30.00	
ACENAPHTHYLENE	0.24	0.24	0	30.00	
ANTHRACENE	0.26	0.25	4	30.00	
BENZ(A)ANTHRACENE	0.006	0.008	29	30.00	
CHRYSENE	0.012	0.009	29	30.00	
DIBENZOFURAN	0.58	0.58	0	30.00	
FLUORANTHENE	0.039	0.047	19	30.00	
FLUORENE	0.91	0.87	4	30.00	
NAPHTHALENE	3.1	3.2	3	30.00	
PHENANTHRENE	1.8	1.8	0	30.00	
PYRENE	0.11	0.11	0	30.00	
BENZO(A)PYRENE	0.021 U	0.004	200	30.00	J(all detects) UJ(all non-detects)
BENZO(B)FLUORANTHENE	0.021 U	0.006	200	30.00	

Method: 9045D
Matrix: SOIL

Analyte	Concentration (Std. Units)		Sample RPD	eQAPP RPD	Flag
	203-SB36-26	203-SB36-26DUP			
PH	8.03	7.95	1	30.00	No Qualifiers Applied

Method: Calculation
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB36-26 (Dry)	203-SB36-26DUP (Dry)			
TRIVALENT CHROMIUM	32.3	21.5	40	20.00	J(all detects) UJ(all non-detects)

Method: D1498
Matrix: SOIL

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	203-SB36-26	203-SB36-26DUP			
Oxidation Reduction Potential (ORP)	417	441	6	30.00	No Qualifiers Applied

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Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP05	
Date(s) of Collection:	December 8th, 2016	
Number/Type Samples & Analyses:	5 soil samples for a project-specific list of VOCs, SVOCs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	January 29th, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) APP05. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✗ Laboratory duplicate results

NA Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	SR
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **SOIL**

Sample ID: **203-SB19-20** ***Collected:*** **12/8/2016 2:50:00 PM** ***Analysis Type:*** **Initial1** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	6970		8.52	LOD	34.1	LOQ	mg/kg	J+	Ms
ANTIMONY	0.170	U	0.170	LOD	0.341	LOQ	mg/kg	UJ	Ms, Ms
COBALT	4.06		0.0852	LOD	0.170	LOQ	mg/kg	J	Ms
IRON	11200		17.0	LOD	34.1	LOQ	mg/kg	J	Ms, Ms
LEAD	3.96		0.0426	LOD	0.341	LOQ	mg/kg	J	Ms, Ld
MAGNESIUM	2470		8.52	LOD	34.1	LOQ	mg/kg	J+	Ms
MANGANESE	182		0.170	LOD	0.681	LOQ	mg/kg	J-	Ms
POTASSIUM	1830		17.0	LOD	68.1	LOQ	mg/kg	J+	Ms
SILVER	0.0426	U	0.0426	LOD	0.170	LOQ	mg/kg	UJ	Ms
SODIUM	150		17.0	LOD	68.1	LOQ	mg/kg	J	Ms
THALLIUM	0.116	J	0.0426	LOD	0.170	LOQ	mg/kg	J	Rl, Ld
VANADIUM	20.8		0.0852	LOD	0.170	LOQ	mg/kg	J+	Ms
ZINC	19.8		2.56	LOD	5.11	LOQ	mg/kg	J+	Ms
CHROMIUM	13.2		0.170	LOD	0.681	LOQ	mg/kg	J	Ms, Ld

Sample ID: **203-SB19-20** ***Collected:*** **12/8/2016 2:50:00 PM** ***Analysis Type:*** **Initial3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.170	U	0.170	LOD	0.681	LOQ	mg/kg	UJ	Ms

Sample ID: **203-SB19-20** ***Collected:*** **12/8/2016 2:50:00 PM** ***Analysis Type:*** **Initial4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1840		34.1	LOD	68.1	LOQ	mg/kg	J	Ms, Ld

Sample ID: **203-SB19-20** ***Collected:*** **12/8/2016 2:50:00 PM** ***Analysis Type:*** **Initial5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	44.4		0.341	LOD	0.681	LOQ	mg/kg	J+	Ms

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB35-01 **Collected:** 12/8/2016 3:37:00 PM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0929	J	0.176	LOD	0.705	LOQ	mg/kg	J	RI

Sample ID: 203-SB35-01 **Collected:** 12/8/2016 3:37:00 PM **Analysis Type:** Initial5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0404	J	0.0882	LOD	0.176	LOQ	mg/kg	J	RI
THALLIUM	0.0478	J	0.0441	LOD	0.176	LOQ	mg/kg	J	RI

Sample ID: 203-SB35-33 **Collected:** 12/8/2016 3:55:00 PM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.115	J	0.0383	LOD	0.153	LOQ	mg/kg	J	RI

Sample ID: 203-SB35-33 **Collected:** 12/8/2016 3:55:00 PM **Analysis Type:** Initial4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.159	J	0.153	LOD	0.612	LOQ	mg/kg	J	RI

Sample ID: 203-SB37-01 **Collected:** 12/8/2016 4:07:00 PM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.100	J	0.209	LOD	0.835	LOQ	mg/kg	J	RI

Sample ID: 203-SB37-01 **Collected:** 12/8/2016 4:07:00 PM **Analysis Type:** Initial6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.166	J	0.104	LOD	0.209	LOQ	mg/kg	J	RI
THALLIUM	0.0805	J	0.0522	LOD	0.209	LOQ	mg/kg	J	RI

Sample ID: 203-SB37-25 **Collected:** 12/8/2016 4:31:00 PM **Analysis Type:** Initial4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0418	J	0.0792	LOD	0.158	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: SOIL**

Sample ID: 203-SB37-25 **Collected:** 12/8/2016 4:31:00 PM **Analysis Type:** Initial4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.139	J	0.0396	LOD	0.158	LOQ	mg/kg	J	Rl

Method Category: METALS

Method: 7199 **Matrix: SOIL**

Sample ID: 203-SB19-20 **Collected:** 12/8/2016 2:50:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.32	J	0.44	LOD	0.44	LOQ	mg/kg	J	Rl

Sample ID: 203-SB35-01 **Collected:** 12/8/2016 3:37:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.42	J	0.46	LOD	0.46	LOQ	mg/kg	J	Rl

Sample ID: 203-SB37-25 **Collected:** 12/8/2016 4:31:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.42	J	0.45	LOD	0.45	LOQ	mg/kg	J	Rl

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB19-20 **Collected:** 12/8/2016 2:50:00 PM **Analysis Type:** Dilution-01-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	22		0.15	LOD	0.18	LOQ	mg/kg	J-	Ms
2-METHYLNAPHTHALENE	37		0.15	LOD	0.18	LOQ	mg/kg	J-	Ms
NAPHTHALENE	11		0.15	LOD	0.18	LOQ	mg/kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB19-20 **Collected:** 12/8/2016 2:50:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	1.1	U	1.1	LOD	1.1	LOQ	mg/kg	UJ	Ms

Sample ID: 203-SB19-20 **Collected:** 12/8/2016 2:50:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.007	J	0.015	LOD	0.018	LOQ	mg/kg	J	RI
BENZO(A)PYRENE	0.004	J	0.015	LOD	0.018	LOQ	mg/kg	J	RI
CHRYSENE	0.013	J	0.015	LOD	0.018	LOQ	mg/kg	J	RI
HEXACHLOROCYCLOPENTADIENE	0.54	U	0.54	LOD	0.54	LOQ	mg/kg	UJ	Ms

Sample ID: 203-SB35-01 **Collected:** 12/8/2016 3:37:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-CHLORONAPHTHALENE	0.008	J	0.015	LOD	0.037	LOQ	mg/kg	J	RI
BENZO(A)PYRENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
BENZO(B)FLUORANTHENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
CHRYSENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
FLUORANTHENE	0.013	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI

Sample ID: 203-SB35-33 **Collected:** 12/8/2016 3:55:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.012	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
Benzo (g,h,i) perylene	0.008	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
BENZO(A)PYRENE	0.011	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
BENZO(B)FLUORANTHENE	0.011	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
BENZO(K)FLUORANTHENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
CHRYSENE	0.014	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
INDENO(1,2,3-CD)PYRENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB37-01 **Collected:** 12/8/2016 4:07:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.035	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
ACENAPHTHYLENE	0.027	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
Benzo (g,h,i) perylene	0.050	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
BENZO(A)PYRENE	0.039	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
BENZO(B)FLUORANTHENE	0.024	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
BENZO(K)FLUORANTHENE	0.020	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
CHRYSENE	0.024	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
FLUORANTHENE	0.019	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
FLUORENE	0.062	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
INDENO(1,2,3-CD)PYRENE	0.019	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI
PYRENE	0.028	J	0.073	LOD	0.093	LOQ	mg/kg	J	RI

Sample ID: 203-SB37-25 **Collected:** 12/8/2016 4:31:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
FLUORANTHENE	0.013	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI

Method Category: VOA

Method: 8260C **Matrix: SOIL**

Sample ID: 203-SB19-20 **Collected:** 12/8/2016 2:50:00 PM **Analysis Type:** Initial **Dilution:** 32.13

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DIOXANE	7.1	U	7.1	LOD	8.8	LOQ	mg/kg	UJ	Lcs
BENZENE	0.033	J	0.071	LOD	0.18	LOQ	mg/kg	J	RI
CYCLOHEXANE	0.075	J	0.071	LOD	0.18	LOQ	mg/kg	J	RI, Ms
ETHYLBENZENE	0.26		0.071	LOD	0.18	LOQ	mg/kg	J+	Ms
ISOPROPYLBENZENE	0.10	J	0.071	LOD	0.18	LOQ	mg/kg	J	RI, Ms
m/p-Xylene [3/4-Xylene]	0.65		0.071	LOD	0.18	LOQ	mg/kg	J	Ms, Ms
Methylcyclohexane	0.30		0.071	LOD	0.18	LOQ	mg/kg	J+	Ms
O-XYLENE	0.17	J	0.071	LOD	0.18	LOQ	mg/kg	J	RI, Ms

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: VOA

Method: 8260C **Matrix:** SOIL

Sample ID: 203-SB19-20 **Collected:** 12/8/2016 2:50:00 PM **Analysis Type:** Initial **Dilution:** 32.13

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.048	J	0.071	LOD	0.18	LOQ	mg/kg	J	Rl, Ms
Xylene (Total)	0.82		0.071	LOD	0.18	LOQ	mg/kg	J	Ms, Ms

Sample ID: 203-SB35-01 **Collected:** 12/8/2016 3:37:00 PM **Analysis Type:** Initial **Dilution:** 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.008	U	0.008	LOD	0.01	LOQ	mg/kg	UJ	Lcs
BENZENE	0.001	J	0.002	LOD	0.005	LOQ	mg/kg	J	Rl
CYCLOHEXANE	0.002	J	0.002	LOD	0.005	LOQ	mg/kg	J	Rl
ISOPROPYLBENZENE	0.002	J	0.002	LOD	0.005	LOQ	mg/kg	J	Rl

Sample ID: 203-SB35-33 **Collected:** 12/8/2016 3:55:00 PM **Analysis Type:** Initial **Dilution:** 37.71

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DIOXANE	8.4	U	8.4	LOD	10	LOQ	mg/kg	UJ	Lcs
BENZENE	0.022	J	0.084	LOD	0.21	LOQ	mg/kg	J	Rl
ISOPROPYLBENZENE	0.14	J	0.084	LOD	0.21	LOQ	mg/kg	J	Rl
Methylcyclohexane	0.096	J	0.084	LOD	0.21	LOQ	mg/kg	J	Rl
O-XYLENE	0.090	J	0.084	LOD	0.21	LOQ	mg/kg	J	Rl

Sample ID: 203-SB37-01 **Collected:** 12/8/2016 4:07:00 PM **Analysis Type:** Initial **Dilution:** 45.29

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DIOXANE	9.9	U	9.9	LOD	12	LOQ	mg/kg	UJ	Lcs

Sample ID: 203-SB37-25 **Collected:** 12/8/2016 4:31:00 PM **Analysis Type:** Initial **Dilution:** 42.09

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DIOXANE	9.3	U	9.3	LOD	12	LOQ	mg/kg	UJ	Lcs
ETHYLBENZENE	0.055	J	0.093	LOD	0.23	LOQ	mg/kg	J	Rl
ISOPROPYLBENZENE	0.054	J	0.093	LOD	0.23	LOQ	mg/kg	J	Rl
Methylcyclohexane	0.22	J	0.093	LOD	0.23	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Ld	Laboratory Duplicate Precision
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Method Blank Outlier Report

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **6020A**
Matrix: **SOIL**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35137BB351063702A	12/20/2016 12:56:00 AM	SODIUM	10.2 mg/kg	203-SB19-20 203-SB35-01 203-SB35-33 203-SB37-01 203-SB37-25

Surrogate Outlier Report

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8260C**
Matrix: **SOIL**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
203-SB37-25 (Initial)	TOLUENE-D8	82	85.00-116.00	No Affected Compounds	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB19-20MS (Wet) 203-SB19-20MSD (Wet) (203-SB19-20)	ANTIMONY COBALT IRON SILVER SODIUM	64 - 59 - -	48 - 1179 - -	72.00-124.00 84.00-115.00 81.00-124.00 83.00-118.00 79.00-125.00	53 (20.00) 21 (20.00) - 30 (20.00) 21 (20.00)	ANTIMONY COBALT IRON SILVER SODIUM	J (all detects) UJ (all non-detects)
203-SB19-20MS (Wet) 203-SB19-20MSD (Wet) (203-SB19-20)	MANGANESE	40	-117	85.00-116.00	-	MANGANESE	J-(all detects) UJ(all non-detects)
203-SB19-20MS (Wet) 203-SB19-20MSD (Wet) (203-SB19-20)	ALUMINUM CADMIUM CHROMIUM LEAD MAGNESIUM POTASSIUM VANADIUM ZINC	322 - - - - - - 197	800 117 157 196 283 125 150 207	78.00-124.00 84.00-116.00 83.00-119.00 84.00-118.00 80.00-123.00 85.00-119.00 82.00-116.00 82.00-119.00	- - - - - - - -	ALUMINUM CADMIUM CHROMIUM LEAD MAGNESIUM POTASSIUM VANADIUM ZINC	J+(all detects)
203-SB19-20MSD (Wet) (203-SB19-20)	SELENIUM	-	-	80.00-119.00	23 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
203-SB19-20MS (Wet) 203-SB19-20MSD (Wet) (203-SB19-20)	CALCIUM	31	13	86.00-118.00	-	CALCIUM	J-(all detects) UJ(all non-detects)
203-SB19-20MS (Wet) 203-SB19-20MSD (Wet) (203-SB19-20)	BARIUM	164	207	86.00-116.00	-	BARIUM	J+(all detects)

Method: 8270D
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB19-20MSD (203-SB19-20)	3,3'-DICHLOROBENZIDINE 4-Chloroaniline [p-Chloroaniline]	- -	- -	22.00-121.00 17.00-106.00	55 (20.00) 35 (20.00)	3,3'-DICHLOROBENZIDINE 4-Chloroaniline [p-Chloroaniline]	J(all detects)
203-SB19-20MS 203-SB19-20MSD (203-SB19-20)	2,4-DINITROPHENOL	0	-	16.00-132.00	200 (20.00)	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)
203-SB19-20MS 203-SB19-20MSD (203-SB19-20)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIEN NAPHTHALENE	-129 -423 0 -8	-209 -513 0 -37	40.00-119.00 38.00-122.00 57.00-142.00 35.00-123.00	- - - -	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIE NAPHTHALENE	J-(all detects) UJ(all non-detects)
203-SB19-20MS 203-SB19-20MSD (203-SB19-20)	2,4-DINITROTOLUENE 4-NITROPHENOL BENZALDEHYDE BENZOIC ACID CAPROLACTAM HEXACHLOROETHANE N-NITROSODIPHENYLAMINE	128 200 100 191 495 146 318	- 164 - 192 483 138 291	48.00-126.00 30.00-132.00 10.00-93.00 22.00-119.00 46.00-117.00 28.00-117.00 38.00-127.00	- - - - - - -	2,4-DINITROTOLUENE 4-NITROPHENOL BENZALDEHYDE BENZOIC ACID CAPROLACTAM HEXACHLOROETHANE N-NITROSODIPHENYLAMINE	J+(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8260C**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
203-SB19-20MS 203-SB19-20MSD (203-SB19-20)	1,2-DIBROMO-3-CHLOROPROPAN CARBON DISULFIDE m/p-Xylene [3/4-Xylene] Xylene (Total)	- - 183 169	- - 231 212	61.00-132.00 63.00-132.00 77.00-124.00 78.00-124.00	21 (20.00) 23 (20.00) 22 (20.00) 21 (20.00)	1,2-DIBROMO-3-CHLOROPROPA CARBON DISULFIDE m/p-Xylene [3/4-Xylene] Xylene (Total)	J(all detects)
203-SB19-20MS 203-SB19-20MSD (203-SB19-20)	1,1,2-TRICHLOROETHANE 1,2,3-TRICHLOROPROPANE CYCLOHEXANE ETHYLBENZENE ISOPROPYLBENZENE Methylcyclohexane O-XYLENE TOLUENE	137 129 - 181 - 259 142 -	157 137 137 221 153 308 172 127	78.00-121.00 73.00-125.00 67.00-131.00 76.00-122.00 68.00-134.00 66.00-133.00 77.00-123.00 77.00-121.00	- - - - - - - -	1,1,2-TRICHLOROETHANE 1,2,3-TRICHLOROPROPANE CYCLOHEXANE ETHYLBENZENE ISOPROPYLBENZENE Methylcyclohexane O-XYLENE TOLUENE	J+(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB19-20DUP (Wet) (203-SB19-20)	CALCIUM	48	20.00	
	CHROMIUM	46	20.00	J (all detects)
	LEAD	23	20.00	UJ (all non-detects)
	THALLIUM	22	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8260C**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCSA37YA163502AA (203-SB35-01)	4-Methyl-2-pentanone [MIBK]	-	62	65.00-135.00	-	4-Methyl-2-pentanone [MIBK]	J- (all detects) UJ (all non-detects)
LCSR46YR163561AA (203-SB19-20 203-SB35-33 203-SB37-01 203-SB37-25)	1,4-DIOXANE	-	-	55.00-138.00	22 (20.00)	1,4-DIOXANE	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB19-20	THALLIUM	J	0.116	0.170	LOQ	mg/kg	J (all detects)
203-SB35-01	CADMIUM	J	0.0404	0.176	LOQ	mg/kg	J (all detects)
	SELENIUM	J	0.0929	0.705	LOQ	mg/kg	
	THALLIUM	J	0.0478	0.176	LOQ	mg/kg	
203-SB35-33	SELENIUM	J	0.159	0.612	LOQ	mg/kg	J (all detects)
	THALLIUM	J	0.115	0.153	LOQ	mg/kg	
203-SB37-01	CADMIUM	J	0.166	0.209	LOQ	mg/kg	J (all detects)
	SELENIUM	J	0.100	0.835	LOQ	mg/kg	
	THALLIUM	J	0.0805	0.209	LOQ	mg/kg	
203-SB37-25	CADMIUM	J	0.0418	0.158	LOQ	mg/kg	J (all detects)
	THALLIUM	J	0.139	0.158	LOQ	mg/kg	

Method: 7199

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB19-20	Hexavalent Chromium [Cr (VI)]	J	0.32	0.44	LOQ	mg/kg	J (all detects)
203-SB35-01	Hexavalent Chromium [Cr (VI)]	J	0.42	0.46	LOQ	mg/kg	J (all detects)
203-SB37-25	Hexavalent Chromium [Cr (VI)]	J	0.42	0.45	LOQ	mg/kg	J (all detects)

Method: 8260C

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB19-20	BENZENE	J	0.033	0.18	LOQ	mg/kg	J (all detects)
	CYCLOHEXANE	J	0.075	0.18	LOQ	mg/kg	
	ISOPROPYLBENZENE	J	0.10	0.18	LOQ	mg/kg	
	O-XYLENE	J	0.17	0.18	LOQ	mg/kg	
	TOLUENE	J	0.048	0.18	LOQ	mg/kg	
203-SB35-01	BENZENE	J	0.001	0.005	LOQ	mg/kg	J (all detects)
	CYCLOHEXANE	J	0.002	0.005	LOQ	mg/kg	
	ISOPROPYLBENZENE	J	0.002	0.005	LOQ	mg/kg	
203-SB35-33	BENZENE	J	0.022	0.21	LOQ	mg/kg	J (all detects)
	ISOPROPYLBENZENE	J	0.14	0.21	LOQ	mg/kg	
	Methylcyclohexane	J	0.096	0.21	LOQ	mg/kg	
	O-XYLENE	J	0.090	0.21	LOQ	mg/kg	
203-SB37-25	ETHYLBENZENE	J	0.055	0.23	LOQ	mg/kg	J (all detects)
	ISOPROPYLBENZENE	J	0.054	0.23	LOQ	mg/kg	
	Methylcyclohexane	J	0.22	0.23	LOQ	mg/kg	

Reporting Limit Outliers

Lab Reporting Batch ID: APP05 **Laboratory: LLL**

EDD Filename: APP05-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**

Matrix: **SOIL**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
203-SB19-20	BENZ(A)ANTHRACENE	J	0.007	0.018	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.004	0.018	LOQ	mg/kg	J (all detects)
	CHRYSENE	J	0.013	0.018	LOQ	mg/kg	
203-SB35-01	2-CHLORONAPHTHALENE	J	0.008	0.037	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.004	0.019	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.005	0.019	LOQ	mg/kg	J (all detects)
	CHRYSENE	J	0.004	0.019	LOQ	mg/kg	
	FLUORANTHENE	J	0.013	0.019	LOQ	mg/kg	
203-SB35-33	BENZ(A)ANTHRACENE	J	0.012	0.019	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.008	0.019	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.011	0.019	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.011	0.019	LOQ	mg/kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.006	0.019	LOQ	mg/kg	
	CHRYSENE	J	0.014	0.019	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.006	0.019	LOQ	mg/kg	
203-SB37-01	ACENAPHTHENE	J	0.035	0.093	LOQ	mg/kg	
	ACENAPHTHYLENE	J	0.027	0.093	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.050	0.093	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.039	0.093	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.024	0.093	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.020	0.093	LOQ	mg/kg	J (all detects)
	CHRYSENE	J	0.024	0.093	LOQ	mg/kg	
	FLUORANTHENE	J	0.019	0.093	LOQ	mg/kg	
	FLUORENE	J	0.062	0.093	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.019	0.093	LOQ	mg/kg	
	PYRENE	J	0.028	0.093	LOQ	mg/kg	
203-SB37-25	BENZ(A)ANTHRACENE	J	0.004	0.019	LOQ	mg/kg	J (all detects)
	FLUORANTHENE	J	0.013	0.019	LOQ	mg/kg	

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Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP07	
Date(s) of Collection:	December 12th, 2016	
Number/Type Samples & Analyses:	18 soil samples and 2 field duplicates and one field duplicate for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	January 29th, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) APP07. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✓ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✗ Laboratory duplicate results

✗ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Samples 203-SB23-01, 203-SB23-01DUP, 203-SB26-01, 203-SB26-10, 203-SB31-01, 203-SB31-10, 203-SB25-01, 203-SB25-07, 203-SB23-10, 203-SB22-01, 203-SB22-10, 203-SB27-01, 203-SB24-01, 203-SB24-10, 203-SB28-01, 203-SB29-01, 203-SB29-01DUP, and 203-SB29-09 were run for 8270 SIM and regular 8270. The final results will be presented in SVOC SIM.

Sample 203-SB31-01 and 203-SB22-01 reported values are from the high level volatile analysis. The low level volatiles analysis was attempted. However, due to leaking from the vial during purging, no usable data was obtained.

Samples 203-SB27-05 and 203-SB28-09 were analyzed initially within hold time for VOCs, however the ending calculation check was run outside of the tune for the instrument. The analyses were repeated 1 day after hold time had expired with all QC being within limits. The results between the two runs were consistent and the first set of results will be presented.

Samples 203-SB22-01, 203-SB22-10, 203-23-01, 203-SB23-01DUP, 203-SB24-01, 203-SB24-10, 203-SB25-01, 203-SB25-07, 203-SB26-01, 203-SB26-10, 203-SB27-01, 203-SB27-05, 203-SB28-01, 203-SB28-01DUP, 203-SB28-09, 203-SB29-01, 203-SB29-01DUP, 203-SB29-09, 203-SB31-01, and 203-SB31-10 were analyzed outside hold for hexavalent chromium.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	SR
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **SOIL**

Sample ID: **203-SB22-01** ***Collected:*** **12/12/2016 10:43:00 AM** ***Analysis Type:*** **Initial33443** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.142	J	0.0384	LOD	0.154	LOQ	mg/kg	J	Rl

Sample ID: **203-SB22-01** ***Collected:*** **12/12/2016 10:43:00 AM** ***Analysis Type:*** **Reanalysis-033** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.154	LOD	0.615	LOQ	mg/kg	J	Rl

Sample ID: **203-SB23-01** ***Collected:*** **12/12/2016 10:03:00 AM** ***Analysis Type:*** **Initial33443** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0258	J	0.0393	LOD	0.157	LOQ	mg/kg	J	Rl, Fd

Sample ID: **203-SB23-01** ***Collected:*** **12/12/2016 10:03:00 AM** ***Analysis Type:*** **Reanalysis-0111111** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0511	J	0.0786	LOD	0.157	LOQ	mg/kg	J	Rl, Fd

Sample ID: **203-SB23-01** ***Collected:*** **12/12/2016 10:03:00 AM** ***Analysis Type:*** **Reanalysis-033** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.249	J	0.157	LOD	0.629	LOQ	mg/kg	J	Rl

Sample ID: **203-SB23-01DUP** ***Collected:*** **12/12/2016 10:03:00 AM** ***Analysis Type:*** **Initial33333** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0867	U	0.0867	LOD	0.173	LOQ	mg/kg	UJ	Fd
SILVER	0.0433	U	0.0433	LOD	0.173	LOQ	mg/kg	UJ	Fd

Sample ID: **203-SB23-01DUP** ***Collected:*** **12/12/2016 10:03:00 AM** ***Analysis Type:*** **Reanalysis-034** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.198	J	0.173	LOD	0.694	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB23-10 **Collected:** 12/12/2016 10:26:00 AM **Analysis Type:** Initial44444 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.169	J	0.0429	LOD	0.172	LOQ	mg/kg	J	RI

Sample ID: 203-SB24-01 **Collected:** 12/12/2016 11:51:00 AM **Analysis Type:** Initial22222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.125	J	0.0490	LOD	0.196	LOQ	mg/kg	J	RI

Sample ID: 203-SB24-01 **Collected:** 12/12/2016 11:51:00 AM **Analysis Type:** Reanalysis-0344445 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.196	LOD	0.784	LOQ	mg/kg	J	RI

Sample ID: 203-SB24-10 **Collected:** 12/12/2016 11:57:00 AM **Analysis Type:** Initial111111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0911	J	0.106	LOD	0.211	LOQ	mg/kg	J	RI
SILVER	0.0275	J	0.0529	LOD	0.211	LOQ	mg/kg	J	RI

Sample ID: 203-SB25-01 **Collected:** 12/12/2016 11:07:00 AM **Analysis Type:** Reanalysis-0334333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.194	LOD	0.775	LOQ	mg/kg	J	RI

Sample ID: 203-SB25-07 **Collected:** 12/12/2016 11:19:00 AM **Analysis Type:** Reanalysis-0133333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0327	J	0.0794	LOD	0.159	LOQ	mg/kg	J	RI

Sample ID: 203-SB25-07 **Collected:** 12/12/2016 11:19:00 AM **Analysis Type:** Reanalysis-0311111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0924	J	0.159	LOD	0.635	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB26-01 **Collected:** 12/12/2016 9:41:00 AM **Analysis Type:** Reanalysis-0133333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0565	J	0.0951	LOD	0.190	LOQ	mg/kg	J	RI

Sample ID: 203-SB26-01 **Collected:** 12/12/2016 9:41:00 AM **Analysis Type:** Reanalysis-0311111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.190	LOD	0.761	LOQ	mg/kg	J	RI

Sample ID: 203-SB27-01 **Collected:** 12/12/2016 12:07:00 PM **Analysis Type:** Reanalysis-014 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0537	J	0.0900	LOD	0.180	LOQ	mg/kg	J	RI

Sample ID: 203-SB27-01 **Collected:** 12/12/2016 12:07:00 PM **Analysis Type:** Reanalysis-0311111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.180	LOD	0.720	LOQ	mg/kg	J	RI

Sample ID: 203-SB27-05 **Collected:** 12/12/2016 12:13:00 PM **Analysis Type:** Initial11111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.126	J	0.0449	LOD	0.180	LOQ	mg/kg	J	RI

Sample ID: 203-SB28-01 **Collected:** 12/12/2016 12:30:00 PM **Analysis Type:** Initial44444 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11200		8.04	LOD	32.2	LOQ	mg/kg	J+	Ms
ANTIMONY	0.161	U	0.161	LOD	0.322	LOQ	mg/kg	UJ	Ms
COPPER	12.8		0.161	LOD	0.643	LOQ	mg/kg	J-	Ms
ZINC	29.4		2.41	LOD	4.82	LOQ	mg/kg	J+	Ms

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **SOIL**

Sample ID: **203-SB28-01** ***Collected:*** **12/12/2016 12:30:00 PM** ***Analysis Type:*** **Reanalysis-0111111** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.34		0.322	LOD	0.643	LOQ	mg/kg	J	Ms, Ld
IRON	16400		16.1	LOD	32.2	LOQ	mg/kg	J-	Ms
MANGANESE	225		0.161	LOD	0.643	LOQ	mg/kg	J-	Ms

Sample ID: **203-SB28-01** ***Collected:*** **12/12/2016 12:30:00 PM** ***Analysis Type:*** **Reanalysis-0333333** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0772	J	0.161	LOD	0.643	LOQ	mg/kg	J	Rl, Ld

Sample ID: **203-SB28-01** ***Collected:*** **12/12/2016 12:30:00 PM** ***Analysis Type:*** **Reanalysis-0422222** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	817		32.2	LOD	64.3	LOQ	mg/kg	J+	Ms

Sample ID: **203-SB28-01** ***Collected:*** **12/12/2016 12:30:00 PM** ***Analysis Type:*** **Reanalysis-055** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	72.2		0.322	LOD	0.643	LOQ	mg/kg	J-	Ms

Sample ID: **203-SB29-01** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Initial22222** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.104	U	0.104	LOD	0.208	LOQ	mg/kg	UJ	Fd
COBALT	7.11		0.104	LOD	0.208	LOQ	mg/kg	J	Fd
COPPER	13.5		0.208	LOD	0.832	LOQ	mg/kg	J	Fd
LEAD	5.00		0.0520	LOD	0.416	LOQ	mg/kg	J	Fd
THALLIUM	0.248		0.0520	LOD	0.208	LOQ	mg/kg	J	Fd
ZINC	34.9		3.12	LOD	6.24	LOQ	mg/kg	J	Fd

Sample ID: **203-SB29-01** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Reanalysis-0133334** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13100		10.4	LOD	41.6	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **SOIL**

Sample ID: **203-SB29-01** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Reanalysis-0133334** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.555		0.0520	LOD	0.208	LOQ	mg/kg	J	Fd
CHROMIUM	24.2		0.208	LOD	0.832	LOQ	mg/kg	J	Fd
IRON	17200		20.8	LOD	41.6	LOQ	mg/kg	J	Fd
MAGNESIUM	4960		10.4	LOD	41.6	LOQ	mg/kg	J	Fd
MANGANESE	244		0.208	LOD	0.832	LOQ	mg/kg	J	Fd
NICKEL	15.6		0.208	LOD	0.832	LOQ	mg/kg	J	Fd
POTASSIUM	3430		20.8	LOD	83.2	LOQ	mg/kg	J	Fd
SODIUM	213		20.8	LOD	83.2	LOQ	mg/kg	J	Fd
VANADIUM	34.8		0.104	LOD	0.208	LOQ	mg/kg	J	Fd

Sample ID: **203-SB29-01** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Reanalysis-0344445** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.208	U	0.208	LOD	0.832	LOQ	mg/kg	UJ	Fd

Sample ID: **203-SB29-01** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Reanalysis-0411111** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1180		41.6	LOD	83.2	LOQ	mg/kg	J	Fd

Sample ID: **203-SB29-01** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Reanalysis-053** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	80.6		0.416	LOD	0.832	LOQ	mg/kg	J	Fd

Sample ID: **203-SB29-01DUP** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Initial222222** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.104	J	0.0902	LOD	0.180	LOQ	mg/kg	J	RI, Fd
COBALT	11.1		0.0902	LOD	0.180	LOQ	mg/kg	J	Fd
COPPER	21.8		0.180	LOD	0.722	LOQ	mg/kg	J	Fd
LEAD	8.24		0.0451	LOD	0.361	LOQ	mg/kg	J	Fd
THALLIUM	0.341		0.0451	LOD	0.180	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Initial222222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	58.3		2.71	LOD	5.41	LOQ	mg/kg	J	Fd

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Reanalysis-01444554 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	19000		9.02	LOD	36.1	LOQ	mg/kg	J	Fd
BERYLLIUM	0.815		0.0451	LOD	0.180	LOQ	mg/kg	J	Fd
CHROMIUM	34.7		0.180	LOD	0.722	LOQ	mg/kg	J	Fd
IRON	24800		18.0	LOD	36.1	LOQ	mg/kg	J	Fd
MAGNESIUM	7030		9.02	LOD	36.1	LOQ	mg/kg	J	Fd
NICKEL	23.5		0.180	LOD	0.722	LOQ	mg/kg	J	Fd
POTASSIUM	5310		18.0	LOD	72.2	LOQ	mg/kg	J	Fd
SODIUM	290		18.0	LOD	72.2	LOQ	mg/kg	J	Fd
VANADIUM	49.8		0.0902	LOD	0.180	LOQ	mg/kg	J	Fd

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Reanalysis-02111111 **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	364		0.451	LOD	1.80	LOQ	mg/kg	J	Fd

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Reanalysis-034 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0796	J	0.180	LOD	0.722	LOQ	mg/kg	J	Rl, Fd

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Reanalysis-044 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1690		36.1	LOD	72.2	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: SOIL**

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Reanalysis-05333333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.361	LOD	0.722	LOQ	mg/kg	J	Fd

Sample ID: 203-SB29-09 **Collected:** 12/12/2016 1:57:00 PM **Analysis Type:** Initial4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.156	J	0.0429	LOD	0.172	LOQ	mg/kg	J	Rl

Sample ID: 203-SB29-09 **Collected:** 12/12/2016 1:57:00 PM **Analysis Type:** Reanalysis-0333333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0946	J	0.172	LOD	0.687	LOQ	mg/kg	J	Rl

Sample ID: 203-SB31-01 **Collected:** 12/12/2016 9:20:00 AM **Analysis Type:** Initial33333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.176	J	0.0496	LOD	0.198	LOQ	mg/kg	J	Rl

Sample ID: 203-SB31-01 **Collected:** 12/12/2016 9:20:00 AM **Analysis Type:** Reanalysis-0311111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.170	J	0.198	LOD	0.794	LOQ	mg/kg	J	Rl

Sample ID: 203-SB31-10 **Collected:** 12/12/2016 9:30:00 AM **Analysis Type:** Reanalysis-0133333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0375	J	0.0818	LOD	0.164	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 7199 **Matrix:** SOIL

Sample ID: 203-SB22-01 **Collected:** 12/12/2016 10:43:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.44	J	0.46	LOD	0.46	LOQ	mg/kg	J	RI, EtoA

Sample ID: 203-SB22-10 **Collected:** 12/12/2016 10:47:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.46	U	0.46	LOD	0.46	LOQ	mg/kg	UJ	EtoA

Sample ID: 203-SB23-01 **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.47	U	0.47	LOD	0.47	LOQ	mg/kg	UJ	EtoA, Fd

Sample ID: 203-SB23-01DUP **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	5.2		0.48	LOD	0.48	LOQ	mg/kg	J	EtoA, Fd

Sample ID: 203-SB23-10 **Collected:** 12/12/2016 10:26:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.44	U	0.44	LOD	0.44	LOQ	mg/kg	UJ	EtoA

Sample ID: 203-SB24-01 **Collected:** 12/12/2016 11:51:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.45	U	0.45	LOD	0.45	LOQ	mg/kg	UJ	EtoA

Sample ID: 203-SB24-10 **Collected:** 12/12/2016 11:57:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.55	U	0.55	LOD	0.55	LOQ	mg/kg	UJ	EtoA

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 7199 **Matrix:** SOIL

Sample ID: 203-SB25-01 **Collected:** 12/12/2016 11:07:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.53		0.49	LOD	0.49	LOQ	mg/kg	J-	EtoA

Sample ID: 203-SB25-07 **Collected:** 12/12/2016 11:19:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.69		0.47	LOD	0.47	LOQ	mg/kg	J-	EtoA

Sample ID: 203-SB26-01 **Collected:** 12/12/2016 9:41:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.55		0.47	LOD	0.47	LOQ	mg/kg	J-	EtoA

Sample ID: 203-SB26-10 **Collected:** 12/12/2016 9:53:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.45	U	0.45	LOD	0.45	LOQ	mg/kg	UJ	EtoA

Sample ID: 203-SB27-01 **Collected:** 12/12/2016 12:07:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	1.7		0.47	LOD	0.47	LOQ	mg/kg	J-	EtoA

Sample ID: 203-SB27-05 **Collected:** 12/12/2016 12:13:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.45	U	0.45	LOD	0.45	LOQ	mg/kg	UJ	EtoA

Sample ID: 203-SB28-01 **Collected:** 12/12/2016 12:30:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.46	U	0.46	LOD	0.46	LOQ	mg/kg	UJ	Ld, EtoA

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 7199 **Matrix:** SOIL

Sample ID: 203-SB28-09 **Collected:** 12/12/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.45	U	0.45	LOD	0.45	LOQ	mg/kg	UJ	EtoA

Sample ID: 203-SB29-01 **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	2.5		0.48	LOD	0.48	LOQ	mg/kg	J	EtoA, Fd

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.51	U	0.51	LOD	0.51	LOQ	mg/kg	UJ	EtoA, Fd

Sample ID: 203-SB29-09 **Collected:** 12/12/2016 1:57:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.45	J	0.45	LOD	0.45	LOQ	mg/kg	J-	EtoA

Sample ID: 203-SB31-01 **Collected:** 12/12/2016 9:20:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.42	J	0.44	LOD	0.44	LOQ	mg/kg	J	RI, EtoA

Sample ID: 203-SB31-10 **Collected:** 12/12/2016 9:30:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.46	U	0.46	LOD	0.46	LOQ	mg/kg	UJ	EtoA

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 7471B **Matrix: SOIL**

Sample ID: 203-SB23-01 **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0213	J	0.0190	LOD	0.114	LOQ	mg/kg	J	RI

Sample ID: 203-SB23-01DUP **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0193	J	0.0186	LOD	0.111	LOQ	mg/kg	J	RI

Method Category: METALS

Method: Calculation **Matrix: SOIL**

Sample ID: 203-SB23-01 **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Reanalysis-06 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	16.5		0.47	LOD	0.63	LOQ	mg/kg	J	Fd

Sample ID: 203-SB23-01DUP **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Reanalysis-06 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	13.2		0.48	LOD	0.69	LOQ	mg/kg	J	Fd

Sample ID: 203-SB29-01 **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Reanalysis-06 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	21.7		0.48	LOD	0.83	LOQ	mg/kg	J	Fd

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Reanalysis-06 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	34.7		0.51	LOD	0.72	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB22-01 **Collected:** 12/12/2016 10:43:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB22-10 **Collected:** 12/12/2016 10:47:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB22-10 **Collected:** 12/12/2016 10:47:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB23-01 **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.009	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
2-METHYLNAPHTHALENE	0.010	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
ACENAPHTHENE	0.006	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.008	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
BENZ(A)ANTHRACENE	0.010	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
Benzo (g,h,i) perylene	0.006	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
BENZO(A)PYRENE	0.01	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
BENZO(B)FLUORANTHENE	0.015	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
BENZO(K)FLUORANTHENE	0.007	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
CHRYSENE	0.012	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.029		0.015	LOD	0.020	LOQ	mg/kg	NP	Fd, ProfJudg
FLUORENE	0.007	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.006	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
NAPHTHALENE	0.008	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
PHENANTHRENE	0.034		0.015	LOD	0.020	LOQ	mg/kg	NP	Fd, ProfJudg
PYRENE	0.025		0.015	LOD	0.020	LOQ	mg/kg	NP	Fd, ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB23-01DUP **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.010	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
2-METHYLNAPHTHALENE	0.013	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
ACENAPHTHENE	0.004	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	Fd, ProfJudg
BENZ(A)ANTHRACENE	0.006	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
Benzo (g,h,i) perylene	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	Fd, ProfJudg
BENZO(A)PYRENE	0.007	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
BENZO(B)FLUORANTHENE	0.008	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
BENZO(K)FLUORANTHENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	Fd, ProfJudg
CHRYSENE	0.007	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
FLUORENE	0.004	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
NAPHTHALENE	0.015	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
PHENANTHRENE	0.021		0.016	LOD	0.020	LOQ	mg/kg	NP	Fd, ProfJudg
PYRENE	0.014	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg

Sample ID: 203-SB23-10 **Collected:** 12/12/2016 10:26:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB23-10 **Collected:** 12/12/2016 10:26:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB24-01 **Collected:** 12/12/2016 11:51:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB24-10 **Collected:** 12/12/2016 11:57:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
DI-N-BUTYL PHTHALATE	0.17	J	0.18	LOD	0.22	LOQ	mg/kg	J	RI
FLUORANTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB25-01 **Collected:** 12/12/2016 11:07:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB25-01 **Collected:** 12/12/2016 11:07:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.005	J	0.016	LOD	0.021	LOQ	mg/kg	NP	RI, ProfJudg
PYRENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB25-07 **Collected:** 12/12/2016 11:19:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.004	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.005	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.01	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.011	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
PYRENE	0.008	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB26-01 **Collected:** 12/12/2016 9:41:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.017	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
2-METHYLNAPHTHALENE	0.022		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.007	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.005	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZ(A)ANTHRACENE	0.009	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
Benzo (g,h,i) perylene	0.015	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.015	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.027		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.011	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
CHRYSENE	0.018	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.031		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.007	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.013	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
NAPHTHALENE	0.021		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.031		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.031		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB26-10 **Collected:** 12/12/2016 9:53:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.020		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.027		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.019		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.012	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.019		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.008	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB26-10 **Collected:** 12/12/2016 9:53:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.019		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.081		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.022		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.12		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.061		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB27-01 **Collected:** 12/12/2016 12:07:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB27-05 **Collected:** 12/12/2016 12:13:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	J	Rl
CHRYSENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	J	Rl

Sample ID: 203-SB28-01 **Collected:** 12/12/2016 12:30:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Chloroaniline [p-Chloroaniline]	0.075	U	0.075	LOD	0.075	LOQ	mg/kg	UJ	Ms

Sample ID: 203-SB28-01 **Collected:** 12/12/2016 12:30:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
3,3'-DICHLOROBENZIDINE	0.38	U	0.38	LOD	0.38	LOQ	mg/kg	UJ	Ms
3-NITROANILINE	0.15	U	0.15	LOD	0.19	LOQ	mg/kg	UJ	Ms
4-NITROANILINE	0.15	U	0.15	LOD	0.19	LOQ	mg/kg	UJ	Ms
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
HEXACHLOROCYCLOPENTADIENE	0.56	U	0.56	LOD	0.56	LOQ	mg/kg	UJ	Ms
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB28-01 **Collected:** 12/12/2016 12:30:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB29-01 **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	Fd, ProfJudg
2-METHYLNAPHTHALENE	0.004	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
ACENAPHTHENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.007	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
BENZO(K)FLUORANTHENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BIS(2-ETHYLHEXYL) PHTHALATE	0.16	U	0.16	LOD	0.20	LOQ	mg/kg	UJ	Fd
CHRYSENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	Fd, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
FLUORENE	0.006	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.011	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
PHENANTHRENE	0.014	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
PYRENE	0.006	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Fd, ProfJudg

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.007	J	0.017	LOD	0.021	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
2-METHYLNAPHTHALENE	0.008	J	0.017	LOD	0.021	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
ACENAPHTHENE	0.012	J	0.017	LOD	0.021	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
ACENAPHTHYLENE	0.017	U	0.017	LOD	0.021	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.017	U	0.017	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.017	U	0.017	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.017	U	0.017	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.017	U	0.017	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.006	J	0.017	LOD	0.021	LOQ	mg/kg	NP	Rl, ProfJudg
BENZO(K)FLUORANTHENE	0.017	U	0.017	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BIS(2-ETHYLHEXYL) PHTHALATE	0.70		0.17	LOD	0.21	LOQ	mg/kg	J	Fd
CHRYSENE	0.005	J	0.017	LOD	0.021	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.017	U	0.017	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.008	J	0.017	LOD	0.021	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
FLUORENE	0.011	J	0.017	LOD	0.021	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.017	U	0.017	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.006	J	0.017	LOD	0.021	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
PHENANTHRENE	0.024		0.017	LOD	0.021	LOQ	mg/kg	NP	Fd, ProfJudg
PYRENE	0.014	J	0.017	LOD	0.021	LOQ	mg/kg	NP	Rl, Fd, ProfJudg

Sample ID: 203-SB29-09 **Collected:** 12/12/2016 1:57:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-BIPHENYL	0.028	J	0.036	LOD	0.036	LOQ	mg/kg	J	Rl

Sample ID: 203-SB29-09 **Collected:** 12/12/2016 1:57:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.16		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.072		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.14		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.12		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.060		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.021		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.048		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **SVOA**

Method: **8270D** ***Matrix:*** **SOIL**

Sample ID: **203-SB29-09** ***Collected:*** **12/12/2016 1:57:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BENZO(B)FLUORANTHENE	0.068		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.026		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BIS(2-ETHYLHEXYL) PHTHALATE	0.13	J	0.15	LOD	0.19	LOQ	mg/kg	J	RI
CHRYSENE	0.052		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
FLUORANTHENE	0.19		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.19		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.019		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.50		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.19		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Sample ID: **203-SB31-01** ***Collected:*** **12/12/2016 9:20:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB31-01 **Collected:** 12/12/2016 9:20:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB31-10 **Collected:** 12/12/2016 9:30:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB22-01 **Collected:** 12/12/2016 10:43:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.00082	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
2-METHYLNAPHTHALENE	0.0013	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix:** SOIL

Sample ID: 203-SB22-01 **Collected:** 12/12/2016 10:43:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.00079	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
BENZO(A)PYRENE	0.00095	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
BENZO(B)FLUORANTHENE	0.0016	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
BENZO(K)FLUORANTHENE	0.0010	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
CHRYSENE	0.0013	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
NAPHTHALENE	0.0016	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
PYRENE	0.0017	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

Sample ID: 203-SB22-10 **Collected:** 12/12/2016 10:47:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.00074	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
FLUORANTHENE	0.0016	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
PYRENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

Sample ID: 203-SB23-01 **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0085	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	Rl
ACENAPHTHENE	0.0055	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	Rl, Fd
ANTHRACENE	0.0059	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	Rl, Fd
BENZ(A)ANTHRACENE	0.011		0.0077	LOD	0.0096	LOQ	mg/kg	J	Fd
BENZO(A)PYRENE	0.010		0.0077	LOD	0.0096	LOQ	mg/kg	J	Fd
BENZO(B)FLUORANTHENE	0.016		0.0077	LOD	0.0096	LOQ	mg/kg	J	Fd
BENZO(K)FLUORANTHENE	0.0068	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	Rl, Fd
CHRYSENE	0.012		0.0077	LOD	0.0096	LOQ	mg/kg	J	Fd
FLUORANTHENE	0.033		0.0077	LOD	0.0096	LOQ	mg/kg	J	Fd
FLUORENE	0.0065	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	Rl, Fd
NAPHTHALENE	0.0072	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	Rl, Fd
PHENANTHRENE	0.035		0.0077	LOD	0.0096	LOQ	mg/kg	J	Fd
PYRENE	0.025		0.0077	LOD	0.0096	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix:** SOIL

Sample ID: 203-SB23-01DUP **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0089	J	0.0079	LOD	0.0098	LOQ	mg/kg	J	Rl
ACENAPHTHENE	0.0079	U	0.0079	LOD	0.0098	LOQ	mg/kg	UJ	Fd
ANTHRACENE	0.0033	J	0.0079	LOD	0.0098	LOQ	mg/kg	J	Rl, Fd
BENZ(A)ANTHRACENE	0.0057	J	0.0079	LOD	0.0098	LOQ	mg/kg	J	Rl, Fd
BENZO(A)PYRENE	0.0055	J	0.0079	LOD	0.0098	LOQ	mg/kg	J	Rl, Fd
BENZO(B)FLUORANTHENE	0.0090	J	0.0079	LOD	0.0098	LOQ	mg/kg	J	Rl, Fd
BENZO(K)FLUORANTHENE	0.0079	U	0.0079	LOD	0.0098	LOQ	mg/kg	UJ	Fd
CHRYSENE	0.0067	J	0.0079	LOD	0.0098	LOQ	mg/kg	J	Rl, Fd
FLUORANTHENE	0.015		0.0079	LOD	0.0098	LOQ	mg/kg	J	Fd
FLUORENE	0.0079	U	0.0079	LOD	0.0098	LOQ	mg/kg	UJ	Fd
NAPHTHALENE	0.013		0.0079	LOD	0.0098	LOQ	mg/kg	J	Fd
PHENANTHRENE	0.018		0.0079	LOD	0.0098	LOQ	mg/kg	J	Fd
PYRENE	0.012		0.0079	LOD	0.0098	LOQ	mg/kg	J	Fd

Sample ID: 203-SB23-10 **Collected:** 12/12/2016 10:26:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.00047	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
CHRYSENE	0.00052	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
PYRENE	0.0014	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl

Sample ID: 203-SB24-01 **Collected:** 12/12/2016 11:51:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.00078	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
BENZO(G,H,I)PERYLENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
BENZO(K)FLUORANTHENE	0.0018	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
FLUORENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
INDENO(1,2,3-CD)PYRENE	0.0012	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
NAPHTHALENE	0.0014	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix:** SOIL

Sample ID: 203-SB24-10 **Collected:** 12/12/2016 11:57:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.0011	J	0.0018	LOD	0.0022	LOQ	mg/kg	J	RI
PHENANTHRENE	0.0019	J	0.0018	LOD	0.0022	LOQ	mg/kg	J	RI
PYRENE	0.00066	J	0.0018	LOD	0.0022	LOQ	mg/kg	J	RI

Sample ID: 203-SB25-01 **Collected:** 12/12/2016 11:07:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0018	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
ANTHRACENE	0.0010	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
BENZO(G,H,I)PERYLENE	0.0015	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
INDENO(1,2,3-CD)PYRENE	0.0014	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI

Sample ID: 203-SB25-07 **Collected:** 12/12/2016 11:19:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.00082	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
2-METHYLNAPHTHALENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
BENZO(G,H,I)PERYLENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
INDENO(1,2,3-CD)PYRENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI

Sample ID: 203-SB26-01 **Collected:** 12/12/2016 9:41:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.0077	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	RI
ANTHRACENE	0.0049	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	RI
BENZO(G,H,I)PERYLENE	0.0090	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	RI
FLUORENE	0.0082	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	RI
INDENO(1,2,3-CD)PYRENE	0.0092	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	RI

Sample ID: 203-SB26-10 **Collected:** 12/12/2016 9:53:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.00083	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **SOIL**

Sample ID: **203-SB26-10** ***Collected:*** **12/12/2016 9:53:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.0012	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl

Sample ID: **203-SB27-01** ***Collected:*** **12/12/2016 12:07:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0018	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
ANTHRACENE	0.00041	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
BENZO(B)FLUORANTHENE	0.0010	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
BENZO(K)FLUORANTHENE	0.0014	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
CHRYSENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
FLUORANTHENE	0.0014	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
NAPHTHALENE	0.0014	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
PHENANTHRENE	0.00092	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
PYRENE	0.0010	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

Sample ID: **203-SB28-01** ***Collected:*** **12/12/2016 12:30:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
2-METHYLNAPHTHALENE	0.0018	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
CHRYSENE	0.00056	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
FLUORANTHENE	0.0012	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
NAPHTHALENE	0.00096	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
PYRENE	0.00089	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

Sample ID: **203-SB29-01** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0034		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
2-METHYLNAPHTHALENE	0.0043		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
ACENAPHTHENE	0.0048		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
ACENAPHTHYLENE	0.00096	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	Rl, Fd

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **SOIL**

Sample ID: **203-SB29-01** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.0014	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	Rl, Fd
BENZ(A)ANTHRACENE	0.0018	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	Rl, Fd
BENZO(A)PYRENE	0.0040		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
BENZO(G,H,I)PERYLENE	0.0021		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
CHRYSENE	0.0029		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
FLUORANTHENE	0.0055		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
FLUORENE	0.0052		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.0020		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
NAPHTHALENE	0.012		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
PHENANTHRENE	0.015		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd
PYRENE	0.0057		0.0016	LOD	0.0020	LOQ	mg/kg	J	Fd

Sample ID: **203-SB29-01DUP** ***Collected:*** **12/12/2016 1:45:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0068		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
2-METHYLNAPHTHALENE	0.0067		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
ACENAPHTHENE	0.0072		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
ACENAPHTHYLENE	0.0016	J	0.0017	LOD	0.0021	LOQ	mg/kg	J	Rl, Fd
ANTHRACENE	0.0020	J	0.0017	LOD	0.0021	LOQ	mg/kg	J	Rl, Fd
BENZ(A)ANTHRACENE	0.0025		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
BENZO(A)PYRENE	0.0026		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
BENZO(G,H,I)PERYLENE	0.00091	J	0.0017	LOD	0.0021	LOQ	mg/kg	J	Rl, Fd
CHRYSENE	0.0040		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
FLUORANTHENE	0.0091		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
FLUORENE	0.0077		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.00092	J	0.0017	LOD	0.0021	LOQ	mg/kg	J	Rl, Fd
NAPHTHALENE	0.0050		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
PHENANTHRENE	0.021		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd
PYRENE	0.0097		0.0017	LOD	0.0021	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB31-01 **Collected:** 12/12/2016 9:20:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.00078	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
BENZO(A)PYRENE	0.00074	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
BENZO(B)FLUORANTHENE	0.0013	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
CHRYSENE	0.0010	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
FLUORANTHENE	0.0012	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
PHENANTHRENE	0.00098	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
PYRENE	0.0010	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl

Sample ID: 203-SB31-10 **Collected:** 12/12/2016 9:30:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.00090	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

Method Category: VOA

Method: 8260C **Matrix: SOIL**

Sample ID: 203-SB22-01 **Collected:** 12/12/2016 10:43:00 AM **Analysis Type:** Initial **Dilution:** 35.16

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DIOXANE	8.0	U	8.0	LOD	10	LOQ	mg/kg	UJ	Lcs

Sample ID: 203-SB23-01 **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial **Dilution:** 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.008	U	0.008	LOD	0.01	LOQ	mg/kg	UJ	Fd
ACETONE	0.052		0.016	LOD	0.020	LOQ	mg/kg	J	Fd
METHYL ACETATE	0.016		0.004	LOD	0.005	LOQ	mg/kg	J	Fd

Sample ID: 203-SB23-01DUP **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial **Dilution:** 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.004	J	0.008	LOD	0.01	LOQ	mg/kg	J	Rl, Fd

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: VOA

Method: 8260C **Matrix: SOIL**

Sample ID: 203-SB23-01DUP **Collected:** 12/12/2016 10:03:00 AM **Analysis Type:** Initial **Dilution:** 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.075		0.016	LOD	0.019	LOQ	mg/kg	J	Fd
METHYL ACETATE	0.004	U	0.004	LOD	0.005	LOQ	mg/kg	UJ	Fd

Sample ID: 203-SB23-10 **Collected:** 12/12/2016 10:26:00 AM **Analysis Type:** Initial **Dilution:** 0.68

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.007	J	0.012	LOD	0.015	LOQ	mg/kg	J	RI

Sample ID: 203-SB26-01 **Collected:** 12/12/2016 9:41:00 AM **Analysis Type:** Initial **Dilution:** 0.74

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.005	J	0.007	LOD	0.009	LOQ	mg/kg	J	RI

Sample ID: 203-SB26-10 **Collected:** 12/12/2016 9:53:00 AM **Analysis Type:** Initial **Dilution:** 0.7

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.006	J	0.012	LOD	0.016	LOQ	mg/kg	J	RI

Sample ID: 203-SB28-01 **Collected:** 12/12/2016 12:30:00 PM **Analysis Type:** Initial **Dilution:** 0.66

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.032		0.012	LOD	0.015	LOQ	mg/kg	J	Ms

Sample ID: 203-SB28-09 **Collected:** 12/12/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 34.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m/p-Xylene [3/4-Xylene]	0.17	J	0.078	LOD	0.19	LOQ	mg/kg	J	RI
Methylcyclohexane	0.17	J	0.078	LOD	0.19	LOQ	mg/kg	J	RI
Xylene (Total)	0.17	J	0.078	LOD	0.19	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: VOA

Method: 8260C **Matrix:** SOIL

Sample ID: 203-SB29-01 **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Initial **Dilution:** 0.71

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.007	U	0.007	LOD	0.008	LOQ	mg/kg	UJ	Fd
ACETONE	0.040		0.013	LOD	0.017	LOQ	mg/kg	J	Fd

Sample ID: 203-SB29-01DUP **Collected:** 12/12/2016 1:45:00 PM **Analysis Type:** Initial **Dilution:** 0.79

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.007	J	0.008	LOD	0.01	LOQ	mg/kg	J	Rl, Fd
ACETONE	0.094		0.016	LOD	0.020	LOQ	mg/kg	J	Fd

Sample ID: 203-SB29-09 **Collected:** 12/12/2016 1:57:00 PM **Analysis Type:** Initial **Dilution:** 0.7

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.008	J	0.012	LOD	0.015	LOQ	mg/kg	J	Rl
CARBON DISULFIDE	0.001	J	0.002	LOD	0.004	LOQ	mg/kg	J	Rl

Sample ID: 203-SB31-01 **Collected:** 12/12/2016 9:20:00 AM **Analysis Type:** Initial **Dilution:** 35.61

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DIOXANE	7.9	U	7.9	LOD	9.9	LOQ	mg/kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
EtoA	Extraction to Analysis Estimation
Fd	Field Duplicate Precision
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Upper Estimation
Ld	Laboratory Duplicate Precision
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value

* denotes a non-reportable result

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 7199 **Preparation Method: 3060A**

Matrix: SOIL

Sample ID	Type	Actual	Criteria	Units	Flag
203-SB22-01 (Initial)	Extraction To Analysis	11.00	7.00	DAYS	J- (all detects)
203-SB22-10 (Initial)		11.00	7.00	DAYS	UJ (all non-detects)
203-SB23-01 (Initial)		11.00	7.00	DAYS	
203-SB23-01DUP (Initial)		11.00	7.00	DAYS	
203-SB23-10 (Initial)		11.00	7.00	DAYS	
203-SB24-01 (Initial)		11.00	7.00	DAYS	
203-SB24-10 (Initial)		11.00	7.00	DAYS	
203-SB25-01 (Initial)		11.00	7.00	DAYS	
203-SB25-07 (Initial)		11.00	7.00	DAYS	
203-SB26-01 (Initial)		11.00	7.00	DAYS	
203-SB26-10 (Initial)		11.00	7.00	DAYS	
203-SB27-01 (Initial)		11.00	7.00	DAYS	
203-SB27-05 (Initial)		11.00	7.00	DAYS	
203-SB28-01 (Initial)		11.00	7.00	DAYS	
203-SB28-01DUP (Initial)		11.00	7.00	DAYS	
203-SB28-09 (Initial)		11.00	7.00	DAYS	
203-SB29-01 (Initial)		11.00	7.00	DAYS	
203-SB29-01DUP (Initial)		11.00	7.00	DAYS	
203-SB29-09 (Initial)		11.00	7.00	DAYS	
203-SB31-01 (Initial)		11.00	7.00	DAYS	
203-SB31-10 (Initial)		11.00	7.00	DAYS	

Method Blank Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **6020A**
Matrix: **SOIL**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35137CB351063703A	12/20/2016 12:57:00 PM	SODIUM	14.7 mg/kg	203-SB22-01 203-SB22-10 203-SB23-01 203-SB23-01DUP 203-SB23-10 203-SB24-01 203-SB24-10 203-SB25-01 203-SB25-07 203-SB26-01 203-SB26-10 203-SB27-01 203-SB27-05 203-SB28-01 203-SB28-09 203-SB29-01 203-SB29-01DUP 203-SB29-09 203-SB31-01 203-SB31-10

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **6020A**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
203-SB28-01MS (Wet) 203-SB28-01MSD (Wet) (203-SB28-01)	ANTIMONY ARSENIC COPPER IRON MANGANESE	58 55 - -326 46	58 52 81 -346 -2	72.00-124.00 82.00-118.00 84.00-119.00 81.00-124.00 85.00-116.00	- - - - -	ANTIMONY ARSENIC COPPER IRON MANGANESE	J- (all detects) UJ (all non-detects)
203-SB28-01MS (Wet) 203-SB28-01MSD (Wet) (203-SB28-01)	ALUMINUM ZINC	499 206	445 193	78.00-124.00 82.00-119.00	- -	ALUMINUM ZINC	J+(all detects)
203-SB28-01MS (Wet) (203-SB28-01)	CALCIUM	123	-	86.00-118.00	-	CALCIUM	J+(all detects)
203-SB28-01MS (Wet) 203-SB28-01MSD (Wet) (203-SB28-01)	BARIUM	84	79	86.00-116.00	-	BARIUM	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
203-SB28-01MS 203-SB28-01MSD (203-SB28-01)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
	1,1-BIPHENYL						
	1,2,4,5-TETRACHLOROBENZENE						
	1,2,4-TRICHLOROBENZENE						
	1,2-DICHLOROBENZENE						
	1,3-DICHLOROBENZENE						
	1,4-DICHLOROBENZENE						
	1-METHYLNAPHTHALENE						
	2,2'-OXYBIS (1-CHLOROPROPANE						
	2,3,4,6-TETRACHLOROPHENOL						
	2,4,5-TRICHLOROPHENOL						
	2,4,6-TRICHLOROPHENOL						
	2,4-DICHLOROPHENOL						
	2,4-Dimethyl phenol						
	2,4-DINITROPHENOL						
	2,4-DINITROTOLUENE						
	2,6-DINITROTOLUENE						
	2-CHLORONAPHTHALENE						
	2-CHLOROPHENOL						
	2-METHYLNAPHTHALENE						
	2-Methylphenol (o-Cresol)						
	2-NITROANILINE						
	2-NITROPHENOL						
	3/4-Methylphenol [m/p-Cresol]						
	4,6-DINITRO-2-METHYLPHENOL						
	4-BROMOPHENYL PHENYL ETHEF						
	4-CHLORO-3-METHYLPHENOL						
	4-CHLOROPHENYL PHENYL ETHE						
	4-NITROPHENOL						
	ACENAPHTHENE						
	ACENAPHTHYLENE						
	ACETOPHENONE						
	ANTHRACENE						
	BENZ(A)ANTHRACENE						
	Benzo (g,h,i) perylene						
	BENZO(A)PYRENE						
	BENZO(B)FLUORANTHENE						
	BENZO(K)FLUORANTHENE						
	BENZOIC ACID						
	BENZYL ALCOHOL						
	bis(2-chloroethoxy) methane						
	BIS(2-CHLOROETHYL) ETHER						
	BIS(2-ETHYLHEXYL) PHTHALATE						
	Butyl benzyl phthalate						
	CARBAZOLE						
	CHRYSENE						
	DIBENZO(A,H)ANTHRACENE						
	DIBENZOFURAN						
	DIETHYL PHTHALATE						
	DIMETHYL PHTHALATE						
	DI-N-BUTYL PHTHALATE						
	DI-N-OCTYL PHTHALATE						
	FLUORANTHENE						
	FLUORENE						
	HEXACHLOROBENZENE						
	HEXACHLOROBUTADIENE						
	HEXACHLOROETHANE						
	INDENO(1,2,3-CD)PYRENE						
	ISOPHORONE						
	NAPHTHALENE						
	NITROBENZENE						
	N-NITROSODIMETHYLAMINE						
	N-Nitrosodi-n-propylamine						
	N-NITROSODIPHENYLAMINE						
	PENTACHLOROPHENOL						
	PHENANTHRENE						
	PHENOL						
	PYRENE						

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**

Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
		- - - - - - - - - - - - - - - - 119 -					

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
				40.00-117.00			
				37.00-119.00			
				34.00-118.00			
				33.00-117.00			
				30.00-115.00			
				31.00-115.00			
				40.00-119.00			
				60.00-123.00			
				44.00-125.00			
				41.00-124.00			
				39.00-126.00			
				40.00-122.00			
				30.00-127.00			
				16.00-132.00			
				48.00-126.00			
				46.00-124.00			
				41.00-114.00			
				34.00-121.00			
				38.00-122.00			
				32.00-122.00			
				44.00-127.00			
				36.00-123.00			
				42.00-126.00			
				29.00-132.00			
				46.00-124.00			
				45.00-122.00			
				45.00-121.00			
				30.00-132.00			
				40.00-123.00			
				32.00-132.00			
				33.00-115.00			
				47.00-123.00			
				49.00-126.00			
				43.00-134.00			
				45.00-129.00			
				45.00-132.00			
				47.00-132.00			
				22.00-119.00			
				29.00-122.00			
				36.00-121.00			
				31.00-120.00			
				51.00-133.00			
				48.00-132.00			
				50.00-123.00			
				50.00-124.00			
				45.00-134.00			
				44.00-120.00			
				50.00-124.00			
				48.00-124.00			
				51.00-128.00			
				45.00-140.00			
				50.00-127.00			
				43.00-125.00			
				45.00-122.00			
				32.00-123.00			
				28.00-117.00			
				45.00-133.00			
				30.00-122.00			
				35.00-123.00			
				34.00-122.00			
				23.00-120.00			
				36.00-120.00			
				38.00-127.00			
				25.00-133.00			
				50.00-121.00			
				34.00-121.00			
				47.00-127.00			

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
					34 (20.00)		
					34 (20.00)		
					35 (20.00)		
					35 (20.00)		
					38 (20.00)		
					37 (20.00)		
					34 (20.00)		
					34 (20.00)		
					37 (20.00)		
					35 (20.00)		
					33 (20.00)		
					34 (20.00)		
					33 (20.00)		
					39 (20.00)		
					36 (20.00)		
					37 (20.00)		
					57 (20.00)		
					36 (20.00)		
					34 (20.00)		
					34 (20.00)		
					39 (20.00)		
					35 (20.00)		
					36 (20.00)		
					35 (20.00)		
					33 (20.00)		
					35 (20.00)		
					33 (20.00)		
					40 (20.00)		
					35 (20.00)		
					36 (20.00)		
					33 (20.00)		
					36 (20.00)		
					41 (20.00)		
					33 (20.00)		
					33 (20.00)		
					41 (20.00)		
					25 (20.00)		
					27 (20.00)		
					35 (20.00)		
					34 (20.00)		
					36 (20.00)		
					38 (20.00)		
					36 (20.00)		
					40 (20.00)		
					34 (20.00)		
					31 (20.00)		
					36 (20.00)		
					36 (20.00)		
					34 (20.00)		
					35 (20.00)		
					35 (20.00)		
					38 (20.00)		
					35 (20.00)		
					34 (20.00)		
					39 (20.00)		
					35 (20.00)		
					34 (20.00)		
					35 (20.00)		
					36 (20.00)		
					36 (20.00)		
					39 (20.00)		
					35 (20.00)		
					33 (20.00)		
					35 (20.00)		
					35 (20.00)		
					35 (20.00)		
					35 (20.00)		

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
						1,1-BIPHENYL 1,2,4,5-TETRACHLOROBENZENE 1,2,4-TRICHLOROBENZENE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1-METHYLNAPHTHALENE 2,2'-OXYBIS (1-CHLOROPROPAN 2,3,4,6-TETRACHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-Dimethyl phenol 2,4-DINITROPHENOL 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE 2-CHLORONAPHTHALENE 2-CHLOROPHENOL 2-METHYLNAPHTHALENE 2-Methylphenol (o-Cresol) 2-NITROANILINE 2-NITROPHENOL 3/4-Methylphenol [m/p-Cresol] 4,6-DINITRO-2-METHYLPHENOL 4-BROMOPHENYL PHENYL ETHI 4-CHLORO-3-METHYLPHENOL 4-CHLOROPHENYL PHENYL ETH 4-NITROPHENOL ACENAPHTHENE ACENAPHTHYLENE ACETOPHENONE ANTHRACENE BENZ(A)ANTHRACENE Benzo (g,h,i) perylene BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE BENZOIC ACID BENZYL ALCOHOL bis(2-chloroethoxy) methane BIS(2-CHLOROETHYL) ETHER BIS(2-ETHYLHEXYL) PHTHALATE Butyl benzyl phthalate CARBAZOLE CHRYSENE DIBENZO(A,H)ANTHRACENE DIBENZOFURAN DIETHYL PHTHALATE DIMETHYL PHTHALATE DI-N-BUTYL PHTHALATE DI-N-OCTYL PHTHALATE FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROBUTADIENE HEXACHLOROETHANE INDENO(1,2,3-CD)PYRENE ISOPHORONE NAPHTHALENE NITROBENZENE N-NITROSODIMETHYLAMINE N-Nitrosodi-n-propylamine N-NITROSODIPHENYLAMINE PENTACHLOROPHENOL PHENANTHRENE PHENOL PYRENE	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
							J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB28-01MS 203-SB28-01MSD (203-SB28-01)	3,3'-DICHLOROBENZIDINE 3-NITROANILINE 4-Chloroaniline [p-Chloroaniline] 4-NITROANILINE HEXACHLOROCYCLOPENTADIEN	- - - - 54	0 15 8 22 23	22.00-121.00 33.00-119.00 17.00-106.00 44.00-110.00 57.00-142.00	200 (20.00) 124 (20.00) 140 (20.00) 104 (20.00) 80 (20.00)	3,3'-DICHLOROBENZIDINE 3-NITROANILINE 4-Chloroaniline [p-Chloroaniline] 4-NITROANILINE HEXACHLOROCYCLOPENTADIE	J(all detects) UJ(all non-detects)
203-SB28-01MS 203-SB28-01MSD (203-SB28-01)	BENZALDEHYDE	101	99	10.00-93.00	-	BENZALDEHYDE	J+(all detects)

Method: 8270D SIM
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB28-01MS 203-SB28-01MSD (203-SB28-01)	ACENAPHTHENE	120	117	44.00-111.00	-	ACENAPHTHENE	J+(all detects)

Method: 8260C
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB28-01MSD (203-SB28-01)	ACETONE	-	-	36.00-164.00	29 (20.00)	ACETONE	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB28-01DUP (Wet) (203-SB28-01)	ARSENIC SELENIUM	26 200	20.00 20.00	J (all detects) UJ (all non-detects)

Method: 7199
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB28-01DUP (Wet) (203-SB28-01)	Hexavalent Chromium [Cr (VI)]	200	20.00	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8260C**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSA63QA163561AA LCSA63YA163561AA (203-SB26-01 203-SB27-01)	VINYL ACETATE	214	201	50.00-151.00	-	VINYL ACETATE	J+ (all detects)
LCSR48YR163562AA (203-SB22-01 203-SB31-01)	1,4-DIOXANE	-	-	55.00-138.00	22 (20.00)	1,4-DIOXANE	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

Analyte	Concentration (mg/kg) 203-SB29-01 (Dry)	Concentration (mg/kg) 203-SB29-01DUP (Dry)	Sample RPD	eQAPP RPD	Flag
ARSENIC	3.47	4.45	25	30.00	No Qualifiers Applied
ALUMINUM	13100	19000	37	30.00	
BARIUM	80.6	138	53	30.00	
BERYLLIUM	0.555	0.815	38	30.00	
CADMIUM	0.208 U	0.104	200	30.00	
CALCIUM	1180	1690	36	30.00	
CHROMIUM	24.2	34.7	36	30.00	
COBALT	7.11	11.1	44	30.00	
COPPER	13.5	21.8	47	30.00	
IRON	17200	24800	36	30.00	
LEAD	5.00	8.24	49	30.00	J(all detects) UJ(all non-detects)
MAGNESIUM	4960	7030	35	30.00	
MANGANESE	244	364	39	30.00	
NICKEL	15.6	23.5	40	30.00	
POTASSIUM	3430	5310	43	30.00	
SELENIUM	0.832 U	0.0796	200	30.00	
SODIUM	213	290	31	30.00	
THALLIUM	0.248	0.341	32	30.00	
VANADIUM	34.8	49.8	35	30.00	
ZINC	34.9	58.3	50	30.00	

Analyte	Concentration (mg/kg) 203-SB23-01 (Dry)	Concentration (mg/kg) 203-SB23-01DUP (Dry)	Sample RPD	eQAPP RPD	Flag
ALUMINUM	12600	13900	10	30.00	
ARSENIC	3.43	2.74	22	30.00	
BARIUM	38.1	38.1	0	30.00	
BERYLLIUM	0.473	0.528	11	30.00	
CALCIUM	458	480	5	30.00	
CHROMIUM	16.5	18.4	11	30.00	
COBALT	5.17	5.68	9	30.00	
COPPER	9.16	8.89	3	30.00	
IRON	14300	14700	3	30.00	
LEAD	7.32	6.43	13	30.00	No Qualifiers Applied
MAGNESIUM	2600	3000	14	30.00	
MANGANESE	198	199	1	30.00	
NICKEL	10.0	11.6	15	30.00	
POTASSIUM	1350	1600	17	30.00	
SELENIUM	0.249	0.198	23	30.00	
SODIUM	90.3	93.9	4	30.00	
THALLIUM	0.162	0.173	7	30.00	
VANADIUM	26.6	28.3	6	30.00	
ZINC	29.3	27.3	7	30.00	
CADMIUM	0.0511	0.173 U	200	30.00	J(all detects)
SILVER	0.0258	0.173 U	200	30.00	UJ(all non-detects)

Method: 7199
Matrix: SOIL

Analyte	Concentration (mg/kg) 203-SB29-01 (Dry)	Concentration (mg/kg) 203-SB29-01DUP (Dry)	Sample RPD	eQAPP RPD	Flag
Hexavalent Chromium [Cr (VI)]	2.5	0.51 U	200	30.00	J(all detects) UJ(all non-detects)

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Field Duplicate RPD Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 7199
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB23-01 (Dry)	203-SB23-01DUP (Dry)			
Hexavalent Chromium [Cr (VI)]	0.47 U	5.2	200	30.00	J(all detects) UJ(all non-detects)

Method: 7471B
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB23-01 (Dry)	203-SB23-01DUP (Dry)			
MERCURY	0.0213	0.0193	10	30.00	No Qualifiers Applied

Method: 8260C
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB29-01	203-SB29-01DUP			
2-Butanone [MEK]	0.008 U	0.007	200	30.00	J(all detects)
ACETONE	0.040	0.094	81	30.00	UJ(all non-detects)

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB23-01	203-SB23-01DUP			
2-Butanone [MEK]	0.01 U	0.004	200	30.00	J(all detects)
ACETONE	0.052	0.075	36	30.00	UJ(all non-detects)
METHYL ACETATE	0.016	0.005 U	200	30.00	

Method: 8270D SIM
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB29-01	203-SB29-01DUP			
BENZO(B)FLUORANTHENE	0.0063	0.0047	29	30.00	No Qualifiers Applied
BENZO(K)FLUORANTHENE	0.0024	0.0023	4	30.00	
1-METHYLNAPHTHALENE	0.0034	0.0068	67	30.00	J(all detects) UJ(all non-detects)
2-METHYLNAPHTHALENE	0.0043	0.0067	44	30.00	
ACENAPHTHENE	0.0048	0.0072	40	30.00	
ACENAPHTHYLENE	0.00096	0.0016	50	30.00	
ANTHRACENE	0.0014	0.0020	35	30.00	
BENZ(A)ANTHRACENE	0.0018	0.0025	33	30.00	
BENZO(A)PYRENE	0.0040	0.0026	42	30.00	
BENZO(G,H,I)PERYLENE	0.0021	0.00091	79	30.00	
CHRYSENE	0.0029	0.0040	32	30.00	
FLUORANTHENE	0.0055	0.0091	49	30.00	
FLUORENE	0.0052	0.0077	39	30.00	
INDENO(1,2,3-CD)PYRENE	0.0020	0.00092	74	30.00	
NAPHTHALENE	0.012	0.0050	82	30.00	
PHENANTHRENE	0.015	0.021	33	30.00	
PYRENE	0.0057	0.0097	52	30.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D SIM
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB23-01	203-SB23-01DUP			
1-METHYLNAPHTHALENE	0.0085	0.0089	5	30.00	No Qualifiers Applied
2-METHYLNAPHTHALENE	0.010	0.013	26	30.00	
ACENAPHTHENE	0.0055	0.0098 U	200	30.00	J(all detects) UJ(all non-detects)
ANTHRACENE	0.0059	0.0033	57	30.00	
BENZ(A)ANTHRACENE	0.011	0.0057	63	30.00	
BENZO(A)PYRENE	0.010	0.0055	58	30.00	
BENZO(B)FLUORANTHENE	0.016	0.0090	56	30.00	
BENZO(K)FLUORANTHENE	0.0068	0.0098 U	200	30.00	
CHRYSENE	0.012	0.0067	57	30.00	
FLUORANTHENE	0.033	0.015	75	30.00	
FLUORENE	0.0065	0.0098 U	200	30.00	
NAPHTHALENE	0.0072	0.013	57	30.00	
PHENANTHRENE	0.035	0.018	64	30.00	
PYRENE	0.025	0.012	70	30.00	

Method: 8270D
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB29-01	203-SB29-01DUP			
BENZO(B)FLUORANTHENE	0.007	0.006	15	30.00	No Qualifiers Applied
1-METHYLNAPHTHALENE	0.020 U	0.007	200	30.00	J(all detects) UJ(all non-detects)
2-METHYLNAPHTHALENE	0.004	0.008	67	30.00	
ACENAPHTHENE	0.005	0.012	82	30.00	
BIS(2-ETHYLHEXYL) PHTHALATE	0.20 U	0.70	200	30.00	
CHRYSENE	0.020 U	0.005	200	30.00	
FLUORANTHENE	0.005	0.008	46	30.00	
FLUORENE	0.006	0.011	59	30.00	
NAPHTHALENE	0.011	0.006	59	30.00	
PHENANTHRENE	0.014	0.024	53	30.00	
PYRENE	0.006	0.014	80	30.00	

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB23-01	203-SB23-01DUP			
1-METHYLNAPHTHALENE	0.009	0.010	11	30.00	No Qualifiers Applied
2-METHYLNAPHTHALENE	0.010	0.013	26	30.00	
INDENO(1,2,3-CD)PYRENE	0.006	0.005	18	30.00	
ACENAPHTHENE	0.006	0.004	40	30.00	J(all detects) UJ(all non-detects)
ANTHRACENE	0.008	0.020 U	200	30.00	
BENZ(A)ANTHRACENE	0.010	0.006	50	30.00	
Benzo (g,h,i) perylene	0.006	0.020 U	200	30.00	
BENZO(A)PYRENE	0.01	0.007	35	30.00	
BENZO(B)FLUORANTHENE	0.015	0.008	61	30.00	
BENZO(K)FLUORANTHENE	0.007	0.020 U	200	30.00	
CHRYSENE	0.012	0.007	53	30.00	
FLUORANTHENE	0.029	0.015	64	30.00	
FLUORENE	0.007	0.004	55	30.00	
NAPHTHALENE	0.008	0.015	61	30.00	
PHENANTHRENE	0.034	0.021	47	30.00	
PYRENE	0.025	0.014	56	30.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: APP07 **Laboratory: LLL**

EDD Filename: APP07-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 9045D
Matrix: SOIL

Analyte	Concentration (Std. Units)		Sample RPD	eQAPP RPD	Flag
	203-SB29-01	203-SB29-01DUP			
PH	7.65	6.85	11	30.00	No Qualifiers Applied

Analyte	Concentration (Std. Units)		Sample RPD	eQAPP RPD	Flag
	203-SB23-01	203-SB23-01DUP			
PH	6.03	6.00	0	30.00	No Qualifiers Applied

Method: Calculation
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB29-01 (Dry)	203-SB29-01DUP (Dry)			
TRIVALENT CHROMIUM	21.7	34.7	46	20.00	J(all detects) UJ(all non-detects)

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB23-01 (Dry)	203-SB23-01DUP (Dry)			
TRIVALENT CHROMIUM	16.5	13.2	22	20.00	J(all detects) UJ(all non-detects)

Method: D1498
Matrix: SOIL

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	203-SB29-01	203-SB29-01DUP			
Oxidation Reduction Potential (ORP)	507	462	9	30.00	No Qualifiers Applied

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	203-SB23-01	203-SB23-01DUP			
Oxidation Reduction Potential (ORP)	564	583	3	30.00	No Qualifiers Applied

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Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP08	
Date(s) of Collection:	December 12th, 2016	
Number/Type Samples & Analyses:	18 soil samples and 1 field duplicate for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	February 1st, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) APP08. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

✓ Trip blank data

✓ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✗ Laboratory duplicate results

✗ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Samples 203-SB30-01, 203-SB34-10, 203-SB21-01, 203-SB32-01, 203-SB32-09, 203-SB20-01, 203-SB18-01, 203-SB14-01, 203-SB15-01, and 203-SB09-01 were run for 8270 SIM and regular 8270. The final results will be presented in SVOC SIM.

Samples 203-SB21-24 and 203-SB30-10 were analyzed initially within hold time for VOCs, however the ending calculation check was run outside of the tune for the instrument. It was repeated 1 day after hold time had expired with all QC being within limits. The results between the two runs were consistent and the first set of results will be presented.

This data package was revised 11/9/2017 due to the Eurofins metals data breach. The majority of the data changes were made to Quality Control (QC) and/or calibration checks, not to actual sample results. Where we see sample result changes, these are primarily cases where the result exceeded the linear calibration range of the instrument and were changed to be slightly lower than the upper limit of the calibration range.

In this package, the interference check standard percent recovery for silver and antimony was within QC specification in the original run as well as in the corrected package.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	SR
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB09-01 **Collected:** 12/13/2016 2:07:00 PM **Analysis Type:** Reanalysis-02222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.169	J	0.174	LOD	0.695	LOQ	mg/kg	J	Rl

Sample ID: 203-SB14-01 **Collected:** 12/13/2016 11:53:00 AM **Analysis Type:** Initial111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0217	J	0.0417	LOD	0.167	LOQ	mg/kg	J	Rl

Sample ID: 203-SB14-01 **Collected:** 12/13/2016 11:53:00 AM **Analysis Type:** Reanalysis-02222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.173	J	0.167	LOD	0.668	LOQ	mg/kg	J	Rl

Sample ID: 203-SB14-24 **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0459	J	0.103	LOD	0.206	LOQ	mg/kg	J	Rl, Fd
CHROMIUM	13.8		0.206	LOD	0.823	LOQ	mg/kg	J	Fd
COBALT	4.04		0.103	LOD	0.206	LOQ	mg/kg	J	Fd
MAGNESIUM	2240		10.3	LOD	41.2	LOQ	mg/kg	J	Fd
NICKEL	7.67		0.206	LOD	0.823	LOQ	mg/kg	J	Fd
POTASSIUM	1620		20.6	LOD	82.3	LOQ	mg/kg	J	Fd
THALLIUM	0.133	J	0.0514	LOD	0.206	LOQ	mg/kg	J	Rl, Fd

Sample ID: 203-SB14-24 **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Reanalysis-03111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	46.7		0.412	LOD	0.823	LOQ	mg/kg	J	Fd

Sample ID: 203-SB14-24DUP **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.102	U	0.102	LOD	0.204	LOQ	mg/kg	UJ	Fd
CHROMIUM	20.7		0.204	LOD	0.817	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **SOIL**

Sample ID: **203-SB14-24DUP** ***Collected:*** **12/13/2016 12:44:00 PM** ***Analysis Type:*** **Initial3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	5.52		0.102	LOD	0.204	LOQ	mg/kg	J	Fd
MAGNESIUM	3500		10.2	LOD	40.9	LOQ	mg/kg	J	Fd
NICKEL	11.9		0.204	LOD	0.817	LOQ	mg/kg	J	Fd
POTASSIUM	2740		20.4	LOD	81.7	LOQ	mg/kg	J	Fd
THALLIUM	0.214		0.0511	LOD	0.204	LOQ	mg/kg	J	Fd

Sample ID: **203-SB14-24DUP** ***Collected:*** **12/13/2016 12:44:00 PM** ***Analysis Type:*** **Reanalysis-03111** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	77.0		0.409	LOD	0.817	LOQ	mg/kg	J	Fd

Sample ID: **203-SB15-01** ***Collected:*** **12/13/2016 10:23:00 AM** ***Analysis Type:*** **Initial222** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0608	J	0.107	LOD	0.213	LOQ	mg/kg	J	Rl
THALLIUM	0.191	J	0.0533	LOD	0.213	LOQ	mg/kg	J	Rl

Sample ID: **203-SB15-01** ***Collected:*** **12/13/2016 10:23:00 AM** ***Analysis Type:*** **Reanalysis-02111** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.225	J	0.213	LOD	0.853	LOQ	mg/kg	J	Rl

Sample ID: **203-SB15-28** ***Collected:*** **12/13/2016 11:34:00 AM** ***Analysis Type:*** **Initial2222** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0991	J	0.0949	LOD	0.190	LOQ	mg/kg	J	Rl

Sample ID: **203-SB18-01** ***Collected:*** **12/13/2016 9:00:00 AM** ***Analysis Type:*** **Initial3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0688	J	0.114	LOD	0.229	LOQ	mg/kg	J	Rl
THALLIUM	0.215	J	0.0572	LOD	0.229	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB18-01 **Collected:** 12/13/2016 9:00:00 AM **Analysis Type:** Reanalysis-02111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.180	J	0.229	LOD	0.915	LOQ	mg/kg	J	RI

Sample ID: 203-SB18-18 **Collected:** 12/13/2016 9:38:00 AM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.146	J	0.0509	LOD	0.204	LOQ	mg/kg	J	RI

Sample ID: 203-SB18-23 **Collected:** 12/13/2016 9:44:00 AM **Analysis Type:** Initial222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.102	J	0.0516	LOD	0.206	LOQ	mg/kg	J	RI

Sample ID: 203-SB20-01 **Collected:** 12/13/2016 7:55:00 AM **Analysis Type:** Initial111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13600		8.91	LOD	35.6	LOQ	mg/kg	J+	Ms
ANTIMONY	0.178	U	0.178	LOD	0.356	LOQ	mg/kg	UJ	Ms
ARSENIC	3.78		0.356	LOD	0.713	LOQ	mg/kg	J-	Ms
CADMIUM	0.0854	J	0.0891	LOD	0.178	LOQ	mg/kg	J	RI
CHROMIUM	21.3		0.178	LOD	0.713	LOQ	mg/kg	J+	Ms
COPPER	11.3		0.178	LOD	0.713	LOQ	mg/kg	J+	Ms
IRON	15700		17.8	LOD	35.6	LOQ	mg/kg	J	Ms, Ms
LEAD	9.21		0.0446	LOD	0.356	LOQ	mg/kg	J	Ms, Ms, Ld
MAGNESIUM	3410		8.91	LOD	35.6	LOQ	mg/kg	J+	Ms
MANGANESE	197		0.178	LOD	0.713	LOQ	mg/kg	J+	Ms
POTASSIUM	2050		17.8	LOD	71.3	LOQ	mg/kg	J+	Ms
THALLIUM	0.159	J	0.0446	LOD	0.178	LOQ	mg/kg	J	RI
VANADIUM	30.7		0.0891	LOD	0.178	LOQ	mg/kg	J+	Ms
ZINC	33.9		2.67	LOD	5.35	LOQ	mg/kg	J+	Ms

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: SOIL**

Sample ID: 203-SB20-01 **Collected:** 12/13/2016 7:55:00 AM **Analysis Type:** Reanalysis-02222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	928		35.6	LOD	71.3	LOQ	mg/kg	J+	Ms
SELENIUM	0.256	J	0.178	LOD	0.713	LOQ	mg/kg	J	Rl, Ld

Sample ID: 203-SB20-01 **Collected:** 12/13/2016 7:55:00 AM **Analysis Type:** Reanalysis-033 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	59.5		0.356	LOD	0.713	LOQ	mg/kg	J+	Ms

Sample ID: 203-SB20-24 **Collected:** 12/13/2016 8:46:00 AM **Analysis Type:** Initial111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.128	J	0.0506	LOD	0.202	LOQ	mg/kg	J	Rl

Sample ID: 203-SB21-01 **Collected:** 12/12/2016 3:23:00 PM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0536	J	0.103	LOD	0.206	LOQ	mg/kg	J	Rl
THALLIUM	0.199	J	0.0515	LOD	0.206	LOQ	mg/kg	J	Rl

Sample ID: 203-SB21-01 **Collected:** 12/12/2016 3:23:00 PM **Analysis Type:** Reanalysis-02111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.186	J	0.206	LOD	0.824	LOQ	mg/kg	J	Rl

Sample ID: 203-SB21-24 **Collected:** 12/12/2016 4:13:00 PM **Analysis Type:** Initial222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0309	J	0.0785	LOD	0.157	LOQ	mg/kg	J	Rl
THALLIUM	0.143	J	0.0392	LOD	0.157	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB30-01 **Collected:** 12/12/2016 2:05:00 PM **Analysis Type:** Initial111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0493	J	0.105	LOD	0.211	LOQ	mg/kg	J	RI
THALLIUM	0.179	J	0.0527	LOD	0.211	LOQ	mg/kg	J	RI

Sample ID: 203-SB30-01 **Collected:** 12/12/2016 2:05:00 PM **Analysis Type:** Reanalysis-02222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.211	LOD	0.843	LOQ	mg/kg	J	RI

Sample ID: 203-SB32-01 **Collected:** 12/12/2016 3:00:00 PM **Analysis Type:** Initial222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.169	J	0.123	LOD	0.245	LOQ	mg/kg	J	RI
THALLIUM	0.221	J	0.0613	LOD	0.245	LOQ	mg/kg	J	RI

Sample ID: 203-SB32-01 **Collected:** 12/12/2016 3:00:00 PM **Analysis Type:** Reanalysis-023 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.156	J	0.245	LOD	0.981	LOQ	mg/kg	J	RI

Sample ID: 203-SB32-09 **Collected:** 12/12/2016 3:10:00 PM **Analysis Type:** Initial111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0290	J	0.0743	LOD	0.149	LOQ	mg/kg	J	RI

Sample ID: 203-SB32-09 **Collected:** 12/12/2016 3:10:00 PM **Analysis Type:** Reanalysis-023 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.149	LOD	0.595	LOQ	mg/kg	J	RI

Sample ID: 203-SB34-01 **Collected:** 12/12/2016 2:33:00 PM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.138	J	0.0814	LOD	0.163	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: SOIL**

Sample ID: 203-SB34-01 **Collected:** 12/12/2016 2:33:00 PM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0251	J	0.0407	LOD	0.163	LOQ	mg/kg	J	RI

Sample ID: 203-SB34-01 **Collected:** 12/12/2016 2:33:00 PM **Analysis Type:** Reanalysis-02222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.163	LOD	0.652	LOQ	mg/kg	J	RI

Sample ID: 203-SB34-10 **Collected:** 12/12/2016 2:40:00 PM **Analysis Type:** Reanalysis-02111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.180	LOD	0.720	LOQ	mg/kg	J	RI

Method Category: METALS

Method: 7199 **Matrix: SOIL**

Sample ID: 203-SB14-24 **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.46	J	0.50	LOD	0.50	LOQ	mg/kg	J	RI, Fd

Sample ID: 203-SB14-24DUP **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.43	U	0.43	LOD	0.43	LOQ	mg/kg	UJ	Fd

Sample ID: 203-SB15-28 **Collected:** 12/13/2016 11:34:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.47	J	0.52	LOD	0.52	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 7199 **Matrix: SOIL**

Sample ID: 203-SB20-01 **Collected:** 12/13/2016 7:55:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	1.3		0.45	LOD	0.45	LOQ	mg/kg	J	Ld

Sample ID: 203-SB30-10 **Collected:** 12/12/2016 2:18:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.40	J	0.45	LOD	0.45	LOQ	mg/kg	J	Rl

Sample ID: 203-SB32-09 **Collected:** 12/12/2016 3:10:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.40	J	0.46	LOD	0.46	LOQ	mg/kg	J	Rl

Method Category: METALS

Method: 7471B **Matrix: SOIL**

Sample ID: 203-SB20-01 **Collected:** 12/13/2016 7:55:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0119	J	0.0180	LOD	0.108	LOQ	mg/kg	J	Rl, Ld

Sample ID: 203-SB32-01 **Collected:** 12/12/2016 3:00:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0147	J	0.0206	LOD	0.124	LOQ	mg/kg	J	Rl

Method Category: METALS

Method: Calculation **Matrix: SOIL**

Sample ID: 203-SB14-24 **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Reanalysis-04 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	13.4		0.50	LOD	0.82	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: Calculation **Matrix: SOIL**

Sample ID: 203-SB14-24DUP **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Reanalysis-04 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	20.7		0.43	LOD	0.82	LOQ	mg/kg	J	Fd

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB09-01 **Collected:** 12/13/2016 2:07:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-BIPHENYL	0.022	J	0.036	LOD	0.036	LOQ	mg/kg	J	RI

Sample ID: 203-SB09-01 **Collected:** 12/13/2016 2:07:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.12		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.16		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.009	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHYLENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
ANTHRACENE	0.009	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZ(A)ANTHRACENE	0.016	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
Benzo (g,h,i) perylene	0.015	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.020		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.026		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.014	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BIS(2-ETHYLHEXYL) PHTHALATE	0.17	J	0.15	LOD	0.19	LOQ	mg/kg	J	RI
CHRYSENE	0.018	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.025		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.018	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.014	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
NAPHTHALENE	0.030		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.048		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.026		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB14-01 **Collected:** 12/13/2016 11:53:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.047		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.062		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.006	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.009	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
BENZ(A)ANTHRACENE	0.045		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.023		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.040		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.056		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.028		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.047		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.078		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.008	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.025		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.018	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
PHENANTHRENE	0.046		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.072		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB14-24 **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Dilution-01-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	19		0.16	LOD	0.21	LOQ	mg/kg	J	Fd
2-METHYLNAPHTHALENE	31		0.16	LOD	0.21	LOQ	mg/kg	J	Fd
NAPHTHALENE	8.8		0.16	LOD	0.21	LOQ	mg/kg	J	Fd

Sample ID: 203-SB14-24 **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-BIPHENYL	3.2		0.041	LOD	0.041	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB14-24 **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.0		0.016	LOD	0.021	LOQ	mg/kg	J	Fd
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	UJ	Fd
ANTHRACENE	0.68		0.016	LOD	0.021	LOQ	mg/kg	J	Fd
BENZ(A)ANTHRACENE	0.067		0.016	LOD	0.021	LOQ	mg/kg	J	Fd
Benzo (g,h,i) perylene	0.019	J	0.016	LOD	0.021	LOQ	mg/kg	J	Rl, Fd
BENZO(A)PYRENE	0.044		0.016	LOD	0.021	LOQ	mg/kg	J	Fd
BENZO(B)FLUORANTHENE	0.059		0.016	LOD	0.021	LOQ	mg/kg	J	Fd
BENZO(K)FLUORANTHENE	0.019	J	0.016	LOD	0.021	LOQ	mg/kg	J	Rl, Fd
BIS(2-ETHYLHEXYL) PHTHALATE	0.22		0.16	LOD	0.21	LOQ	mg/kg	J	Fd
CARBAZOLE	0.12		0.041	LOD	0.041	LOQ	mg/kg	J	Fd
CHRYSENE	0.066		0.016	LOD	0.021	LOQ	mg/kg	J	Fd
DIBENZO(A,H)ANTHRACENE	0.006	J	0.016	LOD	0.021	LOQ	mg/kg	J	Rl, Fd
DIBENZOFURAN	1.2		0.041	LOD	0.041	LOQ	mg/kg	J	Fd
FLUORANTHENE	0.24		0.016	LOD	0.021	LOQ	mg/kg	J	Fd
FLUORENE	1.8		0.016	LOD	0.021	LOQ	mg/kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.018	J	0.016	LOD	0.021	LOQ	mg/kg	J	Rl, Fd
PHENANTHRENE	4.8		0.016	LOD	0.021	LOQ	mg/kg	J	Fd
PYRENE	0.37		0.016	LOD	0.021	LOQ	mg/kg	J	Fd

Sample ID: 203-SB14-24DUP **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Dilution-01-BASE/NEUTRAL **Dilution:** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	48		0.30	LOD	0.38	LOQ	mg/kg	J	Fd

Sample ID: 203-SB14-24DUP **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-BIPHENYL	5.4		0.37	LOD	0.37	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB14-24DUP **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	29		0.15	LOD	0.19	LOQ	mg/kg	J	Fd
ACENAPHTHENE	1.7		0.15	LOD	0.19	LOQ	mg/kg	J	Fd
ACENAPHTHYLENE	0.88		0.15	LOD	0.19	LOQ	mg/kg	J	Fd
ANTHRACENE	1.0		0.15	LOD	0.19	LOQ	mg/kg	J	Fd
BENZ(A)ANTHRACENE	0.10	J	0.15	LOD	0.19	LOQ	mg/kg	J	Rl, Fd
Benzo (g,h,i) perylene	0.15	U	0.15	LOD	0.19	LOQ	mg/kg	UJ	Fd
BENZO(A)PYRENE	0.065	J	0.15	LOD	0.19	LOQ	mg/kg	J	Rl, Fd
BENZO(B)FLUORANTHENE	0.093	J	0.15	LOD	0.19	LOQ	mg/kg	J	Rl, Fd
BENZO(K)FLUORANTHENE	0.15	U	0.15	LOD	0.19	LOQ	mg/kg	UJ	Fd
BIS(2-ETHYLHEXYL) PHTHALATE	1.5	U	1.5	LOD	1.9	LOQ	mg/kg	UJ	Fd
CARBAZOLE	0.37	U	0.37	LOD	0.37	LOQ	mg/kg	UJ	Fd
CHRYSENE	0.096	J	0.15	LOD	0.19	LOQ	mg/kg	J	Rl, Fd
DIBENZO(A,H)ANTHRACENE	0.15	U	0.15	LOD	0.19	LOQ	mg/kg	UJ	Fd
DIBENZOFURAN	2.1		0.37	LOD	0.37	LOQ	mg/kg	J	Fd
FLUORANTHENE	0.37		0.15	LOD	0.19	LOQ	mg/kg	J	Fd
FLUORENE	3.6		0.15	LOD	0.19	LOQ	mg/kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.15	U	0.15	LOD	0.19	LOQ	mg/kg	UJ	Fd
NAPHTHALENE	14		0.15	LOD	0.19	LOQ	mg/kg	J	Fd
PHENANTHRENE	7.0		0.15	LOD	0.19	LOQ	mg/kg	J	Fd
PYRENE	0.57		0.15	LOD	0.19	LOQ	mg/kg	J	Fd

Sample ID: 203-SB15-01 **Collected:** 12/13/2016 10:23:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
2-METHYLNAPHTHALENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.008	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
BENZ(A)ANTHRACENE	0.047		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.020		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.036		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB15-01 **Collected:** 12/13/2016 10:23:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.050		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.025		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.042		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.080		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.018	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.025		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.076		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB15-28 **Collected:** 12/13/2016 11:34:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.060	J	0.18	LOD	0.22	LOQ	mg/kg	J	Rl

Sample ID: 203-SB18-01 **Collected:** 12/13/2016 9:00:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.008	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
2-METHYLNAPHTHALENE	0.011	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
ACENAPHTHENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
BENZO(B)FLUORANTHENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
BENZO(K)FLUORANTHENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.004	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB18-01 **Collected:** 12/13/2016 9:00:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
PYRENE	0.008	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg

Sample ID: 203-SB18-18 **Collected:** 12/13/2016 9:38:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.14	J	0.14	LOD	0.18	LOQ	mg/kg	J	RI

Sample ID: 203-SB18-23 **Collected:** 12/13/2016 9:44:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	24		0.15	LOD	0.19	LOQ	mg/kg	J+	Surr
2-METHYLNAPHTHALENE	42		0.15	LOD	0.19	LOQ	mg/kg	J+	Surr
ACENAPHTHENE	1.5		0.15	LOD	0.19	LOQ	mg/kg	J+	Surr
ANTHRACENE	0.79		0.15	LOD	0.19	LOQ	mg/kg	J+	Surr
DIBENZOFURAN	1.7		0.36	LOD	0.36	LOQ	mg/kg	J+	Surr
FLUORANTHENE	0.092	J	0.15	LOD	0.19	LOQ	mg/kg	J	RI, Surr
FLUORENE	2.7		0.15	LOD	0.19	LOQ	mg/kg	J+	Surr
NAPHTHALENE	13		0.15	LOD	0.19	LOQ	mg/kg	J+	Surr
PHENANTHRENE	5.6		0.15	LOD	0.19	LOQ	mg/kg	J+	Surr
PYRENE	0.26		0.15	LOD	0.19	LOQ	mg/kg	J+	Surr

Sample ID: 203-SB20-01 **Collected:** 12/13/2016 7:55:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Chloroaniline [p-Chloroaniline]	0.076	U	0.076	LOD	0.076	LOQ	mg/kg	UJ	Ms

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB20-01 **Collected:** 12/13/2016 7:55:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
2-METHYLNAPHTHALENE	0.018	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
3,3'-DICHLOROBENZIDINE	0.38	U	0.38	LOD	0.38	LOQ	mg/kg	UJ	Ms
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.013	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
Benzo (g,h,i) perylene	0.009	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.015	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.018	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(K)FLUORANTHENE	0.012	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
CHRYSENE	0.014	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.020		0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
NAPHTHALENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
PHENANTHRENE	0.013	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
PYRENE	0.019	J	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB20-24 **Collected:** 12/13/2016 8:46:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
BIS(2-ETHYLHEXYL) PHTHALATE	0.081	J	0.15	LOD	0.19	LOQ	mg/kg	J	RI
CHRYSENE	0.012	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI

Sample ID: 203-SB21-01 **Collected:** 12/12/2016 3:23:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
2-METHYLNAPHTHALENE	0.007	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB21-01 **Collected:** 12/12/2016 3:23:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.004	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZ(A)ANTHRACENE	0.01	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
Benzo (g,h,i) perylene	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.011	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.023		0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.009	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
CHRYSENE	0.012	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.013	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
FLUORENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.009	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
NAPHTHALENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.009	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
PYRENE	0.015	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg

Sample ID: 203-SB21-24 **Collected:** 12/12/2016 4:13:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.005	J	0.014	LOD	0.018	LOQ	mg/kg	J	RI
CHRYSENE	0.008	J	0.014	LOD	0.018	LOQ	mg/kg	J	RI

Sample ID: 203-SB30-01 **Collected:** 12/12/2016 2:05:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.014	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
2-METHYLNAPHTHALENE	0.016	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB30-01 **Collected:** 12/12/2016 2:05:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.014	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
PYRENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg

Sample ID: 203-SB30-10 **Collected:** 12/12/2016 2:18:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI

Sample ID: 203-SB32-01 **Collected:** 12/12/2016 3:00:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.012	J	0.017	LOD	0.022	LOQ	mg/kg	NP	RI, ProfJudg
2-METHYLNAPHTHALENE	0.018	J	0.017	LOD	0.022	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHENE	0.017	U	0.017	LOD	0.022	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.017	U	0.017	LOD	0.022	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.007	J	0.017	LOD	0.022	LOQ	mg/kg	NP	RI, ProfJudg
BENZ(A)ANTHRACENE	0.016	J	0.017	LOD	0.022	LOQ	mg/kg	NP	RI, ProfJudg
BENZALDEHYDE	0.087	J	0.17	LOD	0.22	LOQ	mg/kg	J	RI
Benzo (g,h,i) perylene	0.012	J	0.017	LOD	0.022	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.017	J	0.017	LOD	0.022	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.026		0.017	LOD	0.022	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.009	J	0.017	LOD	0.022	LOQ	mg/kg	NP	RI, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB32-01 **Collected:** 12/12/2016 3:00:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL) PHTHALATE	0.15	J	0.17	LOD	0.22	LOQ	mg/kg	J	Rl
CHRYSENE	0.018	J	0.017	LOD	0.022	LOQ	mg/kg	NP	Rl, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.017	U	0.017	LOD	0.022	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.022		0.017	LOD	0.022	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.017	U	0.017	LOD	0.022	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.011	J	0.017	LOD	0.022	LOQ	mg/kg	NP	Rl, ProfJudg
NAPHTHALENE	0.009	J	0.017	LOD	0.022	LOQ	mg/kg	NP	Rl, ProfJudg
PHENANTHRENE	0.019	J	0.017	LOD	0.022	LOQ	mg/kg	NP	Rl, ProfJudg
PYRENE	0.026		0.017	LOD	0.022	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB32-09 **Collected:** 12/12/2016 3:10:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-CHLORO-3-METHYLPHENOL	0.020	J	0.037	LOD	0.037	LOQ	mg/kg	J	Rl

Sample ID: 203-SB32-09 **Collected:** 12/12/2016 3:10:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB32-09 **Collected:** 12/12/2016 3:10:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.011	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg

Sample ID: 203-SB34-01 **Collected:** 12/12/2016 2:33:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.014	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
BIS(2-ETHYLHEXYL) PHTHALATE	0.10	J	0.15	LOD	0.19	LOQ	mg/kg	J	RI
CAPROLACTAM	0.045	J	0.15	LOD	0.19	LOQ	mg/kg	J	RI
DIBENZO(A,H)ANTHRACENE	0.012	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
DIBENZOFURAN	0.019	J	0.037	LOD	0.037	LOQ	mg/kg	J	RI

Sample ID: 203-SB34-10 **Collected:** 12/12/2016 2:40:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB34-10 **Collected:** 12/12/2016 2:40:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB09-01 **Collected:** 12/13/2016 2:07:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.0017	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	RI

Sample ID: 203-SB14-01 **Collected:** 12/13/2016 11:53:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.0059	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	RI
ACENAPHTHYLENE	0.0028	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	RI
DIBENZO(A,H)ANTHRACENE	0.0091	J	0.0077	LOD	0.0096	LOQ	mg/kg	J	RI

Sample ID: 203-SB15-01 **Collected:** 12/13/2016 10:23:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.00083	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI

Sample ID: 203-SB18-01 **Collected:** 12/13/2016 9:00:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.00043	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
ANTHRACENE	0.00055	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
BENZO(G,H,I)PERYLENE	0.00088	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
FLUORENE	0.0013	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
INDENO(1,2,3-CD)PYRENE	0.0011	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix:** SOIL

Sample ID: 203-SB20-01 **Collected:** 12/13/2016 7:55:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.00080	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl, Ms, Ms
ACENAPHTHYLENE	0.00055	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
ANTHRACENE	0.0012	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl, Ms, Ms
BENZ(A)ANTHRACENE	0.0098		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms
BENZO(A)PYRENE	0.011		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms
BENZO(B)FLUORANTHENE	0.019		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms
BENZO(G,H,I)PERYLENE	0.0025		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms, Ms
BENZO(K)FLUORANTHENE	0.0085		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms
CHRYSENE	0.011		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms
DIBENZO(A,H)ANTHRACENE	0.00092	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl, Ms, Ms
FLUORANTHENE	0.018		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms
FLUORENE	0.0021		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms
INDENO(1,2,3-CD)PYRENE	0.0028		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms, Ms
PHENANTHRENE	0.0084		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms
PYRENE	0.016		0.0015	LOD	0.0019	LOQ	mg/kg	J	Ms, Ms

Sample ID: 203-SB21-01 **Collected:** 12/12/2016 3:23:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.00098	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	Rl
ANTHRACENE	0.0014	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	Rl
DIBENZO(A,H)ANTHRACENE	0.00099	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	Rl
FLUORENE	0.0019	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	Rl

Sample ID: 203-SB30-01 **Collected:** 12/12/2016 2:05:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.00082	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
ACENAPHTHYLENE	0.00058	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
ANTHRACENE	0.00078	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
INDENO(1,2,3-CD)PYRENE	0.00077	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
NAPHTHALENE	0.0018	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB32-01 **Collected:** 12/12/2016 3:00:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.00075	J	0.0017	LOD	0.0022	LOQ	mg/kg	J	Rl
ANTHRACENE	0.0021	J	0.0017	LOD	0.0022	LOQ	mg/kg	J	Rl
DIBENZO(A,H)ANTHRACENE	0.0011	J	0.0017	LOD	0.0022	LOQ	mg/kg	J	Rl
FLUORENE	0.0018	J	0.0017	LOD	0.0022	LOQ	mg/kg	J	Rl

Sample ID: 203-SB34-10 **Collected:** 12/12/2016 2:40:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.00098	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl
PHENANTHRENE	0.0013	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

Method Category: VOA

Method: 8260C **Matrix: SOIL**

Sample ID: 203-SB14-24 **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial **Dilution:** 35.77

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYCLOHEXANE	0.83		0.088	LOD	0.22	LOQ	mg/kg	J	Fd
ETHYLBENZENE	2.5		0.088	LOD	0.22	LOQ	mg/kg	J	Fd
ISOPROPYLBENZENE	1.3		0.088	LOD	0.22	LOQ	mg/kg	J	Fd
m/p-Xylene [3/4-Xylene]	4.8		0.088	LOD	0.22	LOQ	mg/kg	J	Fd
Methylcyclohexane	5.9		0.088	LOD	0.22	LOQ	mg/kg	J	Fd
O-XYLENE	0.38		0.088	LOD	0.22	LOQ	mg/kg	J	Fd
Xylene (Total)	5.2		0.088	LOD	0.22	LOQ	mg/kg	J	Fd

Sample ID: 203-SB14-24DUP **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial **Dilution:** 33.24

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DIOXANE	7.4	U	7.4	LOD	9.3	LOQ	mg/kg	UJ	Lcs
CYCLOHEXANE	0.38		0.074	LOD	0.19	LOQ	mg/kg	J	Fd
ETHYLBENZENE	1.4		0.074	LOD	0.19	LOQ	mg/kg	J	Fd
ISOPROPYLBENZENE	0.83		0.074	LOD	0.19	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: VOA

Method: 8260C **Matrix:** SOIL

Sample ID: 203-SB14-24DUP **Collected:** 12/13/2016 12:44:00 PM **Analysis Type:** Initial **Dilution:** 33.24

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m/p-Xylene [3/4-Xylene]	2.4		0.074	LOD	0.19	LOQ	mg/kg	J	Fd
Methylcyclohexane	2.9		0.074	LOD	0.19	LOQ	mg/kg	J	Fd
O-XYLENE	0.15	J	0.074	LOD	0.19	LOQ	mg/kg	J	Rl, Fd
Xylene (Total)	2.5		0.074	LOD	0.19	LOQ	mg/kg	J	Fd

Sample ID: 203-SB15-28 **Collected:** 12/13/2016 11:34:00 AM **Analysis Type:** Initial **Dilution:** 37.54

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,1,1-TRICHLOROETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,1,2-TRICHLOROETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,1,2-Trifluoro-1,2,2-trichloroethane [Freon-113]	0.20	U	0.20	LOD	0.50	LOQ	mg/kg	UJ	Surr
1,1-DICHLOROETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,1-DICHLOROETHENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,2,3-TRICHLOROBENZENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,2,3-TRICHLOROPROPANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,2-DIBROMO-3-CHLOROPROPANE	0.20	U	0.20	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,2-DIBROMOETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,2-DICHLOROETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,2-DICHLOROPROPANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
1,4-DIOXANE	9.9	U	9.9	LOD	12	LOQ	mg/kg	UJ	Surr
2-Butanone [MEK]	0.40	U	0.40	LOD	0.50	LOQ	mg/kg	UJ	Surr
2-HEXANONE	0.40	U	0.40	LOD	0.50	LOQ	mg/kg	UJ	Surr
4-Methyl-2-pentanone [MIBK]	0.40	U	0.40	LOD	0.50	LOQ	mg/kg	UJ	Surr
ACETONE	0.79	U	0.79	LOD	0.99	LOQ	mg/kg	UJ	Surr
BENZENE	0.069	J	0.099	LOD	0.25	LOQ	mg/kg	J	Rl, Surr
BROMOCHLOROMETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
BROMODICHLOROMETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
BROMOFORM	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
BROMOMETHANE	0.20	U	0.20	LOD	0.25	LOQ	mg/kg	UJ	Surr
CARBON DISULFIDE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **SOIL**

Sample ID: **203-SB15-28** ***Collected:*** **12/13/2016 11:34:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **37.54**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
CARBON TETRACHLORIDE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
CHLOROBENZENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
CHLORODIBROMOMETHANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
CHLOROETHANE	0.20	U	0.20	LOD	0.25	LOQ	mg/kg	UJ	Surr
CHLOROFORM	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
CHLOROMETHANE	0.20	U	0.20	LOD	0.25	LOQ	mg/kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	0.098	J	0.099	LOD	0.25	LOQ	mg/kg	J	RI, Surr
CIS-1,3-DICHLOROPROPENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
CYCLOHEXANE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
Dichlorodifluoromethane [Freon-12]	0.20	U	0.20	LOD	0.25	LOQ	mg/kg	UJ	Surr
ETHYLBENZENE	0.22	J	0.099	LOD	0.25	LOQ	mg/kg	J	RI, Surr
ISOPROPYLBENZENE	0.090	J	0.099	LOD	0.25	LOQ	mg/kg	J	RI, Surr
m/p-Xylene [3/4-Xylene]	0.24	J	0.099	LOD	0.25	LOQ	mg/kg	J	RI, Surr
METHYL ACETATE	0.20	U	0.20	LOD	0.25	LOQ	mg/kg	UJ	Surr
Methyl tert-butyl ether [MTBE]	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
Methylcyclohexane	0.13	J	0.099	LOD	0.25	LOQ	mg/kg	J	RI, Surr
METHYLENE CHLORIDE	0.20	U	0.20	LOD	0.25	LOQ	mg/kg	UJ	Surr
O-XYLENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
STYRENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
TETRACHLOROETHENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
TOLUENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
TRICHLOROETHENE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
Trichlorofluoromethane [Freon-11]	0.20	U	0.20	LOD	0.25	LOQ	mg/kg	UJ	Surr
VINYL ACETATE	0.20	U	0.20	LOD	0.50	LOQ	mg/kg	UJ	Surr
VINYL CHLORIDE	0.099	U	0.099	LOD	0.25	LOQ	mg/kg	UJ	Surr
Xylene (Total)	0.24	J	0.099	LOD	0.25	LOQ	mg/kg	J	RI, Surr

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: VOA

Method: 8260C **Matrix: SOIL**

Sample ID: 203-SB18-01 **Collected:** 12/13/2016 9:00:00 AM **Analysis Type:** Initial **Dilution:** 39.75

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Methylcyclohexane	0.056	J	0.095	LOD	0.24	LOQ	mg/kg	J	RI

Sample ID: 203-SB18-18 **Collected:** 12/13/2016 9:38:00 AM **Analysis Type:** Initial **Dilution:** 34.29

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.064	J	0.075	LOD	0.19	LOQ	mg/kg	J	RI
O-XYLENE	0.14	J	0.075	LOD	0.19	LOQ	mg/kg	J	RI

Sample ID: 203-SB20-01 **Collected:** 12/13/2016 7:55:00 AM **Analysis Type:** Initial **Dilution:** 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROBENZENE	0.002	U	0.002	LOD	0.005	LOQ	mg/kg	UJ	Ms

Sample ID: 203-SB21-01 **Collected:** 12/12/2016 3:23:00 PM **Analysis Type:** Initial **Dilution:** 0.75

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.007	J	0.007	LOD	0.009	LOQ	mg/kg	J	RI

Sample ID: 203-SB21-24 **Collected:** 12/12/2016 4:13:00 PM **Analysis Type:** Initial **Dilution:** 32.68

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.060	J	0.072	LOD	0.18	LOQ	mg/kg	J	RI
O-XYLENE	0.057	J	0.072	LOD	0.18	LOQ	mg/kg	J	RI

Sample ID: 203-SB30-01 **Collected:** 12/12/2016 2:05:00 PM **Analysis Type:** Initial **Dilution:** 0.72

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.003	J	0.007	LOD	0.008	LOQ	mg/kg	J	RI

Sample ID: 203-SB30-10 **Collected:** 12/12/2016 2:18:00 PM **Analysis Type:** Initial **Dilution:** 32.43

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ISOPROPYLBENZENE	0.042	J	0.072	LOD	0.18	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **SOIL**

Sample ID: **203-SB30-10** ***Collected:*** **12/12/2016 2:18:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **32.43**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m/p-Xylene [3/4-Xylene]	0.060	J	0.072	LOD	0.18	LOQ	mg/kg	J	RI
Methylcyclohexane	0.13	J	0.072	LOD	0.18	LOQ	mg/kg	J	RI
Xylene (Total)	0.060	J	0.072	LOD	0.18	LOQ	mg/kg	J	RI

Sample ID: **203-SB32-01** ***Collected:*** **12/12/2016 3:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.7**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.004	J	0.007	LOD	0.009	LOQ	mg/kg	J	RI

Sample ID: **203-SB32-09** ***Collected:*** **12/12/2016 3:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.71**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.014	J	0.013	LOD	0.016	LOQ	mg/kg	J	RI
CARBON DISULFIDE	0.003	J	0.002	LOD	0.004	LOQ	mg/kg	J	RI

Sample ID: **203-SB34-01** ***Collected:*** **12/12/2016 2:33:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.83**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.004	J	0.008	LOD	0.009	LOQ	mg/kg	J	RI

Sample ID: **203-SB34-10** ***Collected:*** **12/12/2016 2:40:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.68**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.006	J	0.012	LOD	0.015	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Upper Estimation
Ld	Laboratory Duplicate Precision
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Surrogate Outlier Report

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8260C
Matrix: SOIL

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB15-28 (Initial)	4-Bromofluorobenzene DIBROMOFLUOROMETHANE TOLUENE-D8	70 73 62	79.00-119.00 78.00-119.00 85.00-116.00	All Target Analytes	J- (all detects) UJ (all non-detects)
203-SB18-01 (Initial)	TOLUENE-D8	75	85.00-116.00	No Affected Compounds	

Method: 8270D
Matrix: SOIL

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB18-23 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5	120 131	44.00-115.00 37.00-122.00	All Base/Neutral Target Analytes	J+(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB20-01MS (Wet) 203-SB20-01MSD (Wet) (203-SB20-01)	IRON LEAD	10 57	987 122	81.00-124.00 84.00-118.00	- -	IRON LEAD	J (all detects) UJ (all non-detects)
203-SB20-01MS (Wet) 203-SB20-01MSD (Wet) (203-SB20-01)	ANTIMONY ARSENIC	53 79	65 -	72.00-124.00 82.00-118.00	- -	ANTIMONY ARSENIC	J-(all detects) UJ(all non-detects)
203-SB20-01MS (Wet) 203-SB20-01MSD (Wet) (203-SB20-01)	ALUMINUM CHROMIUM COPPER MAGNESIUM MANGANESE POTASSIUM VANADIUM ZINC	308 - - 151 413 - - 188	434 120 129 284 723 131 160 207	78.00-124.00 83.00-119.00 84.00-119.00 80.00-123.00 85.00-116.00 85.00-119.00 82.00-116.00 82.00-119.00	- - - - - - - -	ALUMINUM CHROMIUM COPPER MAGNESIUM MANGANESE POTASSIUM VANADIUM ZINC	J+(all detects)
203-SB20-01MSD (Wet) (203-SB20-01)	CALCIUM	-	130	86.00-118.00	-	CALCIUM	J+(all detects)
203-SB20-01MS (Wet) 203-SB20-01MSD (Wet) (203-SB20-01)	BARIUM	242	267	86.00-116.00	-	BARIUM	J+(all detects)

Method: 8270D
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB20-01MS 203-SB20-01MSD (203-SB20-01)	3,3'-DICHLOROBENZIDINE 4-Chloroaniline [p-Chloroaniline]	18 -	- 13	22.00-121.00 17.00-106.00	23 (20.00) 31 (20.00)	3,3'-DICHLOROBENZIDINE 4-Chloroaniline [p-Chloroaniline]	J(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB20-01MSD (203-SB20-01)	ACENAPHTHENE ANTHRACENE BENZ(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE FLUORANTHENE FLUORENE PHENANTHRENE PYRENE	- - - - - - - - - - -	329 677 1598 1276 2557 919 1458 4492 259 2796 3530	44.00-111.00 50.00-114.00 54.00-122.00 50.00-125.00 53.00-128.00 56.00-123.00 57.00-118.00 55.00-119.00 47.00-114.00 49.00-113.00 55.00-117.00	99 (20.00) 155 (20.00) 179 (20.00) 172 (20.00) 181 (20.00) 159 (20.00) 176 (20.00) 191 (20.00) 97 (20.00) 186 (20.00) 189 (20.00)	ACENAPHTHENE ANTHRACENE BENZ(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE FLUORANTHENE FLUORENE PHENANTHRENE PYRENE	J(all detects)
203-SB20-01MS 203-SB20-01MSD (203-SB20-01)	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	30 44 38	193 - 244	49.00-127.00 50.00-129.00 49.00-130.00	139 (20.00) 88 (20.00) 139 (20.00)	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8260C**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB20-01MS 203-SB20-01MSD (203-SB20-01)	1,2,3-TRICHLOROBENZENE	62	58	66.00-130.00	-	1,2,3-TRICHLOROBENZENE	J-(all detects) UJ(all non-detects)
203-SB20-01MS 203-SB20-01MSD (203-SB20-01)	1,1,2,2-TETRACHLOROETHANE 1,2,3-TRICHLOROPROPANE 1,2-DIBROMOETHANE	- 126 -	127 142 125	70.00-124.00 73.00-125.00 78.00-122.00	- - -	1,1,2,2-TETRACHLOROETHANE 1,2,3-TRICHLOROPROPANE 1,2-DIBROMOETHANE	J+(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB20-01DUP (Wet) (203-SB20-01)	LEAD SELENIUM	22 24	20.00 20.00	J (all detects) UJ (all non-detects)

Method: 7199
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB20-01DUP (Wet) (203-SB20-01)	Hexavalent Chromium [Cr (VI)]	23	20.00	J(all detects) UJ(all non-detects)

Method: 7471B
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB20-01DUP (Wet) (203-SB20-01)	MERCURY	34	20.00	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8260C**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCSA63QA163561AA LCSA63YA163561AA (203-SB09-01 203-SB14-01 203-SB15-01 203-SB20-01 203-SB21-01 203-SB30-01 203-SB32-01 203-SB32-09 203-SB34-10)	VINYL ACETATE	214	201	50.00-151.00	-	VINYL ACETATE	J+ (all detects)
LCSR48YR163562AA (203-SB14-24DUP)	1,4-DIOXANE	-	-	55.00-138.00	22 (20.00)	1,4-DIOXANE	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB09-01	SELENIUM	J	0.169	0.695	LOQ	mg/kg	J (all detects)
203-SB14-01	SELENIUM SILVER	J J	0.173 0.0217	0.668 0.167	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB14-24	CADMIUM THALLIUM	J J	0.0459 0.133	0.206 0.206	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB15-01	CADMIUM SELENIUM THALLIUM	J J J	0.0608 0.225 0.191	0.213 0.853 0.213	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB15-28	CADMIUM	J	0.0991	0.190	LOQ	mg/kg	J (all detects)
203-SB18-01	CADMIUM SELENIUM THALLIUM	J J J	0.0688 0.180 0.215	0.229 0.915 0.229	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB18-18	THALLIUM	J	0.146	0.204	LOQ	mg/kg	J (all detects)
203-SB18-23	THALLIUM	J	0.102	0.206	LOQ	mg/kg	J (all detects)
203-SB20-01	CADMIUM SELENIUM THALLIUM	J J J	0.0854 0.256 0.159	0.178 0.713 0.178	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB20-24	THALLIUM	J	0.128	0.202	LOQ	mg/kg	J (all detects)
203-SB21-01	CADMIUM SELENIUM THALLIUM	J J J	0.0536 0.186 0.199	0.206 0.824 0.206	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB21-24	CADMIUM THALLIUM	J J	0.0309 0.143	0.157 0.157	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB30-01	CADMIUM SELENIUM THALLIUM	J J J	0.0493 0.149 0.179	0.211 0.843 0.211	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB32-01	CADMIUM SELENIUM THALLIUM	J J J	0.169 0.156 0.221	0.245 0.981 0.245	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB32-09	CADMIUM SELENIUM	J J	0.0290 0.109	0.149 0.595	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB34-01	CADMIUM SELENIUM SILVER	J J J	0.138 0.162 0.0251	0.163 0.652 0.163	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB34-10	SELENIUM	J	0.109	0.720	LOQ	mg/kg	J (all detects)

Method: 7199

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB14-24	Hexavalent Chromium [Cr (VI)]	J	0.46	0.50	LOQ	mg/kg	J (all detects)
203-SB15-28	Hexavalent Chromium [Cr (VI)]	J	0.47	0.52	LOQ	mg/kg	J (all detects)
203-SB30-10	Hexavalent Chromium [Cr (VI)]	J	0.40	0.45	LOQ	mg/kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 7199
Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB32-09	Hexavalent Chromium [Cr (VI)]	J	0.40	0.46	LOQ	mg/kg	J (all detects)

Method: 7471B
Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB20-01	MERCURY	J	0.0119	0.108	LOQ	mg/kg	J (all detects)
203-SB32-01	MERCURY	J	0.0147	0.124	LOQ	mg/kg	J (all detects)

Method: 8260C
Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB14-24DUP	O-XYLENE	J	0.15	0.19	LOQ	mg/kg	J (all detects)
203-SB15-28	BENZENE CIS-1,2-DICHLOROETHENE ETHYLBENZENE ISOPROPYLBENZENE m/p-Xylene [3/4-Xylene] Methylcyclohexane Xylene (Total)	J J J J J J J	0.069 0.098 0.22 0.090 0.24 0.13 0.24	0.25 0.25 0.25 0.25 0.25 0.25 0.25	LOQ LOQ LOQ LOQ LOQ LOQ LOQ	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	J (all detects)
203-SB18-01	Methylcyclohexane	J	0.056	0.24	LOQ	mg/kg	J (all detects)
203-SB18-18	BENZENE O-XYLENE	J J	0.064 0.14	0.19 0.19	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB21-01	2-Butanone [MEK]	J	0.007	0.009	LOQ	mg/kg	J (all detects)
203-SB21-24	BENZENE O-XYLENE	J J	0.060 0.057	0.18 0.18	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB30-01	2-Butanone [MEK]	J	0.003	0.008	LOQ	mg/kg	J (all detects)
203-SB30-10	ISOPROPYLBENZENE m/p-Xylene [3/4-Xylene] Methylcyclohexane Xylene (Total)	J J J J	0.042 0.060 0.13 0.060	0.18 0.18 0.18 0.18	LOQ LOQ LOQ LOQ	mg/kg mg/kg mg/kg mg/kg	J (all detects)
203-SB32-01	2-Butanone [MEK]	J	0.004	0.009	LOQ	mg/kg	J (all detects)
203-SB32-09	ACETONE CARBON DISULFIDE	J J	0.014 0.003	0.016 0.004	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB34-01	2-Butanone [MEK]	J	0.004	0.009	LOQ	mg/kg	J (all detects)
203-SB34-10	ACETONE	J	0.006	0.015	LOQ	mg/kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**

Matrix: **SOIL**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB09-01	1,1-BIPHENYL	J	0.022	0.036	LOQ	mg/kg	J (all detects)
	ACENAPHTHENE	J	0.009	0.019	LOQ	mg/kg	
	ACENAPHTHYLENE	J	0.005	0.019	LOQ	mg/kg	
	ANTHRACENE	J	0.009	0.019	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.016	0.019	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.015	0.019	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.014	0.019	LOQ	mg/kg	
	BIS(2-ETHYLHEXYL) PHTHALATE	J	0.17	0.19	LOQ	mg/kg	
	CHRYSENE	J	0.018	0.019	LOQ	mg/kg	
	FLUORENE	J	0.018	0.019	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.014	0.019	LOQ	mg/kg	
203-SB14-01	ACENAPHTHENE	J	0.006	0.020	LOQ	mg/kg	J (all detects)
	ANTHRACENE	J	0.009	0.020	LOQ	mg/kg	
	FLUORENE	J	0.008	0.020	LOQ	mg/kg	
	NAPHTHALENE	J	0.018	0.020	LOQ	mg/kg	
203-SB14-24	Benzo (g,h,i) perylene	J	0.019	0.021	LOQ	mg/kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.019	0.021	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.006	0.021	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.018	0.021	LOQ	mg/kg	
203-SB14-24DUP	BENZ(A)ANTHRACENE	J	0.10	0.19	LOQ	mg/kg	J (all detects)
	BENZO(A)PYRENE	J	0.065	0.19	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.093	0.19	LOQ	mg/kg	
	CHRYSENE	J	0.096	0.19	LOQ	mg/kg	
203-SB15-01	1-METHYLNAPHTHALENE	J	0.004	0.019	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.006	0.019	LOQ	mg/kg	
	ANTHRACENE	J	0.008	0.019	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.018	0.019	LOQ	mg/kg	
203-SB15-28	CHRYSENE	J	0.060	0.22	LOQ	mg/kg	J (all detects)
203-SB18-01	1-METHYLNAPHTHALENE	J	0.008	0.020	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.011	0.020	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.005	0.020	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.005	0.020	LOQ	mg/kg	
	CHRYSENE	J	0.004	0.020	LOQ	mg/kg	
	FLUORANTHENE	J	0.005	0.020	LOQ	mg/kg	
	PHENANTHRENE	J	0.005	0.020	LOQ	mg/kg	
	PYRENE	J	0.008	0.020	LOQ	mg/kg	
203-SB18-18	FLUORANTHENE	J	0.14	0.18	LOQ	mg/kg	J (all detects)
203-SB18-23	FLUORANTHENE	J	0.092	0.19	LOQ	mg/kg	J (all detects)
203-SB20-01	1-METHYLNAPHTHALENE	J	0.015	0.019	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.018	0.019	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.013	0.019	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.009	0.019	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.015	0.019	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.018	0.019	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.012	0.019	LOQ	mg/kg	
	CHRYSENE	J	0.014	0.019	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.007	0.019	LOQ	mg/kg	
	NAPHTHALENE	J	0.007	0.019	LOQ	mg/kg	
	PHENANTHRENE	J	0.013	0.019	LOQ	mg/kg	

Reporting Limit Outliers

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**

Matrix: **SOIL**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB20-24	BENZ(A)ANTHRACENE	J	0.004	0.019	LOQ	mg/kg	J (all detects)
	BIS(2-ETHYLHEXYL) PHTHALATE	J	0.081	0.19	LOQ	mg/kg	
	CHRYSENE	J	0.012	0.019	LOQ	mg/kg	
203-SB21-01	1-METHYLNAPHTHALENE	J	0.005	0.020	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.007	0.020	LOQ	mg/kg	
	ANTHRACENE	J	0.004	0.020	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.01	0.020	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.005	0.020	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.011	0.020	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.009	0.020	LOQ	mg/kg	
	CHRYSENE	J	0.012	0.020	LOQ	mg/kg	
	FLUORANTHENE	J	0.013	0.020	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.009	0.020	LOQ	mg/kg	
	PHENANTHRENE	J	0.009	0.020	LOQ	mg/kg	
	PYRENE	J	0.015	0.020	LOQ	mg/kg	
203-SB21-24	BENZ(A)ANTHRACENE	J	0.005	0.018	LOQ	mg/kg	J (all detects)
	CHRYSENE	J	0.008	0.018	LOQ	mg/kg	
203-SB30-01	1-METHYLNAPHTHALENE	J	0.014	0.019	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.016	0.019	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.004	0.019	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.004	0.019	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.007	0.019	LOQ	mg/kg	
	CHRYSENE	J	0.005	0.019	LOQ	mg/kg	
	FLUORANTHENE	J	0.007	0.019	LOQ	mg/kg	
	PHENANTHRENE	J	0.014	0.019	LOQ	mg/kg	
	PYRENE	J	0.007	0.019	LOQ	mg/kg	
203-SB30-10	CHRYSENE	J	0.006	0.019	LOQ	mg/kg	J (all detects)
203-SB32-01	1-METHYLNAPHTHALENE	J	0.012	0.022	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.018	0.022	LOQ	mg/kg	
	ANTHRACENE	J	0.007	0.022	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.016	0.022	LOQ	mg/kg	
	BENZALDEHYDE	J	0.087	0.22	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.012	0.022	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.017	0.022	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.009	0.022	LOQ	mg/kg	
	BIS(2-ETHYLHEXYL) PHTHALATE	J	0.15	0.22	LOQ	mg/kg	
	CHRYSENE	J	0.018	0.022	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.011	0.022	LOQ	mg/kg	
	NAPHTHALENE	J	0.009	0.022	LOQ	mg/kg	
	PHENANTHRENE	J	0.019	0.022	LOQ	mg/kg	
203-SB32-09	4-CHLORO-3-METHYLPHENOL	J	0.020	0.037	LOQ	mg/kg	J (all detects)
	PYRENE	J	0.011	0.019	LOQ	mg/kg	
203-SB34-01	ACENAPHTHENE	J	0.014	0.019	LOQ	mg/kg	J (all detects)
	BIS(2-ETHYLHEXYL) PHTHALATE	J	0.10	0.19	LOQ	mg/kg	
	CAPROLACTAM	J	0.045	0.19	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.012	0.019	LOQ	mg/kg	
	DIBENZOFURAN	J	0.019	0.037	LOQ	mg/kg	

Reporting Limit Outliers

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D SIM**

Matrix: **SOIL**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB09-01	DIBENZO(A,H)ANTHRACENE	J	0.0017	0.0018	LOQ	mg/kg	J (all detects)
203-SB14-01	ACENAPHTHENE	J	0.0059	0.0096	LOQ	mg/kg	J (all detects)
	ACENAPHTHYLENE	J	0.0028	0.0096	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.0091	0.0096	LOQ	mg/kg	
203-SB15-01	NAPHTHALENE	J	0.00083	0.0019	LOQ	mg/kg	J (all detects)
203-SB18-01	ACENAPHTHYLENE	J	0.00043	0.0020	LOQ	mg/kg	J (all detects)
	ANTHRACENE	J	0.00055	0.0020	LOQ	mg/kg	
	BENZO(G,H,I)PERYLENE	J	0.00088	0.0020	LOQ	mg/kg	
	FLUORENE	J	0.0013	0.0020	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.0011	0.0020	LOQ	mg/kg	
203-SB20-01	ACENAPHTHENE	J	0.00080	0.0019	LOQ	mg/kg	J (all detects)
	ACENAPHTHYLENE	J	0.00055	0.0019	LOQ	mg/kg	
	ANTHRACENE	J	0.0012	0.0019	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.00092	0.0019	LOQ	mg/kg	
203-SB21-01	ACENAPHTHYLENE	J	0.00098	0.0020	LOQ	mg/kg	J (all detects)
	ANTHRACENE	J	0.0014	0.0020	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.00099	0.0020	LOQ	mg/kg	
	FLUORENE	J	0.0019	0.0020	LOQ	mg/kg	
203-SB30-01	ACENAPHTHENE	J	0.00082	0.0019	LOQ	mg/kg	J (all detects)
	ACENAPHTHYLENE	J	0.00058	0.0019	LOQ	mg/kg	
	ANTHRACENE	J	0.00078	0.0019	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.00077	0.0019	LOQ	mg/kg	
	NAPHTHALENE	J	0.0018	0.0019	LOQ	mg/kg	
203-SB32-01	ACENAPHTHYLENE	J	0.00075	0.0022	LOQ	mg/kg	J (all detects)
	ANTHRACENE	J	0.0021	0.0022	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.0011	0.0022	LOQ	mg/kg	
	FLUORENE	J	0.0018	0.0022	LOQ	mg/kg	
203-SB34-10	2-METHYLNAPHTHALENE	J	0.00098	0.0019	LOQ	mg/kg	J (all detects)
	PHENANTHRENE	J	0.0013	0.0019	LOQ	mg/kg	

Field Duplicate RPD Report

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB14-24 (Dry)	203-SB14-24DUP (Dry)			
ALUMINUM	8280	10500	24	30.00	
ARSENIC	2.47	2.93	17	30.00	
BERYLLIUM	0.363	0.452	22	30.00	
CALCIUM	697	758	8	30.00	
COPPER	9.81	11.8	18	30.00	
IRON	11700	14900	24	30.00	No Qualifiers Applied
LEAD	5.20	4.62	12	30.00	
MANGANESE	170	219	25	30.00	
SODIUM	106	118	11	30.00	
VANADIUM	21.6	27.7	25	30.00	
ZINC	29.0	28.9	0	30.00	
BARIUM	46.7	77.0	49	30.00	
CADMIUM	0.0459	0.204 U	200	30.00	
CHROMIUM	13.8	20.7	40	30.00	
COBALT	4.04	5.52	31	30.00	J(all detects)
MAGNESIUM	2240	3500	44	30.00	UJ(all non-detects)
NICKEL	7.67	11.9	43	30.00	
POTASSIUM	1620	2740	51	30.00	
THALLIUM	0.133	0.214	47	30.00	

Method: 7199
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB14-24 (Dry)	203-SB14-24DUP (Dry)			
Hexavalent Chromium [Cr (VI)]	0.46	0.43 U	200	30.00	J(all detects) UJ(all non-detects)

Method: 8260C
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB14-24	203-SB14-24DUP			
CYCLOHEXANE	0.83	0.38	74	30.00	
ETHYLBENZENE	2.5	1.4	56	30.00	
ISOPROPYLBENZENE	1.3	0.83	44	30.00	
m/p-Xylene [3/4-Xylene]	4.8	2.4	67	30.00	J(all detects) UJ(all non-detects)
Methylcyclohexane	5.9	2.9	68	30.00	
O-XYLENE	0.38	0.15	87	30.00	
Xylene (Total)	5.2	2.5	70	30.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: APP08 **Laboratory: LLL**

EDD Filename: APP08-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB14-24	203-SB14-24DUP			
1,1-BIPHENYL	3.2	5.4	51	30.00	
1-METHYLNAPHTHALENE	19	29	42	30.00	
2-METHYLNAPHTHALENE	31	48	43	30.00	
ACENAPHTHENE	1.0	1.7	52	30.00	
ACENAPHTHYLENE	0.021 U	0.88	200	30.00	
ANTHRACENE	0.68	1.0	38	30.00	
BENZ(A)ANTHRACENE	0.067	0.10	40	30.00	
Benzo (g,h,i) perylene	0.019	0.19 U	200	30.00	
BENZO(A)PYRENE	0.044	0.065	39	30.00	
BENZO(B)FLUORANTHENE	0.059	0.093	45	30.00	
BENZO(K)FLUORANTHENE	0.019	0.19 U	200	30.00	J(all detects) UJ(all non-detects)
BIS(2-ETHYLHEXYL) PHTHALATE	0.22	1.9 U	200	30.00	
CARBAZOLE	0.12	0.37 U	200	30.00	
CHRYSENE	0.066	0.096	37	30.00	
DIBENZO(A,H)ANTHRACENE	0.006	0.19 U	200	30.00	
DIBENZOFURAN	1.2	2.1	55	30.00	
FLUORANTHENE	0.24	0.37	43	30.00	
FLUORENE	1.8	3.6	67	30.00	
INDENO(1,2,3-CD)PYRENE	0.018	0.19 U	200	30.00	
NAPHTHALENE	8.8	14	46	30.00	
PHENANTHRENE	4.8	7.0	37	30.00	
PYRENE	0.37	0.57	43	30.00	

Method: 9045D
Matrix: SOIL

Analyte	Concentration (Std. Units)		Sample RPD	eQAPP RPD	Flag
	203-SB14-24	203-SB14-24DUP			
PH	7.44	7.54	1	30.00	No Qualifiers Applied

Method: Calculation
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB14-24 (Dry)	203-SB14-24DUP (Dry)			
TRIVALENT CHROMIUM	13.4	20.7	43	20.00	J(all detects) UJ(all non-detects)

Method: D1498
Matrix: SOIL

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	203-SB14-24	203-SB14-24DUP			
Oxidation Reduction Potential (ORP)	489	479	2	30.00	No Qualifiers Applied

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Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP09	
Date(s) of Collection:	December 13th, 2016	
Number/Type Samples & Analyses:	3 soil samples and 1 field duplicate for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	February 1st, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) APP09. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

✓ Trip blank data

✓ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Sample 203-SB10-01 was run for 8270 SIM and regular 8270. The final results will be presented in SVOC SIM.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **SOIL**

Sample ID: **203-SB09-26** ***Collected:*** **12/13/2016 3:22:00 PM** ***Analysis Type:*** **Initial3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.127	J	0.0977	LOD	0.195	LOQ	mg/kg	J	Rl

Sample ID: **203-SB09-26** ***Collected:*** **12/13/2016 3:22:00 PM** ***Analysis Type:*** **Reanalysis-03222222** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.195	LOD	0.782	LOQ	mg/kg	J	Rl, Fd

Sample ID: **203-SB09-26DUP** ***Collected:*** **12/13/2016 3:22:00 PM** ***Analysis Type:*** **Initial555556** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.108	J	0.122	LOD	0.243	LOQ	mg/kg	J	Rl

Sample ID: **203-SB09-26DUP** ***Collected:*** **12/13/2016 3:22:00 PM** ***Analysis Type:*** **Reanalysis-03333333** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.243	U	0.243	LOD	0.972	LOQ	mg/kg	UJ	Fd

Sample ID: **203-SB10-01** ***Collected:*** **12/13/2016 3:50:00 PM** ***Analysis Type:*** **Initial4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.163	J	0.0425	LOD	0.170	LOQ	mg/kg	J	Rl

Sample ID: **203-SB10-01** ***Collected:*** **12/13/2016 3:50:00 PM** ***Analysis Type:*** **Reanalysis-0311111** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.183	J	0.170	LOD	0.679	LOQ	mg/kg	J	Rl

Sample ID: **203-SB10-27** ***Collected:*** **12/13/2016 4:33:00 PM** ***Analysis Type:*** **Initial11111** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.167	J	0.0458	LOD	0.183	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: SOIL**

Sample ID: 203-SB10-27 **Collected:** 12/13/2016 4:33:00 PM **Analysis Type:** Reanalysis-0344444 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.183	LOD	0.733	LOQ	mg/kg	J	Rl

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB09-26 **Collected:** 12/13/2016 3:22:00 PM **Analysis Type:** Dilution-01-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	15		0.18	LOD	0.23	LOQ	mg/kg	J	Fd
2-METHYLNAPHTHALENE	23		0.18	LOD	0.23	LOQ	mg/kg	J	Fd

Sample ID: 203-SB09-26 **Collected:** 12/13/2016 3:22:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-BIPHENYL	3.1		0.045	LOD	0.045	LOQ	mg/kg	J	Fd

Sample ID: 203-SB09-26 **Collected:** 12/13/2016 3:22:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.86		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
ANTHRACENE	0.59		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
BENZ(A)ANTHRACENE	0.061		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
Benzo (g,h,i) perylene	0.019	J	0.018	LOD	0.023	LOQ	mg/kg	J	Rl, Fd
BENZO(A)PYRENE	0.041		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
BENZO(B)FLUORANTHENE	0.060		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
BENZO(K)FLUORANTHENE	0.029		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
BIS(2-ETHYLHEXYL) PHTHALATE	0.18	U	0.18	LOD	0.23	LOQ	mg/kg	UJ	Fd
CHRYSENE	0.061		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
DIBENZOFURAN	1.1		0.045	LOD	0.045	LOQ	mg/kg	J	Fd
FLUORANTHENE	0.24		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
FLUORENE	1.5		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.018	J	0.018	LOD	0.023	LOQ	mg/kg	J	Rl, Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB09-26 **Collected:** 12/13/2016 3:22:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	5.1		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
PHENANTHRENE	4.0		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
PYRENE	0.29		0.018	LOD	0.023	LOQ	mg/kg	J	Fd

Sample ID: 203-SB09-26DUP **Collected:** 12/13/2016 3:22:00 PM **Analysis Type:** Dilution-01-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	7.2		0.088	LOD	0.11	LOQ	mg/kg	J	Fd
2-METHYLNAPHTHALENE	11		0.088	LOD	0.11	LOQ	mg/kg	J	Fd

Sample ID: 203-SB09-26DUP **Collected:** 12/13/2016 3:22:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-BIPHENYL	1.7		0.044	LOD	0.044	LOQ	mg/kg	J	Fd

Sample ID: 203-SB09-26DUP **Collected:** 12/13/2016 3:22:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.45		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
ANTHRACENE	0.31		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
BENZ(A)ANTHRACENE	0.026		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
Benzo (g,h,i) perylene	0.008	J	0.018	LOD	0.023	LOQ	mg/kg	J	Rl, Fd
BENZO(A)PYRENE	0.018	J	0.018	LOD	0.023	LOQ	mg/kg	J	Rl, Fd
BENZO(B)FLUORANTHENE	0.024		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
BENZO(K)FLUORANTHENE	0.011	J	0.018	LOD	0.023	LOQ	mg/kg	J	Rl, Fd
BIS(2-ETHYLHEXYL) PHTHALATE	2.0		0.18	LOD	0.23	LOQ	mg/kg	J	Fd
CHRYSENE	0.027		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
DIBENZOFURAN	0.044	U	0.044	LOD	0.044	LOQ	mg/kg	UJ	Fd
FLUORANTHENE	0.11		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
FLUORENE	0.87		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.008	J	0.018	LOD	0.023	LOQ	mg/kg	J	Rl, Fd
NAPHTHALENE	2.7		0.018	LOD	0.023	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB09-26DUP **Collected:** 12/13/2016 3:22:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	2.0		0.018	LOD	0.023	LOQ	mg/kg	J	Fd
PYRENE	0.14		0.018	LOD	0.023	LOQ	mg/kg	J	Fd

Sample ID: 203-SB10-01 **Collected:** 12/13/2016 3:50:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3/4-Methylphenol [m/p-Cresol]	0.035	J	0.037	LOD	0.037	LOQ	mg/kg	J	RI

Sample ID: 203-SB10-01 **Collected:** 12/13/2016 3:50:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
2-METHYLNAPHTHALENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	NP	RI, ProfJudg
PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB10-27 **Collected:** 12/13/2016 4:33:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Benzo (g,h,i) perylene	0.015	J	0.016	LOD	0.020	LOQ	mg/kg	J	Rl
INDENO(1,2,3-CD)PYRENE	0.018	J	0.016	LOD	0.020	LOQ	mg/kg	J	Rl

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB10-01 **Collected:** 12/13/2016 3:50:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.00043	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
CHRYSENE	0.00038	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
FLUORANTHENE	0.0011	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
FLUORENE	0.0017	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
NAPHTHALENE	0.0016	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
PYRENE	0.0011	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl

Method Category: VOA

Method: 8260C **Matrix: SOIL**

Sample ID: 203-SB09-26 **Collected:** 12/13/2016 3:22:00 PM **Analysis Type:** Initial **Dilution:** 0.79

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,2-DICHLOROETHENE	0.015		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
CYCLOHEXANE	0.011		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
ETHYLBENZENE	0.028		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
ISOPROPYLBENZENE	0.012		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
m/p-Xylene [3/4-Xylene]	0.057		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
Methylcyclohexane	0.020		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
O-XYLENE	0.006		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
Xylene (Total)	0.063		0.002	LOD	0.005	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **SOIL**

Sample ID: **203-SB09-26DUP** ***Collected:*** **12/13/2016 3:22:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.72**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
CIS-1,2-DICHLOROETHENE	0.010		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
CYCLOHEXANE	0.008		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
ETHYLBENZENE	0.015		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
ISOPROPYLBENZENE	0.005		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
m/p-Xylene [3/4-Xylene]	0.024		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
Methylcyclohexane	0.012		0.002	LOD	0.005	LOQ	mg/kg	J	Fd
O-XYLENE	0.001	J	0.002	LOD	0.005	LOQ	mg/kg	J	Rl, Fd
Xylene (Total)	0.026		0.002	LOD	0.005	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Method Blank Outlier Report

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **6020A**
Matrix: **SOIL**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35137BB351063702A	12/20/2016 12:56:00 AM	SODIUM	10.2 mg/kg	203-SB09-26 203-SB09-26DUP 203-SB10-01 203-SB10-27

Surrogate Outlier Report

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8260C**
Matrix: **SOIL**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
203-SB10-27 (Initial)	TOLUENE-D8	69	85.00-116.00	No Affected Compounds	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D SIM
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6LDLCSQ006SLD026 (203-SB10-01)	ACENAPHTHENE	112	-	44.00-111.00	-	ACENAPHTHENE	J+ (all detects)

Method: 8260C
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSA63QA163561AA LCSA63YA163561AA (203-SB09-26 203-SB09-26DUP 203-SB10-01)	VINYL ACETATE	214	201	50.00-151.00	-	VINYL ACETATE	J+(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB09-26	CADMIUM	J	0.127	0.195	LOQ	mg/kg	J (all detects)
	SELENIUM	J	0.155	0.782	LOQ	mg/kg	
203-SB09-26DUP	CADMIUM	J	0.108	0.243	LOQ	mg/kg	J (all detects)
203-SB10-01	SELENIUM	J	0.183	0.679	LOQ	mg/kg	J (all detects)
	THALLIUM	J	0.163	0.170	LOQ	mg/kg	
203-SB10-27	SELENIUM	J	0.148	0.733	LOQ	mg/kg	J (all detects)
	THALLIUM	J	0.167	0.183	LOQ	mg/kg	

Method: 8260C

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB09-26DUP	O-XYLENE	J	0.001	0.005	LOQ	mg/kg	J (all detects)

Method: 8270D

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB09-26	Benzo (g,h,i) perylene	J	0.019	0.023	LOQ	mg/kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.018	0.023	LOQ	mg/kg	
203-SB09-26DUP	Benzo (g,h,i) perylene	J	0.008	0.023	LOQ	mg/kg	J (all detects)
	BENZO(A)PYRENE	J	0.018	0.023	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.011	0.023	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.008	0.023	LOQ	mg/kg	
203-SB10-01	1-METHYLNAPHTHALENE	J	0.005	0.019	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.005	0.019	LOQ	mg/kg	
	3/4-Methylphenol [m/p-Cresol]	J	0.035	0.037	LOQ	mg/kg	
	PHENANTHRENE	J	0.006	0.019	LOQ	mg/kg	
203-SB10-27	Benzo (g,h,i) perylene	J	0.015	0.020	LOQ	mg/kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.018	0.020	LOQ	mg/kg	

Method: 8270D SIM

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB10-01	ACENAPHTHYLENE	J	0.00043	0.0018	LOQ	mg/kg	J (all detects)
	CHRYSENE	J	0.00038	0.0018	LOQ	mg/kg	
	FLUORANTHENE	J	0.0011	0.0018	LOQ	mg/kg	
	FLUORENE	J	0.0017	0.0018	LOQ	mg/kg	
	NAPHTHALENE	J	0.0016	0.0018	LOQ	mg/kg	
	PYRENE	J	0.0011	0.0018	LOQ	mg/kg	

Field Duplicate RPD Report

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB09-26 (Dry)	203-SB09-26DUP (Dry)			
ALUMINUM	24700	30200	20	30.00	
ARSENIC	5.38	5.14	5	30.00	
BARIUM	201	267	28	30.00	
BERYLLIUM	1.05	1.28	20	30.00	
CADMIUM	0.127	0.108	16	30.00	
CALCIUM	2930	3560	19	30.00	
CHROMIUM	52.5	63.1	18	30.00	
COBALT	16.4	20.1	20	30.00	
COPPER	30.3	40.1	28	30.00	
IRON	34300	40300	16	30.00	No Qualifiers Applied
LEAD	9.51	12.2	25	30.00	
MAGNESIUM	11800	15200	25	30.00	
MANGANESE	677	674	0	30.00	
NICKEL	32.4	40.1	21	30.00	
POTASSIUM	8960	12100	30	30.00	
SODIUM	519	648	22	30.00	
THALLIUM	0.487	0.602	21	30.00	
VANADIUM	71.0	88.9	22	30.00	
ZINC	74.9	95.6	24	30.00	
SELENIUM	0.155	0.972 U	200	30.00	J(all detects) UJ(all non-detects)

Method: 7199
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB09-26 (Dry)	203-SB09-26DUP (Dry)			
Hexavalent Chromium [Cr (VI)]	0.69	0.59	16	30.00	No Qualifiers Applied

Method: 8260C
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB09-26	203-SB09-26DUP			
BENZENE	0.041	0.032	25	30.00	No Qualifiers Applied
CIS-1,2-DICHLOROETHENE	0.015	0.010	40	30.00	
CYCLOHEXANE	0.011	0.008	32	30.00	
ETHYLBENZENE	0.028	0.015	60	30.00	
ISOPROPYLBENZENE	0.012	0.005	82	30.00	J(all detects)
m/p-Xylene [3/4-Xylene]	0.057	0.024	81	30.00	UJ(all non-detects)
Methylcyclohexane	0.020	0.012	50	30.00	
O-XYLENE	0.006	0.001	143	30.00	
Xylene (Total)	0.063	0.026	83	30.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: APP09 **Laboratory: LLL**

EDD Filename: APP09-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB09-26	203-SB09-26DUP			
1,1-BIPHENYL	3.1	1.7	58	30.00	J(all detects) UJ(all non-detects)
1-METHYLNAPHTHALENE	15	7.2	70	30.00	
2-METHYLNAPHTHALENE	23	11	71	30.00	
ACENAPHTHENE	0.86	0.45	63	30.00	
ANTHRACENE	0.59	0.31	62	30.00	
BENZ(A)ANTHRACENE	0.061	0.026	80	30.00	
Benzo (g,h,i) perylene	0.019	0.008	81	30.00	
BENZO(A)PYRENE	0.041	0.018	78	30.00	
BENZO(B)FLUORANTHENE	0.060	0.024	86	30.00	
BENZO(K)FLUORANTHENE	0.029	0.011	90	30.00	
BIS(2-ETHYLHEXYL) PHTHALATE	0.23 U	2.0	200	30.00	
CHRYSENE	0.061	0.027	77	30.00	
DIBENZOFURAN	1.1	0.044 U	200	30.00	
FLUORANTHENE	0.24	0.11	74	30.00	
FLUORENE	1.5	0.87	53	30.00	
INDENO(1,2,3-CD)PYRENE	0.018	0.008	77	30.00	
NAPHTHALENE	5.1	2.7	62	30.00	
PHENANTHRENE	4.0	2.0	67	30.00	
PYRENE	0.29	0.14	70	30.00	

Method: 9045D
Matrix: SOIL

Analyte	Concentration (Std. Units)		Sample RPD	eQAPP RPD	Flag
	203-SB09-26	203-SB09-26DUP			
PH	7.79	8.03	3	30.00	No Qualifiers Applied

Method: Calculation
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB09-26 (Dry)	203-SB09-26DUP (Dry)			
TRIVALENT CHROMIUM	51.8	62.5	19	20.00	No Qualifiers Applied

Method: D1498
Matrix: SOIL

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	203-SB09-26	203-SB09-26DUP			
Oxidation Reduction Potential (ORP)	492	432	13	30.00	No Qualifiers Applied

Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP10	
Date(s) of Collection:	December 13th, 2016	
Number/Type Samples & Analyses:	9 ground water samples and one field duplicate for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	January 28th, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) APP10. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

✓ Field rinsate blank data

NA Trip blank data

✓ Laboratory control sample (LCS) recoveries

✓ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

This data package was revised 11/9/2017 due to the Eurofins metals data breach. The majority of the data changes were made to Quality Control (QC) and/or calibration checks, not to actual sample results. Where we see sample result changes, these are primarily cases where the result exceeded the linear calibration range of the instrument and were changed to be slightly lower than the upper limit of the calibration range.

In this package, the interference check standard percent recovery for calcium was within QC specification in the original run as well as in the corrected package.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	A
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	A
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 218.6 **Matrix: WATER**

Sample ID: CH-MW010-01 **Collected:** 12/13/2016 12:15:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.044	J	0.050	LOD	0.050	LOQ	ug/l	J	RI

Sample ID: CH-MW012-01 **Collected:** 12/13/2016 3:30:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.016	J	0.050	LOD	0.050	LOQ	ug/l	J	RI

Method Category: METALS

Method: 6020A **Matrix: WATER**

Sample ID: CH-MW001-01 **Collected:** 12/13/2016 10:25:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26.7	J	50.0	LOD	200	LOQ	ug/l	J	RI
ARSENIC	1.2	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
LEAD	0.14	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
NICKEL	3.0	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.23	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
ZINC	9.3	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: CH-MW001-01-F **Collected:** 12/13/2016 10:25:00 AM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
NICKEL	2.5	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
ZINC	6.5	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: CH-MW003-01 **Collected:** 12/13/2016 8:20:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	137	J	50.0	LOD	200	LOQ	ug/l	J	RI
ARSENIC	0.72	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** WATER

Sample ID: CH-MW003-01 **Collected:** 12/13/2016 8:20:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	196	J	100	LOD	200	LOQ	ug/l	J	RI
LEAD	0.10	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
NICKEL	2.9	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.83	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: CH-MW003-01-F **Collected:** 12/13/2016 8:20:00 AM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.55	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
NICKEL	2.5	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.41	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: CH-MW004-01 **Collected:** 12/13/2016 9:30:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	0.49	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
NICKEL	1.3	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Sample ID: CH-MW004-01DUP **Collected:** 12/13/2016 9:30:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	0.49	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
NICKEL	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Sample ID: CH-MW004-01-F **Collected:** 12/13/2016 9:30:00 AM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	50.0	U	50.0	LOD	200	LOQ	ug/l	UJ	Fd
COBALT	0.91	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
NICKEL	1.8	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **WATER**

Sample ID: **CH-MW004-01-FDUP** ***Collected:*** **12/13/2016 9:30:00 AM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26.4	J	50.0	LOD	200	LOQ	ug/l	J	RI, Fd
NICKEL	1.4	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW005-01** ***Collected:*** **12/13/2016 12:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	0.38	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
VANADIUM	0.24	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW005-01-F** ***Collected:*** **12/13/2016 12:00:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	0.65	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
COBALT	0.65	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
COPPER	0.54	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.53	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW009-01** ***Collected:*** **12/13/2016 2:30:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	191	J	50.0	LOD	200	LOQ	ug/l	J	RI
BERYLLIUM	0.13	J	0.25	LOD	1.0	LOQ	ug/l	J	RI
COBALT	0.97	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
COPPER	1.1	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
NICKEL	1.3	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.25	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
ZINC	5.4	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW009-01-F** ***Collected:*** **12/13/2016 2:30:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	167	J	50.0	LOD	200	LOQ	ug/l	J	RI
BERYLLIUM	0.26	J	0.25	LOD	1.0	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **WATER**

Sample ID: **CH-MW009-01-F** ***Collected:*** **12/13/2016 2:30:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.81	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
NICKEL	1.0	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW010-01** ***Collected:*** **12/13/2016 12:15:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	32.0	J	50.0	LOD	200	LOQ	ug/l	J	RI
COBALT	0.21	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
VANADIUM	0.33	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW010-01-F** ***Collected:*** **12/13/2016 12:15:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	0.73	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
COPPER	0.82	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
NICKEL	1.6	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.26	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW012-01** ***Collected:*** **12/13/2016 3:30:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	101	J	100	LOD	200	LOQ	ug/l	J	RI
NICKEL	3.2	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.30	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW012-01-F** ***Collected:*** **12/13/2016 3:30:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	78.6	J	100	LOD	200	LOQ	ug/l	J	RI
NICKEL	2.7	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.55	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** WATER

Sample ID: CH-MW013-01 **Collected:** 12/12/2016 9:30:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	38.6	J	50.0	LOD	200	LOQ	ug/l	J	RI
IRON	48.0	J	100	LOD	200	LOQ	ug/l	J	RI
NICKEL	2.5	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.30	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
ZINC	4.1	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: CH-MW013-01-F **Collected:** 12/12/2016 9:30:00 AM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.68	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
NICKEL	1.5	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Sample ID: CH-MW014-01 **Collected:** 12/12/2016 1:25:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	32.5	J	50.0	LOD	200	LOQ	ug/l	J	RI
IRON	104	J	100	LOD	200	LOQ	ug/l	J	RI
VANADIUM	0.60	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
ZINC	5.6	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: CH-MW014-01-F **Collected:** 12/12/2016 1:25:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.0	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
IRON	44.8	J	100	LOD	200	LOQ	ug/l	J	RI
VANADIUM	0.45	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
ZINC	3.7	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: EB-20161213-01 **Collected:** 12/13/2016 1:20:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	1.3	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
IRON	57.2	J	100	LOD	200	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: WATER**

Sample ID: EB-20161213-01 **Collected:** 12/13/2016 1:20:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	3.7	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Method Category: METALS

Method: Calculation **Matrix: WATER**

Sample ID: EB-20161213-01 **Collected:** 12/13/2016 1:20:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	1.3	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Method Category: SVOA

Method: 8270D **Matrix: WATER**

Sample ID: EB-20161213-01 **Collected:** 12/13/2016 1:20:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
2-METHYLNAPHTHALENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
ACENAPHTHENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
ACENAPHTHYLENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
ANTHRACENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
BENZ(A)ANTHRACENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
Benzo (g,h,i) perylene	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
BENZO(A)PYRENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
CHRYSENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
FLUORANTHENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
FLUORENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
NAPHTHALENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: WATER**

Sample ID: EB-20161213-01 **Collected:** 12/13/2016 1:20:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg
PYRENE	0.42	U	0.42	LOD	0.52	LOQ	ug/l	NP	ProfJudg

Method Category: SVOA

Method: 8270D SIM **Matrix: WATER**

Sample ID: EB-20161213-01 **Collected:** 12/13/2016 1:20:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.014	J	0.042	LOD	0.052	LOQ	ug/l	J	RI
2-METHYLNAPHTHALENE	0.025	J	0.042	LOD	0.052	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Mb	Method Blank Contamination
ProfJudg	Professional Judgment
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Method Blank Outlier Report

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **6020A**
Matrix: **WATER**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35739AB357063901A	12/23/2016 3:27:00 PM	MANGANESE	3.9 ug/l	CH-MW001-01 CH-MW003-01 CH-MW004-01 CH-MW004-01DUP CH-MW005-01 CH-MW009-01 CH-MW010-01 CH-MW012-01 CH-MW013-01 CH-MW014-01

Reporting Limit Outliers

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 218.6

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW010-01	Hexavalent Chromium [Cr (VI)]	J	0.044	0.050	LOQ	ug/l	J (all detects)
CH-MW012-01	Hexavalent Chromium [Cr (VI)]	J	0.016	0.050	LOQ	ug/l	J (all detects)

Method: 6020A

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW001-01	ALUMINUM	J	26.7	200	LOQ	ug/l	J (all detects)
	ARSENIC	J	1.2	4.0	LOQ	ug/l	
	LEAD	J	0.14	2.0	LOQ	ug/l	
	NICKEL	J	3.0	4.0	LOQ	ug/l	
	VANADIUM	J	0.23	1.0	LOQ	ug/l	
	ZINC	J	9.3	30.0	LOQ	ug/l	
CH-MW001-01-F	ARSENIC	J	1.1	4.0	LOQ	ug/l	J (all detects)
	NICKEL	J	2.5	4.0	LOQ	ug/l	
	ZINC	J	6.5	30.0	LOQ	ug/l	
CH-MW003-01	ALUMINUM	J	137	200	LOQ	ug/l	J (all detects)
	ARSENIC	J	0.72	4.0	LOQ	ug/l	
	IRON	J	196	200	LOQ	ug/l	
	LEAD	J	0.10	2.0	LOQ	ug/l	
	NICKEL	J	2.9	4.0	LOQ	ug/l	
	VANADIUM	J	0.83	1.0	LOQ	ug/l	
CH-MW003-01-F	COPPER	J	0.55	4.0	LOQ	ug/l	J (all detects)
	NICKEL	J	2.5	4.0	LOQ	ug/l	
	VANADIUM	J	0.41	1.0	LOQ	ug/l	
CH-MW004-01	COBALT	J	0.49	1.0	LOQ	ug/l	J (all detects)
	NICKEL	J	1.3	4.0	LOQ	ug/l	
CH-MW004-01DUP	COBALT	J	0.49	1.0	LOQ	ug/l	J (all detects)
	NICKEL	J	1.1	4.0	LOQ	ug/l	
CH-MW004-01-F	COBALT	J	0.91	1.0	LOQ	ug/l	J (all detects)
	NICKEL	J	1.8	4.0	LOQ	ug/l	
CH-MW004-01-FDUP	ALUMINUM	J	26.4	200	LOQ	ug/l	J (all detects)
	NICKEL	J	1.4	4.0	LOQ	ug/l	
CH-MW005-01	COBALT	J	0.38	1.0	LOQ	ug/l	J (all detects)
	VANADIUM	J	0.24	1.0	LOQ	ug/l	
CH-MW005-01-F	CHROMIUM	J	0.65	4.0	LOQ	ug/l	J (all detects)
	COBALT	J	0.65	1.0	LOQ	ug/l	
	COPPER	J	0.54	4.0	LOQ	ug/l	
	VANADIUM	J	0.53	1.0	LOQ	ug/l	
CH-MW009-01	ALUMINUM	J	191	200	LOQ	ug/l	J (all detects)
	BERYLLIUM	J	0.13	1.0	LOQ	ug/l	
	COBALT	J	0.97	1.0	LOQ	ug/l	
	COPPER	J	1.1	4.0	LOQ	ug/l	
	NICKEL	J	1.3	4.0	LOQ	ug/l	
	VANADIUM	J	0.25	1.0	LOQ	ug/l	
	ZINC	J	5.4	30.0	LOQ	ug/l	

Reporting Limit Outliers

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW009-01-F	ALUMINUM	J	167	200	LOQ	ug/l	J (all detects)
	BERYLLIUM	J	0.26	1.0	LOQ	ug/l	
	COPPER	J	0.81	4.0	LOQ	ug/l	
	NICKEL	J	1.0	4.0	LOQ	ug/l	
CH-MW010-01	ALUMINUM	J	32.0	200	LOQ	ug/l	J (all detects)
	COBALT	J	0.21	1.0	LOQ	ug/l	
	VANADIUM	J	0.33	1.0	LOQ	ug/l	
CH-MW010-01-F	COBALT	J	0.73	1.0	LOQ	ug/l	J (all detects)
	COPPER	J	0.82	4.0	LOQ	ug/l	
	NICKEL	J	1.6	4.0	LOQ	ug/l	
	VANADIUM	J	0.26	1.0	LOQ	ug/l	
CH-MW012-01	IRON	J	101	200	LOQ	ug/l	J (all detects)
	NICKEL	J	3.2	4.0	LOQ	ug/l	
	VANADIUM	J	0.30	1.0	LOQ	ug/l	
CH-MW012-01-F	IRON	J	78.6	200	LOQ	ug/l	J (all detects)
	NICKEL	J	2.7	4.0	LOQ	ug/l	
	VANADIUM	J	0.55	1.0	LOQ	ug/l	
CH-MW013-01	ALUMINUM	J	38.6	200	LOQ	ug/l	J (all detects)
	IRON	J	48.0	200	LOQ	ug/l	
	NICKEL	J	2.5	4.0	LOQ	ug/l	
	VANADIUM	J	0.30	1.0	LOQ	ug/l	
	ZINC	J	4.1	30.0	LOQ	ug/l	
CH-MW013-01-F	COPPER	J	0.68	4.0	LOQ	ug/l	J (all detects)
	NICKEL	J	1.5	4.0	LOQ	ug/l	
CH-MW014-01	ALUMINUM	J	32.5	200	LOQ	ug/l	J (all detects)
	IRON	J	104	200	LOQ	ug/l	
	VANADIUM	J	0.60	1.0	LOQ	ug/l	
	ZINC	J	5.6	30.0	LOQ	ug/l	
CH-MW014-01-F	COPPER	J	1.0	4.0	LOQ	ug/l	J (all detects)
	IRON	J	44.8	200	LOQ	ug/l	
	VANADIUM	J	0.45	1.0	LOQ	ug/l	
	ZINC	J	3.7	30.0	LOQ	ug/l	
EB-20161213-01	CHROMIUM	J	1.3	4.0	LOQ	ug/l	J (all detects)
	IRON	J	57.2	200	LOQ	ug/l	
	ZINC	J	3.7	30.0	LOQ	ug/l	

Method: 8270D SIM

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-20161213-01	1-METHYLNAPHTHALENE	J	0.014	0.052	LOQ	ug/l	J (all detects)
	2-METHYLNAPHTHALENE	J	0.025	0.052	LOQ	ug/l	

Reporting Limit Outliers

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **Calculation**

Matrix: **WATER**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
EB-20161213-01	TRIVALENT CHROMIUM	J	1.3	4.0	LOQ	ug/l	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: APP10 **Laboratory: LLL**

EDD Filename: APP10-B_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 218.6
Matrix: WATER

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW004-01 (Total)	CH-MW004-01DUP (Total)			
Hexavalent Chromium [Cr (VI)]	0.069	0.092	29	30.00	No Qualifiers Applied

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW004-01-F (Dissolved)	CH-MW004-01-FDUP (Dissolved)			
Hexavalent Chromium [Cr (VI)]	0.082	0.091	10	30.00	No Qualifiers Applied

Method: 6020A
Matrix: WATER

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW004-01 (Total)	CH-MW004-01DUP (Total)			
BARIUM	8.6	8.2	5	30.00	
CALCIUM	5550	5520	1	30.00	
COBALT	0.49	0.49	0	30.00	
IRON	425	367	15	30.00	
MAGNESIUM	1780	1720	3	30.00	No Qualifiers Applied
MANGANESE	167	140	18	30.00	
NICKEL	1.3	1.1	17	30.00	
POTASSIUM	956	925	3	30.00	
SODIUM	7770	7850	1	30.00	

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW004-01-F (Dissolved)	CH-MW004-01-FDUP (Dissolved)			
BARIUM	9.9	9.4	5	30.00	
CALCIUM	5880	5900	0	30.00	
COBALT	0.91	1.1	19	30.00	
IRON	357	374	5	30.00	
MAGNESIUM	1840	1900	3	30.00	No Qualifiers Applied
MANGANESE	160	178	11	30.00	
NICKEL	1.8	1.4	25	30.00	
POTASSIUM	1080	1020	6	30.00	
SODIUM	8290	7980	4	30.00	
ALUMINUM	200 U	26.4	200	30.00	J(all detects) UJ(all non-detects)

Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.		
Laboratory SDG:	APP11		
Date(s) of Collection:	December 14th, 2016		
Number/Type Samples & Analyses:	16 soil samples and 1 field duplicate for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals		
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA		
Completed:	November 21, 2017		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) APP11. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

✓ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✗ Laboratory duplicate results

✗ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Samples 203-SB13-01, 203-SB16-01, 203-SB16-01DUP, 203-SB34-40, 203-SB08-01, 203-SB07-01, 203-SB07-35, 203-SB06-01, 203-SB11-01,203-SB11-35, and 203-SB12-01 were run for 8270 SIM and regular 8270. The final results will be presented in SVOC SIM.

This data package was revised 11/9/2017 due to the Eurofins SW6020A metals data breach. The majority of the data changes were made to Quality Control (QC) and/or calibration checks, not to actual sample results. The few field sample result changes were due to the originally reported result exceeding the linear calibration range of the instrument; those results were changed to be slightly lower than the upper limit of the calibration range.

In this package, the result for manganese for field sample 203-SB16-01DUP changed from 299 mg/kg to 315 mg/kg. The upper end of the linear range was 302 mg/kg. Normal and Field Duplicate precision increased slightly. A "J+" qualifier was added to the manganese result.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	SR
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **SOIL**

Sample ID: **203-SB06-01** ***Collected:*** **12/15/2016 8:01:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.227	LOD	0.906	LOQ	mg/kg	J	RI

Sample ID: **203-SB06-01** ***Collected:*** **12/15/2016 8:01:00 AM** ***Analysis Type:*** **Reanalysis-01** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.118	J	0.113	LOD	0.227	LOQ	mg/kg	J	RI

Sample ID: **203-SB06-08** ***Collected:*** **12/15/2016 8:56:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.117	J	0.0535	LOD	0.214	LOQ	mg/kg	J	RI

Sample ID: **203-SB06-08** ***Collected:*** **12/15/2016 8:56:00 AM** ***Analysis Type:*** **Reanalysis-02** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	83.5	J	21.4	LOD	85.6	LOQ	mg/kg	J	RI

Sample ID: **203-SB07-01** ***Collected:*** **12/14/2016 3:03:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.256	J	0.220	LOD	0.880	LOQ	mg/kg	J	RI

Sample ID: **203-SB07-01** ***Collected:*** **12/14/2016 3:03:00 PM** ***Analysis Type:*** **Reanalysis-01** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0629	J	0.110	LOD	0.220	LOQ	mg/kg	J	RI

Sample ID: **203-SB07-35** ***Collected:*** **12/14/2016 4:04:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.247	LOD	0.987	LOQ	mg/kg	J	RI
SILVER	0.0523	J	0.0617	LOD	0.247	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **SOIL**

Sample ID: **203-SB07-35** ***Collected:*** **12/14/2016 4:04:00 PM** ***Analysis Type:*** **Reanalysis-01** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.133	J	0.123	LOD	0.247	LOQ	mg/kg	J	RI

Sample ID: **203-SB08-01** ***Collected:*** **12/14/2016 1:43:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.196	J	0.168	LOD	0.671	LOQ	mg/kg	J	RI

Sample ID: **203-SB08-01** ***Collected:*** **12/14/2016 1:43:00 PM** ***Analysis Type:*** **Reanalysis-01** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0490	J	0.0839	LOD	0.168	LOQ	mg/kg	J	RI

Sample ID: **203-SB08-12** ***Collected:*** **12/14/2016 2:43:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0808	J	0.163	LOD	0.651	LOQ	mg/kg	J	RI

Sample ID: **203-SB11-01** ***Collected:*** **12/15/2016 10:19:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.341	J	0.199	LOD	0.796	LOQ	mg/kg	J	RI

Sample ID: **203-SB11-01** ***Collected:*** **12/15/2016 10:19:00 AM** ***Analysis Type:*** **Reanalysis-01** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0468	J	0.0996	LOD	0.199	LOQ	mg/kg	J	RI

Sample ID: **203-SB11-35** ***Collected:*** **12/15/2016 11:33:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.238	LOD	0.953	LOQ	mg/kg	J	RI
SILVER	0.0560	J	0.0596	LOD	0.238	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB11-35 **Collected:** 12/15/2016 11:33:00 AM **Analysis Type:** Reanalysis-01 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.126	J	0.119	LOD	0.238	LOQ	mg/kg	J	RI

Sample ID: 203-SB12-01 **Collected:** 12/15/2016 11:41:00 AM **Analysis Type:** Initial **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.186	J	0.210	LOD	0.840	LOQ	mg/kg	J	RI
THALLIUM	0.202	J	0.0525	LOD	0.210	LOQ	mg/kg	J	RI

Sample ID: 203-SB12-01 **Collected:** 12/15/2016 11:41:00 AM **Analysis Type:** Reanalysis-01 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0737	J	0.105	LOD	0.210	LOQ	mg/kg	J	RI

Sample ID: 203-SB12-13 **Collected:** 12/15/2016 12:39:00 PM **Analysis Type:** Initial **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.117	J	0.0419	LOD	0.168	LOQ	mg/kg	J	RI

Sample ID: 203-SB12-13 **Collected:** 12/15/2016 12:39:00 PM **Analysis Type:** Reanalysis-02 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	65.2	J	16.8	LOD	67.0	LOQ	mg/kg	J	RI

Sample ID: 203-SB13-01 **Collected:** 12/14/2016 11:31:00 AM **Analysis Type:** Initial **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15400		9.15	LOD	36.6	LOQ	mg/kg	J+	Ms
ANTIMONY	0.183	U	0.183	LOD	0.366	LOQ	mg/kg	UJ	Ms
BARIUM	73.6		0.366	LOD	0.732	LOQ	mg/kg	J+	Ms
IRON	17700		18.3	LOD	36.6	LOQ	mg/kg	J	Ms, Ms
LEAD	13.4		0.0458	LOD	0.366	LOQ	mg/kg	J	Ms, Ms, Ms
MAGNESIUM	4060		9.15	LOD	36.6	LOQ	mg/kg	J+	Ms
SELENIUM	0.205	J	0.183	LOD	0.732	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: SOIL**

Sample ID: 203-SB13-01 **Collected:** 12/14/2016 11:31:00 AM **Analysis Type:** Initial **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	80.0		2.75	LOD	5.49	LOQ	mg/kg	J	Ms, Ld

Sample ID: 203-SB13-01 **Collected:** 12/14/2016 11:31:00 AM **Analysis Type:** Reanalysis-01 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0959	J	0.0915	LOD	0.183	LOQ	mg/kg	J	Rl
CALCIUM	869		36.6	LOD	73.2	LOQ	mg/kg	J+	Ms
COPPER	15.8		0.183	LOD	0.732	LOQ	mg/kg	J	Ld

Sample ID: 203-SB13-01 **Collected:** 12/14/2016 11:31:00 AM **Analysis Type:** Reanalysis-02 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	282		0.183	LOD	0.732	LOQ	mg/kg	J-	Ms

Sample ID: 203-SB13-28 **Collected:** 12/14/2016 12:38:00 PM **Analysis Type:** Initial **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.140	J	0.0434	LOD	0.173	LOQ	mg/kg	J	Rl

Sample ID: 203-SB16-01 **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.206	LOD	0.826	LOQ	mg/kg	J	Rl
THALLIUM	0.205	J	0.0516	LOD	0.206	LOQ	mg/kg	J	Rl

Sample ID: 203-SB16-01 **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Reanalysis-01 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0409	J	0.103	LOD	0.206	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB16-01DUP **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.170	J	0.168	LOD	0.672	LOQ	mg/kg	J	RI

Sample ID: 203-SB16-01DUP **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Reanalysis-01 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0401	J	0.0840	LOD	0.168	LOQ	mg/kg	J	RI

Sample ID: 203-SB16-01DUP **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Reanalysis-02 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	315	E	0.168	LOD	0.672	LOQ	mg/kg	J+	ProfJudg

Sample ID: 203-SB16-35 **Collected:** 12/14/2016 11:05:00 AM **Analysis Type:** Initial **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.245	LOD	0.979	LOQ	mg/kg	J	RI
SILVER	0.0325	J	0.0612	LOD	0.245	LOQ	mg/kg	J	RI

Sample ID: 203-SB16-35 **Collected:** 12/14/2016 11:05:00 AM **Analysis Type:** Reanalysis-01 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0678	J	0.122	LOD	0.245	LOQ	mg/kg	J	RI

Sample ID: 203-SB34-40 **Collected:** 12/14/2016 9:39:00 AM **Analysis Type:** Initial **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.130	J	0.207	LOD	0.830	LOQ	mg/kg	J	RI
SILVER	0.0481	J	0.0519	LOD	0.207	LOQ	mg/kg	J	RI

Sample ID: 203-SB34-40 **Collected:** 12/14/2016 9:39:00 AM **Analysis Type:** Reanalysis-01 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0512	J	0.104	LOD	0.207	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 7199 **Matrix: SOIL**

Sample ID: 203-SB11-01 **Collected:** 12/15/2016 10:19:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	1.4		0.50	LOD	0.50	LOQ	mg/kg	J	Ld

Sample ID: 203-SB16-01 **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.63		0.44	LOD	0.44	LOQ	mg/kg	J	Fd

Sample ID: 203-SB16-01DUP **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.86		0.45	LOD	0.45	LOQ	mg/kg	J	Fd

Method Category: METALS

Method: 7471B **Matrix: SOIL**

Sample ID: 203-SB07-01 **Collected:** 12/14/2016 3:03:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0112	J	0.0179	LOD	0.108	LOQ	mg/kg	J	Rl

Sample ID: 203-SB11-01 **Collected:** 12/15/2016 10:19:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0177	J	0.0196	LOD	0.118	LOQ	mg/kg	J	Rl

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB06-01 **Collected:** 12/15/2016 8:01:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.014	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB06-01 **Collected:** 12/15/2016 8:01:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.014	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.004	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZ(A)ANTHRACENE	0.016	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
Benzo (g,h,i) perylene	0.010	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.017	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.024		0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.014	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BIS(2-ETHYLHEXYL) PHTHALATE	0.10	J	0.16	LOD	0.20	LOQ	mg/kg	J	RI
CHRYSENE	0.018	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.024		0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.009	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
NAPHTHALENE	0.006	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
PHENANTHRENE	0.020	J	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.025		0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB06-08 **Collected:** 12/15/2016 8:56:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.053	J	0.15	LOD	0.19	LOQ	mg/kg	J	RI

Sample ID: 203-SB07-01 **Collected:** 12/14/2016 3:03:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.006	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
2-METHYLNAPHTHALENE	0.013	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB07-01 **Collected:** 12/14/2016 3:03:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.009	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
Benzo (g,h,i) perylene	0.006	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.010	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.015	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(K)FLUORANTHENE	0.007	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
CHRYSENE	0.013	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.004	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
FLUORANTHENE	0.026		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.004	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.005	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
NAPHTHALENE	0.006	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
PHENANTHRENE	0.028		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.021		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB07-35 **Collected:** 12/14/2016 4:04:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.006	J	0.018	LOD	0.023	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB07-35 **Collected:** 12/14/2016 4:04:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB08-01 **Collected:** 12/14/2016 1:43:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.009	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
2-METHYLNAPHTHALENE	0.010	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(K)FLUORANTHENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
FLUORENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
PYRENE	0.005	J	0.016	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg

Sample ID: 203-SB08-12 **Collected:** 12/14/2016 2:43:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.014	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
BENZO(A)PYRENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
BENZO(B)FLUORANTHENE	0.009	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB08-12 **Collected:** 12/14/2016 2:43:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI
CHRYSENE	0.018	J	0.015	LOD	0.019	LOQ	mg/kg	J	RI

Sample ID: 203-SB11-01 **Collected:** 12/15/2016 10:19:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.004	J	0.016	LOD	0.021	LOQ	mg/kg	NP	RI, ProfJudg
Benzo (g,h,i) perylene	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.004	J	0.016	LOD	0.021	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(B)FLUORANTHENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.006	J	0.016	LOD	0.021	LOQ	mg/kg	NP	RI, ProfJudg
CHRYSENE	0.005	J	0.016	LOD	0.021	LOQ	mg/kg	NP	RI, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.008	J	0.016	LOD	0.021	LOQ	mg/kg	NP	RI, ProfJudg
FLUORENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.016	U	0.016	LOD	0.021	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.006	J	0.016	LOD	0.021	LOQ	mg/kg	NP	RI, ProfJudg
PYRENE	0.007	J	0.016	LOD	0.021	LOQ	mg/kg	NP	RI, ProfJudg

Sample ID: 203-SB11-35 **Collected:** 12/15/2016 11:33:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.010	J	0.018	LOD	0.023	LOQ	mg/kg	NP	RI, ProfJudg
2-METHYLNAPHTHALENE	0.022	J	0.018	LOD	0.023	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **SVOA**

Method: **8270D** ***Matrix:*** **SOIL**

Sample ID: **203-SB11-35** ***Collected:*** **12/15/2016 11:33:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ANTHRACENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.007	J	0.018	LOD	0.023	LOQ	mg/kg	NP	RI, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.018	U	0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.023		0.018	LOD	0.023	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.005	J	0.018	LOD	0.023	LOQ	mg/kg	NP	RI, ProfJudg

Sample ID: **203-SB12-01** ***Collected:*** **12/15/2016 11:41:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1-METHYLNAPHTHALENE	0.057		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.087		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.004	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.007	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZ(A)ANTHRACENE	0.030		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.018	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
BENZO(A)PYRENE	0.028		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.045		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.019	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
CHRYSENE	0.040		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.008	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
FLUORANTHENE	0.049		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.007	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB12-01 **Collected:** 12/15/2016 11:41:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	0.019	J	0.015	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
NITROBENZENE	0.038	U	0.038	LOD	0.038	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.028		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.046		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

Sample ID: 203-SB12-13 **Collected:** 12/15/2016 12:39:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Benzo (g,h,i) perylene	0.013	J	0.014	LOD	0.018	LOQ	mg/kg	J	Rl
BENZO(K)FLUORANTHENE	0.017	J	0.014	LOD	0.018	LOQ	mg/kg	J	Rl
DIBENZO(A,H)ANTHRACENE	0.004	J	0.014	LOD	0.018	LOQ	mg/kg	J	Rl
INDENO(1,2,3-CD)PYRENE	0.012	J	0.014	LOD	0.018	LOQ	mg/kg	J	Rl

Sample ID: 203-SB13-01 **Collected:** 12/14/2016 11:31:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.025		0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.032		0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.008	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Ms, Ms, ProfJudg
ACENAPHTHYLENE	0.016	U	0.016	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.033		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
BENZ(A)ANTHRACENE	0.082		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
Benzo (g,h,i) perylene	0.032		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
BENZO(A)PYRENE	0.065		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
BENZO(B)FLUORANTHENE	0.099		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
BENZO(K)FLUORANTHENE	0.034		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
BIS(2-ETHYLHEXYL) PHTHALATE	0.14	J	0.16	LOD	0.20	LOQ	mg/kg	J	Rl
CHRYSENE	0.079		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.011	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Ms, Ms, ProfJudg
FLUORANTHENE	0.19		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
FLUORENE	0.010	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, Ms, Ms, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB13-01 **Collected:** 12/14/2016 11:31:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	0.031		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
NAPHTHALENE	0.011	J	0.016	LOD	0.020	LOQ	mg/kg	NP	Rl, ProfJudg
PHENANTHRENE	0.12		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg
PYRENE	0.16		0.016	LOD	0.020	LOQ	mg/kg	NP	Ms, Ms, ProfJudg

Sample ID: 203-SB13-28 **Collected:** 12/14/2016 12:38:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.011	J	0.015	LOD	0.019	LOQ	mg/kg	J	Rl

Sample ID: 203-SB16-01 **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
2-METHYLNAPHTHALENE	0.009	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
Benzo (g,h,i) perylene	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
BENZO(A)PYRENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
BENZO(B)FLUORANTHENE	0.006	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.009	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.008	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
PYRENE	0.011	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** SOIL

Sample ID: 203-SB16-01DUP **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	Fd, ProfJudg
2-METHYLNAPHTHALENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
ACENAPHTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
ATRAZINE	0.15	U	0.15	LOD	0.18	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	UJ	Fd
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	Fd, ProfJudg
BENZO(A)PYRENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, ProfJudg
BENZO(B)FLUORANTHENE	0.004	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	Fd, ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.005	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg
FLUORENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.015	U	0.015	LOD	0.019	LOQ	mg/kg	NP	Fd, ProfJudg
PYRENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	NP	Rl, Fd, ProfJudg

Sample ID: 203-SB16-19 **Collected:** 12/14/2016 11:00:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.007	J	0.015	LOD	0.020	LOQ	mg/kg	J	Rl
CHRYSENE	0.012	J	0.015	LOD	0.020	LOQ	mg/kg	J	Rl

Sample ID: 203-SB16-35 **Collected:** 12/14/2016 11:05:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL) PHTHALATE	0.12	J	0.17	LOD	0.22	LOQ	mg/kg	J	Rl
FLUORANTHENE	0.012	J	0.017	LOD	0.022	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB34-40 **Collected:** 12/14/2016 9:39:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-BIPHENYL	0.045	J	0.046	LOD	0.046	LOQ	mg/kg	J	RI

Sample ID: 203-SB34-40 **Collected:** 12/14/2016 9:39:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.13		0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.21		0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHENE	0.017	J	0.019	LOD	0.024	LOQ	mg/kg	NP	RI, ProfJudg
ACENAPHTHYLENE	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.012	J	0.019	LOD	0.024	LOQ	mg/kg	NP	RI, ProfJudg
BENZ(A)ANTHRACENE	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.041		0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.019	U	0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
NAPHTHALENE	0.013	J	0.019	LOD	0.024	LOQ	mg/kg	NP	RI, ProfJudg
PHENANTHRENE	0.098		0.019	LOD	0.024	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.008	J	0.019	LOD	0.024	LOQ	mg/kg	NP	RI, ProfJudg

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB06-01 **Collected:** 12/15/2016 8:01:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.0015	J	0.0016	LOD	0.0019	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix:** SOIL

Sample ID: 203-SB07-01 **Collected:** 12/14/2016 3:03:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.0012	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
DIBENZO(A,H)ANTHRACENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
FLUORENE	0.0016	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI

Sample ID: 203-SB07-35 **Collected:** 12/14/2016 4:04:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.0014	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI
CHRYSENE	0.0017	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI
NAPHTHALENE	0.0015	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI
PHENANTHRENE	0.0017	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI
PYRENE	0.00056	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI

Sample ID: 203-SB08-01 **Collected:** 12/14/2016 1:43:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.00056	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
BENZO(G,H,I)PERYLENE	0.0011	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
BENZO(K)FLUORANTHENE	0.0016	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
INDENO(1,2,3-CD)PYRENE	0.0010	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI

Sample ID: 203-SB11-01 **Collected:** 12/15/2016 10:19:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0010	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
2-METHYLNAPHTHALENE	0.0016	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
ANTHRACENE	0.00048	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
BENZO(G,H,I)PERYLENE	0.0011	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
INDENO(1,2,3-CD)PYRENE	0.0012	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI
NAPHTHALENE	0.0010	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix:** SOIL

Sample ID: 203-SB11-35 **Collected:** 12/15/2016 11:33:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.0017	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI
ACENAPHTHYLENE	0.00055	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI
ANTHRACENE	0.0016	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI
BENZ(A)ANTHRACENE	0.0011	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI
NAPHTHALENE	0.0015	J	0.0018	LOD	0.0023	LOQ	mg/kg	J	RI

Sample ID: 203-SB12-01 **Collected:** 12/15/2016 11:41:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI

Sample ID: 203-SB13-01 **Collected:** 12/14/2016 11:31:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.0011	J	0.0016	LOD	0.0020	LOQ	mg/kg	J	RI

Sample ID: 203-SB16-01 **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0015	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
ACENAPHTHYLENE	0.00039	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI, Fd
BENZ(A)ANTHRACENE	0.0015	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
BENZO(G,H,I)PERYLENE	0.0020		0.0015	LOD	0.0019	LOQ	mg/kg	J	Fd
BENZO(K)FLUORANTHENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
INDENO(1,2,3-CD)PYRENE	0.0010	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
NAPHTHALENE	0.00089	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
PHENANTHRENE	0.0016	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI

Sample ID: 203-SB16-01DUP **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0016	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	RI
ACENAPHTHYLENE	0.0015	U	0.0015	LOD	0.0018	LOQ	mg/kg	UJ	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB16-01DUP **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.0012	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
BENZO(A)PYRENE	0.0017	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
BENZO(G,H,I)PERYLENE	0.0014	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl, Fd
BENZO(K)FLUORANTHENE	0.00088	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
CHRYSENE	0.0016	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
INDENO(1,2,3-CD)PYRENE	0.00078	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
NAPHTHALENE	0.00099	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl
PHENANTHRENE	0.0014	J	0.0015	LOD	0.0018	LOQ	mg/kg	J	Rl

Sample ID: 203-SB34-40 **Collected:** 12/14/2016 9:39:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.0010	J	0.0019	LOD	0.0023	LOQ	mg/kg	J	Rl
BENZO(B)FLUORANTHENE	0.0022	J	0.0019	LOD	0.0023	LOQ	mg/kg	J	Rl

Method Category: VOA

Method: 8260C **Matrix: SOIL**

Sample ID: 203-SB06-01 **Collected:** 12/15/2016 8:01:00 AM **Analysis Type:** Initial **Dilution:** 0.71

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.004	J	0.007	LOD	0.008	LOQ	mg/kg	J	Rl
4-Methyl-2-pentanone [MIBK]	0.007	U	0.007	LOD	0.008	LOQ	mg/kg	UJ	Lcs

Sample ID: 203-SB06-08 **Collected:** 12/15/2016 8:56:00 AM **Analysis Type:** Initial **Dilution:** 368.73

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLBENZENE	1.8	J	0.81	LOD	2.0	LOQ	mg/kg	J	Rl
ISOPROPYLBENZENE	1.7	J	0.81	LOD	2.0	LOQ	mg/kg	J	Rl
m/p-Xylene [3/4-Xylene]	0.85	J	0.81	LOD	2.0	LOQ	mg/kg	J	Rl
Xylene (Total)	0.85	J	0.81	LOD	2.0	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: VOA

Method: 8260C **Matrix:** SOIL

Sample ID: 203-SB07-01 **Collected:** 12/14/2016 3:03:00 PM **Analysis Type:** Initial **Dilution:** 0.7

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.007	U	0.007	LOD	0.008	LOQ	mg/kg	UJ	Lcs

Sample ID: 203-SB07-35 **Collected:** 12/14/2016 4:04:00 PM **Analysis Type:** Initial **Dilution:** 0.78

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.009	U	0.009	LOD	0.011	LOQ	mg/kg	UJ	Lcs

Sample ID: 203-SB08-01 **Collected:** 12/14/2016 1:43:00 PM **Analysis Type:** Initial **Dilution:** 0.72

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.007	U	0.007	LOD	0.009	LOQ	mg/kg	UJ	Lcs
METHYL ACETATE	0.003	J	0.003	LOD	0.004	LOQ	mg/kg	J	RI

Sample ID: 203-SB08-12 **Collected:** 12/14/2016 2:43:00 PM **Analysis Type:** Initial **Dilution:** 35.26

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLBENZENE	0.11	J	0.079	LOD	0.20	LOQ	mg/kg	J	RI
ISOPROPYLBENZENE	0.054	J	0.079	LOD	0.20	LOQ	mg/kg	J	RI
m/p-Xylene [3/4-Xylene]	0.14	J	0.079	LOD	0.20	LOQ	mg/kg	J	RI
Methylcyclohexane	0.15	J	0.079	LOD	0.20	LOQ	mg/kg	J	RI
O-XYLENE	0.11	J	0.079	LOD	0.20	LOQ	mg/kg	J	RI

Sample ID: 203-SB11-01 **Collected:** 12/15/2016 10:19:00 AM **Analysis Type:** Initial **Dilution:** 0.79

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.008	U	0.008	LOD	0.01	LOQ	mg/kg	UJ	Lcs

Sample ID: 203-SB11-35 **Collected:** 12/15/2016 11:33:00 AM **Analysis Type:** Initial **Dilution:** 0.73

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.008	U	0.008	LOD	0.010	LOQ	mg/kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **SOIL**

Sample ID: **203-SB12-01** ***Collected:*** **12/15/2016 11:41:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.76**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.004	J	0.007	LOD	0.009	LOQ	mg/kg	J	Rl
4-Methyl-2-pentanone [MIBK]	0.007	U	0.007	LOD	0.009	LOQ	mg/kg	UJ	Lcs
m/p-Xylene [3/4-Xylene]	0.001	J	0.002	LOD	0.004	LOQ	mg/kg	J	Rl
Xylene (Total)	0.001	J	0.002	LOD	0.004	LOQ	mg/kg	J	Rl

Sample ID: **203-SB12-13** ***Collected:*** **12/15/2016 12:39:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **40.65**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYCLOHEXANE	0.057	J	0.088	LOD	0.22	LOQ	mg/kg	J	Rl

Sample ID: **203-SB13-01** ***Collected:*** **12/14/2016 11:31:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.74**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.005	J	0.007	LOD	0.009	LOQ	mg/kg	J	Rl
4-Methyl-2-pentanone [MIBK]	0.007	U	0.007	LOD	0.009	LOQ	mg/kg	UJ	Lcs
METHYL ACETATE	0.002	J	0.003	LOD	0.004	LOQ	mg/kg	J	Rl

Sample ID: **203-SB13-28** ***Collected:*** **12/14/2016 12:38:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **136.43**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.23	J	0.30	LOD	0.76	LOQ	mg/kg	J	Rl
CYCLOHEXANE	0.53	J	0.30	LOD	0.76	LOQ	mg/kg	J	Rl
ISOPROPYLBENZENE	0.45	J	0.30	LOD	0.76	LOQ	mg/kg	J	Rl
TOLUENE	0.32	J	0.30	LOD	0.76	LOQ	mg/kg	J	Rl

Sample ID: **203-SB16-01** ***Collected:*** **12/14/2016 9:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.65**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.006	U	0.006	LOD	0.007	LOQ	mg/kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: VOA

Method: 8260C **Matrix:** SOIL

Sample ID: 203-SB16-01DUP **Collected:** 12/14/2016 9:55:00 AM **Analysis Type:** Initial **Dilution:** 0.7

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.006	U	0.006	LOD	0.008	LOQ	mg/kg	UJ	Lcs

Sample ID: 203-SB16-19 **Collected:** 12/14/2016 11:00:00 AM **Analysis Type:** Initial **Dilution:** 366.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,1,1-TRICHLOROETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,1,2,2-TETRACHLOROETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,1,2-TRICHLOROETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,1,2-Trifluoro-1,2,2-trichloroethane [Freon-113]	1.7	U	1.7	LOD	4.3	LOQ	mg/kg	UJ	Surr
1,1-DICHLOROETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,1-DICHLOROETHENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,2,3-TRICHLOROBENZENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,2,3-TRICHLOROPROPANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,2-DIBROMO-3-CHLOROPROPANE	1.7	U	1.7	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,2-DIBROMOETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,2-DICHLOROETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,2-DICHLOROPROPANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
1,4-DIOXANE	86	U	86	LOD	110	LOQ	mg/kg	UJ	Surr
2-Butanone [MEK]	3.4	U	3.4	LOD	4.3	LOQ	mg/kg	UJ	Surr
2-HEXANONE	3.4	U	3.4	LOD	4.3	LOQ	mg/kg	UJ	Surr
4-Methyl-2-pentanone [MIBK]	3.4	U	3.4	LOD	4.3	LOQ	mg/kg	UJ	Surr
ACETONE	6.9	U	6.9	LOD	8.6	LOQ	mg/kg	UJ	Surr
BENZENE	0.29	J	0.86	LOD	2.1	LOQ	mg/kg	J	RI, Surr
BROMOCHLOROMETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
BROMODICHLOROMETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
BROMOFORM	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
BROMOMETHANE	1.7	U	1.7	LOD	2.1	LOQ	mg/kg	UJ	Surr
CARBON DISULFIDE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
CARBON TETRACHLORIDE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
CHLOROBENZENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
CHLORODIBROMOMETHANE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **SOIL**

Sample ID: **203-SB16-19** ***Collected:*** **12/14/2016 11:00:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **366.03**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
CHLOROETHANE	1.7	U	1.7	LOD	2.1	LOQ	mg/kg	UJ	Surr
CHLOROFORM	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
CHLOROMETHANE	1.7	U	1.7	LOD	2.1	LOQ	mg/kg	UJ	Surr
CIS-1,2-DICHLOROETHENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
CIS-1,3-DICHLOROPROPENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
CYCLOHEXANE	1.0	J	0.86	LOD	2.1	LOQ	mg/kg	J	RI, Surr
Dichlorodifluoromethane [Freon-12]	1.7	U	1.7	LOD	2.1	LOQ	mg/kg	UJ	Surr
ETHYLBENZENE	4.5		0.86	LOD	2.1	LOQ	mg/kg	J-	Surr
ISOPROPYLBENZENE	1.5	J	0.86	LOD	2.1	LOQ	mg/kg	J	RI, Surr
m/p-Xylene [3/4-Xylene]	5.2		0.86	LOD	2.1	LOQ	mg/kg	J-	Surr
METHYL ACETATE	1.7	U	1.7	LOD	2.1	LOQ	mg/kg	UJ	Surr
Methyl tert-butyl ether [MTBE]	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
Methylcyclohexane	4.9		0.86	LOD	2.1	LOQ	mg/kg	J-	Surr
METHYLENE CHLORIDE	1.7	U	1.7	LOD	2.1	LOQ	mg/kg	UJ	Surr
O-XYLENE	3.0		0.86	LOD	2.1	LOQ	mg/kg	J-	Surr
STYRENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
TETRACHLOROETHENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
TOLUENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
TRANS-1,2-DICHLOROETHENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
TRANS-1,3-DICHLOROPROPENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
TRICHLOROETHENE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
Trichlorofluoromethane [Freon-11]	1.7	U	1.7	LOD	2.1	LOQ	mg/kg	UJ	Surr
VINYL ACETATE	1.7	U	1.7	LOD	4.3	LOQ	mg/kg	UJ	Surr
VINYL CHLORIDE	0.86	U	0.86	LOD	2.1	LOQ	mg/kg	UJ	Surr
Xylene (Total)	8.2		0.86	LOD	2.1	LOQ	mg/kg	J-	Surr

Sample ID: **203-SB16-35** ***Collected:*** **12/14/2016 11:05:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **37.15**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BENZENE	0.083	J	0.097	LOD	0.24	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **SOIL**

Sample ID: **203-SB34-40** ***Collected:*** **12/14/2016 9:39:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.76**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
4-Methyl-2-pentanone [MIBK]	0.009	U	0.009	LOD	0.011	LOQ	mg/kg	UJ	Lcs
BENZENE	0.0006	J	0.002	LOD	0.005	LOQ	mg/kg	J	RI
CYCLOHEXANE	0.002	J	0.002	LOD	0.005	LOQ	mg/kg	J	RI
ISOPROPYLBENZENE	0.003	J	0.002	LOD	0.005	LOQ	mg/kg	J	RI
O-XYLENE	0.002	J	0.002	LOD	0.005	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Ld	Laboratory Duplicate Precision
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Surrogate Outlier Report

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8260C
Matrix: SOIL

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB08-12 (Initial)	TOLUENE-D8	80	85.00-116.00	No Affected Compounds	
203-SB16-19 (Initial)	4-Bromofluorobenzene TOLUENE-D8	78 83	79.00-119.00 85.00-116.00	All Target Analytes	J-(all detects) UJ(all non-detects)
203-SB16-35 (Initial)	TOLUENE-D8	78	85.00-116.00	No Affected Compounds	

Method: 8270D
Matrix: SOIL

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB06-08 (Initial)	Nitrobenzene-d5	158	37.00-122.00	No Affected Compounds	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB13-01MS (Wet) 203-SB13-01MSD (Wet) (203-SB13-01)	IRON LEAD	6 42	617 300	81.00-124.00 84.00-118.00	- 44 (20.00)	IRON LEAD	J (all detects) UJ (all non-detects)
203-SB13-01MS (Wet) 203-SB13-01MSD (Wet) (203-SB13-01)	ANTIMONY MANGANESE	58 -78	60 -328	72.00-124.00 85.00-116.00	- -	ANTIMONY MANGANESE	J-(all detects) UJ(all non-detects)
203-SB13-01MS (Wet) 203-SB13-01MSD (Wet) (203-SB13-01)	ALUMINUM BARIUM CALCIUM MAGNESIUM ZINC	326 - - - 216	449 170 122 171 235	78.00-124.00 86.00-116.00 86.00-118.00 80.00-123.00 82.00-119.00	- - - - -	ALUMINUM BARIUM CALCIUM MAGNESIUM ZINC	J+(all detects)

Method: 8270D
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB13-01MS 203-SB13-01MSD (203-SB13-01)	ACENAPHTHENE ANTHRACENE BENZ(A)ANTHRACENE Benzo (g,h,i) perylene BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CARBAZOLE CHRYSENE DIBENZO(A,H)ANTHRACENE DIBENZOFURAN FLUORANTHENE FLUORENE INDENO(1,2,3-CD)PYRENE N-NITROSODIPHENYLAMINE PHENANTHRENE PYRENE	- - - - - - - - - - - 152 - - - 135 141	162 388 833 297 545 876 286 142 735 159 - 1304 159 312 - 1043 1298	40.00-123.00 47.00-123.00 49.00-126.00 43.00-134.00 45.00-129.00 45.00-132.00 47.00-132.00 50.00-123.00 50.00-124.00 45.00-134.00 44.00-120.00 50.00-127.00 43.00-125.00 45.00-133.00 38.00-127.00 50.00-121.00 47.00-127.00	54 (20.00) 117 (20.00) 153 (20.00) 101 (20.00) 134 (20.00) 155 (20.00) 91 (20.00) 47 (20.00) 149 (20.00) 51 (20.00) 29 (20.00) 156 (20.00) 56 (20.00) 103 (20.00) 23 (20.00) 152 (20.00) 159 (20.00)	ACENAPHTHENE ANTHRACENE BENZ(A)ANTHRACENE Benzo (g,h,i) perylene BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CARBAZOLE CHRYSENE DIBENZO(A,H)ANTHRACENE DIBENZOFURAN FLUORANTHENE FLUORENE INDENO(1,2,3-CD)PYRENE N-NITROSODIPHENYLAMINE PHENANTHRENE PYRENE	J(all detects)
203-SB13-01MS 203-SB13-01MSD (203-SB13-01)	BENZALDEHYDE	94	107	10.00-93.00	-	BENZALDEHYDE	J+(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB13-01DUP (Wet) (203-SB13-01)	COPPER ZINC	29 29	20.00 20.00	J (all detects) UJ (all non-detects)

Method: 7199
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB11-01DUP (Wet) (203-SB11-01)	Hexavalent Chromium [Cr (VI)]	46	20.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB16-01 (Dry)	203-SB16-01DUP (Dry)			
ALUMINUM	14400	13500	6	30.00	No Qualifiers Applied
ARSENIC	3.66	3.59	2	30.00	
BARIUM	65.4	66.2	1	30.00	
BERYLLIUM	0.589	0.606	3	30.00	
CADMIUM	0.0409	0.0401	2	30.00	
CALCIUM	815	731	11	30.00	
CHROMIUM	21.0	22.7	8	30.00	
COBALT	6.92	6.92	0	30.00	
COPPER	11.8	12.3	4	30.00	
IRON	17000	16200	5	30.00	
LEAD	7.03	7.77	10	30.00	
MAGNESIUM	3680	3790	3	30.00	
MANGANESE	291	315	8	30.00	
NICKEL	13.7	14.1	3	30.00	
POTASSIUM	2460	2640	7	30.00	
SELENIUM	0.168	0.170	1	30.00	
SODIUM	136	128	6	30.00	
THALLIUM	0.205	0.210	2	30.00	
VANADIUM	32.3	34.4	6	30.00	
ZINC	31.4	34.8	10	30.00	

Method: 7199
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB16-01 (Dry)	203-SB16-01DUP (Dry)			
Hexavalent Chromium [Cr (VI)]	0.63	0.86	31	30.00	J(all detects) UJ(all non-detects)

Method: 8260C
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB16-01	203-SB16-01DUP			
ACETONE	0.018	0.023	24	30.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D SIM
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB16-01	203-SB16-01DUP			
1-METHYLNAPHTHALENE	0.0015	0.0016	6	30.00	No Qualifiers Applied
2-METHYLNAPHTHALENE	0.0023	0.0023	0	30.00	
BENZ(A)ANTHRACENE	0.0015	0.0012	22	30.00	
BENZO(A)PYRENE	0.0022	0.0017	26	30.00	
BENZO(B)FLUORANTHENE	0.0028	0.0022	24	30.00	
BENZO(K)FLUORANTHENE	0.0011	0.00088	22	30.00	
CHRYSENE	0.0019	0.0016	17	30.00	
FLUORANTHENE	0.0029	0.0022	27	30.00	
INDENO(1,2,3-CD)PYRENE	0.0010	0.00078	25	30.00	
NAPHTHALENE	0.00089	0.00099	11	30.00	
PHENANTHRENE	0.0016	0.0014	13	30.00	
PYRENE	0.0024	0.0019	23	30.00	
ACENAPHTHYLENE	0.00039	0.0018 U	200	30.00	J(all detects) UJ(all non-detects)
BENZO(G,H,I)PERYLENE	0.0020	0.0014	35	30.00	

Method: 8270D
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB16-01	203-SB16-01DUP			
BENZO(A)PYRENE	0.004	0.004	0	30.00	No Qualifiers Applied
1-METHYLNAPHTHALENE	0.006	0.019 U	200	30.00	J(all detects) UJ(all non-detects)
2-METHYLNAPHTHALENE	0.009	0.004	77	30.00	
BENZ(A)ANTHRACENE	0.004	0.019 U	200	30.00	
Benzo (g,h,i) perylene	0.006	0.019 U	200	30.00	
BENZO(B)FLUORANTHENE	0.006	0.004	40	30.00	
CHRYSENE	0.004	0.019 U	200	30.00	
FLUORANTHENE	0.009	0.005	57	30.00	
PHENANTHRENE	0.008	0.019 U	200	30.00	
PYRENE	0.011	0.007	44	30.00	

Method: 9045D
Matrix: SOIL

Analyte	Concentration (pH Units)		Sample RPD	eQAPP RPD	Flag
	203-SB16-01	203-SB16-01DUP			
PH	7.12	7.49	5	30.00	No Qualifiers Applied

Method: Calculation
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB16-01 (Dry)	203-SB16-01DUP (Dry)			
TRIVALENT CHROMIUM	20.3	21.9	8	20.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: D1498
Matrix: SOIL

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	203-SB16-01	203-SB16-01DUP			
Oxidation Reduction Potential (ORP)	538	533	1	30.00	No Qualifiers Applied

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P9LFLCSQ359SLF026 (203-SB06-01 203-SB06-08 203-SB07-01 203-SB07-35 203-SB08-01 203-SB08-12 203-SB11-01 203-SB11-35 203-SB12-01 203-SB12-13 203-SB13-01 203-SB13-28 203-SB16-01 203-SB16-01DUP 203-SB16-19 203-SB16-35 203-SB34-40)	BENZALDEHYDE	117	-	10.00-93.00	-	BENZALDEHYDE	J+ (all detects)

Method: 8260C
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSA77YA163611AA (203-SB06-01 203-SB07-01 203-SB07-35 203-SB08-01 203-SB11-01 203-SB11-35 203-SB12-01 203-SB13-01 203-SB16-01 203-SB16-01DUP 203-SB34-40)	4-Methyl-2-pentanone [MIBK]	-	64	65.00-135.00	-	4-Methyl-2-pentanone [MIBK]	J-(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB06-01	CADMIUM SELENIUM	J J	0.118 0.184	0.227 0.906	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB06-08	SODIUM THALLIUM	J J	83.5 0.117	85.6 0.214	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB07-01	CADMIUM SELENIUM	J J	0.0629 0.256	0.220 0.880	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB07-35	CADMIUM SELENIUM SILVER	J J J	0.133 0.129 0.0523	0.247 0.987 0.247	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB08-01	CADMIUM SELENIUM	J J	0.0490 0.196	0.168 0.671	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB08-12	SELENIUM	J	0.0808	0.651	LOQ	mg/kg	J (all detects)
203-SB11-01	CADMIUM SELENIUM	J J	0.0468 0.341	0.199 0.796	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB11-35	CADMIUM SELENIUM SILVER	J J J	0.126 0.109 0.0560	0.238 0.953 0.238	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB12-01	CADMIUM SELENIUM THALLIUM	J J J	0.0737 0.186 0.202	0.210 0.840 0.210	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB12-13	SODIUM THALLIUM	J J	65.2 0.117	67.0 0.168	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB13-01	CADMIUM SELENIUM	J J	0.0959 0.205	0.183 0.732	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB13-28	THALLIUM	J	0.140	0.173	LOQ	mg/kg	J (all detects)
203-SB16-01	CADMIUM SELENIUM THALLIUM	J J J	0.0409 0.168 0.205	0.206 0.826 0.206	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB16-01DUP	CADMIUM SELENIUM	J J	0.0401 0.170	0.168 0.672	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB16-35	CADMIUM SELENIUM SILVER	J J J	0.0678 0.152 0.0325	0.245 0.979 0.245	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB34-40	CADMIUM SELENIUM SILVER	J J J	0.0512 0.130 0.0481	0.207 0.830 0.207	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)

Method: 7471B

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB07-01	MERCURY	J	0.0112	0.108	LOQ	mg/kg	J (all detects)
203-SB11-01	MERCURY	J	0.0177	0.118	LOQ	mg/kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8260C

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB06-01	2-Butanone [MEK]	J	0.004	0.008	LOQ	mg/kg	J (all detects)
203-SB06-08	ETHYLBENZENE	J	1.8	2.0	LOQ	mg/kg	J (all detects)
	ISOPROPYLBENZENE	J	1.7	2.0	LOQ	mg/kg	
	m/p-Xylene [3/4-Xylene]	J	0.85	2.0	LOQ	mg/kg	
	Xylene (Total)	J	0.85	2.0	LOQ	mg/kg	
203-SB08-01	METHYL ACETATE	J	0.003	0.004	LOQ	mg/kg	J (all detects)
203-SB08-12	ETHYLBENZENE	J	0.11	0.20	LOQ	mg/kg	J (all detects)
	ISOPROPYLBENZENE	J	0.054	0.20	LOQ	mg/kg	
	m/p-Xylene [3/4-Xylene]	J	0.14	0.20	LOQ	mg/kg	
	Methylcyclohexane	J	0.15	0.20	LOQ	mg/kg	
	O-XYLENE	J	0.11	0.20	LOQ	mg/kg	
203-SB12-01	2-Butanone [MEK]	J	0.004	0.009	LOQ	mg/kg	J (all detects)
	m/p-Xylene [3/4-Xylene]	J	0.001	0.004	LOQ	mg/kg	
	Xylene (Total)	J	0.001	0.004	LOQ	mg/kg	
203-SB12-13	CYCLOHEXANE	J	0.057	0.22	LOQ	mg/kg	J (all detects)
203-SB13-01	2-Butanone [MEK]	J	0.005	0.009	LOQ	mg/kg	J (all detects)
	METHYL ACETATE	J	0.002	0.004	LOQ	mg/kg	
203-SB13-28	BENZENE	J	0.23	0.76	LOQ	mg/kg	J (all detects)
	CYCLOHEXANE	J	0.53	0.76	LOQ	mg/kg	
	ISOPROPYLBENZENE	J	0.45	0.76	LOQ	mg/kg	
	TOLUENE	J	0.32	0.76	LOQ	mg/kg	
203-SB16-19	BENZENE	J	0.29	2.1	LOQ	mg/kg	J (all detects)
	CYCLOHEXANE	J	1.0	2.1	LOQ	mg/kg	
	ISOPROPYLBENZENE	J	1.5	2.1	LOQ	mg/kg	
203-SB16-35	BENZENE	J	0.083	0.24	LOQ	mg/kg	J (all detects)
203-SB34-40	BENZENE	J	0.0006	0.005	LOQ	mg/kg	J (all detects)
	CYCLOHEXANE	J	0.002	0.005	LOQ	mg/kg	
	ISOPROPYLBENZENE	J	0.003	0.005	LOQ	mg/kg	
	O-XYLENE	J	0.002	0.005	LOQ	mg/kg	

Method: 8270D

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB06-01	1-METHYLNAPHTHALENE	J	0.014	0.020	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.014	0.020	LOQ	mg/kg	
	ANTHRACENE	J	0.004	0.020	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.016	0.020	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.010	0.020	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.017	0.020	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.014	0.020	LOQ	mg/kg	
	BIS(2-ETHYLHEXYL) PHTHALATE	J	0.10	0.20	LOQ	mg/kg	
	CHRYSENE	J	0.018	0.020	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.009	0.020	LOQ	mg/kg	
	NAPHTHALENE	J	0.006	0.020	LOQ	mg/kg	
203-SB06-08	DIBENZO(A,H)ANTHRACENE	J	0.053	0.19	LOQ	mg/kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB07-01	1-METHYLNAPHTHALENE	J	0.006	0.020	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.013	0.020	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.009	0.020	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.006	0.020	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.010	0.020	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.015	0.020	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.007	0.020	LOQ	mg/kg	
	CHRYSENE	J	0.013	0.020	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.004	0.020	LOQ	mg/kg	
	FLUORENE	J	0.004	0.020	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.005	0.020	LOQ	mg/kg	
	NAPHTHALENE	J	0.006	0.020	LOQ	mg/kg	
203-SB07-35	2-METHYLNAPHTHALENE	J	0.006	0.023	LOQ	mg/kg	J (all detects)
203-SB08-01	1-METHYLNAPHTHALENE	J	0.009	0.020	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.010	0.020	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.005	0.020	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.005	0.020	LOQ	mg/kg	
	FLUORANTHENE	J	0.005	0.020	LOQ	mg/kg	
	PHENANTHRENE	J	0.005	0.020	LOQ	mg/kg	
	PYRENE	J	0.005	0.020	LOQ	mg/kg	
203-SB08-12	BENZ(A)ANTHRACENE	J	0.014	0.019	LOQ	mg/kg	J (all detects)
	BENZO(A)PYRENE	J	0.007	0.019	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.009	0.019	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.004	0.019	LOQ	mg/kg	
	CHRYSENE	J	0.018	0.019	LOQ	mg/kg	
203-SB11-01	BENZ(A)ANTHRACENE	J	0.004	0.021	LOQ	mg/kg	J (all detects)
	BENZO(A)PYRENE	J	0.004	0.021	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.006	0.021	LOQ	mg/kg	
	CHRYSENE	J	0.005	0.021	LOQ	mg/kg	
	FLUORANTHENE	J	0.008	0.021	LOQ	mg/kg	
	PHENANTHRENE	J	0.006	0.021	LOQ	mg/kg	
	PYRENE	J	0.007	0.021	LOQ	mg/kg	
203-SB11-35	1-METHYLNAPHTHALENE	J	0.010	0.023	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.022	0.023	LOQ	mg/kg	
	FLUORENE	J	0.007	0.023	LOQ	mg/kg	
	PYRENE	J	0.005	0.023	LOQ	mg/kg	
203-SB12-01	ACENAPHTHENE	J	0.004	0.020	LOQ	mg/kg	J (all detects)
	ANTHRACENE	J	0.007	0.020	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.018	0.020	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.019	0.020	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.008	0.020	LOQ	mg/kg	
	FLUORENE	J	0.007	0.020	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.019	0.020	LOQ	mg/kg	
203-SB12-13	Benzo (g,h,i) perylene	J	0.013	0.018	LOQ	mg/kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.017	0.018	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.004	0.018	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.012	0.018	LOQ	mg/kg	

Reporting Limit Outliers

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB13-01	ACENAPHTHENE	J	0.008	0.020	LOQ	mg/kg	
	BIS(2-ETHYLHEXYL) PHTHALATE	J	0.14	0.20	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.011	0.020	LOQ	mg/kg	J (all detects)
	FLUORENE	J	0.010	0.020	LOQ	mg/kg	
	NAPHTHALENE	J	0.011	0.020	LOQ	mg/kg	
203-SB13-28	BENZ(A)ANTHRACENE	J	0.011	0.019	LOQ	mg/kg	J (all detects)
203-SB16-01	1-METHYLNAPHTHALENE	J	0.006	0.019	LOQ	mg/kg	
	2-METHYLNAPHTHALENE	J	0.009	0.019	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.004	0.019	LOQ	mg/kg	
	Benzo (g,h,i) perylene	J	0.006	0.019	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.004	0.019	LOQ	mg/kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.006	0.019	LOQ	mg/kg	
	CHRYSENE	J	0.004	0.019	LOQ	mg/kg	
	FLUORANTHENE	J	0.009	0.019	LOQ	mg/kg	
	PHENANTHRENE	J	0.008	0.019	LOQ	mg/kg	
	PYRENE	J	0.011	0.019	LOQ	mg/kg	
203-SB16-01DUP	2-METHYLNAPHTHALENE	J	0.004	0.019	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.004	0.019	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.004	0.019	LOQ	mg/kg	J (all detects)
	FLUORANTHENE	J	0.005	0.019	LOQ	mg/kg	
	PYRENE	J	0.007	0.019	LOQ	mg/kg	
203-SB16-19	BENZ(A)ANTHRACENE	J	0.007	0.020	LOQ	mg/kg	J (all detects)
	CHRYSENE	J	0.012	0.020	LOQ	mg/kg	
203-SB16-35	BIS(2-ETHYLHEXYL) PHTHALATE	J	0.12	0.22	LOQ	mg/kg	J (all detects)
	FLUORANTHENE	J	0.012	0.022	LOQ	mg/kg	
203-SB34-40	1,1-BIPHENYL	J	0.045	0.046	LOQ	mg/kg	
	ACENAPHTHENE	J	0.017	0.024	LOQ	mg/kg	
	ANTHRACENE	J	0.012	0.024	LOQ	mg/kg	J (all detects)
	NAPHTHALENE	J	0.013	0.024	LOQ	mg/kg	
	PYRENE	J	0.008	0.024	LOQ	mg/kg	

Method: 8270D SIM

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB06-01	DIBENZO(A,H)ANTHRACENE	J	0.0015	0.0019	LOQ	mg/kg	J (all detects)
203-SB07-01	ANTHRACENE	J	0.0012	0.0019	LOQ	mg/kg	
	DIBENZO(A,H)ANTHRACENE	J	0.0011	0.0019	LOQ	mg/kg	J (all detects)
	FLUORENE	J	0.0016	0.0019	LOQ	mg/kg	
203-SB07-35	BENZO(B)FLUORANTHENE	J	0.0014	0.0023	LOQ	mg/kg	
	CHRYSENE	J	0.0017	0.0023	LOQ	mg/kg	
	NAPHTHALENE	J	0.0015	0.0023	LOQ	mg/kg	J (all detects)
	PHENANTHRENE	J	0.0017	0.0023	LOQ	mg/kg	
	PYRENE	J	0.00056	0.0023	LOQ	mg/kg	
203-SB08-01	ANTHRACENE	J	0.00056	0.0020	LOQ	mg/kg	
	BENZO(G,H,I)PERYLENE	J	0.0011	0.0020	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.0016	0.0020	LOQ	mg/kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.0010	0.0020	LOQ	mg/kg	

Reporting Limit Outliers

Lab Reporting Batch ID: APP11 **Laboratory: LLL**

EDD Filename: APP11-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D SIM**

Matrix: **SOIL**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
203-SB11-01	1-METHYLNAPHTHALENE	J	0.0010	0.0020	LOQ	mg/kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.0016	0.0020	LOQ	mg/kg	
	ANTHRACENE	J	0.00048	0.0020	LOQ	mg/kg	
	BENZO(G,H,I)PERYLENE	J	0.0011	0.0020	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.0012	0.0020	LOQ	mg/kg	
	NAPHTHALENE	J	0.0010	0.0020	LOQ	mg/kg	
203-SB11-35	ACENAPHTHENE	J	0.0017	0.0023	LOQ	mg/kg	J (all detects)
	ACENAPHTHYLENE	J	0.00055	0.0023	LOQ	mg/kg	
	ANTHRACENE	J	0.0016	0.0023	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.0011	0.0023	LOQ	mg/kg	
	NAPHTHALENE	J	0.0015	0.0023	LOQ	mg/kg	
203-SB12-01	ACENAPHTHYLENE	J	0.0011	0.0019	LOQ	mg/kg	J (all detects)
203-SB13-01	ACENAPHTHYLENE	J	0.0011	0.0020	LOQ	mg/kg	J (all detects)
203-SB16-01	1-METHYLNAPHTHALENE	J	0.0015	0.0019	LOQ	mg/kg	J (all detects)
	ACENAPHTHYLENE	J	0.00039	0.0019	LOQ	mg/kg	
	BENZ(A)ANTHRACENE	J	0.0015	0.0019	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.0011	0.0019	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.0010	0.0019	LOQ	mg/kg	
	NAPHTHALENE	J	0.00089	0.0019	LOQ	mg/kg	
	PHENANTHRENE	J	0.0016	0.0019	LOQ	mg/kg	
203-SB16-01DUP	1-METHYLNAPHTHALENE	J	0.0016	0.0018	LOQ	mg/kg	J (all detects)
	BENZ(A)ANTHRACENE	J	0.0012	0.0018	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.0017	0.0018	LOQ	mg/kg	
	BENZO(G,H,I)PERYLENE	J	0.0014	0.0018	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.00088	0.0018	LOQ	mg/kg	
	CHRYSENE	J	0.0016	0.0018	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.00078	0.0018	LOQ	mg/kg	
	NAPHTHALENE	J	0.00099	0.0018	LOQ	mg/kg	
	PHENANTHRENE	J	0.0014	0.0018	LOQ	mg/kg	
203-SB34-40	BENZ(A)ANTHRACENE	J	0.0010	0.0023	LOQ	mg/kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.0022	0.0023	LOQ	mg/kg	

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Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP12	
Date(s) of Collection:	December 15th, 2016	
Number/Type Samples & Analyses:	3 soil samples and 1 field duplicate for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	January 29th, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface and sub surface soil data included in Sample Delivery Group (SDG) APP12. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

✓ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✗ Laboratory duplicate results

✗ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Sample 203-SB17-40 was run for 8270 SIM and regular 8270. The final results will be presented in SVOC SIM.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	SR
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix:** SOIL

Sample ID: 203-SB17-01 **Collected:** 12/15/2016 1:51:00 PM **Analysis Type:** Initial3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.20		0.389	LOD	0.779	LOQ	mg/kg	J+	Ms
CADMIUM	0.121	J	0.0974	LOD	0.195	LOQ	mg/kg	J	Rl, Ld
COPPER	26.7		0.195	LOD	0.779	LOQ	mg/kg	J	Ms, Ms, Ld
IRON	16500		19.5	LOD	38.9	LOQ	mg/kg	J+	Ms
LEAD	9.02		0.0487	LOD	0.389	LOQ	mg/kg	J	Ms, Ld
MAGNESIUM	3440		9.74	LOD	38.9	LOQ	mg/kg	J+	Ms
MANGANESE	213		0.195	LOD	0.779	LOQ	mg/kg	J+	Ms
NICKEL	12.0		0.195	LOD	0.779	LOQ	mg/kg	J+	Ms
THALLIUM	0.187	J	0.0487	LOD	0.195	LOQ	mg/kg	J	Rl
ZINC	42.0		2.92	LOD	5.84	LOQ	mg/kg	J	Ms, Ld
ALUMINUM	13300		9.74	LOD	38.9	LOQ	mg/kg	J+	Ms

Sample ID: 203-SB17-01 **Collected:** 12/15/2016 1:51:00 PM **Analysis Type:** Reanalysis-013 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	31.1		0.0974	LOD	0.195	LOQ	mg/kg	J+	Ms

Sample ID: 203-SB17-01 **Collected:** 12/15/2016 1:51:00 PM **Analysis Type:** Reanalysis-0211111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.283	J	0.195	LOD	0.779	LOQ	mg/kg	J	Rl

Sample ID: 203-SB17-01 **Collected:** 12/15/2016 1:51:00 PM **Analysis Type:** Reanalysis-0344333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	848		38.9	LOD	77.9	LOQ	mg/kg	J	Ms, Ld

Sample ID: 203-SB17-01 **Collected:** 12/15/2016 1:51:00 PM **Analysis Type:** Reanalysis-0422222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	55.0		0.389	LOD	0.779	LOQ	mg/kg	J+	Ms

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: SOIL**

Sample ID: 203-SB17-25 **Collected:** 12/15/2016 3:20:00 PM **Analysis Type:** Reanalysis-0211111 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.265	LOD	1.06	LOQ	mg/kg	J	RI

Sample ID: 203-SB17-25DUP **Collected:** 12/15/2016 3:20:00 PM **Analysis Type:** Reanalysis-0222222 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.187	LOD	0.748	LOQ	mg/kg	J	RI

Sample ID: 203-SB17-40 **Collected:** 12/15/2016 3:36:00 PM **Analysis Type:** Initial4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0260	J	0.0464	LOD	0.186	LOQ	mg/kg	J	RI

Sample ID: 203-SB17-40 **Collected:** 12/15/2016 3:36:00 PM **Analysis Type:** Reanalysis-0234333 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.217	J	0.186	LOD	0.743	LOQ	mg/kg	J	RI

Method Category: METALS

Method: 7199 **Matrix: SOIL**

Sample ID: 203-SB17-25 **Collected:** 12/15/2016 3:20:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.56	U	0.56	LOD	0.56	LOQ	mg/kg	UJ	Fd

Sample ID: 203-SB17-25DUP **Collected:** 12/15/2016 3:20:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.41	J	0.42	LOD	0.42	LOQ	mg/kg	J	RI, Fd

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 7471B **Matrix: SOIL**

Sample ID: 203-SB17-01 **Collected:** 12/15/2016 1:51:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0127	J	0.0182	LOD	0.109	LOQ	mg/kg	J	Rl, Ld

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB17-01 **Collected:** 12/15/2016 1:51:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.007	J	0.015	LOD	0.019	LOQ	mg/kg	J	Rl
BIS(2-ETHYLHEXYL) PHTHALATE	0.11	J	0.15	LOD	0.19	LOQ	mg/kg	J	Rl

Sample ID: 203-SB17-25 **Collected:** 12/15/2016 3:20:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.007	J	0.018	LOD	0.023	LOQ	mg/kg	J	Rl
CHRYSENE	0.013	J	0.018	LOD	0.023	LOQ	mg/kg	J	Rl

Sample ID: 203-SB17-25DUP **Collected:** 12/15/2016 3:20:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.006	J	0.014	LOD	0.018	LOQ	mg/kg	J	Rl
CHRYSENE	0.010	J	0.014	LOD	0.018	LOQ	mg/kg	J	Rl

Sample ID: 203-SB17-40 **Collected:** 12/15/2016 3:36:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-BIPHENYL	0.025	J	0.039	LOD	0.039	LOQ	mg/kg	J	Rl

Sample ID: 203-SB17-40 **Collected:** 12/15/2016 3:36:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.094		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
2-METHYLNAPHTHALENE	0.14		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: SOIL**

Sample ID: 203-SB17-40 **Collected:** 12/15/2016 3:36:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ACENAPHTHYLENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZ(A)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
Benzo (g,h,i) perylene	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(A)PYRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
CHRYSENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORANTHENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
FLUORENE	0.012	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.004	J	0.015	LOD	0.020	LOQ	mg/kg	NP	RI, ProfJudg
NAPHTHALENE	0.098		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PHENANTHRENE	0.027		0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg
PYRENE	0.015	U	0.015	LOD	0.020	LOQ	mg/kg	NP	ProfJudg

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB17-40 **Collected:** 12/15/2016 3:36:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.0037		0.0015	LOD	0.0019	LOQ	mg/kg	J+	Lcs
ACENAPHTHYLENE	0.0016	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
ANTHRACENE	0.0016	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
BENZO(A)PYRENE	0.0018	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
BENZO(B)FLUORANTHENE	0.0016	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
BENZO(G,H,I)PERYLENE	0.0013	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
BENZO(K)FLUORANTHENE	0.0011	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
CHRYSENE	0.00042	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI
FLUORANTHENE	0.0012	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D SIM **Matrix: SOIL**

Sample ID: 203-SB17-40 **Collected:** 12/15/2016 3:36:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	0.0018	J	0.0015	LOD	0.0019	LOQ	mg/kg	J	Rl

Method Category: VOA

Method: 8260C **Matrix: SOIL**

Sample ID: 203-SB17-01 **Collected:** 12/15/2016 1:51:00 PM **Analysis Type:** Initial **Dilution:** 0.81

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.007	U	0.007	LOD	0.009	LOQ	mg/kg	UJ	Lcs

Sample ID: 203-SB17-25 **Collected:** 12/15/2016 3:20:00 PM **Analysis Type:** Initial **Dilution:** 152.44

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.58	J	0.42	LOD	1.1	LOQ	mg/kg	J	Rl, Fd
CYCLOHEXANE	2.3		0.42	LOD	1.1	LOQ	mg/kg	J	Fd
ETHYLBENZENE	6.1		0.42	LOD	1.1	LOQ	mg/kg	J	Fd
ISOPROPYLBENZENE	2.1		0.42	LOD	1.1	LOQ	mg/kg	J	Fd
m/p-Xylene [3/4-Xylene]	13		0.42	LOD	1.1	LOQ	mg/kg	J	Fd
Methylcyclohexane	11		0.42	LOD	1.1	LOQ	mg/kg	J	Fd
O-XYLENE	4.6		0.42	LOD	1.1	LOQ	mg/kg	J	Fd
TOLUENE	0.25	J	0.42	LOD	1.1	LOQ	mg/kg	J	Rl, Fd
Xylene (Total)	18		0.42	LOD	1.1	LOQ	mg/kg	J	Fd

Sample ID: 203-SB17-25DUP **Collected:** 12/15/2016 3:20:00 PM **Analysis Type:** Initial **Dilution:** 43.78

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.10	J	0.096	LOD	0.24	LOQ	mg/kg	J	Rl, Fd
CYCLOHEXANE	0.29		0.096	LOD	0.24	LOQ	mg/kg	J	Fd
ETHYLBENZENE	0.85		0.096	LOD	0.24	LOQ	mg/kg	J	Fd
ISOPROPYLBENZENE	0.29		0.096	LOD	0.24	LOQ	mg/kg	J	Fd
m/p-Xylene [3/4-Xylene]	1.8		0.096	LOD	0.24	LOQ	mg/kg	J	Fd
Methylcyclohexane	1.4		0.096	LOD	0.24	LOQ	mg/kg	J	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **SOIL**

Sample ID: **203-SB17-25DUP** ***Collected:*** **12/15/2016 3:20:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **43.78**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
O-XYLENE	0.57		0.096	LOD	0.24	LOQ	mg/kg	J	Fd
TOLUENE	0.096	U	0.096	LOD	0.24	LOQ	mg/kg	UJ	Fd
Xylene (Total)	2.3		0.096	LOD	0.24	LOQ	mg/kg	J	Fd

Sample ID: **203-SB17-40** ***Collected:*** **12/15/2016 3:36:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.68**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Methyl-2-pentanone [MIBK]	0.006	U	0.006	LOD	0.008	LOQ	mg/kg	UJ	Lcs
ACETONE	0.009	J	0.013	LOD	0.016	LOQ	mg/kg	J	RI
O-XYLENE	0.002	J	0.002	LOD	0.004	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Ld	Laboratory Duplicate Precision
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **6020A**
Matrix: **SOIL**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
203-SB17-01MSD (Wet) (203-SB17-01)	COPPER	-	181	84.00-119.00	23 (20.00)	COPPER	J (all detects) UJ (all non-detects)
203-SB17-01MS (Wet) 203-SB17-01MSD (Wet) (203-SB17-01)	ALUMINUM ARSENIC IRON LEAD MAGNESIUM MANGANESE NICKEL VANADIUM ZINC	572 122 678 - 156 265 - 131 210	655 132 883 141 177 350 125 131 220	78.00-124.00 82.00-118.00 81.00-124.00 84.00-118.00 80.00-123.00 85.00-116.00 84.00-119.00 82.00-116.00 82.00-119.00	- - - - - - - - -	ALUMINUM ARSENIC IRON LEAD MAGNESIUM MANGANESE NICKEL VANADIUM ZINC	J+(all detects)
203-SB17-01MS (Wet) 203-SB17-01MSD (Wet) (203-SB17-01)	CALCIUM	120	124	86.00-118.00	-	CALCIUM	J+(all detects)
203-SB17-01MS (Wet) 203-SB17-01MSD (Wet) (203-SB17-01)	BARIUM	153	225	86.00-116.00	-	BARIUM	J+(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 7471B
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB17-01DUP (Wet) (203-SB17-01)	MERCURY	68	20.00	J (all detects) UJ (all non-detects)

Method: 6020A
Matrix: SOIL

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
203-SB17-01DUP (Wet) (203-SB17-01)	CADMIUM CALCIUM COPPER LEAD ZINC	81 24 99 51 57	20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D SIM
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6LDLCSQ006SLD026 (203-SB17-40)	ACENAPHTHENE	112	-	44.00-111.00	-	ACENAPHTHENE	J+ (all detects)

Method: 8260C
Matrix: SOIL

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSA77YA163611AA (203-SB17-01 203-SB17-40)	4-Methyl-2-pentanone [MIBK]	-	64	65.00-135.00	-	4-Methyl-2-pentanone [MIBK]	J-(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB17-01	CADMIUM SELENIUM THALLIUM	J J J	0.121 0.283 0.187	0.195 0.779 0.195	LOQ LOQ LOQ	mg/kg mg/kg mg/kg	J (all detects)
203-SB17-25	SELENIUM	J	0.154	1.06	LOQ	mg/kg	J (all detects)
203-SB17-25DUP	SELENIUM	J	0.129	0.748	LOQ	mg/kg	J (all detects)
203-SB17-40	SELENIUM SILVER	J J	0.217 0.0260	0.743 0.186	LOQ LOQ	mg/kg mg/kg	J (all detects)

Method: 7199
Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB17-25DUP	Hexavalent Chromium [Cr (VI)]	J	0.41	0.42	LOQ	mg/kg	J (all detects)

Method: 7471B
Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB17-01	MERCURY	J	0.0127	0.109	LOQ	mg/kg	J (all detects)

Method: 8260C
Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB17-25	BENZENE TOLUENE	J J	0.58 0.25	1.1 1.1	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB17-25DUP	BENZENE	J	0.10	0.24	LOQ	mg/kg	J (all detects)
203-SB17-40	ACETONE O-XYLENE	J J	0.009 0.002	0.016 0.004	LOQ LOQ	mg/kg mg/kg	J (all detects)

Method: 8270D
Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB17-01	ACENAPHTHYLENE BIS(2-ETHYLHEXYL) PHTHALATE	J J	0.007 0.11	0.019 0.19	LOQ LOQ	mg/kg mg/kg	J (all detects)
203-SB17-25	BENZ(A)ANTHRACENE CHRYSENE	J J	0.007 0.013	0.023 0.023	LOQ LOQ	mg/kg mg/kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB17-25DUP	BENZ(A)ANTHRACENE	J	0.006	0.018	LOQ	mg/kg	J (all detects)
	CHRYSENE	J	0.010	0.018	LOQ	mg/kg	
203-SB17-40	1,1-BIPHENYL	J	0.025	0.039	LOQ	mg/kg	J (all detects)
	FLUORENE	J	0.012	0.020	LOQ	mg/kg	
	INDENO(1,2,3-CD)PYRENE	J	0.004	0.020	LOQ	mg/kg	

Method: 8270D SIM

Matrix: SOIL

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB17-40	ACENAPHTHYLENE	J	0.0016	0.0019	LOQ	mg/kg	J (all detects)
	ANTHRACENE	J	0.0016	0.0019	LOQ	mg/kg	
	BENZO(A)PYRENE	J	0.0018	0.0019	LOQ	mg/kg	
	BENZO(B)FLUORANTHENE	J	0.0016	0.0019	LOQ	mg/kg	
	BENZO(G,H,I)PERYLENE	J	0.0013	0.0019	LOQ	mg/kg	
	BENZO(K)FLUORANTHENE	J	0.0011	0.0019	LOQ	mg/kg	
	CHRYSENE	J	0.00042	0.0019	LOQ	mg/kg	
	FLUORANTHENE	J	0.0012	0.0019	LOQ	mg/kg	
	PYRENE	J	0.0018	0.0019	LOQ	mg/kg	

Field Duplicate RPD Report

Lab Reporting Batch ID: APP12 **Laboratory: LLL**

EDD Filename: APP12-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB17-25 (Dry)	203-SB17-25DUP (Dry)			
ALUMINUM	11500	11100	4	30.00	
ARSENIC	4.31	3.27	27	30.00	
BARIUM	85.2	77.8	9	30.00	
BERYLLIUM	0.648	0.509	24	30.00	
CALCIUM	1670	1540	8	30.00	
CHROMIUM	23.9	23.1	3	30.00	
COBALT	7.21	6.81	6	30.00	
COPPER	14.1	12.9	9	30.00	
IRON	20100	16700	18	30.00	
LEAD	5.84	5.11	13	30.00	No Qualifiers Applied
MAGNESIUM	3870	3950	2	30.00	
MANGANESE	336	269	22	30.00	
NICKEL	14.9	14.1	6	30.00	
POTASSIUM	3010	3010	0	30.00	
SELENIUM	0.154	0.129	18	30.00	
SODIUM	196	166	17	30.00	
THALLIUM	0.285	0.266	7	30.00	
VANADIUM	39.3	34.1	14	30.00	
ZINC	39.1	33.4	16	30.00	

Method: 7199
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB17-25 (Dry)	203-SB17-25DUP (Dry)			
Hexavalent Chromium [Cr (VI)]	0.56 U	0.41	200	30.00	J(all detects) UJ(all non-detects)

Method: 8260C
Matrix: SOIL

Analyte	Concentration (mg/kg)		Sample RPD	eQAPP RPD	Flag
	203-SB17-25	203-SB17-25DUP			
BENZENE	0.58	0.10	141	30.00	
CYCLOHEXANE	2.3	0.29	155	30.00	
ETHYLBENZENE	6.1	0.85	151	30.00	
ISOPROPYLBENZENE	2.1	0.29	151	30.00	
m/p-Xylene [3/4-Xylene]	13	1.8	151	30.00	J(all detects) UJ(all non-detects)
Methylcyclohexane	11	1.4	155	30.00	
O-XYLENE	4.6	0.57	156	30.00	
TOLUENE	0.25	0.24 U	200	30.00	
Xylene (Total)	18	2.3	155	30.00	

Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP13	
Date(s) of Collection:	December 15th, 2016	
Number/Type Samples & Analyses:	1 ground water sample for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	January 29th, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) APP13. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

✓ Trip blank data

✓ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✗ Laboratory duplicate results

✗ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Samples CH-MW020-01 was run for 8270 SIM and regular 8270. The final results will be presented in SVOC SIM.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP13 **Laboratory: LLL**

EDD Filename: APP13-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	SR
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP13 **Laboratory: LLL**

EDD Filename: APP13-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 218.6 **Matrix: WATER**

Sample ID: CH-MW020-01 **Collected:** 12/15/2016 10:15:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.050	U	0.050	LOD	0.050	LOQ	ug/l	UJ	Ld

Sample ID: CH-MW020-01-F **Collected:** 12/15/2016 10:15:00 AM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.016	J	0.050	LOD	0.050	LOQ	ug/l	J	RI

Method Category: METALS

Method: 6020A **Matrix: WATER**

Sample ID: CH-MW020-01 **Collected:** 12/15/2016 10:15:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	101	J	50.0	LOD	200	LOQ	ug/l	J	RI
ARSENIC	2.0	U	2.0	LOD	4.0	LOQ	ug/l	UJ	Ld
BARIUM	8.5		2.0	LOD	4.0	LOQ	ug/l	J	Ld
IRON	94.4	J	100	LOD	200	LOQ	ug/l	J	RI
LEAD	0.18	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
MANGANESE	224		2.0	LOD	4.0	LOQ	ug/l	J+	Ms
VANADIUM	1.2		0.50	LOD	1.0	LOQ	ug/l	J	Ld
ZINC	7.5	U	7.5	LOD	30.0	LOQ	ug/l	UJ	Ld

Method Category: SVOA

Method: 8270D **Matrix: WATER**

Sample ID: CH-MW020-01 **Collected:** 12/15/2016 10:15:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	5.9		0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
2-METHYLNAPHTHALENE	1.4		0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
ACENAPHTHENE	0.59		0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
ACENAPHTHYLENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP13 **Laboratory: LLL**

EDD Filename: APP13-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: WATER**

Sample ID: CH-MW020-01 **Collected:** 12/15/2016 10:15:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.14	J	0.42	LOD	0.53	LOQ	ug/l	NP	Rl, ProfJudg
BENZ(A)ANTHRACENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
Benzo (g,h,i) perylene	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
BENZO(A)PYRENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
CHRYSENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
DIBENZOFURAN	0.57	J	1.1	LOD	1.1	LOQ	ug/l	J	Rl
FLUORANTHENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
FLUORENE	0.70		0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
NAPHTHALENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
PHENANTHRENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg
PYRENE	0.42	U	0.42	LOD	0.53	LOQ	ug/l	NP	ProfJudg

Method Category: SVOA

Method: 8270D SIM **Matrix: WATER**

Sample ID: CH-MW020-01 **Collected:** 12/15/2016 10:15:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	5.4		0.042	LOD	0.053	LOQ	ug/l	J+	Ms
2-METHYLNAPHTHALENE	1.4		0.042	LOD	0.053	LOQ	ug/l	J+	Ms
FLUORANTHENE	0.026	J	0.042	LOD	0.053	LOQ	ug/l	J	Rl
FLUORENE	0.62		0.042	LOD	0.053	LOQ	ug/l	J+	Ms
PHENANTHRENE	0.035	J	0.063	LOD	0.063	LOQ	ug/l	J	Rl, Ms, Ms
PYRENE	0.033	J	0.042	LOD	0.053	LOQ	ug/l	J	Rl

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP13 **Laboratory: LLL**

EDD Filename: APP13-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Spike Upper Estimation
Ld	Laboratory Duplicate Precision
Mb	Method Blank Contamination
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value

* denotes a non-reportable result

Method Blank Outlier Report

Lab Reporting Batch ID: APP13 **Laboratory: LLL**

EDD Filename: APP13-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D SIM**
Matrix: **WATER**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWF00B006WAF026	1/6/2017 9:30:00 PM	2-METHYLNAPHTHALENE NAPHTHALENE	0.012 ug/l 0.034 ug/l	CH-MW020-01

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP13 **Laboratory: LLL**

EDD Filename: APP13-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D
Matrix: WATER

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
CH-MW020-01MSD (CH-MW020-01)	2,4-DINITROPHENOL BENZOIC ACID	- -	- -	23.00-143.00 10.00-64.00	25 (20.00) 28 (20.00)	2,4-DINITROPHENOL BENZOIC ACID	J (all detects)
CH-MW020-01MS (CH-MW020-01)	HEXACHLOROCYCLOPENTADIEN	86	-	10.00-81.00	-	HEXACHLOROCYCLOPENTADIE	J+(all detects)

Method: 6020A
Matrix: WATER

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
CH-MW020-01MSD (Total) (CH-MW020-01)	MANGANESE	-	134	87.00-115.00	-	MANGANESE	J+(all detects)
CH-MW020-01MSD (Dissolved) (CH-MW020-01)	CALCIUM	-	126	87.00-118.00	-	CALCIUM	J+(all detects)

Method: 8270D SIM
Matrix: WATER

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
CH-MW020-01MSD (CH-MW020-01)	PHENANTHRENE	-	118	53.00-115.00	26 (20.00)	PHENANTHRENE	J(all detects)
CH-MW020-01MS CH-MW020-01MSD (CH-MW020-01)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE FLUORENE NAPHTHALENE	633 1222 - 272	617 1208 120 265	41.00-115.00 39.00-114.00 50.00-118.00 43.00-114.00	- - - -	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE FLUORENE NAPHTHALENE	J+(all detects)

Method: 8260C
Matrix: WATER

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
CH-MW020-01MSD (CH-MW020-01)	VINYL CHLORIDE	-	139	58.00-137.00	23 (20.00)	VINYL CHLORIDE	J(all detects)
CH-MW020-01MSD (CH-MW020-01)	Trichlorofluoromethane [Freon-11]	-	152	65.00-141.00	-	Trichlorofluoromethane [Freon-11]	J+(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: APP13 **Laboratory: LLL**

EDD Filename: APP13-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 218.6
Matrix: WATER

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
CH-MW020-01DUP (Dissolved) (CH-MW020-01)	Hexavalent Chromium [Cr (VI)]	86	20.00	J (all detects) UJ (all non-detects)
CH-MW020-01DUP (Total) (CH-MW020-01)	Hexavalent Chromium [Cr (VI)]	200	20.00	J(all detects) UJ(all non-detects)

Method: 6020A
Matrix: WATER

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
CH-MW020-01DUP (Total) (CH-MW020-01)	ARSENIC	200	20.00	
	BARIUM	28	20.00	J(all detects)
	VANADIUM	22	20.00	UJ(all non-detects)
	ZINC	200	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP13 **Laboratory: LLL**

EDD Filename: APP13-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **WATER**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
P5WJLCSQ355WAJ026 (CH-MW020-01)	HEXACHLOROCYCLOPENTADIEN	83	-	10.00-81.00	-	HEXACHLOROCYCLOPENTADIE	J+ (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP13 **Laboratory: LLL**

EDD Filename: APP13-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 218.6
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW020-01-F	Hexavalent Chromium [Cr (VI)]	J	0.016	0.050	LOQ	ug/l	J (all detects)

Method: 6020A
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW020-01	ALUMINUM	J	101	200	LOQ	ug/l	J (all detects)
	IRON	J	94.4	200	LOQ	ug/l	
	LEAD	J	0.18	2.0	LOQ	ug/l	

Method: 8270D
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW020-01	ANTHRACENE	J	0.14	0.53	LOQ	ug/l	J (all detects)
	DIBENZOFURAN	J	0.57	1.1	LOQ	ug/l	

Method: 8270D SIM
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW020-01	FLUORANTHENE	J	0.026	0.053	LOQ	ug/l	J (all detects)
	PHENANTHRENE	J	0.035	0.063	LOQ	ug/l	
	PYRENE	J	0.033	0.053	LOQ	ug/l	

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Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP14	
Date(s) of Collection:	December 14th, 2016	
Number/Type Samples & Analyses:	5 ground water samples for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	January 26th, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) APP14. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

✓ Trip blank data

✓ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✓ Laboratory duplicate results

NA Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Sample CH-MW021-01 was run for 8270 SIM and regular 8270. The final results will be presented in SVOC SIM.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 218.6 **Matrix: WATER**

Sample ID: CH-MW007-01 **Collected:** 12/14/2016 9:20:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.033	J	0.050	LOD	0.050	LOQ	ug/l	J	RI

Sample ID: CH-MW021-01 **Collected:** 12/14/2016 3:10:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.018	J	0.050	LOD	0.050	LOQ	ug/l	J	RI

Sample ID: CH-MW021-01-F **Collected:** 12/14/2016 3:10:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Hexavalent Chromium [Cr (VI)]	0.026	J	0.050	LOD	0.050	LOQ	ug/l	J	RI

Method Category: METALS

Method: 6020A **Matrix: WATER**

Sample ID: CH-MW006-01 **Collected:** 12/14/2016 3:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.11	J	0.25	LOD	1.0	LOQ	ug/l	J	RI
CHROMIUM	1.3	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
COPPER	0.73	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
LEAD	1.5	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
NICKEL	1.4	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
ZINC	3.7	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: CH-MW006-01-F **Collected:** 12/14/2016 3:00:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	73.4	J	50.0	LOD	200	LOQ	ug/l	J	RI
CHROMIUM	0.65	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
COPPER	2.5	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
IRON	78.6	J	100	LOD	200	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **WATER**

Sample ID: **CH-MW006-01-F** ***Collected:*** **12/14/2016 3:00:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.12	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
NICKEL	1.5	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.37	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
ZINC	8.0	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW007-01** ***Collected:*** **12/14/2016 9:20:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.73	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
CHROMIUM	3.7	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
COPPER	2.4	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
LEAD	0.85	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
NICKEL	3.5	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
ZINC	10.3	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW007-01-F** ***Collected:*** **12/14/2016 9:20:00 AM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	0.99	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
COPPER	0.96	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
NICKEL	1.7	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.40	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW011-01** ***Collected:*** **12/14/2016 9:30:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.4	J	1.0	LOD	2.0	LOQ	ug/l	J	RI
SELENIUM	0.89	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
THALLIUM	0.27	J	0.25	LOD	1.0	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **WATER**

Sample ID: **CH-MW011-01-F** ***Collected:*** **12/14/2016 9:30:00 AM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.9	J	1.0	LOD	2.0	LOQ	ug/l	J	RI
ARSENIC	2.7	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
BERYLLIUM	0.23	J	0.25	LOD	1.0	LOQ	ug/l	J	RI
LEAD	1.4	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
SELENIUM	0.68	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
ZINC	9.7	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW015-01** ***Collected:*** **12/14/2016 12:15:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
COPPER	0.75	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
LEAD	0.63	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
ZINC	11.3	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW015-01-F** ***Collected:*** **12/14/2016 12:15:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	41.8	J	100	LOD	200	LOQ	ug/l	J	RI
VANADIUM	0.23	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW021-01** ***Collected:*** **12/14/2016 3:10:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.3	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
BERYLLIUM	0.55	J	0.25	LOD	1.0	LOQ	ug/l	J	RI
THALLIUM	0.23	J	0.25	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: **CH-MW021-01-F** ***Collected:*** **12/14/2016 3:10:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.98	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
CHROMIUM	1.6	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: WATER**

Sample ID: CH-MW021-01-F **Collected:** 12/14/2016 3:10:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.4	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
LEAD	0.43	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
NICKEL	2.1	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
ZINC	4.0	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Method Category: METALS

Method: Calculation **Matrix: WATER**

Sample ID: CH-MW006-01 **Collected:** 12/14/2016 3:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Sample ID: CH-MW007-01 **Collected:** 12/14/2016 9:20:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	3.7	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Sample ID: CH-MW015-01 **Collected:** 12/14/2016 12:15:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Sample ID: CH-MW021-01-F **Collected:** 12/14/2016 3:10:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	1.6	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: WATER**

Sample ID: CH-MW021-01 **Collected:** 12/14/2016 3:10:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	9.1		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
2-METHYLNAPHTHALENE	0.15	J	0.40	LOD	0.50	LOQ	ug/l	NP	RI, ProfJudg
ACENAPHTHENE	1.9		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ACENAPHTHYLENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ANTHRACENE	0.68		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZ(A)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
Benzo (g,h,i) perylene	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(A)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
bis(2-chloroethoxy) methane	0.59	J	1.0	LOD	1.0	LOQ	ug/l	J	RI
CHRYSENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORENE	7.1		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
NAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
PHENANTHRENE	4.4		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
PYRENE	0.11	J	0.40	LOD	0.50	LOQ	ug/l	NP	RI, ProfJudg

Method Category: SVOA

Method: 8270D SIM **Matrix: WATER**

Sample ID: CH-MW021-01 **Collected:** 12/14/2016 3:10:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.046	J	0.040	LOD	0.050	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **WATER**

Sample ID: **CH-MW021-01** ***Collected:*** **12/14/2016 3:10:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
Methylcyclohexane	3	J	2	LOD	5	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
ProfJudg	Professional Judgment
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Method Blank Outlier Report

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D SIM**
Matrix: **WATER**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWF00B006WAF026	1/6/2017 9:30:00 PM	2-METHYLNAPHTHALENE NAPHTHALENE	0.012 ug/l 0.034 ug/l	CH-MW021-01

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **WATER**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
P5WJLCSQ355WAJ026 (CH-MW021-01)	HEXACHLOROCYCLOPENTADIEN	83	-	10.00-81.00	-	HEXACHLOROCYCLOPENTADIE	J+ (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 218.6

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW007-01	Hexavalent Chromium [Cr (VI)]	J	0.033	0.050	LOQ	ug/l	J (all detects)
CH-MW021-01	Hexavalent Chromium [Cr (VI)]	J	0.018	0.050	LOQ	ug/l	J (all detects)
CH-MW021-01-F	Hexavalent Chromium [Cr (VI)]	J	0.026	0.050	LOQ	ug/l	J (all detects)

Method: 6020A

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW006-01	BERYLLIUM	J	0.11	1.0	LOQ	ug/l	J (all detects)
	CHROMIUM	J	1.3	4.0	LOQ	ug/l	
	COPPER	J	0.73	4.0	LOQ	ug/l	
	LEAD	J	1.5	2.0	LOQ	ug/l	
	NICKEL	J	1.4	4.0	LOQ	ug/l	
	ZINC	J	3.7	30.0	LOQ	ug/l	
CH-MW006-01-F	ALUMINUM	J	73.4	200	LOQ	ug/l	J (all detects)
	CHROMIUM	J	0.65	4.0	LOQ	ug/l	
	COPPER	J	2.5	4.0	LOQ	ug/l	
	IRON	J	78.6	200	LOQ	ug/l	
	LEAD	J	0.12	2.0	LOQ	ug/l	
	NICKEL	J	1.5	4.0	LOQ	ug/l	
	VANADIUM	J	0.37	1.0	LOQ	ug/l	
	ZINC	J	8.0	30.0	LOQ	ug/l	
CH-MW007-01	ARSENIC	J	0.73	4.0	LOQ	ug/l	J (all detects)
	CHROMIUM	J	3.7	4.0	LOQ	ug/l	
	COPPER	J	2.4	4.0	LOQ	ug/l	
	LEAD	J	0.85	2.0	LOQ	ug/l	
	NICKEL	J	3.5	4.0	LOQ	ug/l	
	ZINC	J	10.3	30.0	LOQ	ug/l	
CH-MW007-01-F	COBALT	J	0.99	1.0	LOQ	ug/l	J (all detects)
	COPPER	J	0.96	4.0	LOQ	ug/l	
	NICKEL	J	1.7	4.0	LOQ	ug/l	
	VANADIUM	J	0.40	1.0	LOQ	ug/l	
CH-MW011-01	ANTIMONY	J	1.4	2.0	LOQ	ug/l	J (all detects)
	SELENIUM	J	0.89	4.0	LOQ	ug/l	
	THALLIUM	J	0.27	1.0	LOQ	ug/l	
CH-MW011-01-F	ANTIMONY	J	1.9	2.0	LOQ	ug/l	J (all detects)
	ARSENIC	J	2.7	4.0	LOQ	ug/l	
	BERYLLIUM	J	0.23	1.0	LOQ	ug/l	
	LEAD	J	1.4	2.0	LOQ	ug/l	
	SELENIUM	J	0.68	4.0	LOQ	ug/l	
	ZINC	J	9.7	30.0	LOQ	ug/l	
CH-MW015-01	CHROMIUM	J	1.1	4.0	LOQ	ug/l	J (all detects)
	COPPER	J	0.75	4.0	LOQ	ug/l	
	LEAD	J	0.63	2.0	LOQ	ug/l	
	ZINC	J	11.3	30.0	LOQ	ug/l	
CH-MW015-01-F	IRON	J	41.8	200	LOQ	ug/l	J (all detects)
	VANADIUM	J	0.23	1.0	LOQ	ug/l	

Reporting Limit Outliers

Lab Reporting Batch ID: APP14 **Laboratory: LLL**

EDD Filename: APP14-C_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW021-01	ARSENIC	J	3.3	4.0	LOQ	ug/l	J (all detects)
	BERYLLIUM	J	0.55	1.0	LOQ	ug/l	
	THALLIUM	J	0.23	1.0	LOQ	ug/l	
CH-MW021-01-F	ARSENIC	J	0.98	4.0	LOQ	ug/l	J (all detects)
	CHROMIUM	J	1.6	4.0	LOQ	ug/l	
	COPPER	J	2.4	4.0	LOQ	ug/l	
	LEAD	J	0.43	2.0	LOQ	ug/l	
	NICKEL	J	2.1	4.0	LOQ	ug/l	
	ZINC	J	4.0	30.0	LOQ	ug/l	

Method: 8260C
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW021-01	Methylcyclohexane	J	3	5	LOQ	ug/l	J (all detects)

Method: 8270D
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW021-01	2-METHYLNAPHTHALENE	J	0.15	0.50	LOQ	ug/l	J (all detects)
	bis(2-chloroethoxy) methane	J	0.59	1.0	LOQ	ug/l	
	PYRENE	J	0.11	0.50	LOQ	ug/l	

Method: 8270D SIM
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW021-01	FLUORANTHENE	J	0.046	0.050	LOQ	ug/l	J (all detects)

Method: Calculation
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW006-01	TRIVALENT CHROMIUM	J	1.1	4.0	LOQ	ug/l	J (all detects)
CH-MW007-01	TRIVALENT CHROMIUM	J	3.7	4.0	LOQ	ug/l	J (all detects)
CH-MW015-01	TRIVALENT CHROMIUM	J	1.1	4.0	LOQ	ug/l	J (all detects)
CH-MW021-01-F	TRIVALENT CHROMIUM	J	1.6	4.0	LOQ	ug/l	J (all detects)

Site/Project Name:	Building 203 Soil and Groundwater Sampling, at Former Camp Hero State Park, Montauk, New York.	Page 1
Laboratory:	Eurofins Laboratories, Inc. – Lancaster, PA.	
Laboratory SDG:	APP15	
Date(s) of Collection:	December 15th, 2016	
Number/Type Samples & Analyses:	3 ground water samples and one field duplicate for a project-specific list of VOCs, SVOCs, PAHs, hexavalent chromium, and metals	
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA	
Completed:	January 28th, 2017	

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) APP15. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in October, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✓ Trip blank data

✓ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Samples CH-MW016-01, CH-MW016-01DUP, CH-MW018-01, and CH-MW019-01 were run for 8270 SIM and regular 8270. The final results will be presented in SVOC SIM.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample limit of detection. However, the reported limit of detection is approximate and may or may not represent the actual limit of detection necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	A
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Qualifier Summary

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **WATER**

Sample ID: **CH-MW016-01** ***Collected:*** **12/15/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	104	J	100	LOD	200	LOQ	ug/l	J	Rl, Fd
NICKEL	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
VANADIUM	0.41	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl, Fd
ZINC	4.8	J	7.5	LOD	30.0	LOQ	ug/l	J	Rl
ALUMINUM	73.4	J	50.0	LOD	200	LOQ	ug/l	J	Rl

Sample ID: **CH-MW016-01DUP** ***Collected:*** **12/15/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	78.6	J	50.0	LOD	200	LOQ	ug/l	J	Rl
IRON	142	J	100	LOD	200	LOQ	ug/l	J	Rl, Fd
NICKEL	1.2	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
VANADIUM	0.64	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl, Fd
ZINC	3.8	J	7.5	LOD	30.0	LOQ	ug/l	J	Rl

Sample ID: **CH-MW016-01-F** ***Collected:*** **12/15/2016 3:00:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.67	J	1.0	LOD	4.0	LOQ	ug/l	J	Rl, Fd
IRON	38.8	J	100	LOD	200	LOQ	ug/l	J	Rl
NICKEL	1.2	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
VANADIUM	0.28	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl, Fd
ZINC	4.0	J	7.5	LOD	30.0	LOQ	ug/l	J	Rl, Fd

Sample ID: **CH-MW016-01-FDUP** ***Collected:*** **12/15/2016 3:00:00 PM** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.0	U	1.0	LOD	4.0	LOQ	ug/l	UJ	Fd
IRON	39.4	J	100	LOD	200	LOQ	ug/l	J	Rl
NICKEL	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	Rl
VANADIUM	0.40	J	0.50	LOD	1.0	LOQ	ug/l	J	Rl, Fd
ZINC	7.5	U	7.5	LOD	30.0	LOQ	ug/l	UJ	Fd

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: 6020A **Matrix: WATER**

Sample ID: CH-MW018-01 **Collected:** 12/15/2016 3:40:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	1.4	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
COPPER	0.92	J	1.0	LOD	4.0	LOQ	ug/l	J	RI
LEAD	0.45	J	0.25	LOD	2.0	LOQ	ug/l	J	RI
ZINC	7.2	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: CH-MW018-01-F **Collected:** 12/15/2016 3:40:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	90.7	J	50.0	LOD	200	LOQ	ug/l	J	RI
CHROMIUM	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	RI
VANADIUM	0.75	J	0.50	LOD	1.0	LOQ	ug/l	J	RI
ZINC	4.1	J	7.5	LOD	30.0	LOQ	ug/l	J	RI

Sample ID: CH-MW019-01 **Collected:** 12/15/2016 12:10:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.20	J	0.50	LOD	1.0	LOQ	ug/l	J	RI

Sample ID: CH-MW019-01-F **Collected:** 12/15/2016 12:10:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.62	J	0.25	LOD	1.0	LOQ	ug/l	J	RI

Method Category: METALS

Method: 7470A **Matrix: WATER**

Sample ID: CH-MW019-01 **Collected:** 12/15/2016 12:10:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.11	J	0.10	LOD	0.20	LOQ	ug/l	J	RI

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: METALS

Method: Calculation **Matrix: WATER**

Sample ID: CH-MW018-01 **Collected:** 12/15/2016 3:40:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	1.4	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Sample ID: CH-MW018-01-F **Collected:** 12/15/2016 3:40:00 PM **Analysis Type:** Initial/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRIVALENT CHROMIUM	1.1	J	2.0	LOD	4.0	LOQ	ug/l	J	RI

Method Category: SVOA

Method: 8270D **Matrix: WATER**

Sample ID: CH-MW016-01 **Collected:** 12/15/2016 3:00:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	8.2	J	15	LOD	15	LOQ	ug/l	J	RI, Fd

Sample ID: CH-MW016-01 **Collected:** 12/15/2016 3:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	3.1		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
2-METHYLNAPHTHALENE	4.7		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ACENAPHTHENE	1.1		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ACENAPHTHYLENE	0.18	J	0.40	LOD	0.50	LOQ	ug/l	NP	RI, ProfJudg
ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZ(A)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
Benzo (g,h,i) perylene	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(A)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
CHRYSENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORENE	0.30	J	0.40	LOD	0.50	LOQ	ug/l	NP	RI, ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix:** WATER

Sample ID: CH-MW016-01 **Collected:** 12/15/2016 3:00:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
NAPHTHALENE	3.1		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
PHENANTHRENE	1.8		0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg

Sample ID: CH-MW016-01DUP **Collected:** 12/15/2016 3:00:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	15	U	15	LOD	15	LOQ	ug/l	UJ	Fd

Sample ID: CH-MW016-01DUP **Collected:** 12/15/2016 3:00:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	3.8		0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
2-METHYLNAPHTHALENE	5.9		0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
ACENAPHTHENE	1.3		0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
ACENAPHTHYLENE	0.21	J	0.40	LOD	0.51	LOQ	ug/l	NP	RI, ProfJudg
ANTHRACENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
BENZ(A)ANTHRACENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
Benzo (g,h,i) perylene	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
BENZO(A)PYRENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
CHRYSENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
FLUORANTHENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
FLUORENE	0.34	J	0.40	LOD	0.51	LOQ	ug/l	NP	RI, ProfJudg
INDENO(1,2,3-CD)PYRENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
NAPHTHALENE	4.1		0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
PHENANTHRENE	2.0		0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg
PYRENE	0.40	U	0.40	LOD	0.51	LOQ	ug/l	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **SVOA**

Method: **8270D** ***Matrix:*** **WATER**

Sample ID: **CH-MW018-01** ***Collected:*** **12/15/2016 3:40:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
2-METHYLNAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ACENAPHTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ACENAPHTHYLENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZ(A)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
Benzo (g,h,i) perylene	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(A)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
CHRYSENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
NAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
PHENANTHRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg

Sample ID: **CH-MW019-01** ***Collected:*** **12/15/2016 12:10:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
2-METHYLNAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ACENAPHTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ACENAPHTHYLENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZ(A)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
Benzo (g,h,i) perylene	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(A)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(B)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
BENZO(K)FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: SVOA

Method: 8270D **Matrix: WATER**

Sample ID: CH-MW019-01 **Collected:** 12/15/2016 12:10:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
DIBENZO(A,H)ANTHRACENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORANTHENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
FLUORENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
INDENO(1,2,3-CD)PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
NAPHTHALENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
PHENANTHRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg
PYRENE	0.40	U	0.40	LOD	0.50	LOQ	ug/l	NP	ProfJudg

Method Category: SVOA

Method: 8270D SIM **Matrix: WATER**

Sample ID: CH-MW016-01 **Collected:** 12/15/2016 3:00:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.060		0.040	LOD	0.050	LOQ	ug/l	J	Fd

Sample ID: CH-MW016-01DUP **Collected:** 12/15/2016 3:00:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.042	J	0.040	LOD	0.051	LOQ	ug/l	J	Rl, Fd

Sample ID: CH-MW018-01 **Collected:** 12/15/2016 3:40:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.026	J	0.040	LOD	0.050	LOQ	ug/l	J	Rl
2-METHYLNAPHTHALENE	0.018	J	0.040	LOD	0.050	LOQ	ug/l	U	Mb
ACENAPHTHENE	0.023	J	0.040	LOD	0.050	LOQ	ug/l	J	Rl
NAPHTHALENE	0.045	J	0.060	LOD	0.060	LOQ	ug/l	U	Mb

* denotes a non-reportable result

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **WATER**

Sample ID: **CH-MW019-01** ***Collected:*** **12/15/2016 12:10:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.011	J	0.040	LOD	0.050	LOQ	ug/l	J	Rl
2-METHYLNAPHTHALENE	0.014	J	0.040	LOD	0.050	LOQ	ug/l	U	Mb
NAPHTHALENE	0.037	J	0.060	LOD	0.060	LOQ	ug/l	U	Mb

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **WATER**

Sample ID: **CH-MW016-01** ***Collected:*** **12/15/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHENE	0.6	J	1	LOD	1	LOQ	ug/l	J	Rl, Fd
CYCLOHEXANE	3	J	4	LOD	5	LOQ	ug/l	J	Rl
m/p-Xylene [3/4-Xylene]	1	U	1	LOD	1	LOQ	ug/l	UJ	Fd
TETRACHLOROETHENE	0.6	J	1	LOD	1	LOQ	ug/l	J	Rl
Xylene (Total)	1	U	1	LOD	1	LOQ	ug/l	UJ	Fd

Sample ID: **CH-MW016-01DUP** ***Collected:*** **12/15/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHENE	1	U	1	LOD	1	LOQ	ug/l	UJ	Fd
CYCLOHEXANE	3	J	4	LOD	5	LOQ	ug/l	J	Rl
m/p-Xylene [3/4-Xylene]	0.5	J	1	LOD	1	LOQ	ug/l	J	Rl, Fd
TETRACHLOROETHENE	0.6	J	1	LOD	1	LOQ	ug/l	J	Rl
Xylene (Total)	0.5	J	1	LOD	1	LOQ	ug/l	J	Rl, Fd

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Method Blank Outlier Report

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D SIM**
Matrix: **WATER**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWF00B006WAF026	1/6/2017 9:30:00 PM	2-METHYLNAPHTHALENE NAPHTHALENE	0.012 ug/l 0.034 ug/l	CH-MW016-01 CH-MW016-01DUP CH-MW018-01 CH-MW019-01

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
CH-MW018-01(Initial/TOT)	2-METHYLNAPHTHALENE	0.018 ug/l	0.050U ug/l
CH-MW018-01(Initial/TOT)	NAPHTHALENE	0.045 ug/l	0.060U ug/l
CH-MW019-01(Initial/TOT)	2-METHYLNAPHTHALENE	0.014 ug/l	0.050U ug/l
CH-MW019-01(Initial/TOT)	NAPHTHALENE	0.037 ug/l	0.060U ug/l

Surrogate Outlier Report

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **WATER**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
CH-MW016-01 (Initial/TOT)	2-FLUOROPHENOL	16	19.00-119.00	No Affected Compounds	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: **8270D**
Matrix: **WATER**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
P5WJLCSQ355WAJ026 (CH-MW016-01 CH-MW016-01DUP CH-MW018-01 CH-MW019-01)	HEXACHLOROCYCLOPENTADIEN	83	-	10.00-81.00	-	HEXACHLOROCYCLOPENTADIE	J+ (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW016-01	ALUMINUM	J	73.4	200	LOQ	ug/l	
	IRON	J	104	200	LOQ	ug/l	
	NICKEL	J	1.1	4.0	LOQ	ug/l	J (all detects)
	VANADIUM	J	0.41	1.0	LOQ	ug/l	
	ZINC	J	4.8	30.0	LOQ	ug/l	
CH-MW016-01DUP	ALUMINUM	J	78.6	200	LOQ	ug/l	
	IRON	J	142	200	LOQ	ug/l	
	NICKEL	J	1.2	4.0	LOQ	ug/l	J (all detects)
	VANADIUM	J	0.64	1.0	LOQ	ug/l	
	ZINC	J	3.8	30.0	LOQ	ug/l	
CH-MW016-01-F	COPPER	J	0.67	4.0	LOQ	ug/l	
	IRON	J	38.8	200	LOQ	ug/l	
	NICKEL	J	1.2	4.0	LOQ	ug/l	J (all detects)
	VANADIUM	J	0.28	1.0	LOQ	ug/l	
	ZINC	J	4.0	30.0	LOQ	ug/l	
CH-MW016-01-FDUP	IRON	J	39.4	200	LOQ	ug/l	
	NICKEL	J	1.1	4.0	LOQ	ug/l	J (all detects)
	VANADIUM	J	0.40	1.0	LOQ	ug/l	
CH-MW018-01	CHROMIUM	J	1.4	4.0	LOQ	ug/l	
	COPPER	J	0.92	4.0	LOQ	ug/l	J (all detects)
	LEAD	J	0.45	2.0	LOQ	ug/l	
	ZINC	J	7.2	30.0	LOQ	ug/l	
CH-MW018-01-F	ALUMINUM	J	90.7	200	LOQ	ug/l	
	CHROMIUM	J	1.1	4.0	LOQ	ug/l	J (all detects)
	VANADIUM	J	0.75	1.0	LOQ	ug/l	
	ZINC	J	4.1	30.0	LOQ	ug/l	
CH-MW019-01	CADMIUM	J	0.20	1.0	LOQ	ug/l	J (all detects)
CH-MW019-01-F	THALLIUM	J	0.62	1.0	LOQ	ug/l	J (all detects)

Method: 7470A

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW019-01	MERCURY	J	0.11	0.20	LOQ	ug/l	J (all detects)

Method: 8260C

Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW016-01	1,1-DICHLOROETHENE	J	0.6	1	LOQ	ug/l	
	CYCLOHEXANE	J	3	5	LOQ	ug/l	J (all detects)
	TETRACHLOROETHENE	J	0.6	1	LOQ	ug/l	

Reporting Limit Outliers

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8260C
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW016-01DUP	CYCLOHEXANE	J	3	5	LOQ	ug/l	J (all detects)
	m/p-Xylene [3/4-Xylene]	J	0.5	1	LOQ	ug/l	
	TETRACHLOROETHENE	J	0.6	1	LOQ	ug/l	
	Xylene (Total)	J	0.5	1	LOQ	ug/l	

Method: 8270D
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW016-01	ACENAPHTHYLENE	J	0.18	0.50	LOQ	ug/l	J (all detects)
	BENZOIC ACID	J	8.2	15	LOQ	ug/l	
	FLUORENE	J	0.30	0.50	LOQ	ug/l	
CH-MW016-01DUP	ACENAPHTHYLENE	J	0.21	0.51	LOQ	ug/l	J (all detects)
	FLUORENE	J	0.34	0.51	LOQ	ug/l	

Method: 8270D SIM
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW016-01DUP	ANTHRACENE	J	0.042	0.051	LOQ	ug/l	J (all detects)
CH-MW018-01	1-METHYLNAPHTHALENE	J	0.026	0.050	LOQ	ug/l	J (all detects)
	2-METHYLNAPHTHALENE	J	0.018	0.050	LOQ	ug/l	
	ACENAPHTHENE	J	0.023	0.050	LOQ	ug/l	
	NAPHTHALENE	J	0.045	0.060	LOQ	ug/l	
CH-MW019-01	1-METHYLNAPHTHALENE	J	0.011	0.050	LOQ	ug/l	J (all detects)
	2-METHYLNAPHTHALENE	J	0.014	0.050	LOQ	ug/l	
	NAPHTHALENE	J	0.037	0.060	LOQ	ug/l	

Method: Calculation
Matrix: WATER

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
CH-MW018-01	TRIVALENT CHROMIUM	J	1.4	4.0	LOQ	ug/l	J (all detects)
CH-MW018-01-F	TRIVALENT CHROMIUM	J	1.1	4.0	LOQ	ug/l	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 6020A
Matrix: WATER

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW016-01-F (Dissolved)	CH-MW016-01-FDUP (Dissolved)			
BARIUM	49.9	53.0	6	30.00	No Qualifiers Applied
CALCIUM	26800	27300	2	30.00	
COBALT	2.3	2.3	0	30.00	
IRON	38.8	39.4	2	30.00	
MAGNESIUM	21200	22100	4	30.00	
MANGANESE	877	910	4	30.00	
NICKEL	1.2	1.1	9	30.00	
POTASSIUM	3120	3360	7	30.00	
SODIUM	40600	42400	4	30.00	
COPPER	0.67	4.0 U	200	30.00	J(all detects) UJ(all non-detects)
VANADIUM	0.28	0.40	35	30.00	
ZINC	4.0	30.0 U	200	30.00	

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW016-01 (Total)	CH-MW016-01DUP (Total)			
ALUMINUM	73.4	78.6	7	30.00	No Qualifiers Applied
BARIUM	49.2	50.4	2	30.00	
CALCIUM	27400	26600	3	30.00	
COBALT	2.4	2.5	4	30.00	
MAGNESIUM	21000	21000	0	30.00	
MANGANESE	879	861	2	30.00	
NICKEL	1.1	1.2	9	30.00	
POTASSIUM	3270	3210	2	30.00	
SODIUM	43400	43300	0	30.00	
ZINC	4.8	3.8	23	30.00	
IRON	104	142	31	30.00	J(all detects) UJ(all non-detects)
VANADIUM	0.41	0.64	44	30.00	

Method: 8260C
Matrix: WATER

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW016-01	CH-MW016-01DUP			
1,1-DICHLOROETHANE	1	1	0	30.00	No Qualifiers Applied
BENZENE	1	1	0	30.00	
CIS-1,2-DICHLOROETHENE	13	13	0	30.00	
CYCLOHEXANE	3	3	0	30.00	
ETHYLBENZENE	2	2	0	30.00	
ISOPROPYLBENZENE	8	8	0	30.00	
TETRACHLOROETHENE	0.6	0.6	0	30.00	
TRICHLOROETHENE	29	29	0	30.00	
1,1-DICHLOROETHENE	0.6	1 U	200	30.00	J(all detects) UJ(all non-detects)
m/p-Xylene [3/4-Xylene]	1 U	0.5	200	30.00	
Xylene (Total)	1 U	0.5	200	30.00	

Project Name and Number: Camp Hero - USACE Project: USACE Project: USACE Project: Camp Hero

Field Duplicate RPD Report

Lab Reporting Batch ID: APP15 **Laboratory: LLL**

EDD Filename: APP15-A_2a_1_rev **eQAPP Name: CAMP_HERO_NP**

Method: 8270D SIM
Matrix: WATER

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW016-01	CH-MW016-01DUP			
1-METHYLNAPHTHALENE	3.4	3.7	8	30.00	
2-METHYLNAPHTHALENE	5.5	6.4	15	30.00	
ACENAPHTHENE	0.95	1.1	15	30.00	
ACENAPHTHYLENE	0.14	0.15	7	30.00	No Qualifiers Applied
FLUORENE	0.18	0.22	20	30.00	
NAPHTHALENE	3.1	4.0	25	30.00	
PHENANTHRENE	1.5	1.3	14	30.00	
ANTHRACENE	0.060	0.042	35	30.00	J(all detects) UJ(all non-detects)

Method: 8270D
Matrix: WATER

Analyte	Concentration (ug/l)		Sample RPD	eQAPP RPD	Flag
	CH-MW016-01	CH-MW016-01DUP			
1,1-BIPHENYL	10	12	18	30.00	
1-METHYLNAPHTHALENE	3.1	3.8	20	30.00	
2-METHYLNAPHTHALENE	4.7	5.9	23	30.00	
ACENAPHTHENE	1.1	1.3	17	30.00	
ACENAPHTHYLENE	0.18	0.21	15	30.00	
CARBAZOLE	3.0	3.4	12	30.00	No Qualifiers Applied
DIBENZOFURAN	2.4	2.6	8	30.00	
FLUORENE	0.30	0.34	13	30.00	
NAPHTHALENE	3.1	4.1	28	30.00	
PHENANTHRENE	1.8	2.0	11	30.00	
BENZOIC ACID	8.2	15 U	200	30.00	J(all detects) UJ(all non-detects)

Attachment F4

Eurofins Lancaster Laboratories Environmental LLC (ELLE)
Corrective Action Summary Letter

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eurofins | Lancaster Laboratories Environmental

October 26, 2017

Mark MacEwan
AECOM
Senior Program Manager
3101 Wilson Blvd
Suite 900
Arlington, VA 22201

Subject: Eurofins Lancaster Laboratories Environmental LLC (ELLE) Corrective Action Summary for AECOM Camp Hero NY

Dear Mr. MacEwan,

Below is the summary of Eurofins Lancaster Laboratories Environmental LLC's (ELLE's) investigation and corrective action plan for the Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) data integrity issue that was initially communicated to your team on October 18, 2017. Our assessment of the impacted data is ongoing. Attached to this summary letter is a table of the affected data for AECOM Camp Hero NY, current as of October 26, 2017.

Background:

On September 14, 2017, a data validator contacted ELLE in regard to a result for which they were unable to confirm the value from ICP-MS data they were trying to validate. The Metals Department Manager (Robert Strocko) looked into the issue and determined that the reason the raw results did not match the result reported out of the Laboratory Information Management System (LIMS) was due to a manual change to the data import file. The following morning, Friday September 15, the Operations Director (Rick Karam), Quality Assurance (QA) Director (Dorothy Love) and Information Technology (IT) Manager (Holly Trego) were notified about the discrepancy. The IT Manager ran a comparison of data sets from the same instrument going back to January 2017 and found more instances of data changes. The changes were found to have been one digit in the record (i.e. 8938.514 to 7938.514) and were associated with only one employee. After notifying Human Resources, the Metals Department Manager, Operations Director, and QA Director met with the employee to discuss the issues with the data. During this meeting the employee admitted to making changes a few times. At that point their employment was immediately terminated. Executive management was notified of this issue and a full investigation into the scope of the data changes was launched.

Dorothy Love notified ELLE's primary TNI (The NELAC Institute) accreditation bodies of the issue by phone on Friday September 15, 2017. As the scope of the issue became more clear, and was shown to include Department of Defense (DoD) samples, additional notifications were required. Dorothy Love notified ELLE's DoD ELAP accrediting body (AB), American Association for Laboratory Accreditation (A2LA), of the DoD issue on September 19, 2017 per DoD ELAP accreditation requirements. A2LA in turn notified the DoD as is the established protocol.

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Impact Evaluation:

The IT Manager utilized a comparison query to look for discrepancies between the calculated result using the three replicate readings and the result that was originally reported in the LIMS. The changes were being made to the calculated result and not to the replicate readings, therefore we were able to recalculate from the instrument record and determine the value that should have been reported. This initial assessment was done for the instrument associated with the original suspect data set. Once it was determined that the employee had altered the data, we evaluated all ICP-MS data from every instrument back to January 1, 2015. It has been determined that the changes were only made by the terminated employee and spanned across four instruments. Three are Agilent and one is Perkin-Elmer. The Agilent instruments give the replicate readings in intensity. The intensity is then put through a calculation to determine the final result. Without knowledge of the calculation, the employee made the changes to the final result and not to the individual replicates, so we can recalculate the result using the initial instrument output file. The Perkin-Elmer comparison needs to be evaluated manually by comparing data records due to differences with the information as it comes off the instrument, and is only used to analyze drinking water samples. The Perkin-Elmer provides the replicate readings as a concentration. We have found that in some cases, the employee had changed the replicate reading but did not recalculate the associated Relative Standard Deviation (RSD). The comparisons to assess the data from the Perkin-Elmer instrument require re-importing the records to look for discrepancies. This review is taking longer as it requires manual intervention to import the data.

Rounding issues created challenges with the assessment but we were able to set a threshold based on review of data during a non-impacted cycle. This rationale and approach was confirmed as acceptable with a 3rd party statistician. The query comparison performed was able to confirm that the changes were only associated with this employee's data sets and only occurred in the time period from 6/21/2016 to 9/15/2017.

The vast majority of the data changes were made to Quality Control (QC) and/or calibration checks, not to actual sample results. Where we see sample result changes, these are primarily cases where the result exceeded the linear calibration range of the instrument and were changed to be slightly lower than the upper limit of the calibration range. There are a few cases where lower concentration results were changed. It is not clear as to the reason for these changes. For the majority of the cases, while the samples should have been reanalyzed, they were not and where there is no sample aliquot remaining to be reanalyzed within hold time, the data would now need to have a corresponding qualification added.

As of today, we have reviewed approximately 95% of the data. However, there are files from the Perkin-Elmer instrument that are being restored from archives which then need to be evaluated.

Client notification and reanalysis/qualification:

Notification to clients regarding affected projects was made on October 18, 2017. We established a toll free number that clients can use to connect with Eurofins designated

corrective action team to address any technical concerns and to provide additional detail. We are committed to working with your team and any applicable regulators to provide them with the necessary information concerning the impact upon the Camp Hero project data (result change vs QC qualification, etc.) related to this event.

Upon your request, revised reports, electronic data deliverables, and data packages with the corrected data and corresponding data qualifications will be provided. If valid sample aliquots are still available in the laboratory, ELLE will provide retesting free-of-charge, if needed. ELLE will work collaboratively with your team to resolve the potential need for resampling and reanalysis associated with this data quality issue.

Root cause:

The root cause of the data changes is that one employee made the decision to not follow established procedures and to deviate from our ethics and quality policies. The employee's motivation for this breach appears to have been a desire to avoid the time and effort necessary to clean and maintain his instruments and to avoid reanalysis of the samples as required in Eurofins standard operating procedures. The employee had completed the company mandated ethics training and had signed off on all relevant ethics and quality SOPs yet made the decision to make these changes. Interviews conducted with other analysts and supervisory personnel in the Metals Laboratory indicate that no other employees were aware that the employee was engaged in data manipulation. There were no indications that the employee was not acting in compliance with applicable ethics and quality policies.

The system used to transfer instrument data files into LIMS is not unique to ELLE; similar processes are used across the industry. That being said, it does create vulnerability and we are working to close that vulnerability within our system.

Corrective actions:

Our Ethics training for 2017 was conducted this past summer. The employee in question attended the training in June, signed the Ethics Statement and completed the quiz successfully. The training was clearly focused on what practices are acceptable and what practices are NOT acceptable,, and clearly stated that we do not tolerate ethics violations. The training included information about how our data is used to ensure that our staff understands the importance of data generated and reported to the client and to the world at large.

On October 24, 2017, an all employee meeting occurred that addressed this issue and expectations were again emphasized around the ethics policy and ethics statement. Upon completion of the investigation, another round of ethics training will be conducted.

The changes that the employee made were to the import file used to transfer the data from the instrument to the LIMS. We have implemented a daily automated comparison query to ensure that the data matches when it is imported so that no further data is being impacted. We are reviewing all other data transfer processes used for other areas of the laboratory to determine if

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there are vulnerabilities with the data files in those systems which can be locked down and/or monitored.

Upon completion of the investigation, all current and future correction actions will be reviewed, monitored, and fully implemented.

Commitment:

From day 1 of discovery of the data manipulation by this one employee, we assembled a team of people dedicated to determining the full scope of the issue, began the assessment of the impact to our clients, and provided our regulators with assurances that we will implement the necessary corrective action to remediate the data quality issue and prevent it from reoccurring. After completing our investigation to determine the magnitude of the data quality impacts, we are communicating our findings to our clients and are committed to working with them to remedy any harm that may have resulted from the incident. This team includes the ELLE President, Vice-President, Operations Director, QA Director, IT Manager, Metals Manager, Client Services Manager, Sales Director, Marketing Manager, and a dedicated project manager to oversee our progress. The team meets on a daily basis to ensure that we have covered all aspects and concerns and are completing the corrective actions required.

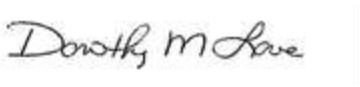
We take this breach of our protocol and policies very seriously and are committed to the actions and resources necessary to make it right.

Revised reports, SEDD files, and data packages will be submitted to AECOM no later than 5 pm on November 9, 2017 for the Camp Hero project.

Please let me know if anyone on your team or your client has any questions or need additional information. You can reach me at 717-556-7327 or via email at dorothylove@eurofinsus.com . Please note that the investigation is ongoing and we reserve the right to modify and/or supplement the information based upon the results of the investigation. Any additional information related to the Camp Hero program will be communicated to your team promptly.

Thank you.

Sincerely,



Dorothy Love
Director
Quality Assurance

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Attachment F5

Camp Hero Project Laboratory Subcontractor Data Quality Breach Letter

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AECOM-Tidewater JV
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January 30, 2018

Ms. Megan Cullen
Contracting Officer Representative
Department of the Army, New England District
U.S. Army Corps of Engineers
696 Virginia Road
Concord, Massachusetts, 01742-2751

Via Email: *megan.cullen@usace.army.mil*

RE: Camp Hero Project Laboratory Subcontractor Data Quality Breach

Dear Megan:

This letter is intended to document the laboratory data quality breach that occurred on the Camp Hero project as well as the actions that have been taken by the laboratory and AECOM-Tidewater Joint Venture (JV) project team to ensure that overall quality of the project remains at the highest level. The laboratory quality issue involves the laboratory subcontractor Eurofins Lancaster Laboratories Environmental LLC (ELLE) on the Camp Hero project being completed by AECOM-Tidewater JV on United States Army Corps of Engineers (USACE) contract W912DR-13-D-0016 and task order DB01. A total of approximately 15,000 analytical metals results from 596 samples in 33 sample delivery groups (SDGs) were potentially affected. These samples were collected during two field events: The Phase II remedial Investigation (RI) conducted in December 2016 and the Phase III RI conducted in June 2017. Based on the evaluation of this matter conducted by ELLE and AECOM Camp Hero project chemists (Ms. Devon Chicoine and Ms. Debbie Masonheimer), one of the 33 SDGs required re-analysis, 19 (0.13%) sample results required an actual value change, and 226 (1.6%) sample results required qualifier changes. Based on our review of the data and working with ELLE on this matter, it is our professional opinion that the resulting data is defensible and useable for the various evaluations to be conducted as part of the Camp Hero RI. Additional details are provided below.

On September 14, 2017, an external data validator contacted ELLE in regard to an inductively coupled plasma-mass spectrometer (ICP-MS) result for which could not be confirmed during the validation process. The ELLE metals department manager looked into the issue; it was determined that the reason that the raw result did not match the result presented in the report out of the Laboratory Information Management System (LIMS) was due to a manual change made by a single analyst to the data import file between the instrument and the LIMS. The analyst was questioned, admitted to falsifying numbers, and was subsequently terminated. Upon further review, ELLE determined that there were multiple instances where values were changed and a full-scale investigation was launched encompassing the terminated employee's tenure. The ELLE Quality Assurance (QA) manager notified their accreditation agency on 15 September 2017. When it was discovered that the scope of the breach affected Department of Defense (DoD) samples, ELLE notified their DoD accreditation agency, American Association of

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Accreditation Laboratories (A2LA) on 19 September 2017. ELLE continued to assess impact, and public health concerns (such as drinking water) were addressed first.

This data breach was verbally communicated to the AECOM chemists on 17 October 2017 and the USACE Camp Hero project COR and PM (Greg Goepfert) were notified via phone on 20 and 23 October 2017 respectively. A corrective action letter from ELLE was submitted to AECOM on 26 October 2017, which was provided to USACE on 1 November 2017. A complete timeline of events is provided in Attachment A. The ELLE Corrective Action Summary is included in Attachment B.

There were 33 Camp Hero data packages affected by the metals data breach in samples collected during the RI Phase II (4) and III (29) field events. AECOM chemists prepared a summary of the breach per data package and assessed the impact of each analyte, which is included in Attachment C. The comprehensive spreadsheets compiled by ELLE containing the metals breach items by data package and analyte were previously provided to the USACE chemist, Ms. Yixian Zhang.

Most of the changes were made to quality control (QC) results. Where sample results changed, it was due to results exceeding the linear calibration range of the instrument. The sample results were changed to be slightly lower than the upper limit of the calibration range. Sample analytes that exceeded the calibration range were reanalyzed where the samples were within holding time. Sample CH-MW016-02F and its matrix spike/matrix spike duplicate manganese results in SDG APP62 originally exceeded the linear range of the instrument. The samples were reanalyzed and the re-analyzed results were diluted to be within the linear range.

AECOM received all of the revised Level II and Level IV lab reports for the 33 metals SDGs impacted by the data breach by 9 November 2017. Only 14 Staged Electronic Data Deliverable (SEDD) files were impacted out of the 33 SDGs since instrument calibration data are not part of the required SEDD files. The laboratory provided SEDD as Stage 2a files which consisted of project and laboratory quality control samples. AECOM prepared a summary of issues per SDG and reviewed the issues with Ms. Zhang. AECOM chemists proposed to complete a more in-depth review of the calibration issues. The independent calibration review was performed by an AECOM senior validation chemist (Mr. Steve Szocik) for one solid (APP34) and one aqueous (APP61) SDG. The two data packages were representative of the calibration-related impacts noted by ELLE including low level calibration check (LLC) compliance issues with multiple analytes.

For APP34, the LLC exhibited percent recoveries (%R) less than 10% for most of the target metals. ELLE indicated that the LLC may have been a blank sample and may not be indicative of the accuracy of the analytical system. ELLE suggested that the lab control sample (LCS) be used to confirm low level validity. The non-compliant LLC appeared to be an isolated incident based on the acceptable percent recovery (%R) of the other LLC samples reported for this SDG. Following the calibration review, AECOM determined that there were 18 samples for DU04 in SDG APP34 that required reanalysis due to multiple QC failures at the lower end of the calibration range. The 18 samples were reanalyzed within the holding time for metals and reported in SDG APP77. APP34 was the only SDG with LLC values at less than 75 %R (the QC range is 80-120 %R).

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For APP61, the recoveries were acceptable in the LLC except for a few analytes (aluminum at 132%, calcium at 126% and barium at 125%). The high LLC recoveries do not affect analytes not detected. A single aluminum detection was observed in one instrument blank, which caused two samples to have estimated results (CH-MW020-02 and CH-MW024-02).

In summary, there were a few detections in the instrument blanks and interference check standards across the 33 SDGs that were flagged for review. Out of approximately 15,200 metals results in the 33 SDGs, only 19 (0.13%) metals results required an actual value change. There were 226 (1.6%) results which required qualifier changes. Note that qualifier changes were only applied to sample results with exceedances in QC samples (blanks, LCS/LCSD, MS/MSD, etc.); no qualifiers were changed due to minor exceedances in calibration checks. The rejected metals results in SDG APP34 have acceptable results in SDG APP77, and are not included in the total count for result or qualifier changes. Additional details on the impacts of the metals data quality breach are discussed in data validation memos for the 33 SDGs that are included in the Camp Hero Phase III Field Report. Based on the information provided above, it is our professional opinion that the data is defensible and useable.

As for corrective actions, ELLE has proposed and implemented multiple procedural changes as outlined in the corrective action letter. AECOM has addressed this laboratory data quality breach through AECOM Design and Consulting Services Americas (DCS-A) Business Line Management, DCS-A Quality and Office of Risk Management, DCS-A Legal and Federal Contract and Procurement (FCAP). On future projects, we plan to independently verify activities provided in the ELLE corrective action plan. ELLE has notified AECOM that their DoD accreditation was never suspended or terminated due to this data quality breach. The accreditation agency, A2LA, has notified EELE that their proposed corrective actions were acceptable. A copy of the correspondence from A2LA to ELLE is provided in Attachment B.

We welcome any feedback on our management and execution of this unfortunate situation. Please contact me at 703-682-9092 or mark.macewan@aecom.com if you have any questions or require any additional information.

Sincerely,

Mark MacEwan

Mark MacEwan, P.E.
Project Manager, AECOM-Tidewater JV

Attachments

Cc: Greg Goepfert, P.E., PMP	USACE New York District, Project Manager
Yixian Zhang	USACE New England District, Project Chemist
Megan Donahue, P.G.	AECOM Deputy Project Manager
Mark Kauffman, P.E.	AECOM HTRW Advisor
Devon Chicoine	AECOM Project Chemist
Debbie Masonheimer	AECOM Project Chemist
Amanda Martin	AECOM Project Engineer

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Attachment A: Laboratory Data Quality Breach Timeline

Date	Parties Involved	Discussion
10/17/2017	AECOM and ELLE	Initial call regarding data breach
10/18/2017	ELLE QA manager	Email to all project contacts affected by the breach.
10/19/2017	AECOM and ELLE	Initial call regarding the breach to provide details to the project team. Weekly calls were scheduled between key personnel at ELLE and AECOM.
10/20/2017	ELLE Account Manager	Received a list of nearly 600 project samples that were affected by the breach. List was not detailed as to issues.
10/23/2017	AECOM	Provided a list of priority data packages and required ELLE to provide additional details for those packages.
10/26/2017	ELLE QA Manager	Released impact memo for AECOM to provide to USACE
10/30/2017	ELLE Operations Vice President	ELLE provided a spreadsheet summarizing all impacted metal results for the 33 data packages
10/30/2017	AECOM	Requested some samples be reanalyzed due to results exceeding upper calibration limit.
11/7/2017	AECOM	Prepared summary of metals breach issues
11/9/2017	ELLE Account Manager	ELLE provided all Level II reports, SEDDs, and Level IV reports regarding the breach.
11/13/2017	USACE and AECOM chemists	Ms. Zhang requested a calibration review after receiving the laboratory summary spreadsheet. Both parties agreed that two packages (one aqueous and one solid) would be reviewed.
11/15/2017	AECOM	Started the calibration form review by AECOM senior chemist, redoing validation, data validation memos, entering qualifiers, etc.
11/29/2017	USACE and AECOM chemists	CH Metals Breach Summary - Ms. Zhang requested a revised excel spreadsheet to provide more details. She was concerned with APP34 where 17 metals had a low to no recovery in the low level calibration (LLC) solution
11/30/2017	USACE bi-weekly call	AECOM notified USACE that APP34 metals results with low recoveries in the LLC solution would be rejected and that ELLE was instructed to reanalyze. Preliminary results were requested by 12/7/2017.
12/8/2017	ELLE	Re-prepared and analyzed replacement metals package APP77 received. SEDD files and data packages were received on 12/8/2017
12/13/2017	USACE and AECOM chemists	A comparison table of the APP34 and APP77 was sent to Ms. Zhang and she responded “It appears that the results from the re-analysis (APP77) are in general comparable to the results from the original analysis (APP34), indicating that QC failures at the lower end of the calibration range in APP34 was likely a result of mis-injection of a blank solution”.
12/9/2017	AECOM	Field Report for phase III released with corrected data packages.

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Attachment B: ELLE Corrective Action Letter and Response Letter from A2LA Accreditation Company

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October 26, 2017

Mark MacEwan
AECOM
Senior Program Manager
3101 Wilson Blvd
Suite 900
Arlington, VA 22201

Subject: Eurofins Lancaster Laboratories Environmental LLC (ELLE) Corrective Action Summary for AECOM Camp Hero NY

Dear Mr. MacEwan,

Below is the summary of Eurofins Lancaster Laboratories Environmental LLC's (ELLE's) investigation and corrective action plan for the Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) data integrity issue that was initially communicated to your team on October 18, 2017. Our assessment of the impacted data is ongoing. Attached to this summary letter is a table of the affected data for AECOM Camp Hero NY, current as of October 26, 2017.

Background:

On September 14, 2017, a data validator contacted ELLE in regard to a result for which they were unable to confirm the value from ICP-MS data they were trying to validate. The Metals Department Manager (Robert Strocko) looked into the issue and determined that the reason the raw results did not match the result reported out of the Laboratory Information Management System (LIMS) was due to a manual change to the data import file. The following morning, Friday September 15, the Operations Director (Rick Karam), Quality Assurance (QA) Director (Dorothy Love) and Information Technology (IT) Manager (Holly Trego) were notified about the discrepancy. The IT Manager ran a comparison of data sets from the same instrument going back to January 2017 and found more instances of data changes. The changes were found to have been one digit in the record (i.e. 8938.514 to 7938.514) and were associated with only one employee. After notifying Human Resources, the Metals Department Manager, Operations Director, and QA Director met with the employee to discuss the issues with the data. During this meeting the employee admitted to making changes a few times. At that point their employment was immediately terminated. Executive management was notified of this issue and a full investigation into the scope of the data changes was launched.

Dorothy Love notified ELLE's primary TNI (The NELAC Institute) accreditation bodies of the issue by phone on Friday September 15, 2017. As the scope of the issue became more clear, and was shown to include Department of Defense (DoD) samples, additional notifications were required. Dorothy Love notified ELLE's DoD ELAP accrediting body (AB), American Association for Laboratory Accreditation (A2LA), of the DoD issue on September 19, 2017 per DoD ELAP accreditation requirements. A2LA in turn notified the DoD as is the established protocol.

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Impact Evaluation:

The IT Manager utilized a comparison query to look for discrepancies between the calculated result using the three replicate readings and the result that was originally reported in the LIMS. The changes were being made to the calculated result and not to the replicate readings, therefore we were able to recalculate from the instrument record and determine the value that should have been reported. This initial assessment was done for the instrument associated with the original suspect data set. Once it was determined that the employee had altered the data, we evaluated all ICP-MS data from every instrument back to January 1, 2015. It has been determined that the changes were only made by the terminated employee and spanned across four instruments. Three are Agilent and one is Perkin-Elmer. The Agilent instruments give the replicate readings in intensity. The intensity is then put through a calculation to determine the final result. Without knowledge of the calculation, the employee made the changes to the final result and not to the individual replicates, so we can recalculate the result using the initial instrument output file. The Perkin-Elmer comparison needs to be evaluated manually by comparing data records due to differences with the information as it comes off the instrument, and is only used to analyze drinking water samples. The Perkin-Elmer provides the replicate readings as a concentration. We have found that in some cases, the employee had changed the replicate reading but did not recalculate the associated Relative Standard Deviation (RSD). The comparisons to assess the data from the Perkin-Elmer instrument require re-importing the records to look for discrepancies. This review is taking longer as it requires manual intervention to import the data.

Rounding issues created challenges with the assessment but we were able to set a threshold based on review of data during a non-impacted cycle. This rationale and approach was confirmed as acceptable with a 3rd party statistician. The query comparison performed was able to confirm that the changes were only associated with this employee's data sets and only occurred in the time period from 6/21/2016 to 9/15/2017.

The vast majority of the data changes were made to Quality Control (QC) and/or calibration checks, not to actual sample results. Where we see sample result changes, these are primarily cases where the result exceeded the linear calibration range of the instrument and were changed to be slightly lower than the upper limit of the calibration range. There are a few cases where lower concentration results were changed. It is not clear as to the reason for these changes. For the majority of the cases, while the samples should have been reanalyzed, they were not and where there is no sample aliquot remaining to be reanalyzed within hold time, the data would now need to have a corresponding qualification added.

As of today, we have reviewed approximately 95% of the data. However, there are files from the Perkin-Elmer instrument that are being restored from archives which then need to be evaluated.

Client notification and reanalysis/qualification:

Notification to clients regarding affected projects was made on October 18, 2017. We established a toll free number that clients can use to connect with Eurofins designated

corrective action team to address any technical concerns and to provide additional detail. We are committed to working with your team and any applicable regulators to provide them with the necessary information concerning the impact upon the Camp Hero project data (result change vs QC qualification, etc.) related to this event.

Upon your request, revised reports, electronic data deliverables, and data packages with the corrected data and corresponding data qualifications will be provided. If valid sample aliquots are still available in the laboratory, ELLE will provide retesting free-of-charge, if needed. ELLE will work collaboratively with your team to resolve the potential need for resampling and reanalysis associated with this data quality issue.

Root cause:

The root cause of the data changes is that one employee made the decision to not follow established procedures and to deviate from our ethics and quality policies. The employee's motivation for this breach appears to have been a desire to avoid the time and effort necessary to clean and maintain his instruments and to avoid reanalysis of the samples as required in Eurofins standard operating procedures. The employee had completed the company mandated ethics training and had signed off on all relevant ethics and quality SOPs yet made the decision to make these changes. Interviews conducted with other analysts and supervisory personnel in the Metals Laboratory indicate that no other employees were aware that the employee was engaged in data manipulation. There were no indications that the employee was not acting in compliance with applicable ethics and quality policies.

The system used to transfer instrument data files into LIMS is not unique to ELLE; similar processes are used across the industry. That being said, it does create vulnerability and we are working to close that vulnerability within our system.

Corrective actions:

Our Ethics training for 2017 was conducted this past summer. The employee in question attended the training in June, signed the Ethics Statement and completed the quiz successfully. The training was clearly focused on what practices are acceptable and what practices are NOT acceptable,, and clearly stated that we do not tolerate ethics violations. The training included information about how our data is used to ensure that our staff understands the importance of data generated and reported to the client and to the world at large.

On October 24, 2017, an all employee meeting occurred that addressed this issue and expectations were again emphasized around the ethics policy and ethics statement. Upon completion of the investigation, another round of ethics training will be conducted.

The changes that the employee made were to the import file used to transfer the data from the instrument to the LIMS. We have implemented a daily automated comparison query to ensure that the data matches when it is imported so that no further data is being impacted. We are reviewing all other data transfer processes used for other areas of the laboratory to determine if

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there are vulnerabilities with the data files in those systems which can be locked down and/or monitored.

Upon completion of the investigation, all current and future correction actions will be reviewed, monitored, and fully implemented.

Commitment:

From day 1 of discovery of the data manipulation by this one employee, we assembled a team of people dedicated to determining the full scope of the issue, began the assessment of the impact to our clients, and provided our regulators with assurances that we will implement the necessary corrective action to remediate the data quality issue and prevent it from reoccurring. After completing our investigation to determine the magnitude of the data quality impacts, we are communicating our findings to our clients and are committed to working with them to remedy any harm that may have resulted from the incident. This team includes the ELLE President, Vice-President, Operations Director, QA Director, IT Manager, Metals Manager, Client Services Manager, Sales Director, Marketing Manager, and a dedicated project manager to oversee our progress. The team meets on a daily basis to ensure that we have covered all aspects and concerns and are completing the corrective actions required.

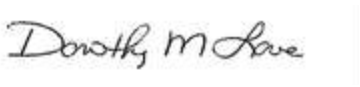
We take this breach of our protocol and policies very seriously and are committed to the actions and resources necessary to make it right.

Revised reports, SEDD files, and data packages will be submitted to AECOM no later than 5 pm on November 9, 2017 for the Camp Hero project.

Please let me know if anyone on your team or your client has any questions or need additional information. You can reach me at 717-556-7327 or via email at dorothylove@eurofinsus.com . Please note that the investigation is ongoing and we reserve the right to modify and/or supplement the information based upon the results of the investigation. Any additional information related to the Camp Hero program will be communicated to your team promptly.

Thank you.

Sincerely,



Dorothy Love
Director
Quality Assurance

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Client	AECOM
Account	19891
Project	Camp Hero
State	NY
Date	October 26, 2017

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1743301	APP03	12/08/2016 16:40:00	8740003	12/21/2016 10:23:00	EB-20161208-01 Water	163510639005A
1743301	APP03	12/11/2016 15:43:00	8740007	12/21/2016 10:04:00	CH-MW002-01 Water	163510639005A
1743301	APP03	12/11/2016 15:43:00	8740008	12/21/2016 10:13:00	CH-MW002-01MS Water	163510639005A
1743301	APP03	12/11/2016 15:43:00	8740009	12/21/2016 10:17:00	CH-MW002-01MSD Water	163510639005A
1743301	APP03	12/11/2016 15:43:00	8740013	12/21/2016 10:10:00	CH-MW002-01_Duplicate Water	163510639005A
1743301	APP03	12/11/2016 15:43:00	8740021	12/21/2016 10:26:00	CH-MW002-01DUP Water	163510639005A
1744901	APP08	12/12/2016 14:05:00	8746391	12/28/2016 00:14:59	203-SB30-01 Soil	163540637002A
1744901	APP08	12/12/2016 14:18:00	8746392	12/28/2016 00:18:03	203-SB30-10 Soil	163540637002A
1744901	APP08	12/12/2016 14:33:00	8746393	12/28/2016 00:27:22	203-SB34-01 Soil	163540637002A
1744901	APP08	12/12/2016 14:40:00	8746394	12/28/2016 00:30:28	203-SB34-10 Soil	163540637002A
1744901	APP08	12/12/2016 15:23:00	8746395	12/28/2016 00:33:43	203-SB21-01 Soil	163540637002A
1744901	APP08	12/12/2016 16:13:00	8746396	12/28/2016 00:36:49	203-SB21-24 Soil	163540637002A
1744901	APP08	12/12/2016 15:00:00	8746397	12/28/2016 00:39:54	203-SB32-01 Soil	163540637002A
1744901	APP08	12/12/2016 15:10:00	8746398	12/28/2016 00:42:58	203-SB32-09 Soil	163540637002A
1744901	APP08	12/13/2016 08:46:00	8746399	12/28/2016 00:46:11	203-SB20-24 Soil	163540637002A
1744901	APP08	12/13/2016 07:55:00	8746400	12/27/2016 23:56:21	203-SB20-01 Soil	163540637002A
1744901	APP08	12/13/2016 07:55:00	8746401	12/28/2016 00:05:33	203-SB20-01MS Soil	163540637002A
1744901	APP08	12/13/2016 07:55:00	8746402	12/28/2016 00:08:48	203-SB20-01MSD Soil	163540637002A
1744901	APP08	12/13/2016 07:55:00	8746406	12/28/2016 00:02:29	203-SB20-01_Duplicate Soil	163540637002A
1744901	APP08	12/13/2016 09:00:00	8746407	12/28/2016 00:49:16	203-SB18-01 Soil	163540637002A
1744901	APP08	12/13/2016 09:38:00	8746408	12/28/2016 00:52:20	203-SB18-18 Soil	163540637002A
1744901	APP08	12/13/2016 09:44:00	8746409	12/28/2016 00:55:24	203-SB18-23 Soil	163540637002A
1744901	APP08	12/13/2016 11:53:00	8746410	12/28/2016 01:04:46	203-SB14-01 Soil	163540637002A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1744901	APP08	12/13/2016 12:44:00	8746411	12/28/2016 01:07:52	203-SB14-24 Soil	163540637002A
1744901	APP08	12/13/2016 12:44:00	8746412	12/28/2016 01:11:05	203-SB14-24DUP Soil	163540637002A
1744901	APP08	12/13/2016 10:23:00	8746413	12/28/2016 01:14:10	203-SB15-01 Soil	163540637002A
1744901	APP08	12/13/2016 11:34:00	8746414	12/28/2016 01:17:16	203-SB15-28 Soil	163540637002A
1744901	APP08	12/13/2016 14:07:00	8746415	12/28/2016 01:20:22	203-SB09-01 Soil	163540637002A
1744921	APP10	12/12/2016 09:30:00	8746464	12/21/2016 10:35:00	CH-MW013-01 Water	163510639005A
1744921	APP10	12/12/2016 13:25:00	8746466	12/21/2016 10:38:00	CH-MW014-01 Water	163510639005A
1744921	APP10	12/13/2016 10:25:00	8746468	12/22/2016 19:30:57	CH-MW001-01 Water	163510639005A
1744921	APP10	12/13/2016 08:20:00	8746470	12/21/2016 10:44:00	CH-MW003-01 Water	163510639005A
1744921	APP10	12/13/2016 09:30:00	8746472	12/21/2016 10:47:00	CH-MW004-01 Water	163510639005A
1744921	APP10	12/13/2016 09:30:00	8746474	12/21/2016 10:50:00	CH-MW004-01DUP Water	163510639005A
1744921	APP10	12/13/2016 12:00:00	8746476	12/21/2016 10:53:00	CH-MW005-01 Water	163510639005A
1744921	APP10	12/13/2016 13:20:00	8746480	12/21/2016 10:56:00	EB-20161213-01 Water	163510639005A
1744921	APP10	12/13/2016 14:30:00	8746481	12/21/2016 10:59:00	CH-MW009-01 Water	163510639005A
1744921	APP10	12/13/2016 12:15:00	8746483	12/21/2016 11:02:00	CH-MW010-01 Water	163510639005A
1744921	APP10	12/13/2016 15:30:00	8746485	12/21/2016 11:11:00	CH-MW012-01 Water	163510639005A
1746252	APP11	12/14/2016 09:55:00	8752809	12/30/2016 06:45:42	203-SB16-01DUP Soil	163560637003A
1808833	APP17	06/01/2017 13:30:00	9027218	06/19/2017 10:03:20	CH-SWSD108-SE01 Sediment	171571063701B
1808833	APP17	06/01/2017 12:40:00	9027219	06/19/2017 10:20:38	CH-SWSD109-SE01 Sediment	171571063701B
1808833	APP17	06/01/2017 12:10:00	9027220	06/19/2017 10:23:31	CH-SWSD110-SE01 Sediment	171571063701B
1808833	APP17	06/01/2017 12:10:00	9027221	06/19/2017 10:32:06	CH-SWSD110-SE01D Sediment	171571063701A
1808833	APP17	06/01/2017 13:50:00	9027222	06/19/2017 10:34:57	CH-SWSD107-SE01 Sediment	171571063701A
1808833	APP17	06/01/2017 14:15:00	9027223	06/19/2017 10:37:49	CH-SWSD106-SE01 Sediment	171571063701A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1808833	APP17	06/01/2017 14:30:00	9027224	06/19/2017 10:40:39	CH-SWSD101-SE01 Sediment	171571063701A
1808833	APP17	06/01/2017 15:15:00	9027225	06/19/2017 10:43:41	CH-SWSD102-SE01 Sediment	171571063701A
1808833	APP17	06/01/2017 16:15:00	9027226	06/19/2017 10:46:32	CH-SWSD105-SE01 Sediment	171571063701A
1808833	APP17	06/01/2017 16:15:00	9027227	06/19/2017 10:49:26	CH-SWSD105-SE01D Sediment	171571063701A
1808833	APP17	06/01/2017 15:40:00	9027228	06/19/2017 10:52:17	CH-SWSD103-SE01 Sediment	171571063701A
1808833	APP17	06/01/2017 15:50:00	9027229	06/19/2017 10:55:08	CH-SWSD104-SE01 Sediment	171571063701A
1808833	APP17	06/02/2017 08:55:00	9027230	06/19/2017 10:58:00	CH-SWSD066-SE01 Sediment	171571063701A
1808833	APP17	06/02/2017 09:15:00	9027231	06/19/2017 11:06:34	CH-SWSD067-SE01 Sediment	171571063701A
1808835	APP18	06/02/2017 11:30:00	9027234	06/19/2017 11:09:24	CH-SWSD074-SE01 Sediment	171571063701A
1808835	APP18	06/02/2017 10:52:00	9027235	06/19/2017 11:12:16	CH-SWSD072-SE01 Sediment	171571063701A
1808835	APP18	06/02/2017 10:45:00	9027236	06/19/2017 11:15:07	CH-SWSD071-SE01 Sediment	171571063701A
1808835	APP18	06/02/2017 11:15:00	9027237	06/20/2017 07:57:30	CH-SWSD073-SE01 Sediment	171571063701B
1808836	APP19	06/02/2017 11:20:00	9027240	06/14/2017 12:47:36	CH-SWSD074-SW01-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 11:30:00	9027246	06/14/2017 12:36:38	CH-SWSD110-SW01-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 11:30:00	9027247	06/14/2017 12:42:07	CH-SWSD110-SW01MS-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 11:30:00	9027248	06/14/2017 12:43:58	CH-SWSD110-SW01MSD-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 11:30:00	9027249	06/14/2017 12:40:19	CH-SWSD110-SW01DUP-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 13:00:00	9027251	06/14/2017 12:53:05	CH-SWSD108-SW01-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 12:15:00	9027253	06/14/2017 12:54:56	CH-SWSD109-SW01-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 13:45:00	9027255	06/14/2017 12:56:47	CH-SWSD107-SW01-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 14:00:00	9027257	06/14/2017 12:58:38	CH-SWSD106-SW01-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 15:30:00	9027259	06/14/2017 13:00:28	CH-SWSD103-SW01-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 15:00:00	9027261	06/14/2017 13:02:17	CH-SWSD102-SW01-F Filtered Water	171561063904A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1808838	APP20	06/01/2017 14:20:00	9027263	06/14/2017 13:04:08	CH-SWSD101-SW01-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 16:00:00	9027265	06/14/2017 13:05:58	CH-SWSD105-SW01-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 16:00:00	9027267	06/14/2017 13:07:49	CH-SWSD105-SW01D-F Filtered Water	171561063904A
1808838	APP20	06/01/2017 15:45:00	9027269	06/14/2017 13:09:40	CH-SWSD104-SW01-F Filtered Water	171561063904A
1808838	APP20	06/02/2017 09:10:00	9027272	06/14/2017 13:15:08	CH-SWSD067-SW01-F Filtered Water	171561063904A
1809297	APP21	06/02/2017 09:45:00	9029105	06/16/2017 04:20:07	CH-SWSD068-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 10:10:00	9029106	06/16/2017 04:23:12	CH-SWSD069-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 10:28:00	9029107	06/16/2017 04:32:34	CH-SWSD070-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 12:40:00	9029108	06/16/2017 04:35:40	CH-SWSD077-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 12:55:00	9029109	06/16/2017 04:38:45	CH-SWSD078-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 12:45:00	9029110	06/16/2017 04:41:51	CH-SWSD079-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 12:00:00	9029111	06/16/2017 04:45:06	CH-SWSD075-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 12:00:00	9029112	06/16/2017 04:48:12	CH-SWSD075-SE01D Sediment	171591063704A
1809297	APP21	06/02/2017 12:25:00	9029113	06/16/2017 04:51:18	CH-SWSD076-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 15:30:00	9029114	06/16/2017 04:54:22	CH-SWSD062-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 14:40:00	9029115	06/16/2017 04:57:35	CH-SWSD065-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 14:40:00	9029116	06/16/2017 05:00:41	CH-SWSD065-SE01D Sediment	171591063704A
1809297	APP21	06/02/2017 15:10:00	9029117	06/16/2017 05:10:06	CH-SWSD063-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 14:55:00	9029118	06/16/2017 05:13:12	CH-SWSD064-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 17:10:00	9029119	06/16/2017 05:16:16	CH-SWSD056-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 16:55:00	9029120	06/16/2017 05:19:22	CH-SWSD057-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 16:45:00	9029121	06/16/2017 05:22:32	CH-SWSD058-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 16:15:00	9029122	06/16/2017 04:01:17	CH-SWSD060-SE01 Sediment	171591063704A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1809297	APP21	06/02/2017 16:15:00	9029123	06/16/2017 04:10:40	CH-SWSD060-SE01MS Sediment	171591063704A
1809297	APP21	06/02/2017 16:15:00	9029124	06/16/2017 04:13:47	CH-SWSD060-SE01MSD Sediment	171591063704A
1809297	APP21	06/02/2017 16:15:00	9029125	06/16/2017 04:07:35	CH-SWSD060-SE01DUP Sediment	171591063704A
1809297	APP21	06/02/2017 16:30:00	9029126	06/16/2017 05:25:37	CH-SWSD059-SE01 Sediment	171591063704A
1809297	APP21	06/02/2017 15:45:00	9029127	06/16/2017 05:28:43	CH-SWSD061-SE01 Sediment	171591063704A
1809297	APP21	06/03/2017 10:20:00	9029128	06/16/2017 12:35:29	CH-SWSD051-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 10:05:00	9029129	06/16/2017 12:54:06	CH-SWSD052-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 09:50:00	9029130	06/16/2017 12:57:11	CH-SWSD053-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 09:35:00	9029131	06/16/2017 13:06:27	CH-SWSD054-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 09:15:00	9029132	06/16/2017 13:09:32	CH-SWSD055-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 09:15:00	9029133	06/16/2017 13:12:37	CH-SWSD055-SE01D Sediment	171591063707A
1809297	APP21	06/03/2017 11:00:00	9029134	06/16/2017 13:15:42	CH-SWSD050-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 11:00:00	9029135	06/16/2017 13:18:48	CH-SWSD050-SE01D Sediment	171591063707A
1809297	APP21	06/03/2017 11:50:00	9029136	06/16/2017 13:21:53	CH-SWSD047-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 11:35:00	9029137	06/16/2017 13:24:57	CH-SWSD048-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 11:20:00	9029138	06/16/2017 13:28:04	CH-SWSD049-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 12:10:00	9029139	06/16/2017 13:31:09	CH-SWSD046-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 14:20:00	9029140	06/16/2017 13:34:14	CH-SWSD112-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 14:40:00	9029141	06/16/2017 13:43:29	CH-SWSD113-SE01 Sediment	171591063707A
1809297	APP21	06/03/2017 15:05:00	9029142	06/16/2017 13:46:34	CH-SWSD114-SE01 Sediment	171591063707A
1809307	APP22	06/02/2017 10:00:00	9029199	06/20/2017 08:54:19	CH-SWSD069-SW01 Water	171701063901A
1809307	APP22	06/02/2017 10:20:00	9029200	06/20/2017 08:56:09	CH-SWSD072-SW01 Water	171701063901A
1809307	APP22	06/02/2017 10:20:00	9029201	06/20/2017 09:01:37	CH-SWSD072-SW01-F Filtered Water	171701063901A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1809307	APP22	06/02/2017 12:35:00	9029202	06/20/2017 09:03:29	CH-SWSD078-SW01 Water	171701063901A
1809307	APP22	06/02/2017 12:25:00	9029203	06/20/2017 09:05:19	CH-SWSD077-SW01 Water	171701063901A
1809307	APP22	06/02/2017 12:10:00	9029204	06/20/2017 09:07:09	CH-SWSD076-SW01 Water	171701063901A
1809307	APP22	06/02/2017 15:45:00	9029205	06/20/2017 09:08:58	CH-SWSD060-SW01 Water	171701063901A
1809307	APP22	06/02/2017 15:45:00	9029206	06/20/2017 09:10:49	CH-SWSD060-SW01D Water	171701063901A
1809307	APP22	06/02/2017 15:25:00	9029207	06/20/2017 09:12:40	CH-SWSD061-SW01 Water	171701063901A
1809307	APP22	06/02/2017 14:45:00	9029208	06/20/2017 09:14:31	CH-SWSD064-SW01 Water	171701063901A
1809307	APP22	06/02/2017 14:25:00	9029209	06/20/2017 09:16:21	CH-SWSD065-SW01 Water	171701063901A
1809307	APP22	06/02/2017 14:25:00	9029210	06/20/2017 09:18:10	CH-SWSD065-SW01D Water	171701063901A
1809307	APP22	06/02/2017 15:15:00	9029211	06/20/2017 09:23:38	CH-SWSD062-SW01 Water	171701063901A
1809307	APP22	06/02/2017 14:55:00	9029212	06/20/2017 08:43:21	CH-SWSD063-SW01 Water	171701063901A
1809307	APP22	06/02/2017 14:55:00	9029213	06/20/2017 08:48:49	CH-SWSD063-SW01MS Water	171701063901A
1809307	APP22	06/02/2017 14:55:00	9029214	06/20/2017 08:50:40	CH-SWSD063-SW01MSD Water	171701063901A
1809307	APP22	06/02/2017 14:55:00	9029215	06/20/2017 08:47:01	CH-SWSD063-SW01DUP Water	171701063901A
1809307	APP22	06/02/2017 16:50:00	9029216	06/20/2017 09:25:29	CH-SWSD056-SW01 Water	171701063901A
1809307	APP22	06/02/2017 16:35:00	9029217	06/20/2017 09:27:19	CH-SWSD057-SW01 Water	171701063901A
1809307	APP22	06/02/2017 16:00:00	9029218	06/20/2017 09:29:10	CH-SWSD059-SW01 Water	171701063901A
1809307	APP22	06/02/2017 16:20:00	9029219	06/20/2017 09:31:09	CH-SWSD058-SW01 Water	171701063901A
1809307	APP22	06/03/2017 10:15:00	9029220	06/20/2017 09:32:58	CH-SWSD051-SW01 Water	171701063901A
1809307	APP22	06/03/2017 10:00:00	9029221	06/20/2017 09:34:47	CH-SWSD052-SW01 Water	171701063901A
1810532	APP23	06/06/2017 08:55:00	9035255	06/22/2017 07:59:30	CH-SWSD044-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 08:35:00	9035256	06/22/2017 08:10:23	CH-SWSD045-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 08:35:00	9035257	06/22/2017 08:12:12	CH-SWSD045-SE01D Sediment	171591063708B

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1810532	APP23	06/06/2017 09:50:00	9035258	06/19/2017 14:08:21	CH-SWSD041-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 09:30:00	9035259	06/19/2017 14:11:25	CH-SWSD042-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 11:10:00	9035260	06/19/2017 14:14:41	CH-SWSD037-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 10:45:00	9035261	06/19/2017 14:17:46	CH-SWSD038-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 10:20:00	9035262	06/19/2017 14:20:52	CH-SWSD039-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 10:05:00	9035263	06/19/2017 14:23:58	CH-SWSD040-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 14:50:00	9035264	06/19/2017 14:27:10	CH-SWSD031-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 14:18:00	9035265	06/19/2017 14:30:15	CH-SWSD032-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 13:50:00	9035266	06/19/2017 14:33:19	CH-SWSD033-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 12:50:00	9035267	06/19/2017 14:36:24	CH-SWSD034-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 11:50:00	9035268	06/19/2017 14:45:50	CH-SWSD035-SE01 Sediment	171591063708B
1810532	APP23	06/06/2017 11:50:00	9035269	06/19/2017 14:48:55	CH-SWSD035-SE01D Sediment	171591063708B
1810532	APP23	06/06/2017 11:25:00	9035270	06/19/2017 14:52:06	CH-SWSD036-SE01 Sediment	171591063708B
1810542	APP24	06/05/2017 13:10:00	9035301	06/22/2017 17:47:00	CH-SWSD088-SW01 Water	171601063903A
1810542	APP24	06/05/2017 13:00:00	9035302	06/22/2017 17:48:51	CH-SWSD089-SW01 Water	171601063903A
1810542	APP24	06/05/2017 11:15:00	9035303	06/22/2017 17:50:42	CH-SWSD092-SW01 Water	171601063903A
1810542	APP24	06/05/2017 11:30:00	9035304	06/22/2017 17:56:11	CH-SWSD091-SW01 Water	171601063903A
1810542	APP24	06/05/2017 10:30:00	9035305	06/22/2017 17:35:51	CH-SWSD093-SW01 Water	171601063903A
1810542	APP24	06/05/2017 10:30:00	9035306	06/22/2017 17:41:31	CH-SWSD093-SW01MS Water	171601063903A
1810542	APP24	06/05/2017 10:30:00	9035307	06/22/2017 17:43:22	CH-SWSD093-SW01MSD Water	171601063903A
1810542	APP24	06/05/2017 10:30:00	9035308	06/22/2017 17:39:42	CH-SWSD093-SW01DUP Water	171601063903A
1810542	APP24	06/05/2017 11:45:00	9035309	06/22/2017 17:58:02	CH-SWSD090-SW01 Water	171601063903A
1810542	APP24	06/05/2017 09:40:00	9035310	06/22/2017 17:59:51	CH-SWSD094-SW01 Water	171601063903A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1810542	APP24	06/05/2017 09:30:00	9035311	06/22/2017 18:01:41	CH-SWSD095-SW01 Water	171601063903A
1810542	APP24	06/05/2017 09:30:00	9035312	06/22/2017 18:03:31	CH-SWSD095-SW01D Water	171601063903A
1810542	APP24	06/05/2017 14:15:00	9035313	06/22/2017 18:05:22	CH-SWSD085-SW01 Water	171601063903A
1810542	APP24	06/05/2017 14:15:00	9035314	06/22/2017 18:07:13	CH-SWSD085-SW01D Water	171601063903A
1810542	APP24	06/05/2017 13:45:00	9035315	06/22/2017 18:09:02	CH-SWSD086-SW01 Water	171601063903A
1810542	APP24	06/05/2017 14:20:00	9035316	06/22/2017 18:10:52	CH-SWSD087-SW01 Water	171601063903A
1810542	APP24	06/05/2017 15:20:00	9035317	06/20/2017 18:35:06	CH-SWSD082-SW01 Water	171651063902A
1810542	APP24	06/05/2017 15:00:00	9035318	06/22/2017 18:12:42	CH-SWSD083-SW01 Water	171601063903A
1810542	APP24	06/05/2017 14:45:00	9035319	06/22/2017 18:18:21	CH-SWSD084-SW01 Water	171601063903A
1810542	APP24	06/05/2017 16:15:00	9035320	06/22/2017 18:20:12	CH-SWSD080-SW01 Water	171601063903A
1810542	APP24	06/05/2017 15:45:00	9035321	06/22/2017 18:22:01	CH-SWSD081-SW01 Water	171601063903A
1810542	APP24	06/05/2017 15:45:00	9035322	06/22/2017 18:23:51	CH-SWSD081-SW01D Water	171601063903A
1810542	APP24	06/06/2017 08:30:00	9035323	06/22/2017 18:25:41	CH-SWSD045-SW01 Water	171601063903A
1810542	APP24	06/06/2017 08:30:00	9035324	06/19/2017 21:17:44	CH-SWSD045-SW01D Water	171601063904A
1810542	APP24	06/06/2017 09:20:00	9035325	06/19/2017 20:58:58	CH-SWSD042-SW01 Water	171601063904A
1810542	APP24	06/06/2017 09:10:00	9035326	06/19/2017 21:20:48	CH-SWSD043-SW01 Water	171601063904A
1810542	APP24	06/06/2017 08:50:00	9035327	06/19/2017 21:30:11	CH-SWSD044-SW01 Water	171601063904A
1810542	APP24	06/06/2017 09:40:00	9035328	06/19/2017 21:33:16	CH-SWSD041-SW01 Water	171601063904A
1810542	APP24	06/06/2017 10:00:00	9035329	06/19/2017 21:36:21	CH-SWSD040-SW01 Water	171601063904A
1810542	APP24	06/06/2017 10:00:00	9035330	06/19/2017 21:39:26	CH-SWSD040-SW01D Water	171601063904A
1810542	APP24	06/06/2017 11:25:00	9035331	06/19/2017 21:42:40	CH-SWSD036-SW01 Water	171601063904A
1810542	APP24	06/06/2017 11:00:00	9035332	06/19/2017 21:45:45	CH-SWSD037-SW01 Water	171601063904A
1810542	APP24	06/06/2017 10:35:00	9035333	06/19/2017 21:48:51	CH-SWSD038-SW01 Water	171601063904A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1810542	APP24	06/06/2017 10:15:00	9035334	06/19/2017 21:51:55	CH-SWSD039-SW01 Water	171601063904A
1810542	APP24	06/06/2017 14:45:00	9035335	06/19/2017 21:55:08	CH-SWSD031-SW01 Water	171601063904A
1810542	APP24	06/06/2017 14:45:00	9035336	06/19/2017 21:58:14	CH-SWSD031-SW01-F Filtered Water	171601063904A
1810542	APP24	06/06/2017 12:40:00	9035337	06/19/2017 22:07:39	CH-SWSD034-SW01 Water	171601063904A
1810542	APP24	06/06/2017 13:30:00	9035338	06/19/2017 22:10:44	CH-SWSD033-SW01 Water	171601063904A
1810542	APP24	06/06/2017 13:30:00	9035339	06/19/2017 22:13:49	CH-SWSD033-SW01-F Filtered Water	171601063904A
1810542	APP24	06/06/2017 13:50:00	9035340	06/19/2017 22:16:54	CH-SWSD032-SW01 Water	171601063904A
1810542	APP24	06/06/2017 13:50:00	9035341	06/19/2017 22:20:00	CH-SWSD032-SW01-F Filtered Water	171601063904A
1810542	APP24	06/06/2017 11:40:00	9035342	06/19/2017 22:23:05	CH-SWSD035-SW01 Water	171601063904A
1810542	APP24	06/06/2017 11:40:00	9035343	06/19/2017 22:26:10	CH-SWSD035-SW01D Water	171601063904A
1810542	APP24	06/06/2017 11:40:00	9035344	06/20/2017 18:38:24	CH-SWSD035-SW01-F Filtered Water	171651063902A
1810542	APP24	06/06/2017 11:40:00	9035345	06/20/2017 18:47:40	CH-SWSD035-SW01D-F Filtered Water	171651063902A
1810542	APP24	06/06/2017 16:00:00	9035346	06/20/2017 18:16:29	CH-SWSD112-SW01 Water	171651063902A
1811790	APP25	06/06/2017 16:05:00	9040741	06/21/2017 16:33:40	CH-SWSD119-SE01 Sediment	171641063704A
1811790	APP25	06/06/2017 16:20:00	9040742	06/21/2017 16:36:54	CH-SWSD120-SE01 Sediment	171641063704A
1811790	APP25	06/06/2017 16:30:00	9040743	06/21/2017 16:46:10	CH-SWSD121-SE01 Sediment	171641063704A
1811790	APP25	06/06/2017 16:35:00	9040744	06/21/2017 16:49:22	CH-SWSD122-SE01 Sediment	171641063704A
1811790	APP25	06/06/2017 16:45:00	9040745	06/23/2017 07:13:40	CH-SWSD123-SE01 Sediment	171641063704A
1811790	APP25	06/06/2017 16:50:00	9040746	06/21/2017 16:55:33	CH-SWSD124-SE01 Sediment	171641063704A
1811790	APP25	06/06/2017 17:10:00	9040747	06/21/2017 16:15:01	CH-SWSD125-SE01 Sediment	171641063704A
1811790	APP25	06/06/2017 17:10:00	9040748	06/21/2017 16:24:25	CH-SWSD125-SE01MS Sediment	171641063704A
1811790	APP25	06/06/2017 17:10:00	9040749	06/21/2017 16:27:30	CH-SWSD125-SE01MSD Sediment	171641063704A
1811790	APP25	06/06/2017 17:10:00	9040750	06/21/2017 16:21:13	CH-SWSD125-SE01DUP Sediment	171641063704A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1811790	APP25	06/06/2017 15:45:00	9040751	06/21/2017 16:58:38	CH-SWSD115-SE01 Sediment	171641063704A
1811790	APP25	06/06/2017 15:45:00	9040752	06/21/2017 17:01:52	CH-SWSD115-SE01D Sediment	171641063704A
1811790	APP25	06/07/2017 08:50:00	9040755	06/21/2017 17:04:58	CH-SWSD116-SE01 Sediment	171641063704A
1811790	APP25	06/07/2017 08:35:00	9040756	06/21/2017 17:08:03	CH-SWSD117-SE01 Sediment	171641063704A
1811790	APP25	06/07/2017 08:25:00	9040757	06/21/2017 17:11:08	CH-SWSD118-SE01 Sediment	171641063704A
1811790	APP25	06/07/2017 09:50:00	9040758	06/23/2017 07:17:18	CH-SWSD139-SE01 Sediment	171641063704A
1811790	APP25	06/07/2017 09:35:00	9040759	06/21/2017 17:23:30	CH-SWSD140-SE01 Sediment	171641063704A
1811790	APP25	06/07/2017 10:10:00	9040760	06/21/2017 17:26:46	CH-SWSD138-SE01 Sediment	171641063704A
1811790	APP25	06/07/2017 10:25:00	9040761	06/23/2017 07:19:07	CH-SWSD137-SE01 Sediment	171641063704A
1811790	APP25	06/07/2017 13:15:00	9040762	06/23/2017 07:20:56	CH-SWSD129-SE01 Sediment	171641063704A
1811790	APP25	06/07/2017 10:55:00	9040763	06/23/2017 07:22:45	CH-SWSD136-SE01 Sediment	171641063704A
1811790	APP25	06/07/2017 10:55:00	9040764	06/21/2017 13:55:01	CH-SWSD136-SE01D Sediment	171641063705A
1811790	APP25	06/07/2017 11:10:00	9040765	06/21/2017 13:58:07	CH-SWSD135-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 11:30:00	9040766	06/21/2017 14:07:30	CH-SWSD134-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 12:50:00	9040767	06/21/2017 13:36:19	CH-SWSD131-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 12:50:00	9040768	06/21/2017 13:45:44	CH-SWSD131-SE01MS Sediment	171641063705A
1811790	APP25	06/07/2017 12:50:00	9040769	06/21/2017 13:48:50	CH-SWSD131-SE01MSD Sediment	171641063705A
1811790	APP25	06/07/2017 12:50:00	9040770	06/21/2017 13:42:38	CH-SWSD131-SE01DUP Sediment	171641063705A
1811790	APP25	06/07/2017 13:10:00	9040771	06/21/2017 14:10:36	CH-SWSD130-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 11:55:00	9040772	06/21/2017 14:13:42	CH-SWSD132-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 11:45:00	9040773	06/21/2017 14:16:47	CH-SWSD133-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 13:40:00	9040774	06/21/2017 14:19:52	CH-SWSD127-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 13:30:00	9040775	06/21/2017 14:22:58	CH-SWSD128-SE01 Sediment	171641063705A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1811790	APP25	06/07/2017 13:50:00	9040776	06/21/2017 14:26:04	CH-SWSD126-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 13:50:00	9040777	06/21/2017 14:29:08	CH-SWSD126-SE01D Sediment	171641063705A
1811790	APP25	06/07/2017 14:55:00	9040778	06/21/2017 14:32:24	CH-SWSD027-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 15:00:00	9040779	06/21/2017 14:35:29	CH-SWSD028-SE01 Sediment	171641063705A
1811790	APP25	06/08/2017 10:25:00	9040780	06/21/2017 14:44:52	CH-SWSD016-SE01 Sediment	171641063705A
1811790	APP25	06/08/2017 10:10:00	9040781	06/21/2017 14:47:58	CH-SWSD017-SE01 Sediment	171641063705A
1811790	APP25	06/08/2017 09:40:00	9040782	06/21/2017 14:51:04	CH-SWSD018-SE01 Sediment	171641063705A
1811790	APP25	06/08/2017 08:45:00	9040783	06/21/2017 14:54:09	CH-SWSD096-SE01 Sediment	171641063705A
1811790	APP25	06/08/2017 08:35:00	9040784	06/21/2017 14:57:13	CH-SWSD097-SE01 Sediment	171641063705A
1811790	APP25	06/07/2017 17:00:00	9040785	06/20/2017 15:59:31	CH-SWSD099-SE01 Sediment	171641063710A
1811790	APP25	06/07/2017 17:00:00	9040786	06/20/2017 16:08:54	CH-SWSD099-SE01MS Sediment	171641063710A
1811790	APP25	06/07/2017 17:00:00	9040787	06/20/2017 16:11:58	CH-SWSD099-SE01MSD Sediment	171641063710A
1811790	APP25	06/07/2017 17:00:00	9040788	06/20/2017 16:05:39	CH-SWSD099-SE01DUP Sediment	171641063710A
1811790	APP25	06/07/2017 16:20:00	9040789	06/20/2017 16:18:08	CH-SWSD100-SE01 Sediment	171641063710A
1811790	APP25	06/07/2017 15:15:00	9040790	06/20/2017 16:21:21	CH-SWSD029-SE01 Sediment	171641063710A
1811790	APP25	06/07/2017 15:30:00	9040791	06/20/2017 16:30:37	CH-SWSD030-SE01 Sediment	171641063710A
1811790	APP25	06/07/2017 15:30:00	9040792	06/20/2017 16:33:43	CH-SWSD030-SE01D Sediment	171641063710A
1811790	APP25	06/08/2017 08:20:00	9040793	06/20/2017 16:36:49	CH-SWSD098-SE01 Sediment	171641063710A
1811790	APP25	06/08/2017 10:45:00	9040794	06/20/2017 16:39:55	CH-SWSD003-SE01 Sediment	171641063710A
1811790	APP25	06/08/2017 11:45:00	9040795	06/20/2017 16:42:59	CH-SWSD001-SE01 Sediment	171641063710A
1811790	APP25	06/08/2017 11:15:00	9040796	06/20/2017 16:46:13	CH-SWSD002-SE01 Sediment	171641063710A
1811790	APP25	06/08/2017 13:30:00	9040797	06/20/2017 16:49:17	CH-SWSD019-SE01 Sediment	171641063710A
1811790	APP25	06/08/2017 14:30:00	9040798	06/20/2017 16:52:22	CH-SWSD021-SE01 Sediment	171641063710A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1811790	APP25	06/08/2017 15:00:00	9040799	06/20/2017 16:55:26	CH-SWSD022-SE01 Sediment	171641063710A
1811790	APP25	06/08/2017 13:05:00	9040800	06/19/2017 16:12:39	CH-SWSD020-SE01 Sediment	171651063701A
1811790	APP25	06/08/2017 13:05:00	9040801	06/19/2017 16:25:10	CH-SWSD020-SE01MS Sediment	171651063701A
1811790	APP25	06/08/2017 13:05:00	9040802	06/19/2017 16:28:14	CH-SWSD020-SE01MSD Sediment	171651063701A
1811790	APP25	06/08/2017 13:05:00	9040803	06/19/2017 16:22:04	CH-SWSD020-SE01DUP Sediment	171651063701B
1811790	APP25	06/08/2017 14:00:00	9040804	06/19/2017 16:34:26	CH-SWSD023-SE01 Sediment	171651063701A
1811806	APP26	06/07/2017 10:05:00	9040841	06/20/2017 00:05:42	CH-SWSD136-SW01 Water	171631063901A
1811806	APP26	06/07/2017 09:50:00	9040842	06/20/2017 00:08:48	CH-SWSD137-SW01 Water	171631063901A
1811806	APP26	06/07/2017 09:20:00	9040843	06/20/2017 00:17:53	CH-SWSD138-SW01 Water	171631063901A
1811806	APP26	06/07/2017 08:50:00	9040844	06/20/2017 00:21:00	CH-SWSD139-SW01 Water	171631063901A
1811806	APP26	06/07/2017 08:30:00	9040845	06/19/2017 23:47:10	CH-SWSD140-SW01 Water	171631063901A
1811806	APP26	06/07/2017 08:30:00	9040846	06/19/2017 23:56:10	CH-SWSD140-SW01MS Water	171631063901A
1811806	APP26	06/07/2017 08:30:00	9040847	06/19/2017 23:59:27	CH-SWSD140-SW01MSD Water	171631063901A
1811806	APP26	06/07/2017 08:30:00	9040848	06/19/2017 23:53:03	CH-SWSD140-SW01DUP Water	171631063901A
1811806	APP26	06/07/2017 10:20:00	9040849	06/20/2017 00:24:17	CH-SWSD134-SW01 Water	171631063901A
1811806	APP26	06/07/2017 10:15:00	9040850	06/20/2017 00:27:23	CH-SWSD135-SW01 Water	171631063901A
1811806	APP26	06/07/2017 10:15:00	9040851	06/20/2017 00:30:29	CH-SWSD135-SW01D Water	171631063901A
1811806	APP26	06/07/2017 13:15:00	9040852	06/20/2017 00:33:34	CH-SWSD127-SW01 Water	171631063901A
1811806	APP26	06/07/2017 13:00:00	9040853	06/20/2017 00:36:48	CH-SWSD128-SW01 Water	171631063901A
1811806	APP26	06/07/2017 11:55:00	9040854	06/20/2017 00:39:55	CH-SWSD129-SW01 Water	171631063901A
1811806	APP26	06/07/2017 11:55:00	9040855	06/20/2017 00:43:01	CH-SWSD129-SW01D Water	171631063901A
1811806	APP26	06/07/2017 11:00:00	9040856	06/20/2017 00:46:07	CH-SWSD132-SW01 Water	171631063901A
1811806	APP26	06/07/2017 10:45:00	9040857	06/20/2017 00:55:34	CH-SWSD133-SW01 Water	171631063901A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1811806	APP26	06/07/2017 11:45:00	9040858	06/20/2017 00:58:40	CH-SWSD130-SW01 Water	171631063901A
1811806	APP26	06/07/2017 11:30:00	9040859	06/20/2017 01:01:52	CH-SWSD131-SW01 Water	171631063901A
1811806	APP26	06/07/2017 13:30:00	9040860	06/20/2017 01:05:00	CH-SWSD126-SW01 Water	171631063901A
1811806	APP26	06/07/2017 15:00:00	9040861	06/20/2017 01:08:06	CH-SWSD030-SW01 Water	171631063901A
1811806	APP26	06/07/2017 14:10:00	9040862	06/20/2017 01:11:12	CH-SWSD027-SW01 Water	171631063901A
1811806	APP26	06/07/2017 14:25:00	9040863	06/20/2017 01:14:20	CH-SWSD028-SW01 Water	171631063901A
1811806	APP26	06/07/2017 14:45:00	9040864	06/20/2017 20:08:31	CH-SWSD029-SW01 Water	171631063905A
1811806	APP26	06/07/2017 17:00:00	9040865	06/20/2017 20:27:07	CH-SWSD098-SW01 Water	171631063905A
1811806	APP26	06/07/2017 17:00:00	9040866	06/20/2017 20:30:19	CH-SWSD098-SW01-F Filtered Water	171631063905A
1811806	APP26	06/07/2017 16:25:00	9040867	06/20/2017 20:39:34	CH-SWSD099-SW01 Water	171631063905A
1811806	APP26	06/07/2017 16:10:00	9040868	06/20/2017 20:42:48	CH-SWSD100-SW01 Water	171631063905A
1811806	APP26	06/07/2017 16:10:00	9040869	06/20/2017 20:45:53	CH-SWSD100-SW01D Water	171631063905A
1811806	APP26	06/08/2017 10:40:00	9040870	06/20/2017 20:48:59	CH-SWSD003-SW01 Water	171631063905A
1811806	APP26	06/08/2017 10:15:00	9040871	06/20/2017 20:52:05	CH-SWSD016-SW01 Water	171631063905A
1811806	APP26	06/08/2017 09:55:00	9040872	06/20/2017 20:55:17	CH-SWSD017-SW01 Water	171631063905A
1811806	APP26	06/08/2017 09:30:00	9040873	06/20/2017 20:58:22	CH-SWSD018-SW01 Water	171631063905A
1811806	APP26	06/08/2017 11:00:00	9040874	06/20/2017 21:01:28	CH-SWSD002-SW01 Water	171631063905A
1811806	APP26	06/08/2017 11:00:00	9040875	06/20/2017 21:04:32	CH-SWSD002-SW01-F Filtered Water	171631063905A
1811806	APP26	06/08/2017 13:15:00	9040876	06/20/2017 21:07:48	CH-SWSD019-SW01 Water	171631063905A
1811806	APP26	06/08/2017 14:15:00	9040877	06/20/2017 21:17:02	CH-SWSD021-SW01 Water	171631063905A
1811806	APP26	06/08/2017 11:20:00	9040878	06/20/2017 21:20:07	CH-SWSD001-SW01 Water	171631063905A
1811806	APP26	06/08/2017 13:00:00	9040879	06/20/2017 21:23:12	CH-SWSD020-SW01 Water	171631063905A
1811806	APP26	06/08/2017 13:40:00	9040880	06/20/2017 21:26:17	CH-SWSD023-SW01 Water	171631063905A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1811806	APP26	06/08/2017 14:30:00	9040881	06/20/2017 21:29:23	CH-SWSD022-SW01 Water	171631063905A
1812356	APP27	06/09/2017 10:00:00	9043996	07/11/2017 09:33:38	CH-SWSD004-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 09:40:00	9043997	07/11/2017 09:35:20	CH-SWSD005-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 09:20:00	9043998	07/11/2017 09:40:25	CH-SWSD006-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 09:10:00	9043999	07/11/2017 09:42:06	CH-SWSD007-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 11:50:00	9044000	07/11/2017 09:43:48	CH-SWSD154-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 11:30:00	9044001	07/11/2017 09:23:29	CH-SWSD155-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 11:30:00	9044002	07/11/2017 09:28:35	CH-SWSD155-SE01MS Sediment	171641063711A
1812356	APP27	06/09/2017 11:30:00	9044003	07/11/2017 09:30:16	CH-SWSD155-SE01MSD Sediment	171641063711A
1812356	APP27	06/09/2017 11:30:00	9044004	07/11/2017 09:26:53	CH-SWSD155-SE01DUP Sediment	171641063711A
1812356	APP27	06/09/2017 13:00:00	9044005	07/11/2017 09:45:33	CH-SWSD150-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 13:30:00	9044006	07/11/2017 09:47:14	CH-SWSD153-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 15:20:00	9044007	07/11/2017 09:48:57	CH-SWSD147-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 15:13:00	9044008	07/11/2017 09:50:38	CH-SWSD148-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 14:45:00	9044009	07/11/2017 09:52:19	CH-SWSD149-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 14:15:00	9044010	07/11/2017 09:54:01	CH-SWSD151-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 14:00:00	9044011	07/11/2017 09:55:43	CH-SWSD152-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 17:15:00	9044012	07/11/2017 10:00:45	CH-SWSD141-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 17:00:00	9044013	07/11/2017 10:02:26	CH-SWSD142-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 16:45:00	9044014	07/11/2017 10:04:09	CH-SWSD143-SE01 Sediment	171641063711A
1812356	APP27	06/09/2017 16:30:00	9044015	07/11/2017 10:05:50	CH-SWSD144-SE01 Sediment	171641063711A
1812431	APP28	06/09/2017 09:50:00	9044236	06/20/2017 23:09:07	CH-SWSD004-SW01 Water	171641063901A
1812431	APP28	06/09/2017 09:30:00	9044237	06/20/2017 23:12:14	CH-SWSD005-SW01 Water	171641063901A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1812431	APP28	06/09/2017 09:15:00	9044238	06/20/2017 23:21:30	CH-SWSD006-SW01 Water	171641063901A
1812431	APP28	06/09/2017 08:50:00	9044239	06/20/2017 23:24:44	CH-SWSD007-SW01 Water	171641063901A
1812431	APP28	06/09/2017 11:45:00	9044240	06/20/2017 23:27:52	CH-SWSD154-SW01 Water	171641063901A
1812431	APP28	06/09/2017 11:45:00	9044241	06/21/2017 21:42:50	CH-SWSD154-SW01-F Filtered Water	171641063902A
1812431	APP28	06/09/2017 11:15:00	9044242	06/20/2017 23:31:00	CH-SWSD155-SW01 Water	171641063901A
1812431	APP28	06/09/2017 11:15:00	9044243	06/21/2017 21:45:58	CH-SWSD155-SW01-F Filtered Water	171641063902A
1812431	APP28	06/09/2017 12:30:00	9044244	06/20/2017 23:34:06	CH-SWSD010-SW01 Water	171641063901A
1812431	APP28	06/09/2017 13:30:00	9044245	06/20/2017 23:37:13	CH-SWSD014-SW01 Water	171641063901A
1812431	APP28	06/09/2017 13:45:00	9044246	06/20/2017 23:40:19	CH-SWSD015-SW01 Water	171641063901A
1812431	APP28	06/09/2017 12:00:00	9044247	06/20/2017 23:43:24	CH-SWSD150-SW01 Water	171641063901A
1812431	APP28	06/09/2017 12:00:00	9044248	06/21/2017 21:55:33	CH-SWSD150-SW01-F Filtered Water	171641063902A
1812431	APP28	06/09/2017 12:45:00	9044249	06/21/2017 21:23:48	CH-SWSD153-SW01-F Filtered Water	171641063902A
1812431	APP28	06/09/2017 12:45:00	9044250	06/21/2017 21:33:17	CH-SWSD153-SW01MS-F Filtered Water	171641063902A
1812431	APP28	06/09/2017 12:45:00	9044251	06/21/2017 21:36:29	CH-SWSD153-SW01MSD-F Filtered Water	171641063902A
1812431	APP28	06/09/2017 12:45:00	9044252	06/21/2017 21:30:06	CH-SWSD153-SW01DUP-F Filtered Water	171641063902A
1812431	APP28	06/09/2017 12:45:00	9044253	06/20/2017 22:50:24	CH-SWSD153-SW01 Water	171641063901A
1812431	APP28	06/09/2017 12:45:00	9044254	06/20/2017 22:59:50	CH-SWSD153-SW01MS Water	171641063901A
1812431	APP28	06/09/2017 12:45:00	9044255	06/20/2017 23:02:57	CH-SWSD153-SW01MSD Water	171641063901A
1812431	APP28	06/09/2017 12:45:00	9044256	06/20/2017 22:56:34	CH-SWSD153-SW01DUP Water	171641063901A
1812431	APP28	06/09/2017 13:30:00	9044257	06/20/2017 23:46:31	CH-SWSD152-SW01 Water	171641063901A
1812431	APP28	06/09/2017 13:30:00	9044258	06/21/2017 21:58:48	CH-SWSD152-SW01-F Filtered Water	171641063902A
1812431	APP28	06/09/2017 15:15:00	9044259	06/20/2017 23:49:39	CH-SWSD147-SW01 Water	171641063901A
1812431	APP28	06/09/2017 14:30:00	9044260	06/20/2017 23:58:55	CH-SWSD149-SW01 Water	171641063901A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1812431	APP28	06/09/2017 14:00:00	9044261	06/21/2017 00:02:11	CH-SWSD151-SW01 Water	171641063901A
1812431	APP28	06/09/2017 14:00:00	9044262	06/21/2017 22:01:59	CH-SWSD151-SW01-F Filtered Water	171641063902A
1812431	APP28	06/09/2017 15:10:00	9044263	06/21/2017 00:05:16	CH-SWSD148-SW01 Water	171641063901A
1812431	APP28	06/09/2017 15:30:00	9044264	06/21/2017 00:08:24	CH-SWSD008-SW01 Water	171641063901A
1812431	APP28	06/09/2017 15:45:00	9044265	06/21/2017 00:11:30	CH-SWSD009-SW01 Water	171641063901A
1812431	APP28	06/09/2017 17:00:00	9044266	06/21/2017 00:14:36	CH-SWSD141-SW01 Water	171641063901A
1812431	APP28	06/09/2017 16:45:00	9044267	06/21/2017 00:17:44	CH-SWSD142-SW01 Water	171641063901A
1812431	APP28	06/09/2017 16:15:00	9044268	06/21/2017 22:05:06	CH-SWSD144-SW01 Water	171641063902A
1812431	APP28	06/09/2017 16:00:00	9044269	06/21/2017 22:08:16	CH-SWSD145-SW01 Water	171641063902A
1812431	APP28	06/09/2017 16:00:00	9044270	06/21/2017 19:28:01	CH-SWSD145-SW01D Water	171641063903A
1812431	APP28	06/09/2017 16:30:00	9044271	06/21/2017 19:09:18	CH-SWSD143-SW01 Water	171641063903A
1812431	APP28	06/09/2017 16:30:00	9044272	06/21/2017 19:18:45	CH-SWSD143-SW01MS Water	171641063903A
1812431	APP28	06/09/2017 16:30:00	9044273	06/21/2017 19:21:51	CH-SWSD143-SW01MSD Water	171641063903A
1812431	APP28	06/09/2017 16:30:00	9044274	06/21/2017 19:15:30	CH-SWSD143-SW01DUP Water	171641063903A
1812431	APP28	06/10/2017 08:40:00	9044275	06/21/2017 19:31:12	CH-SWSD024-SW01 Water	171641063903A
1812431	APP28	06/10/2017 10:05:00	9044276	06/21/2017 19:40:29	CH-SWSD025-SW01 Water	171641063903A
1812431	APP28	06/10/2017 09:15:00	9044277	06/21/2017 19:43:42	CH-SWSD026-SW01 Water	171641063903A
1812431	APP28	06/10/2017 11:20:00	9044278	06/21/2017 19:46:48	CH-SWSD011-SW01 Water	171641063903A
1812431	APP28	06/10/2017 12:15:00	9044279	06/21/2017 19:49:54	EB-061017-01 Water	171641063903A
1812431	APP28	06/10/2017 12:15:00	9044280	06/21/2017 19:52:59	EB-061017-02 Water	171641063903A
1812431	APP28	06/10/2017 11:00:00	9044281	06/21/2017 19:56:05	CH-SWSD012-SW01 Water	171641063903A
1812431	APP28	06/10/2017 10:45:00	9044282	07/03/2017 02:13:00	CH-SWSD013-SW01 Water	171641063903A
1812431	APP28	06/10/2017 15:30:00	9044283	06/21/2017 20:02:17	CH-SWSD146-SW01 Water	171641063903A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1813593	APP29	06/12/2017 12:25:00	9049509	07/17/2017 09:36:58	DU06-S008-01-10 Soil	171711063701A
1813593	APP29	06/12/2017 12:25:00	9049510	07/17/2017 09:45:10	DU06-S008-01-10MS Soil	171711063701A
1813593	APP29	06/12/2017 12:25:00	9049511	07/17/2017 09:47:54	DU06-S008-01-10MSD Soil	171711063701A
1813593	APP29	06/12/2017 12:25:00	9049512	07/17/2017 09:42:26	DU06-S008-01-10DUP Soil	171711063701A
1813593	APP29	06/12/2017 10:15:00	9049513	07/17/2017 09:53:22	DU06-S003-00-01 Soil	171711063701A
1813593	APP29	06/12/2017 10:30:00	9049514	07/17/2017 10:01:34	DU06-S003-01-10 Soil	171711063701A
1813593	APP29	06/12/2017 10:30:00	9049515	07/17/2017 10:04:18	DU06-S003-01-10D Soil	171711063701A
1813593	APP29	06/12/2017 09:30:00	9049516	07/17/2017 10:07:02	DU06-S004-00-01 Soil	171711063701A
1813593	APP29	06/12/2017 10:00:00	9049517	07/12/2017 06:57:06	DU06-S004-01-10 Soil	171711063705A
1813593	APP29	06/12/2017 10:00:00	9049518	07/12/2017 07:02:33	DU06-S004-01-10MS Soil	171711063705A
1813593	APP29	06/12/2017 10:00:00	9049519	07/12/2017 07:04:22	DU06-S004-01-10MSD Soil	171711063705A
1813593	APP29	06/12/2017 10:00:00	9049520	07/12/2017 07:00:44	DU06-S004-01-10DUP Soil	171711063705A
1813593	APP29	06/12/2017 10:40:00	9049521	07/12/2017 07:08:01	DU06-S002-00-01 Soil	171711063705A
1813593	APP29	06/12/2017 10:50:00	9049522	07/20/2017 08:49:38	DU06-S002-01-10 Soil	171711063706A
1813593	APP29	06/12/2017 10:50:00	9049523	07/20/2017 08:55:04	DU06-S002-01-10MS Soil	171711063706A
1813593	APP29	06/12/2017 10:50:00	9049524	07/20/2017 08:56:52	DU06-S002-01-10MSD Soil	171711063706A
1813593	APP29	06/12/2017 10:50:00	9049525	07/20/2017 08:53:15	DU06-S002-01-10DUP Soil	171711063706A
1813593	APP29	06/12/2017 13:20:00	9049526	07/20/2017 09:00:30	DU06-S011-00-01 Soil	171711063706A
1813593	APP29	06/12/2017 13:25:00	9049527	07/20/2017 09:02:19	DU06-S011-01-10 Soil	171711063706A
1813593	APP29	06/12/2017 13:25:00	9049528	07/20/2017 09:07:44	DU06-S011-01-10D Soil	171711063706A
1813593	APP29	06/12/2017 15:20:00	9049529	07/20/2017 09:09:33	DU06-S015-00-01 Soil	171711063706A
1813593	APP29	06/12/2017 15:25:00	9049530	07/18/2017 06:52:44	DU06-S015-01-10 Soil	171711063707A
1813593	APP29	06/12/2017 15:25:00	9049531	07/18/2017 06:58:15	DU06-S015-01-10MS Soil	171711063707A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1813593	APP29	06/12/2017 15:25:00	9049532	07/18/2017 07:00:05	DU06-S015-01-10MSD Soil	171711063707A
1813593	APP29	06/12/2017 15:25:00	9049533	07/18/2017 06:56:25	DU06-S015-01-10DUP Soil	171711063707A
1813593	APP29	06/12/2017 15:00:00	9049534	07/18/2017 07:07:25	DU06-S014-00-01 Soil	171711063707A
1813593	APP29	06/12/2017 15:05:00	9049535	07/18/2017 07:09:16	DU06-S014-01-10 Soil	171711063707A
1813593	APP29	06/12/2017 14:05:00	9049536	07/18/2017 07:11:05	DU06-S009-00-01 Soil	171711063707A
1813593	APP29	06/12/2017 14:10:00	9049537	07/18/2017 07:12:54	DU06-S009-01-10 Soil	171711063707A
1813598	APP30	06/12/2017 14:25:00	9049583	07/18/2017 07:14:43	DU06-S013-00-01 Soil	171711063707A
1813603	APP31	06/13/2017 09:00:00	9049619	07/13/2017 15:20:39	DU05-S006-00-01 Soil	171721063705A
1813603	APP31	06/13/2017 09:05:00	9049620	07/13/2017 15:23:44	DU05-S006-01-10 Soil	171721063705A
1813603	APP31	06/13/2017 09:05:00	9049621	07/13/2017 15:32:58	DU05-S006-01-10D Soil	171721063705A
1813603	APP31	06/13/2017 11:10:00	9049622	07/13/2017 15:36:04	DU05-S015-00-01 Soil	171721063705A
1813603	APP31	06/13/2017 11:15:00	9049623	07/17/2017 11:12:54	DU05-S015-01-02 Soil	171721063705A
1813603	APP31	06/13/2017 08:30:00	9049624	07/13/2017 15:42:13	DU05-S002-00-01 Soil	171721063705A
1813603	APP31	06/13/2017 08:35:00	9049625	07/13/2017 15:45:19	DU05-S002-01-10 Soil	171721063705A
1813603	APP31	06/13/2017 08:35:00	9049626	07/13/2017 15:48:24	DU05-S002-01-10D Soil	171721063705A
1813603	APP31	06/13/2017 09:15:00	9049627	07/13/2017 15:51:30	DU05-S009-00-01 Soil	171721063705A
1813603	APP31	06/13/2017 09:20:00	9049628	07/13/2017 15:54:35	DU05-S009-01-05 Soil	171721063705A
1813603	APP31	06/13/2017 10:45:00	9049629	07/17/2017 11:26:28	DU05-S007-00-01 Soil	171721063705A
1813603	APP31	06/13/2017 10:50:00	9049630	07/13/2017 16:00:48	DU05-S007-01-02 Soil	171721063705A
1813603	APP31	06/13/2017 08:40:00	9049631	07/13/2017 16:10:01	DU05-S005-00-01 Soil	171721063705A
1813603	APP31	06/13/2017 08:45:00	9049632	07/13/2017 16:13:06	DU05-S005-01-10 Soil	171721063705A
1813603	APP31	06/13/2017 08:50:00	9049633	07/13/2017 16:16:10	DU05-S010-00-01 Soil	171721063705A
1813603	APP31	06/13/2017 08:55:00	9049634	07/13/2017 16:19:15	DU05-S010-01-10 Soil	171721063705A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1813603	APP31	06/13/2017 08:55:00	9049635	07/17/2017 11:36:37	DU05-S010-01-10D Soil	171721063705A
1813603	APP31	06/13/2017 10:30:00	9049636	07/13/2017 16:25:26	DU05-S003-00-01 Soil	171721063705A
1813603	APP31	06/13/2017 10:35:00	9049637	07/17/2017 10:52:35	DU05-S003-01-02 Soil	171721063705A
1813603	APP31	06/13/2017 10:35:00	9049638	07/17/2017 10:57:40	DU05-S003-01-02MS Soil	171721063705A
1813603	APP31	06/13/2017 10:35:00	9049639	07/17/2017 10:59:22	DU05-S003-01-02MSD Soil	171721063705A
1813603	APP31	06/13/2017 10:35:00	9049640	07/17/2017 10:55:59	DU05-S003-01-02DUP Soil	171721063705A
1813603	APP31	06/13/2017 08:15:00	9049641	07/19/2017 11:45:00	DU05-S001-00-01 Soil	171741063702A
1813603	APP31	06/13/2017 08:25:00	9049642	07/19/2017 11:50:34	DU05-S001-01-10 Soil	171741063702A
1813603	APP31	06/13/2017 11:00:00	9049643	07/19/2017 11:52:23	DU05-S011-00-01 Soil	171741063702A
1813603	APP31	06/13/2017 11:05:00	9049644	07/19/2017 11:34:08	DU05-S011-01-03 Soil	171741063702A
1813603	APP31	06/13/2017 11:05:00	9049645	07/19/2017 11:39:33	DU05-S011-01-03MS Soil	171741063702A
1813603	APP31	06/13/2017 11:05:00	9049646	07/19/2017 11:41:22	DU05-S011-01-03MSD Soil	171741063702A
1813603	APP31	06/13/2017 11:05:00	9049647	07/19/2017 11:37:45	DU05-S011-01-03DUP Soil	171741063702A
1814697	APP34	06/15/2017 12:30:00	9054976	07/19/2017 11:54:12	DU04-S001-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 12:40:00	9054977	07/19/2017 11:56:01	DU04-S002-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 12:50:00	9054978	07/19/2017 11:57:50	DU04-S003-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 12:50:00	9054979	07/19/2017 11:59:39	DU04-S003-00-01D Soil	171741063702A
1814697	APP34	06/15/2017 13:00:00	9054980	07/19/2017 12:01:27	DU04-S004-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 13:10:00	9054981	07/19/2017 12:03:16	DU04-S005-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 13:20:00	9054982	07/19/2017 12:05:05	DU04-S006-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 13:30:00	9054983	07/19/2017 12:06:54	DU04-S007-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 13:40:00	9054984	07/19/2017 12:12:19	DU04-S008-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 13:40:00	9054985	07/19/2017 12:14:08	DU04-S008-00-01D Soil	171741063702A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1814697	APP34	06/15/2017 13:50:00	9054986	07/19/2017 12:15:58	DU04-S009-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 14:00:00	9054987	07/19/2017 12:17:54	DU04-S010-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 14:10:00	9054988	07/19/2017 12:19:42	DU04-S011-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 14:20:00	9054989	07/19/2017 12:21:30	DU04-S012-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 14:30:00	9054990	07/19/2017 12:23:19	DU04-S013-00-01 Soil	171741063702A
1814697	APP34	06/15/2017 14:40:00	9054991	07/19/2017 12:25:08	DU04-S014-00-01 Soil	171741063702A
1814701	APP36	06/15/2017 08:35:00	9055024	07/25/2017 06:07:05	DU07-S015-01-03 Soil	171981063702A
1814701	APP36	06/15/2017 08:35:00	9055025	07/25/2017 06:13:53	DU07-S015-01-03MS Soil	171981063702A
1814701	APP36	06/15/2017 08:35:00	9055026	07/25/2017 06:16:09	DU07-S015-01-03MSD Soil	171981063702A
1814701	APP36	06/15/2017 08:35:00	9055027	07/25/2017 06:11:37	DU07-S015-01-03DUP Soil	171981063702A
1814701	APP36	06/15/2017 10:25:00	9055028	07/25/2017 06:20:41	DU07-S007-00-01 Soil	171981063702A
1814701	APP36	06/15/2017 10:30:00	9055029	07/25/2017 06:27:46	DU07-S007-01-02 Soil	171981063702A
1814701	APP36	06/15/2017 09:45:00	9055030	07/25/2017 06:30:02	DU07-S005-00-01 Soil	171981063702A
1814701	APP36	06/15/2017 09:50:00	9055031	07/25/2017 06:32:18	DU07-S005-01-02 Soil	171981063702A
1814701	APP36	06/15/2017 09:50:00	9055032	07/25/2017 06:34:34	DU07-S005-01-02D Soil	171981063702A
1814701	APP36	06/15/2017 11:05:00	9055033	07/25/2017 06:36:50	DU07-S011-00-01 Soil	171981063702A
1814701	APP36	06/15/2017 11:10:00	9055034	07/25/2017 06:39:06	DU07-S011-01-03 Soil	171981063702A
1814701	APP36	06/15/2017 11:10:00	9055035	07/25/2017 06:41:22	DU07-S011-01-03D Soil	171981063702A
1814701	APP36	06/15/2017 10:45:00	9055036	07/25/2017 06:43:38	DU07-S010-00-01 Soil	171981063702A
1814759	APP40	06/14/2017 11:15:00	9055405	07/26/2017 11:32:42	DU01-S011-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 11:15:00	9055406	07/26/2017 11:41:16	DU01-S011-01-10D Soil	171721063709A
1814759	APP40	06/14/2017 10:15:00	9055407	07/26/2017 11:44:07	DU01-S016-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 11:10:00	9055408	07/26/2017 11:46:58	DU01-S007-01-10 Soil	171721063709A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1814759	APP40	06/14/2017 11:05:00	9055409	07/26/2017 11:49:49	DU01-S003-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 10:50:00	9055410	07/26/2017 11:52:41	DU01-S004-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 12:35:00	9055411	07/26/2017 11:55:32	DU01-S009-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 12:15:00	9055412	07/26/2017 11:58:24	DU01-S010-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 12:45:00	9055413	07/26/2017 12:01:15	DU01-S013-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 13:00:00	9055414	07/26/2017 12:04:06	DU01-S014-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 12:00:00	9055415	07/26/2017 12:06:57	DU01-S015-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 10:40:00	9055416	07/26/2017 12:15:34	DU01-S008-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 10:30:00	9055417	07/26/2017 12:18:25	DU01-S012-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 14:25:00	9055418	07/26/2017 12:21:16	DU01-S002-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 14:25:00	9055419	07/26/2017 12:24:07	DU01-S002-01-10D Soil	171721063709A
1814759	APP40	06/14/2017 14:05:00	9055420	07/26/2017 12:26:58	DU01-S005-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 14:15:00	9055421	07/26/2017 12:29:49	DU01-S006-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 14:35:00	9055422	07/26/2017 11:15:34	DU01-S001-01-10 Soil	171721063709A
1814759	APP40	06/14/2017 14:35:00	9055423	07/26/2017 11:24:08	DU01-S001-01-10MS Soil	171721063709A
1814759	APP40	06/14/2017 14:35:00	9055424	07/26/2017 11:26:59	DU01-S001-01-10MSD Soil	171721063709A
1814759	APP40	06/14/2017 14:35:00	9055425	07/26/2017 11:21:17	DU01-S001-01-10DUP Soil	171721063709A
1815323	APP45	06/16/2017 10:55:00	9057720	07/26/2017 07:50:14	DU02-S011-00-01D Soil	171771063702B
1815323	APP45	06/16/2017 11:30:00	9057723	07/26/2017 07:52:58	DU02-S014-00-01 Soil	171771063702B
1815323	APP45	06/16/2017 11:00:00	9057724	07/26/2017 07:55:42	DU02-S015-00-01 Soil	171771063702B
1815480	APP46	06/14/2017 12:15:00	9058181	07/03/2017 06:36:48	EB-SO061417-01 Water	171741063901B
1815480	APP46	06/14/2017 12:30:00	9058182	07/03/2017 06:39:54	EB-SO061417-02 Water	171741063901B
1815480	APP46	06/15/2017 11:45:00	9058183	07/03/2017 06:43:01	EB-SO061517-01 Water	171741063901B

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1815480	APP46	06/15/2017 11:30:00	9058184	07/03/2017 06:46:07	EB-SO061517-02 Water	171741063901B
1815480	APP46	06/16/2017 14:10:00	9058185	07/03/2017 06:49:12	EB-SO061617-01 Water	171741063901B
1815480	APP46	06/16/2017 14:20:00	9058186	07/03/2017 06:52:19	EB-SO061617-02 Water	171741063901B
1816462	APP47	06/20/2017 11:10:00	9062559	07/26/2017 06:33:42	DU13-S001-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 11:15:00	9062560	07/26/2017 06:50:06	DU13-S002-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 11:15:00	9062561	07/26/2017 06:58:18	DU13-S002-00-01D Soil	171771063703A
1816462	APP47	06/20/2017 10:00:00	9062562	07/26/2017 07:01:02	DU13-S003-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 09:40:00	9062563	07/26/2017 07:03:46	DU13-S004-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 11:05:00	9062564	07/26/2017 07:06:30	DU13-S005-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 10:10:00	9062565	07/26/2017 07:09:14	DU13-S006-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 09:00:00	9062566	07/26/2017 07:11:58	DU13-S007-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 09:05:00	9062567	07/26/2017 07:14:42	DU13-S008-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 10:35:00	9062568	07/26/2017 07:17:26	DU13-S009-00-01D Soil	171771063703A
1816462	APP47	06/20/2017 10:35:00	9062569	07/26/2017 07:20:10	DU13-S009-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 10:30:00	9062570	07/26/2017 07:22:54	DU13-S010-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 10:55:00	9062571	07/26/2017 07:31:06	DU13-S011-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 09:10:00	9062572	07/26/2017 07:33:50	DU13-S012-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 11:20:00	9062573	07/26/2017 07:36:34	DU13-S013-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 10:40:00	9062574	07/26/2017 07:39:18	DU13-S014-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 11:00:00	9062575	07/26/2017 07:42:02	DU13-S015-00-01 Soil	171771063703A
1816462	APP47	06/20/2017 11:00:00	9062576	07/26/2017 07:44:46	DU13-S015-00-01D Soil	171771063703A
1816462	APP47	06/20/2017 09:25:00	9062577	07/26/2017 07:47:30	DU13-S016-00-01 Soil	171771063703A
1816471	APP48	06/19/2017 15:00:00	9062595	07/26/2017 09:14:18	DU18-S001-00-01 Soil	171771063704A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1816471	APP48	06/19/2017 14:55:00	9062596	07/26/2017 09:28:38	DU18-S002-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 13:50:00	9062597	07/26/2017 09:35:48	DU18-S003-00-01 Soil	171771063704B
1816471	APP48	06/19/2017 13:45:00	9062598	07/26/2017 09:38:11	DU18-S004-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 13:45:00	9062599	07/26/2017 09:40:34	DU18-S004-00-01D Soil	171771063704A
1816471	APP48	06/19/2017 14:50:00	9062600	07/26/2017 09:42:57	DU18-S005-00-01 Soil	171771063704B
1816471	APP48	06/19/2017 14:45:00	9062601	07/26/2017 09:45:20	DU18-S006-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 13:40:00	9062602	07/26/2017 09:47:44	DU18-S007-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 13:35:00	9062603	07/26/2017 09:50:08	DU18-S008-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 14:25:00	9062604	07/26/2017 09:52:31	DU18-S009-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 14:20:00	9062605	07/26/2017 09:54:54	DU18-S010-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 13:05:00	9062606	07/26/2017 09:57:17	DU18-S011-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 13:00:00	9062607	07/26/2017 10:04:26	DU18-S012-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 14:10:00	9062608	07/26/2017 10:06:49	DU18-S013-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 14:05:00	9062609	07/26/2017 10:09:13	DU18-S014-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 13:15:00	9062610	07/26/2017 10:11:36	DU18-S015-00-01 Soil	171771063704A
1816471	APP48	06/19/2017 13:10:00	9062611	07/26/2017 10:14:00	DU18-S016-00-01 Soil	171771063704A
1816472	APP49	06/19/2017 09:45:00	9062612	07/24/2017 10:32:16	DU17-S001-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 09:35:00	9062613	07/24/2017 10:13:49	DU17-S002-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 08:40:00	9062614	07/24/2017 10:35:21	DU17-S003-00-01 Soil	171781063703D
1816472	APP49	06/19/2017 08:40:00	9062615	07/24/2017 10:44:33	DU17-S003-00-01D Soil	171781063703A
1816472	APP49	06/19/2017 09:10:00	9062616	07/24/2017 10:47:37	DU17-S004-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 11:20:00	9062617	07/24/2017 10:50:41	DU17-S005-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 10:20:00	9062618	07/24/2017 10:53:45	DU17-S006-00-01 Soil	171781063703A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1816472	APP49	06/19/2017 09:20:00	9062619	07/24/2017 10:56:49	DU17-S007-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 09:15:00	9062620	07/24/2017 10:59:53	DU17-S008-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 10:25:00	9062621	07/24/2017 11:02:57	DU17-S009-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 10:30:00	9062622	07/24/2017 11:06:01	DU17-S010-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 09:30:00	9062623	07/24/2017 11:09:05	DU17-S011-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 09:25:00	9062624	07/24/2017 11:12:09	DU17-S012-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 11:05:00	9062625	07/24/2017 11:21:22	DU17-S013-00-01 Soil	171781063703D
1816472	APP49	06/19/2017 11:00:00	9062626	07/24/2017 11:24:26	DU17-S014-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 10:50:00	9062627	07/24/2017 11:27:30	DU17-S015-00-01 Soil	171781063703A
1816472	APP49	06/19/2017 10:45:00	9062628	07/24/2017 11:30:34	DU17-S016-00-01 Soil	171781063703A
1816474	APP50	06/19/2017 15:45:00	9062631	07/03/2017 06:55:25	EB-061917-01 Water	171741063901B
1817572	APP54	06/21/2017 09:00:00	9068186	07/10/2017 11:08:46	CH-MW039-02 Water	171761063902A
1817572	APP54	06/21/2017 09:00:00	9068187	07/10/2017 11:17:41	CH-MW039-02MS Water	171761063902A
1817572	APP54	06/21/2017 09:00:00	9068188	07/10/2017 11:20:39	CH-MW039-02MSD Water	171761063902A
1817572	APP54	06/21/2017 09:00:00	9068189	07/10/2017 11:14:43	CH-MW039-02DUP Water	171761063902A
1817572	APP54	06/21/2017 10:40:00	9068190	07/10/2017 11:26:37	CH-MW040-02 Water	171761063902A
1817572	APP54	06/21/2017 10:40:00	9068191	07/10/2017 11:29:35	CH-MW040-02D Water	171761063902A
1817572	APP54	06/21/2017 11:55:00	9068192	07/10/2017 11:38:29	CH-MW042-02 Water	171761063902A
1817572	APP54	06/21/2017 13:30:00	9068193	07/10/2017 11:41:27	CH-MW036-02 Water	171761063902A
1817572	APP54	06/21/2017 14:55:00	9068194	07/10/2017 11:44:24	CH-MW041-02 Water	171761063902A
1817572	APP54	06/21/2017 15:55:00	9068195	07/10/2017 11:47:23	CH-MW038-02 Water	171761063902A
1817574	APP55	06/21/2017 09:00:00	9068197	07/11/2017 08:07:54	CH-MW039-02F Water	171761063903B
1817574	APP55	06/21/2017 09:00:00	9068198	07/11/2017 08:12:59	CH-MW039-02FMS Water	171761063903B

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1817574	APP55	06/21/2017 09:00:00	9068199	07/11/2017 08:14:40	CH-MW039-02FMSD Water	171761063903B
1817574	APP55	06/21/2017 09:00:00	9068200	07/11/2017 08:11:18	CH-MW039-02FDUP Water	171761063903B
1817574	APP55	06/21/2017 10:40:00	9068201	07/11/2017 08:18:04	CH-MW040-02F Water	171761063903B
1817574	APP55	06/21/2017 10:40:00	9068202	07/11/2017 08:19:47	CH-MW040-02DF Water	171761063903B
1817574	APP55	06/21/2017 11:55:00	9068203	07/06/2017 13:14:08	CH-MW042-02F Water	171761063903B
1817574	APP55	06/21/2017 13:30:00	9068204	07/06/2017 13:17:14	CH-MW036-02F Water	171761063903B
1817574	APP55	06/21/2017 14:55:00	9068205	07/06/2017 13:20:20	CH-MW041-02F Water	171761063903B
1817574	APP55	06/21/2017 15:55:00	9068206	07/06/2017 13:23:26	CH-MW038-02F Water	171761063903B
1817576	APP56	06/22/2017 09:35:00	9068208	07/06/2017 13:26:33	CH-MW029-02 Water	171761063903B
1817576	APP56	06/22/2017 10:25:00	9068209	07/06/2017 13:29:38	CH-MW025-02 Water	171761063903B
1817576	APP56	06/22/2017 10:35:00	9068210	07/06/2017 13:32:45	CH-MW027-02 Water	171761063903B
1817576	APP56	06/22/2017 12:30:00	9068212	07/06/2017 13:35:51	CH-MW028-02 Water	171761063903B
1817576	APP56	06/22/2017 12:40:00	9068213	07/06/2017 13:38:57	CH-MW037-02 Water	171761063903B
1817576	APP56	06/22/2017 09:35:00	9068216	07/06/2017 13:42:04	CH-MW029-02F Water	171761063903B
1817576	APP56	06/22/2017 10:25:00	9068217	07/06/2017 13:51:19	CH-MW025-02F Water	171761063903B
1817576	APP56	06/22/2017 10:35:00	9068218	07/06/2017 13:54:24	CH-MW027-02F Water	171761063903B
1817576	APP56	06/22/2017 12:30:00	9068219	07/06/2017 13:57:31	CH-MW028-02F Water	171761063903B
1817576	APP56	06/22/2017 12:40:00	9068220	07/06/2017 14:00:37	CH-MW037-02F Water	171761063903B
1817576	APP56	06/22/2017 13:35:00	9068223	07/06/2017 14:03:43	CH-MW026-02 Water	171761063903B
1817576	APP56	06/22/2017 12:40:00	9068224	07/06/2017 14:06:47	CH-MW037-02D Water	171761063903B
1817576	APP56	06/22/2017 12:40:00	9068225	07/10/2017 11:50:21	CH-MW037-02DF Water	171761063902A
1817576	APP56	06/22/2017 13:35:00	9068226	07/10/2017 11:53:18	CH-MW026-02F Water	171761063902A
1818743	APP61	06/26/2017 10:55:00	9073428	07/12/2017 05:00:45	CH-MW022-02 Water	171801063904A

Table: Affected Samples

Group	SDG	Collection Date	Sample Affected	Sample Analysis Date	Description 1	Batch
1818743	APP61	06/26/2017 10:55:00	9073429	07/12/2017 05:03:52	CH-MW022-02D Water	171801063904A
1818743	APP61	06/26/2017 11:00:00	9073432	07/12/2017 05:13:08	CH-MW023-02 Water	171801063904A
1818743	APP61	06/26/2017 12:20:00	9073435	07/12/2017 05:16:17	CH-MW018-02 Water	171801063904A
1818743	APP61	06/26/2017 12:20:00	9073436	07/12/2017 05:19:25	CH-MW018-02D Water	171801063904A
1818743	APP61	06/26/2017 15:00:00	9073438	07/12/2017 05:22:32	CH-MW030-02 Water	171801063904A
1818743	APP61	06/26/2017 10:55:00	9073440	07/12/2017 05:25:39	CH-MW022-02F Filtered Water	171801063904A
1818743	APP61	06/26/2017 10:55:00	9073441	07/12/2017 05:28:46	CH-MW022-02DF Filtered Water	171801063904A
1818743	APP61	06/26/2017 11:00:00	9073442	07/12/2017 05:31:52	CH-MW023-02F Filtered Water	171801063904A
1818743	APP61	06/26/2017 12:20:00	9073443	07/12/2017 05:34:58	CH-MW018-02F Filtered Water	171801063904A
1818743	APP61	06/26/2017 12:20:00	9073444	07/12/2017 05:38:05	CH-MW018-02DF Filtered Water	171801063904A
1818743	APP61	06/26/2017 15:00:00	9073445	07/12/2017 05:41:11	CH-MW030-02F Filtered Water	171801063904A
1818743	APP61	06/26/2017 14:45:00	9073446	07/12/2017 05:50:25	CH-MW020-02F Filtered Water	171801063904A
1818743	APP61	06/26/2017 13:10:00	9073447	07/12/2017 05:53:33	CH-MW024-02F Filtered Water	171801063904A
1818743	APP61	06/26/2017 14:45:00	9073448	07/12/2017 05:56:39	CH-MW020-02 Water	171801063904A
1818743	APP61	06/26/2017 13:10:00	9073449	07/12/2017 05:59:45	CH-MW024-02 Water	171801063904A
1819406	APP62	06/27/2017 14:15:00	9077315	07/12/2017 06:02:51	CH-MW043-02F Filtered Water	171801063904A
1819406	APP62	06/27/2017 13:50:00	9077316	07/12/2017 04:42:10	CH-MW016-02F Filtered Water	171801063904A
1819406	APP62	06/27/2017 13:50:00	9077317	07/12/2017 04:51:28	CH-MW016-02FMS Filtered Water	171801063904A
1819406	APP62	06/27/2017 13:50:00	9077318	07/12/2017 04:54:35	CH-MW016-02FMSD Filtered Water	171801063904A
1819406	APP62	06/27/2017 13:50:00	9077319	07/12/2017 04:48:23	CH-MW016-02FDUP Filtered Water	171801063904A
1819406	APP62	06/28/2017 09:05:00	9077320	07/12/2017 06:05:56	CH-MW019-02F Filtered Water	171801063904A

November 2, 2017

Dorothy Love
Eurofins Lancaster Laboratories Environmental, LLC
2425 New Holland Pike
P.O. Box 12425
Lancaster PA 17605-2425
United States

Dear Ms. Love:

The purpose of this letter is to summarize the sequence of events regarding your laboratory's reporting of a prohibited practice occurring and the subsequent actions that were taken to address and contain any effect on customer data.

On September 14, 2017, a data validator notified your laboratory of a potential data issue. The management team of the laboratory determined that there was indeed a prohibited practice that had taken place and was centered on one employee and immediately began a full investigation into the impact on customer data and implementation of corrective action. The requirements of the DoD Quality System Manual section 4.9.4 state:

> "All DoD ELAP laboratories must report any instances of in appropriate and prohibited laboratory practices, as detailed in Section 5.2.7 of the DoD QSM, to their AB within fifteen (15) business days of discovery. DoD ELAP laboratories must submit records of associated corrections taken or proposed corrective actions to the AB within thirty (30) business days of discovery."

Therefore, you notified A2LA of this discovered prohibited practice on September 19, 2017. Notification to clients regarding their projects that were impacted was made on October 18, 2017 and a full corrective action was submitted to A2LA and the DoD on October 19, 2017 which was then accepted and the issue closed.

This matter was handled professionally and efficiently meeting the requirements for accreditation in the DoD Environmental Laboratory Accreditation Program (ELAP) administered by A2LA and therefore there was no impact on the accreditation status of your laboratory throughout this process.

Sincerely,



Accreditation Manager
email: cgunning@A2LA.org

Master Code: 9777
Certificates: Environmental (0001.01)

This document contains confidential and proprietary information and is the property of A2LA.

AECOM-Tidewater JV
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Arlington, VA 22201
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Attachment C: Summary of Lab Issues and Assessment

Attachment C: Summary of Lab Issues and Assessment

SDG	Media	SEDD Reissued ?	Analyte	Lab QC Issue Type	AECOM Assessment	Impact	ADR Automaically Applied Qualifiers
APP03	Groundwater	confirm	calcium	ICSA/ ICSAB	The ICSA and ICSAB percent recoveries for calcium were within QC specifications (changed from 93.4% to 106.73%) in the original report as well as in the corrected report. QC specification is 80-120%	none	none
APP08	Soil	no	silver, antimony	CCV	The CCV percent recoveries for silver (changed from 106.1% to 110.11%) and antimony (changed from 106.87% to 110.87%) were within QC specifications in the original run as well as in the corrected package. QC specification is 80-120%	none	none
APP10	Groundwater	confirm	calcium	ICSA/ ICSAB	The ICSA and ICSAB percent recoveries for calcium were within QC specifications (changed from 93.4% to 106.73%) in the original report as well as in the corrected report. QC specification is 80-120%	none	none
APP11	Soil	yes	manganese	Result	The result for manganese for field sample 203-SB16-01DUP changed from 299 mg/kg to 315 mg/kg. The upper end of the linear range was 302 mg/kg. Normal and Field Duplicate precision will increase slightly.	major	none required
APP17	Sediment	no	vanadium	LLC	The percent recovery for Vanadium in the Low Level Check Standard changed from 108.1% to 138.1%. The QC specification is 80-120%. All vanadium results were above LOQ.	minor, no additional qualifiers	none
			calcium	CCV	The percent recovery for Calcium in the Continuing Calibration Verification changed from 107.61% to 115.61%. The QC specification is 90-110%.	minor, no additional qualifiers	none
APP18	Sediment	no	vanadium	LLC	The percent recovery for Vanadium in the Low Level Check Standard changed from 108.1% to 138.1%. The QC specification is 80-120%. All vanadium results were above LOQ.	minor, no additional qualifiers	none
			calcium	CCV	The percent recovery for Calcium in the Continuing Calibration Verification changed from 107.61% to 115.61%. The QC specification is 90-110%.	minor, no additional qualifiers	none
APP19	Surface water	yes	silver	LCS	The percent recovery for Silver in the Laboratory Control Sample changed from 101% to 61%. The QC specification is 85-116%.	minor, no additional qualifiers	J- (detects), UJ (nondetects)
APP20	Surface water	yes	silver	MS	The percent recovery for Silver in the Matrix Spike changed from 100% to 60%. The QC specification is 85-116%.	minor, no additional qualifiers	J- (detects), UJ (nondetects)
		yes	silver	MSD	The percent recovery for Silver in the Matrix Spike Duplicate changed from 103% to 63%. The QC specification is 85-116%.	minor, no additional qualifiers	J- (detects), UJ (nondetects)
		yes	silver	LCS	The percent recovery for Silver in the Laboratory Control Sample changed from 101% to 61%. The QC specification is 85-116%.	minor	J- (detects), UJ (nondetects)
APP21	Sediment	yes	barium, calcium, copper, lead, thallium, vanadium, zinc	LCS	The percent recovery for Barium in the Laboratory Control Sample changed from 95% to 83%. The QC specification is 86-116%. The percent recovery for Calcium in the Laboratory Control Sample changed from 94% to 84%. The QC specification is 86-118%.The percent recovery for Thallium in the Laboratory Control Sample changed from 96% to 76%. The QC specification is 86-118%. The percent recovery for Vanadium in the Laboratory Control Sample changed from 104% to 84%. The QC specification is 82-116%. The percent recovery for Thallium in the Laboratory Control Sample changed from 96% to 76%. The QC specification is 83-118%. The percent recovery for Lead in the Laboratory Control Sample changed from 98% to 152%. The QC specification is 84-118%. The percent recovery for Zinc in the Laboratory Control Sample changed from 104% to 116%. The QC specification is 82-119%. The percent recovery for Copper in the Laboratory Control Sample changed from 105% to 145%. The QC specification is 84-119%.Qualifiers could change.	minor	J- (detects with low bias), J+ (detects with high bias), UJ (nondetects)
			nickel	CCV	The percent recovery for Nickel in the Continuing Calibration Verification changed from 104.06% to 112.06%. The QC specification is 90-110%.	minor, no additional qualifiers	none
			manganese, cobalt	ICSA	The absolute value of 0.0047 mg/kg for Manganese was > 2 times the Limit of Quantitation (LOQ) in the associated Interference Check Standard A. The QC specification is < 2 times the absolute value of the LOQ of 0.0040 mg/kg. The absolute value of 0.0011 mg/kg for Cobalt was > 2 times the Limit of Quantitation (LOQ) in the associated Interference Check Standard A. The QC specification is < 2 times the absolute value of the LOQ of 0.0010 mg/kg. The ICSAB was within QC limits for manganese and cobalt.	minor, no additional qualifiers	none
			barium, calcium	LLC	The percent recovery for Calcium in the Low Level Check Standard changed from 95.68% to 70.68%. The percent recovery for Barium in the Low Level Check Standard changed from 99.28% to 74.28%. The QC specification is 80-120%. All barium and calcium results were above LOQ.	minor, no additional qualifiers	none
APP22	Surface water	no	manganese	ICSA	The absolute value of 3.8 ug/l for Manganese was > 2 times the Limit of Quantitation (LOQ) in the Interference Check Standard A. The QC specification is < 2 times the absolute value of the LOQ of 4.0 ug/l. Manganese was detected in the ICSA and outside of QC limits; however in the ICSAB, manganese was within QC limits.	minor, no additional qualifiers	none
APP23	Sediment	yes	calcium	LCS	The percent recovery for Calcium in the Laboratory Control Sample changed from 95% to 85%. The QC specification is 86-118%.	minor	J- (detects), UJ (nondetects)
			calcium	LLC	The percent recovery for Calcium in the Low Level Check Standard changed from 109.15% to 124.15%. The QC specification is 80-120%. All calcium results were above LOQ.	minor, no additional qualifiers	none
APP24	Surface water	yes	zinc	MB	The result for zinc in the MB changed from < 7.5 ug/l to 39.9 ug/l. Detected zinc results could change to nondetects.	major	20 sample results became nondetects
			vanadium, calcium	CCV	The CCV percent recoveries for vanadium (changed from 105.06% to 113.06%) and calcium (changed from 104.02% to 116.02%) were within QC specifications in the original run as well as in the corrected package. QC specification is 80-120%	minor, no additional qualifiers	none
			cobalt	ICSA	The absolute value of 1.2 ug/l for Cobalt was > 2 times the Limit of Quantitation (LOQ) in the Interference Check Standard A. The QC specification is < 2 times the absolute value of the LOQ of 1.0 ug/l. Cobalt was detected in the ICSA and outside of QC limits; however in the ICSAB, cobalt was within QC limits.	minor, no additional qualifiers	none
APP25	Sediment	yes	manganese	MB	The result for manganese in the MB changed from < 0.200 mg/kg to 0.184 J mg/kg. Detected manganese results could change to nondetects.	major	none reguired
			manganese	LCS	The percent recovery for Manganese in the Laboratory Control Sample associated with this sample changed from 106% to 122%. The QC specification is 85-116%. Qualifiers could change.	minor	J+ (detects), UJ (nondetects)
			calcium	CCV	The percent recovery for Calcium in the Continuing Calibration Verification changed from 95.75% to 87.75%. The QC specification is 90-110%.	minor, no additional qualifiers	none
			calcium	LLC	The percent recovery for Calcium in the Low Level Check Standard changed from 90.05% to 77.55%. The QC specification is 80-120%. All calcium results were above LOQ.	minor, no additional qualifiers	none
			calcium	ICSA/ ICSAB	The percent recovery for Calcium in the Interference Check Standard A changed from 88.65% to 71.98%. The percent recovery for Calcium in the Interference Check Standard AB changed from 89.66% to 79.66%. The QC specification is 80-120%.	minor, no additional qualifiers	none
			cobalt	ICSA	The absolute value of 0.00098 mg/kg for Cobalt was > 2 times the Limit of Quantitation (LOQ) in the Interference Check Standard A. The QC specification is < 2 times the absolute value of the LOQ of 0.0010 mg/kg.Cobalt was detected in the ICSA and above QC limits; however in the ICSAB, cobalt was within QC limits.	minor, no additional qualifiers	none
APP26	Surface water	yes	manganese	MB	The result for manganese in the MB changed from < 2.0 ug/l to 1.5 J ug/l. Detected manganese results could change to nondetects.	major	14 sample results became nondetects
			antimony	LCS	The percent recovery for Antimony in the Laboratory Control Sample changed from 98% to 82%. The QC specification is 85-117%. Qualifiers could change.	minor	J- (detects), UJ (nondetects)
			cobalt	ICSA	The absolute value of 1.4 ug/l for Cobalt was > 2 times the Limit of Quantitation (LOQ) in the Interference Check Standard A. The QC specification is < 2 times the absolute value of the LOQ of 1.0 ug/l.Cobalt was detected in the ICSA and above QC limits; however in the ICSAB, cobalt was within QC limits.	minor, no additional qualifiers	none
APP27	Sediment	confirm	vanadium	ICSAB	The percent recovery for Vanadium in the Interference Check Standard AB changed from 108.74% to 123.74%. The QC specification is 80-120%.	minor, no additional qualifiers	none
APP28	Surface water	confirm	antimony, calcium, silver	CCV	The CCV percent recoveries for antimony (changed from 107.71% to 111.71%) calcium (changed from 107.85% to 111.85%) and silver (changed from 106.56% to 110.56%.) QC specification is 90-110%	minor, no additional qualifiers	none
			arsenic, barium, calcium, cadmium, chromium, manganese	LLC	The percent recoveries in the LLC were not within QC specification for several analytes. The LCS which is 2 to 5 times the LLC was within specifications for these analytes. (arsenic changed from 92.18% to 79.68%; calcium changed from 117.33% to 122.33%; barium changed from 116.95% to 114.95%; silver changed from 105.8% to 125.8%; manganese changed from 105.73% to 123.23%; chromium changed from 110.25% to 122.75%; cadmium changed from 119.8% to 139.8%)	minor, no additional qualifiers	none
APP29	Soil	yes	calcium	MB	The result for calcium in the MB changed from <40.0 mg/kg to 20.3 J mg/kg. Detected calcium results could change to nondetects.	major	none required

			antimony, chromium, calcium	CCV	The CCV percent recoveries for antimony (changed from 95.8% to 87.8%) and calcium (changed from 93.3% to 89.3%) QC specification is 90-110%. The Internal standard for Chromium, SC-1, recovered at 132% in the Continuing Calibration Verification. The QC specification is 70-130%.	minor, no additional qualifiers	none
			cadmium	LLC	The percent recovery for Cadmium in the Low Level Check Standard changed from 104% to 124%. The QC specification is 80-120%.The LCS which is 2 to 5 times the LLC was within specifications for cadmium.	minor, no additional qualifiers	none
			cadmium	ICSAB	The percent recovery for Cadmium in the Interference Check Standard AB changed from 113.1% to 123.1%. The QC specification is 80-120%.No impact to the qualifiers.	minor, no additional qualifiers	none
APP30	Soil	no	vanadium	LLC	The percent recovery for Vanadium in the Low Level Check Standard changed from 96.9% to 76.9%. The QC specification is 80-120%. The LCS which is 2 to 5 times the LLC was within specifications for vanadium.	minor, no additional qualifiers	none
APP31	Soil	yes	antimony, arsenic, barium, cadmium, cobalt, copper, nickel, silver, zinc	CCV	The Internal standard for arsenic, nickel, calcium, cobalt, barium, cadmium, copper, and silver recovered at 131% in the Continuing Calibration Verification. The QC specification is 70-130%.	minor, no additional qualifiers	none
			manganese, thallium	LCS	The percent recovery for Manganese in the Laboratory Control Sample changed from 104% to 116%. The QC specification is 85-116%. The percent recovery for Thallium in the Laboratory Control Sample changed from 93% to 83%. The QC specification is 83-118%.Qualifiers could change.	minor	J- (detects with low bias), J+ (detects with high bias), UJ (nondetects)
			silver	LLC	The percent recovery for Silver in the Low Level Check Standard changed from 95.4% to 75.4%. The QC specification is 80-120%. The LCS which is 2 to 5 times the LLC was within specifications for cadmium.	minor, no additional qualifiers	none
APP34	Soil	confirm	calcium, aluminum, antimony, sodium	CCV	The percent recovery for Calcium in the Continuing Calibration Verification changed from 93.84% to 89.84%. The percent recovery for Aluminum in the Continuing Calibration Verification changed from 107.02% to 127.02%. The percent recovery for Antimony in the Continuing Calibration Verification changed from 93.56% to 89.56%. The percent recovery for Sodium in the Continuing Calibration Verification changed from 93.22% to 89.22%. The QC specification is 90-110%.	Rejected all the metals; samples were re-analyzed	R (manually applied)
			aluminum, antimony, arsenic, cadmium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, sodium, magnesium, vanadium, zinc, silver	LLC	The percent recovery for Sodium in the Low Level Check Standard changed from 101.45% to -.7%. The percent recovery for Cadmium in the Low Level Check Standard changed from 100.5% to -.5%. The percent recovery The percent recovery for calcium in the low level check standard changed from 110% to 0%. for Antimony in the Low Level Check Standard changed from 101.75% to 1.75%. The percent recovery for Arsenic in the Low Level Check Standard changed from 101.4% to 1.4%. The percent recovery for Zinc in the Low Level Check Standard changed from 100.79% to .79%. The percent recovery for Silver in the Low Level Check Standard changed from 100.5% to -.5%. The percent recovery for Potassium in the Low Level Check Standard changed from 102.26% to -.51%. The percent recovery for Aluminum in the Low Level Check Standard changed from 105.23% to -1.23%. The percent recovery for Iron in the Low Level Check Standard changed from 105.17% to -5.17%. The percent recovery for Nickel in the Low Level Check Standard changed from 100.4% to -.4%. The percent recovery for Magnesium in the Low Level Check Standard changed from 104.72% to -.22%. The percent recovery for Cobalt in the Low Level Check Standard changed from 101.3% to -1.3%.The percent recovery for Chromium in the Low Level Check Standard changed from 107.25% to 7.25%. The percent recovery for Vanadium in the Low Level Check Standard changed from 102.3% to -2.3%. The percent recovery for Manganese in the Low Level Check Standard changed from 104.33% to -4.33%. The percent recovery for Copper in the Low Level Check Standard changed from 100.23% to .23%. The percent recovery for Iron in the Low Level Check Standard changed from 105.17% to -5.17%. The QC specification is 80-120%. The LCS which is 2 to 5 times the LLC was within QC limits.	Rejected all the metals; samples were re-analyzed	R (manually applied)
APP36	Soil	yes	manganese	MB	The result for manganese in the MB changed from <0.200 mg/kg to 0.198 J mg/kg. Detected manganese results could change to nondetects.	major	none required
			manganese, selenium, vanadium	CCV	The percent recovery for Selenium in the Continuing Calibration Verification changed from 105.6% to 113.6%. The QC specification is 90-110%. The Internal standard for Vanadium recovered at 104%. The Internal standard for Manganese recovered at 106% in the Continuing Calibration Verification. The QC specification is 70-130%.	minor, no additional qualifiers	none
APP40	Soil	yes	manganese	LCS	The percent recovery for Manganese in the Laboratory Control Sample changed from 92% to 48%. The QC specification is 85-116%. Qualifiers could change.	minor	J- (detects), UJ (nondetects)
			manganese, vanadium	CCV	The Internal standard for Vanadium recovered at 87% and manganese recovered at 82% in the Continuing Calibration Verification. The QC specification is 70-130%.	none	none
			manganese, vanadium	LLC	The percent recovery for Manganese in the Low Level Check Standard changed from 100.58% to -150.58%. The percent recovery for Vanadium in the Low Level Check Standard changed from 94.5% to 54.5%. The QC specification is 80-120%. All sample results were above LOQ. The LCS which is 2 to 5 times the LLC was within QC limits.	minor, no additional qualifiers	none
APP45	Soil	no	calcium	ICV, CCV	The percent recovery for Calcium in the Initial Calibration Verification changed from 93.26% to 89.26%. The QC specification is 90-110%. The percent recovery for Calcium in the Continuing Calibration Verification changed from 105.76% to 109.76%. The QC specification is 90-110%.	minor, no additional qualifiers	none
APP46	Equipment Blank (oen sample)	no	antimony, aluminum, calcium	CCV	The percent recovery for Antimony in the Continuing Calibration Verification changed from 93.44% to 89.44%. The percent recovery for Aluminum in the Continuing Calibration Verification changed from 105.74% to 121.74%. The percent recovery for Calcium in the Continuing Calibration Verification changed from 104.95% to 112.95%. The QC specification is 90-110%.	minor, no additional qualifiers	none
			vanadium, barium	LLC	The percent recovery for Vanadium in the Low Level Check Standard changed from 113.7% to 123.7%. The percent recovery for Barium in the Low Level Check Standard changed from 94.2% to 81.7%.The QC specification is 80-120%	minor, no additional qualifiers	none
			calcium	MS/MSD	The MS/MSD was not performed on samples from this SDG.	none	none
APP47	Soil	no	calcium	ICV, CCV	The percent recovery for Calcium in the Initial Calibration Verification changed from 93.26% to 89.26%. The QC specification is 90-110%. The percent recovery for Calcium in the Continuing Calibration Verification changed from 105.76% to 109.76%. The QC specification is 90-110%.	minor, no additional qualifiers	none
			beryllium	LLC	The Internal standard for Beryllium recovered at 97% in the LLC. The QC specification is 70-130%.	minor, no additional qualifiers	none
APP48	Soil	no	calcium, cadmium	CCV	The Internal standard for Cadmium, recovered at 108% in the Continuing Calibration Verification. The QC specification is 70-130%. The percent recovery for Calcium in the Continuing Calibration Verification changed from 106.62% to 114.62%. The QC specification is 90-110%	minor, no additional qualifiers	none
			antimony, calcium	LLC	TThe percent recovery for Calcium in the Low Level Check Standard changed from 95.55% to 75.55%. The percent recovery for Antimony in the Low Level Check Standard changed from 90.3% to 80.3%. The QC specification is 80-120%. The LCS which is 2 to 5 times the LLC was within QC limits.	minor, no additional qualifiers	none
APP49	Soil	yes	barium, cadmium	LCS	The percent recovery for Cadmium in the Laboratory Control Sample changed from 97% to 117%. The QC specification is 84-116%. The percent recovery for Barium in the Laboratory Control Sample changed from 107% to 119%. The QC specification is 86-116%. Qualifiers could change.	minor	J- (detects), UJ (nondetects)
			antimony	LLC	The percent recovery for Antimony in the Low Level Check Standard changed from 107.65% to 122.65%. The QC specification is 80-120%. The LCS which is 2 to 5 times the LLC was within QC limits	minor, no additional qualifiers	none
			aluminum, beryllium, calcium, chromium, iron, magnesium, potassium, sodium, selenium	CCV	The Internal standard for Aluminum recovered at 79% in the Continuing Calibration Verification. The Internal standard for Beryllium recovered at 76%. The Internal standard for Calcium recovered at 79%. The Internal standard for Chromium recovered at 79%. The Internal standard for Iron recovered at 79%. The Internal standard for Magnesium recovered at 79%. The Internal standard for Potassium recovered at 79%. The Internal standard for Sodium recovered at 79% in the Continuing Calibration Verification. The Internal standard for Selenium recovered at 89%. The QC specification is 70-130%.	minor, no additional qualifiers	none
APP50	Equipment Blank (one sample)	no	antimony, calcium	CCV	he percent recovery for Calcium in the Continuing Calibration Verification changed from 104.95% to 112.95%. The percent recovery for Antimony in the Continuing Calibration Verification changed from 93.44% to 89.44%. The QC specification is 90-110%.	minor, no additional qualifiers	none
APP54	Groundwater	no	antimony	ICV	The percent recovery for Antimony in the Initial Calibration Verification changed from 104.57% to 124.57%. The QC specification is 90-110%.	minor, no additional qualifiers	none
APP55	Groundwater	no	calcium	CCB	The result in the CCB for calcium changed from 15 ug/l to 100 ug/l. The QC specification is less than the absolute value of 280 ug/l.	minor, no additional qualifiers	none; Results range from 3760 to 40900 ug/l
APP56	Groundwater	no	calcium	CCB	The result in the CCB for calcium changed from 15 ug/l to 100 ug/l. The QC specification is less than the absolute value of 280 ug/l.	minor, no additional qualifiers	none; Results range from 6700 to 24100 ug/l

			antimony	ICV	The percent recovery for Antimony in the Initial Calibration Verification changed from 104.57% to 124.57%. The QC specification is 90-110%.	minor, no additional qualifiers	none
APP61	Groundwater	no	manganese	MS/MSD	The MS/MSD was not performed on a sample from this SDG.	none	none
		no	antimony, calcium	CCV	The percent recovery for Antimony in the Continuing Calibration Verification changed from 93.66% to 89.66%. The percent recovery for Calcium in the Continuing Calibration Verification changed from 106.24% to 110.24%. The QC specification is 90-110%.	minor, no additional qualifiers	none
		no	aluminum	CCB	The result in the CCB for aluminum changed from 22 ug/l to 220 ug/l. The QC specification is less than the absolute value of 53 ug/l.	minor	200 U for 2 samples with detects below LOQ associated with CCB
		no	aluminum, calcium	LLC	The percent recovery for Aluminum in the Low Level Check Standard changed from 106.67% to 131.67%. The percent recovery for Calcium in the Low Level Check Standard changed from 105.6% to 125.6%. The QC specification is 80-120%. The LCS which is 2 to 5 times the LLC was within QC limits	minor, no additional qualifiers	none
APP62	Groundwater	no	aluminum	CCB	The result in the CCB for aluminum changed from 22 ug/l to 220 ug/l. The QC specification is less than the absolute value of 53 ug/l.	minor	200 U for 2 samples with detects below LOQ associated with CCB
		no	antimony, calcium	CCV	The percent recovery for Calcium in the Continuing Calibration Verification changed from 105.8% to 117.8%. The percent recovery for Antimony in the Continuing Calibration Verification changed from 93% to 89%. The QC specification is 90-110%.	minor, no additional qualifiers	none
		no	aluminum, calcium	LLC	The percent recovery for Calcium in the Low Level Check Standard changed from 105.6% to 125.6%. The percent recovery for Aluminum in the Low Level Check Standard changed from 106.7% to 131.7%. The QC specification is 80-120%.The LCS which is 2 to 5 times the LLC was within QC limits	minor, no additional qualifiers	none
		yes	manganese	result	The altered result for CH-MW016-02F was significantly above the calibration linear range, thus the lab reanalyzed a preserved and within hold time sample, LD and MS/MSD for manganese. The reanalyzed MS/MSD were outside of QC Limits	major	J+ (detects)

Notes:

CCB	Continuing calibration blank
CCV	Continuing calibration verification
ICSA	Interference check solution A
ICSAB	Interference check solution AB
ICV	Initial calibration verification
LCS	Laboratory control sample
LD	Laboratory duplicate
LLC	Lower level calibration check
MB	Method blank
MS/MSD	Matrix spike/matrix spike duplicate
QC	Quality control
confirm	Confirm results and qualifiers had not changed from original to corrected data package (SEDD was reissued for verification)
ug/l	micrograms per liter

Attachment G

Daily Field Reports

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United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 11/29/2016 Monday

DR No. 01		**WRITTEN BY**: Amanda Martin			**PROJECT NUMBER**: 60443903
Weather: H 58°F Cloudy, Evening Rain		**Days without a lost time injury:** 1			
NAME:	**HRS**	**TRADE:**	**COMPANY:**	**EQUIPMENT:**	**VISITORS/AFFILIATION:**
Mike Glinski	8.5	SSHO	AECOM	Shondstadt Magnetometer	PJ Mion, USACE
Amanda Martin	8.5	Site Supervisor	AECOM		
Brendan McGuinness	8.5	Field Quality Manager	AECOM		
Steve Glenn	8.5	Botanist	AECOM		
Matt Legg	8.5	UXO Tech II	AECOM		
Andrew Borden	0	Geologist	AECOM		
John Schroeder	0	Geologist	AECOM		
Sarah Ault	0	Geologist	AECOM		
Nicole Schulman	0	Environmental Scientist	AECOM		
DAILY TOTAL	42.5				
TOTAL TO DATE	42.5	*(on-site hours only)*			

SUBCONTRACTORS:	**SITE DELIVERIES (indicate size, type, and condition):**
Premiere Utility (NY811 Contractor)	Call-a-Head NY delivered Porta-John

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0730 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

The team completed location flagging, rare and endangered plant surveying, and UXO anomaly avoidance at all background well locations and the majority of the LIF/MIP investigation grid at former Building 203 (see attached Field Checklists for details).

Premiere Utility was on site to complete utility clearance tickets (via NY811) placed by Summit Drilling (LIF/MIP) and Cascade/TWS (well installations and soil borings). All locations were cleared and AECOM utility clearance checklists were completed.

The team demobilized from the site at 1600.

WORK COMPLETED BY AECOM SUBCONTRACTORS

None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 11/29/2016 Monday

DR No. 01		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 10 team members would be on site (including USACE, AECOM, and CGE). Brendan McGuinness, Steve Glenn, and Amanda Martin met with Tom Dess to discuss the Phase II activities. Mr. Dess provided keys to access the necessary areas of the park and the West Gate House, to be used as a staging area. Mr. Dess was amenable to the Phase II activities and had no objections to the work being performed. He requested that background monitoring wells CH- MW011, CH-MW013, and CH-MW014 be completed as flushmount.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

The AECOM team purchased permethrin-imbedded clothing to be worn on site as a tick-preventative measure. The team reviewed concerns about tick safety and practiced caution in the field by tucking pants into socks, performing tick checks, and wearing permethrin-treated clothing.

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

Daily Photos

No photographs were collected today.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring/Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)		Premiere 11/29/16							
		CH-MW017	MW (no SO)		Premiere 11/29/16							
		CH-MW018	MW (no SO)		Premiere 11/29/16							
		CH-MW019	MW (no SO)		Premiere 11/29/16							
		CH-MW020	MW (no SO)		Premiere 11/29/16							
		CH-MW021	MW (no SO)		Premiere 11/29/16							
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only		Premiere 11/29/16							
		203-SB07	SO Only		Premiere 11/29/16							
		203-SB08	SO Only		Premiere 11/29/16							
		203-SB09	SO Only		Premiere 11/29/16							
		203-SB10	SO Only		Premiere 11/29/16							
		203-SB11	SO Only		Premiere 11/29/16							
		203-SB12	SO Only		Premiere 11/29/16							
		203-SB13	SO Only		Premiere 11/29/16							
		203-SB14	SO Only		Premiere 11/29/16							
		203-SB15	SO Only		Premiere 11/29/16							
		203-SB16	SO Only		Premiere 11/29/16							
		203-SB17	SO Only		Premiere 11/29/16							
		203-SB18	SO Only		Premiere 11/29/16							
		203-SB19	SO Only		Premiere 11/29/16							
		203-SB20	SO Only		Premiere 11/29/16							
		203-SB21	SO Only		Premiere 11/29/16							
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only		Premiere 11/29/16							
		203-SB23	SO Only		Premiere 11/29/16							
		203-SB24	SO Only		Premiere 11/29/16							
		203-SB25	SO Only		Premiere 11/29/16							
		203-SB26	SO Only		Premiere 11/29/16							
		203-SB27	SO Only		Premiere 11/29/16							
		203-SB28	SO Only		Premiere 11/29/16							
		203-SB29	SO Only		Premiere 11/29/16							
		203-SB30	SO Only		Premiere 11/29/16							
		203-SB31	SO Only		Premiere 11/29/16							
		203-SB32	SO Only		Premiere 11/29/16							
		203-SB33	SO Only		Premiere 11/29/16							
		203-SB34	SO Only		Premiere 11/29/16							
		203-SB35	SO Only		Premiere 11/29/16							
		203-SB36	SO Only		Premiere 11/29/16							
		203-SB37	SO Only		Premiere 11/29/16							

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	UXO Anomaly Avoidance	Botany Survey	LIF Survey	MIP Survey
LIF MIP Survey Locations								
203	LIF/MIP Survey at Building 203	A	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		B	LIF/MIP					
		C	LIF/MIP					
		D	LIF/MIP					
		E	LIF/MIP					
		F	LIF/MIP					
		G	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		H	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		I	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		J	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		K	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		L	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		M	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		N	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		O	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		P	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		Q	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		R	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		S	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		T	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		U	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		V	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		W	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		X	LIF/MIP					
		Y	LIF/MIP					
		Z	LIF/MIP					
		AA	LIF/MIP					
		BB	LIF/MIP					

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 11/30/2016 Wednesday

DR No. 02	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 55°F Partly Cloudy, PM Showers	**Days without a lost time injury:** 2		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	8.5	SSHO	AECOM	Columbia LIF/MIP Van	PJ Mion, USACE
Amanda Martin	8.5	Site Supervisor	AECOM	Geoprobe 7822DT	
Brendan McGuinness	8.5	Field Quality Manager	AECOM	Shondstadt Magnetometer	
Steve Glenn	8.5	Botanist	AECOM	United Rentals Compressor	
Matt Legg	8.5	UXO Tech II	AECOM		
Andrew Borden	0	Geologist	AECOM		
John Schroeder	0	Geologist	AECOM		
Sarah Ault	0	Geologist	AECOM		
Nicole Schulman	0	Environmental Scientist	AECOM		
John Montgomery	8	LIF/MIP Operator	Columbia		
Jonathan Sharen	8	Driller	Summit		
George Anderson	8	Driller	Summit		
DAILY TOTAL	66.5				
TOTAL TO DATE	109	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
Columbia	United Rentals Compressor
Summit (Subcontractor of Columbia)	

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and Columbia/Summit arrived on site at 0730. The team completed the Morning Tailgate Health and Safety Meeting, UXO Awareness training (led by Matt Legg, UXO Tech II), and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

The team completed location flagging, rare and endangered plant surveying, and UXO anomaly avoidance at the majority of the former Building 203 boring locations and LIF/MIP investigation grid (see attached Field Checklists for details).

Former Building 203 Laser-Induced Fluroescence (LIF) Screening

LIF was conducted at 10 boring locations at former Building 203. The LIF "responses" summarized below indicate PAHs were present and responded to LIF as observed in the field screening results. See Work Plan Addendum Figure for screening locations.

- BLDG 203-PZ03 (adjacent to PZ-03): No response 0-8, LIF response at 8-10, no response from 10-26 feet bgs.
- BLDG 203-P: No response 0-6, response 6 to 12, no response to refusal at 21 feet bgs.
- BLDG 203-O: No response 0-10, response at 10-12, no response 12 to 26 feet bgs.
- BLDG 203-M: No response 0-6, response at 6 to 19, no response at 19-26 feet bgs.
- BLDG 203-N: No response 0-4, response at 4-16, no response 16-26 feet bgs.
- BLDG 203-Q: No response 0-26 feet bgs.
- BLDG 203-R: No response 0-26 feet bgs.
- BLDG 203-K: No response 0-5, response 5-6, no response 6-26 feet bgs.
- BLDG 203-J: No response 0-26 feet bgs.
- BLDG 203-I: No response 0-6, response 6-18, no response 18-26 feet bgs.

In addition to LIF screening at Building 203, AECOM conducted 4 soil borings to 7 ftt bgs within the former Building 203 building footprint to investigate if the former building floor exists beneath the ground surface. The former building floor was not encountered in the borings.

Habitat Surveys

Steve Glenn (AECOM Botanist) conducted habitat assessments and inventories, including site sketches and photologs, for the following 11 AOCs: Battery 112, Building 201, Building 2010, Battery 113, H-18, H-19, H-20, H-22, H-4, H-9, and Plotting Room 113. The information collected will be utilized to support the Ecological Risk Assessment Work Plan for the Phase III investigation in the Spring of 2017.

The team demobilized from the site at 1600.

WORK COMPLETED BY AECOM SUBCONTRACTORS

John Montgomery (Columbia) completed 10 LIF screening borings (see above for more details). Additionally, he provided LIF boring profile logs.

Summit Drilling (Jonathan Sharen and George Anderson) completed a total of 14 borings : 10 LIF borings and 4 soil borings to 7 ft bgs within the former Building 203 footprint to investigate if the building floor existed below ground surface. Additionally, they received delivered of the United Rentals compressor in case drilling through the former building floor was necessary at some locations.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 11/30/2016 Wednesday

DR No. 02		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 10 team members would be on site (including USACE, AECOM, Columbia and Summit).

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

The team completed the Morning Tailgate Health and Safety Meeting, 'UXO Awareness training (led by Matt Legg, UXO Tech II), and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day. The team discussed tick safety and awareness in particular, since three team members were new to the site.

SITE OBSERVATIONS

Due to the large amount of rain received over the past two days, the former Building 203 investigation area has become muddy and some vehicles had difficultly driving in the area. The LIF/MIP van was stuck at the end of the day and the Geoprobe 7882DT was just to pull it from the mud. Remaining team members mobilizing to the site next week were notified to get 4WD vehicles for this reason.

ATTACHMENTS

Camp Hero Phase II Investigation Checklist
LIF Boring Profile Logs from 11/30/16

Superintendent (Signature):

Amanda Martin

Daily Photos

No photographs were collected today.

Camp Hero Phase II Field Checklist

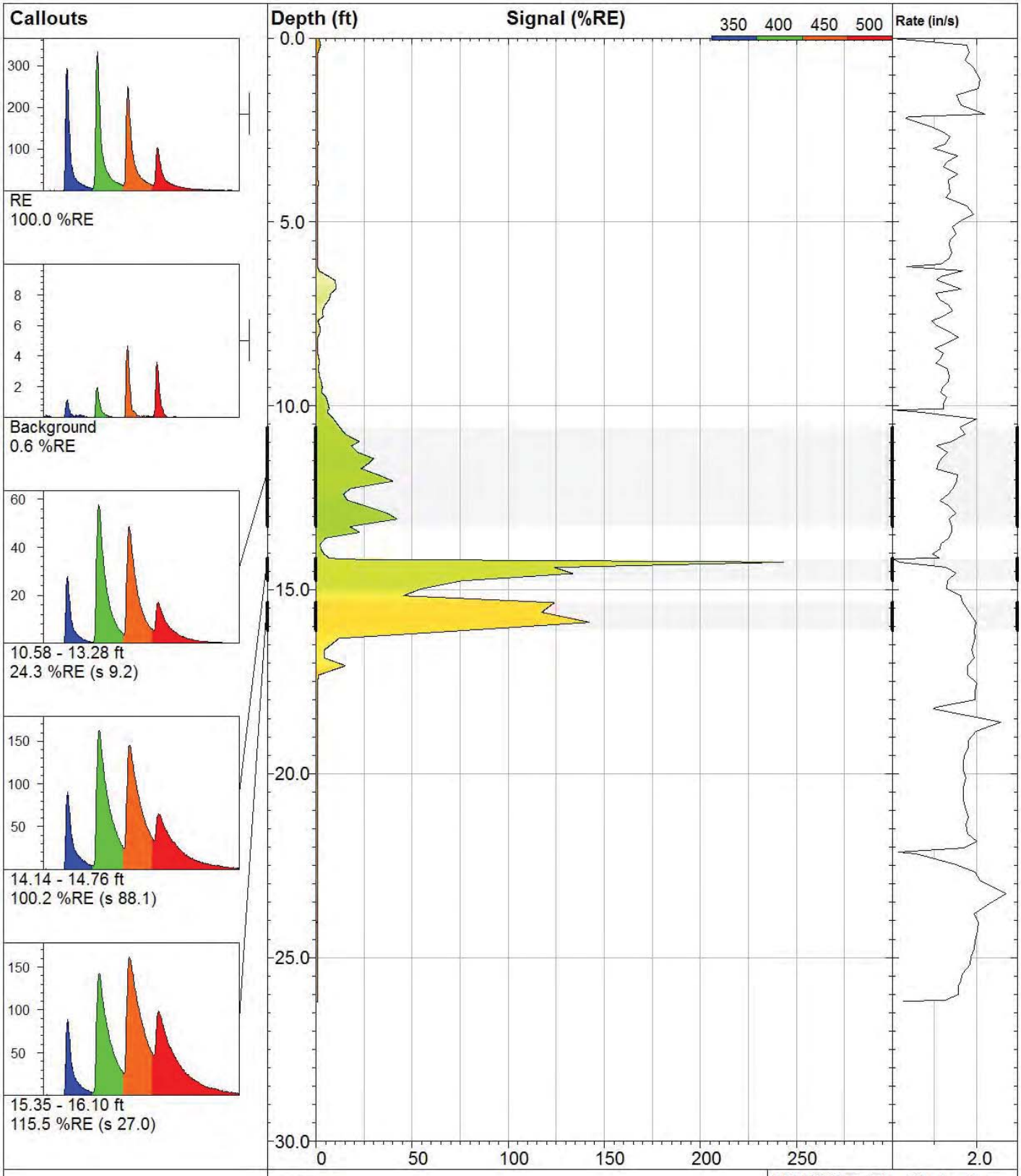
AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring / Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW017	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW018	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW019	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW020	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW021	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB07	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB10	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB11	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB14	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB15	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB16	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB19	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB20	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB21	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB23	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB24	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB25	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB26	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB27	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB28	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB29	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB30	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB31	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB32	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB33	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB34	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB35	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB36	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB37	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	UXO Anomaly Avoidance	Botany Survey	LIF Survey	MIP Survey
LIF MIP Survey Locations								
203	LIF/MIP Survey at Building 203	A	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		B	LIF/MIP			SG 11/30/16		
		C	LIF/MIP			SG 11/30/16		
		D	LIF/MIP			SG 11/30/16		
		E	LIF/MIP			SG 11/30/16		
		F	LIF/MIP			SG 11/30/16		
		G	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		H	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		I	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		J	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		K	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		L	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		M	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		N	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		O	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		P	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		PZ-3	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	BMG 11/30/16	
		Q	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		R	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		S	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		T	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		U	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		V	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		W	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		X	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		Y	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		Z	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		AA	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		BB	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

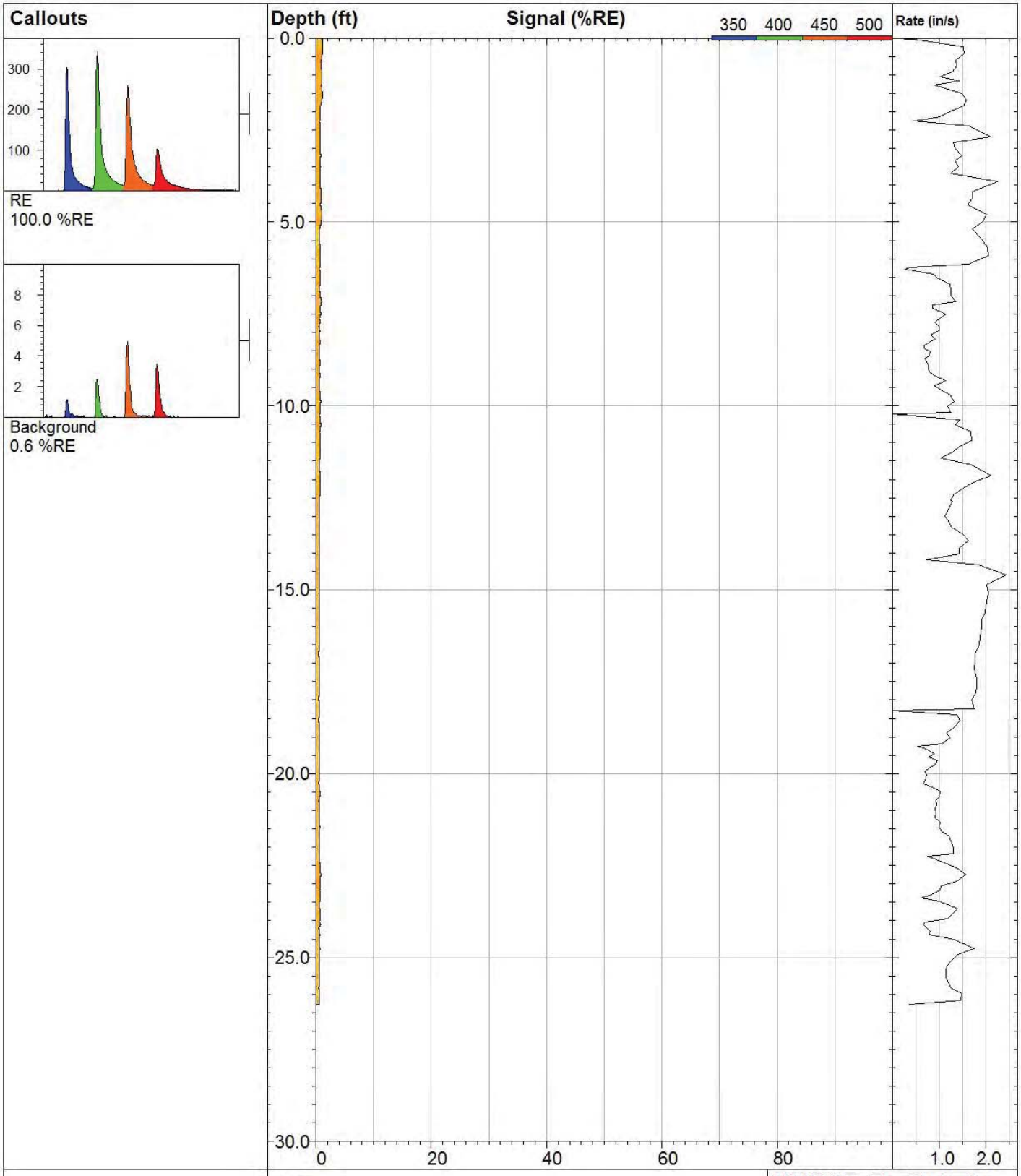


203I

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.22 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **244.5 %RE @ 14.25 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 15:32 EST**

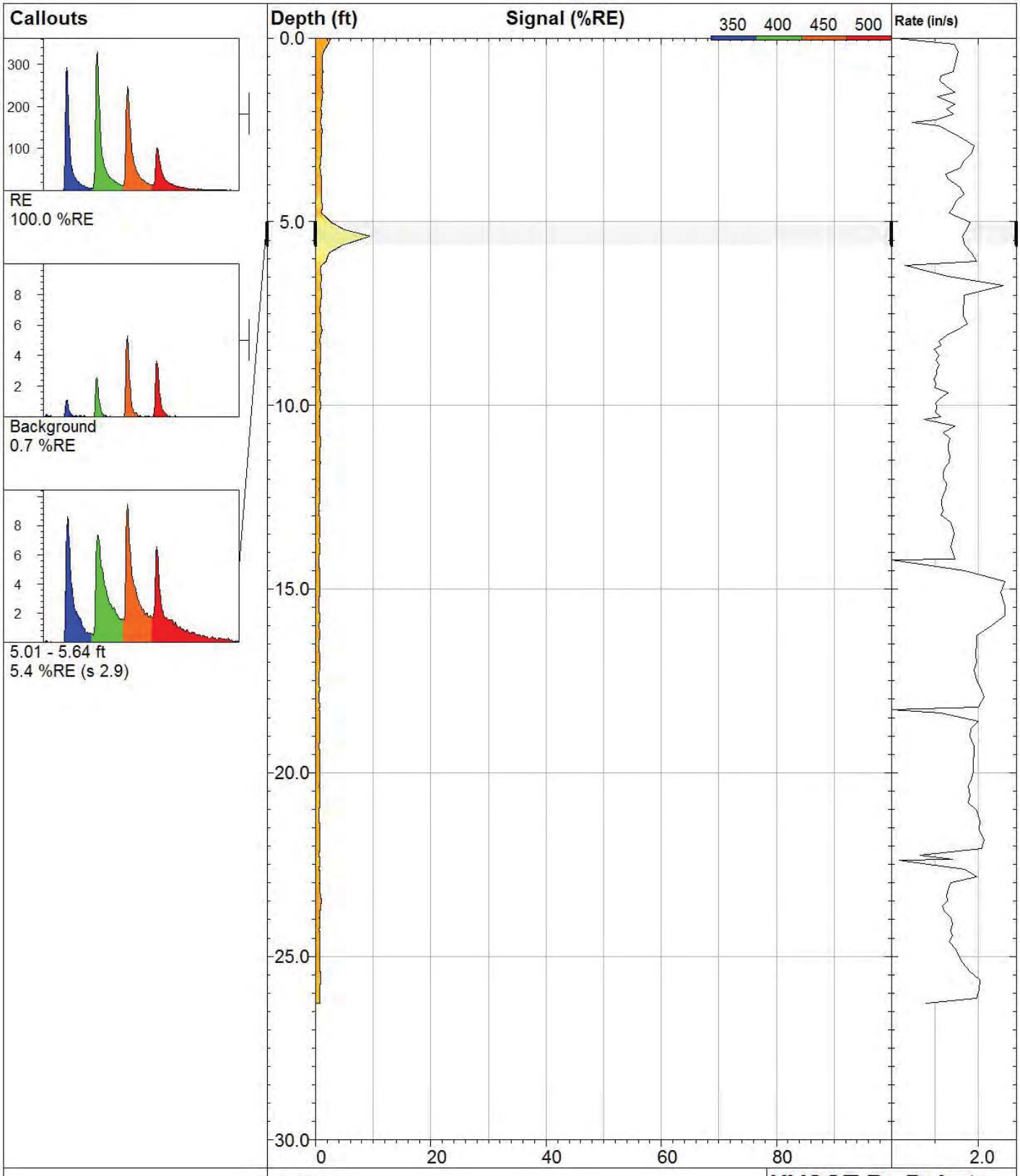


203J

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.28 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **1.2 %RE @ 0.24 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 14:58 EST**

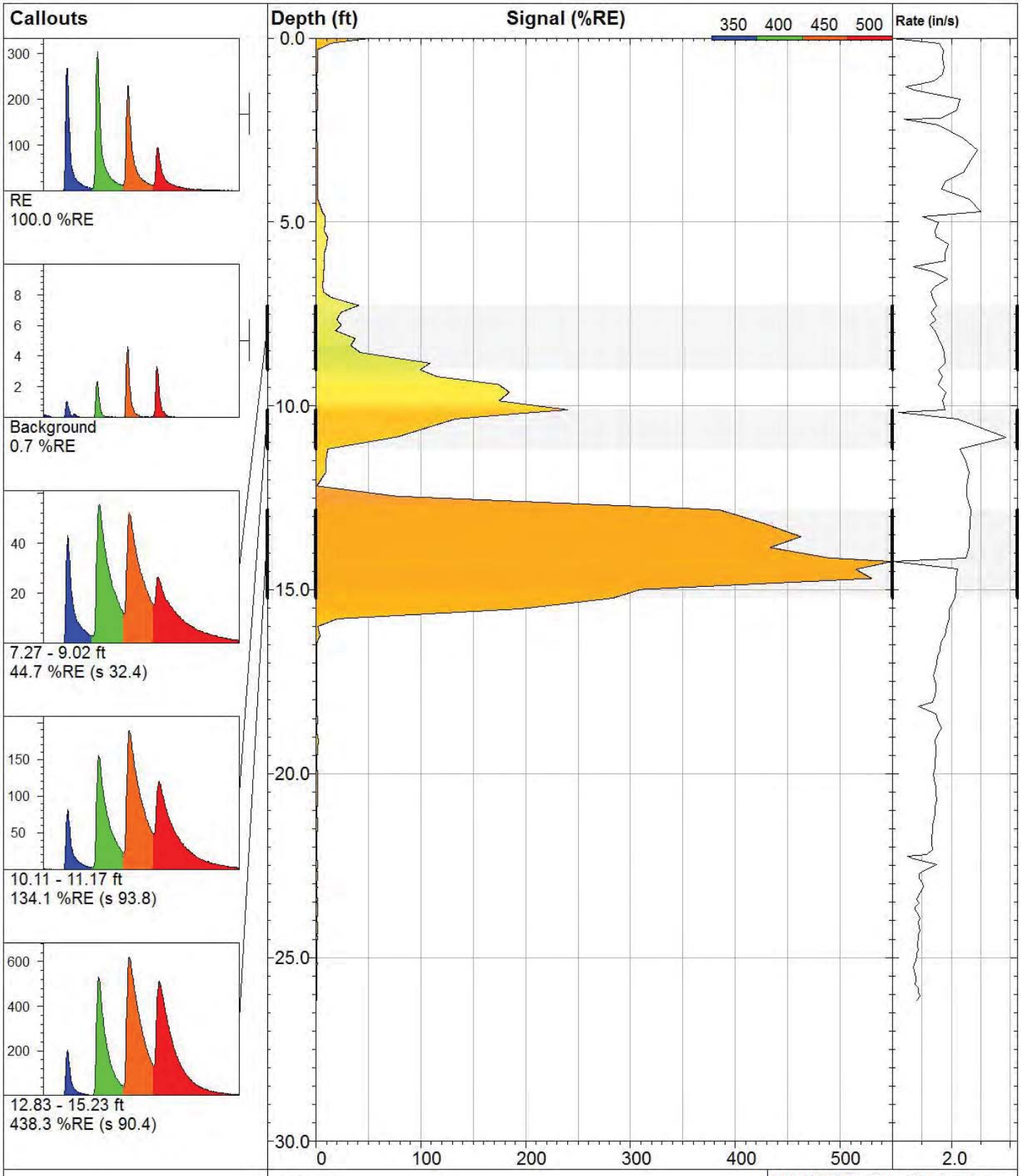


203K

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.29 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.4 %RE @ 5.40 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 14:22 EST**

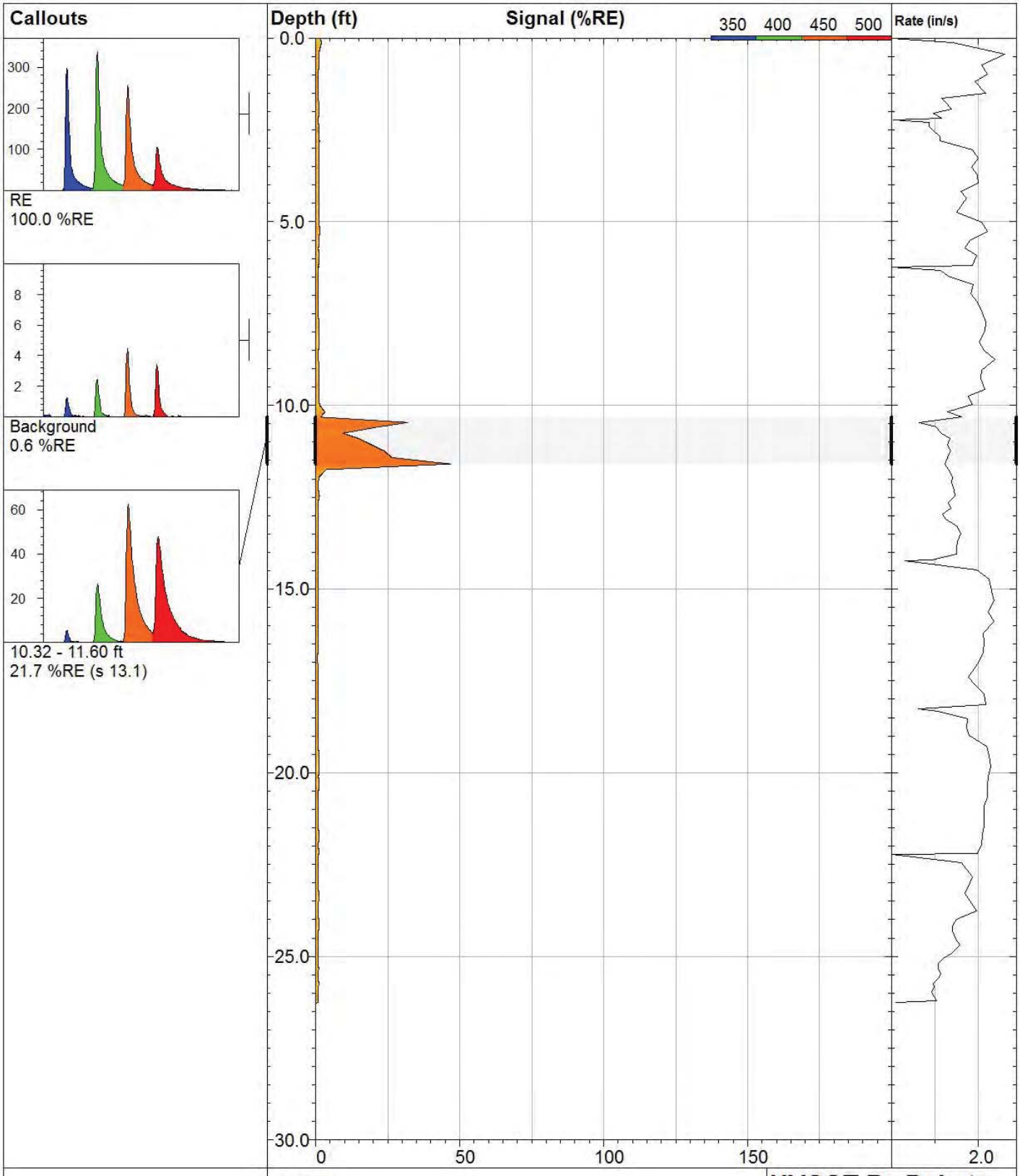


203N

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.17 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **549.2 %RE @ 14.23 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 11:33 EST**

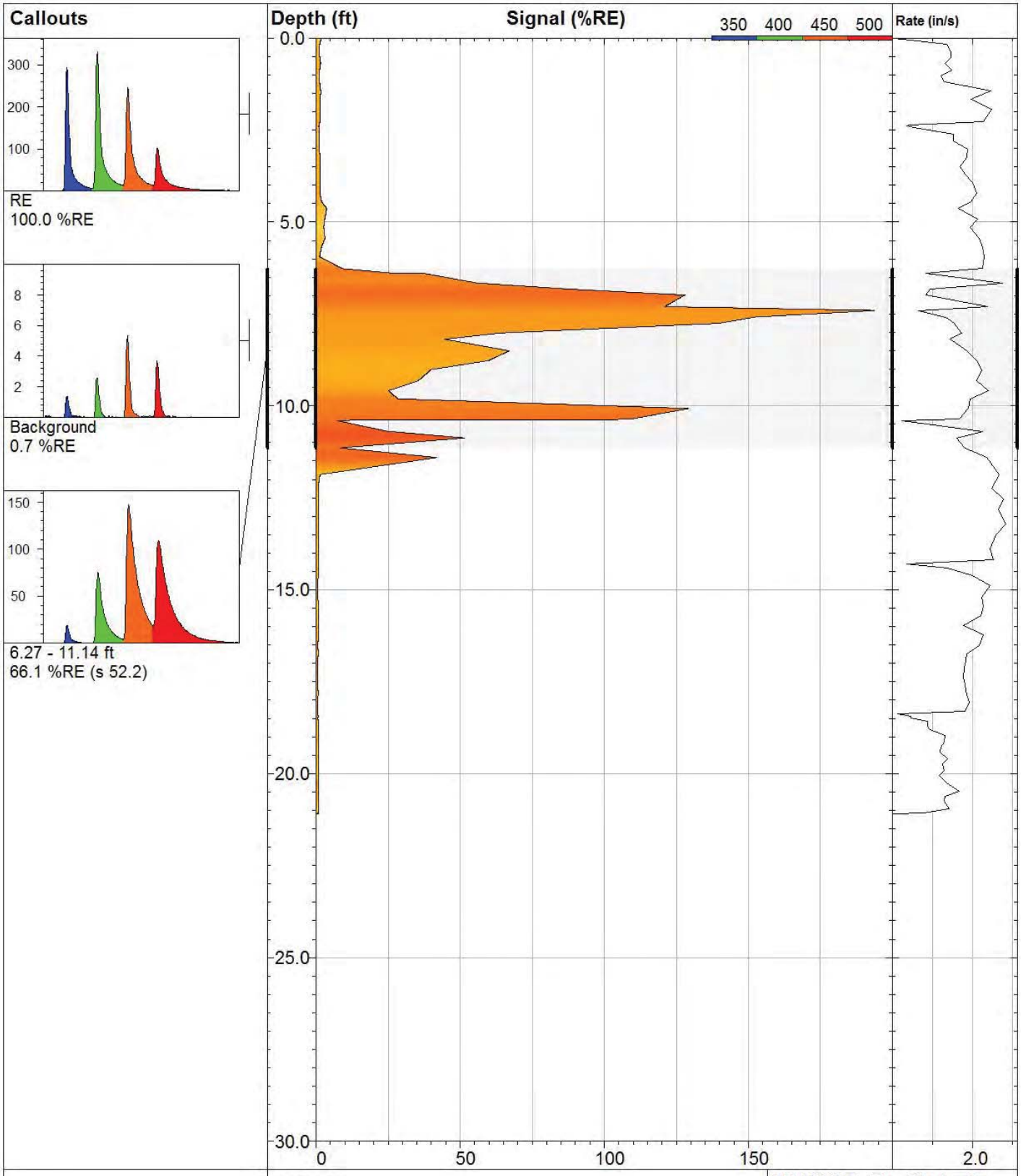


COLUMBIA TECHNOLOGIES

203O

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.27 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **46.8 %RE @ 11.60 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 10:40 EST**

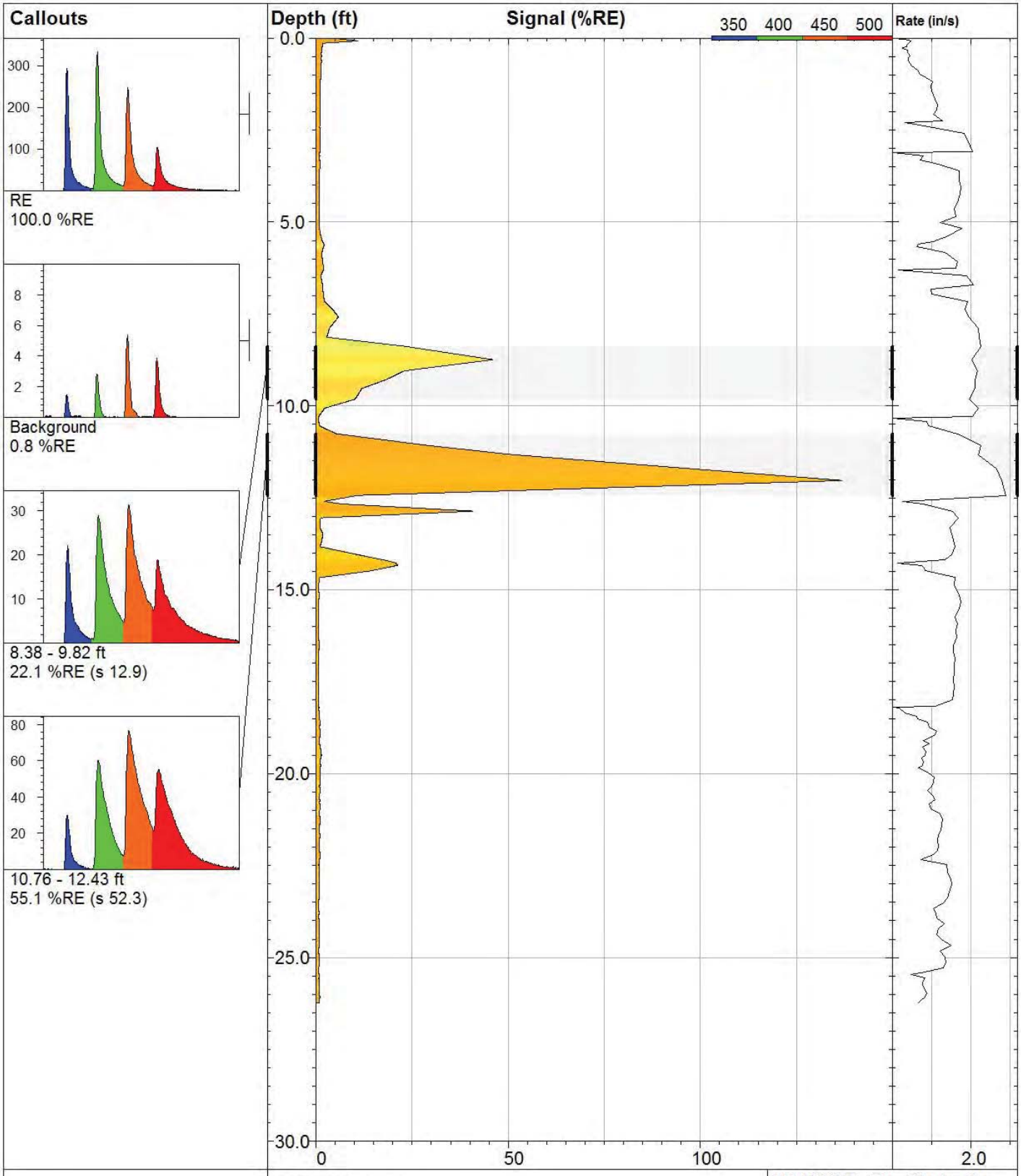


COLUMBIA TECHNOLOGIES

203P

UVOST By Dakota
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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **21.09 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **194.4 %RE @ 7.40 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 10:25 EST**

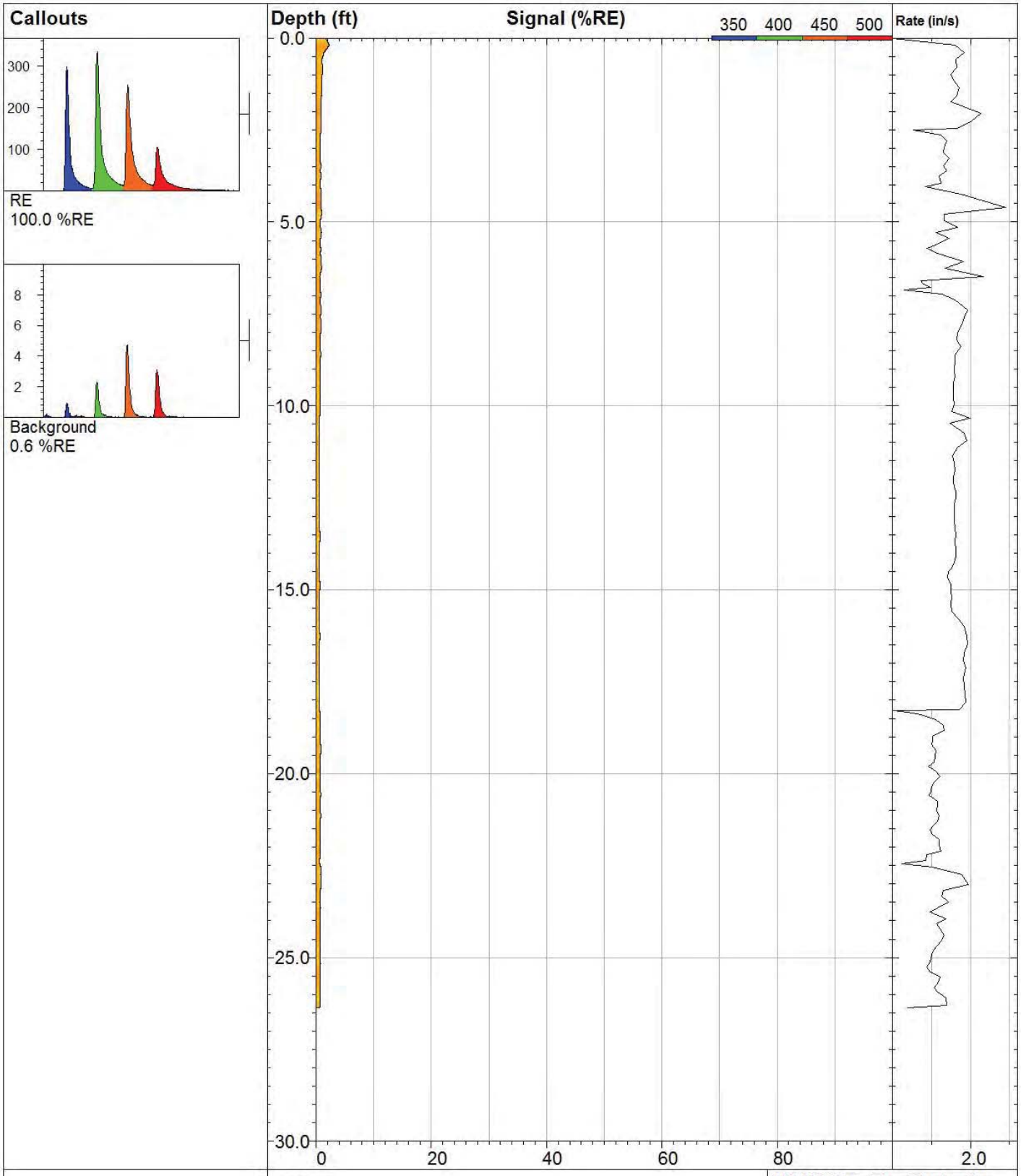


203PZ03

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.24 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **137.1 %RE @ 12.03 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 09:44 EST**



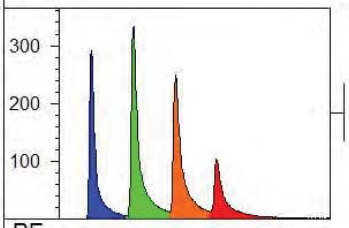
203Q

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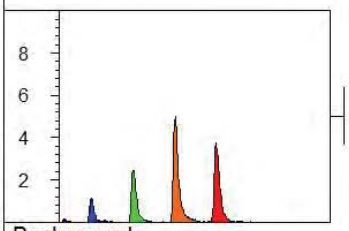
COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.37 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.3 %RE @ 0.19 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 13:41 EST**

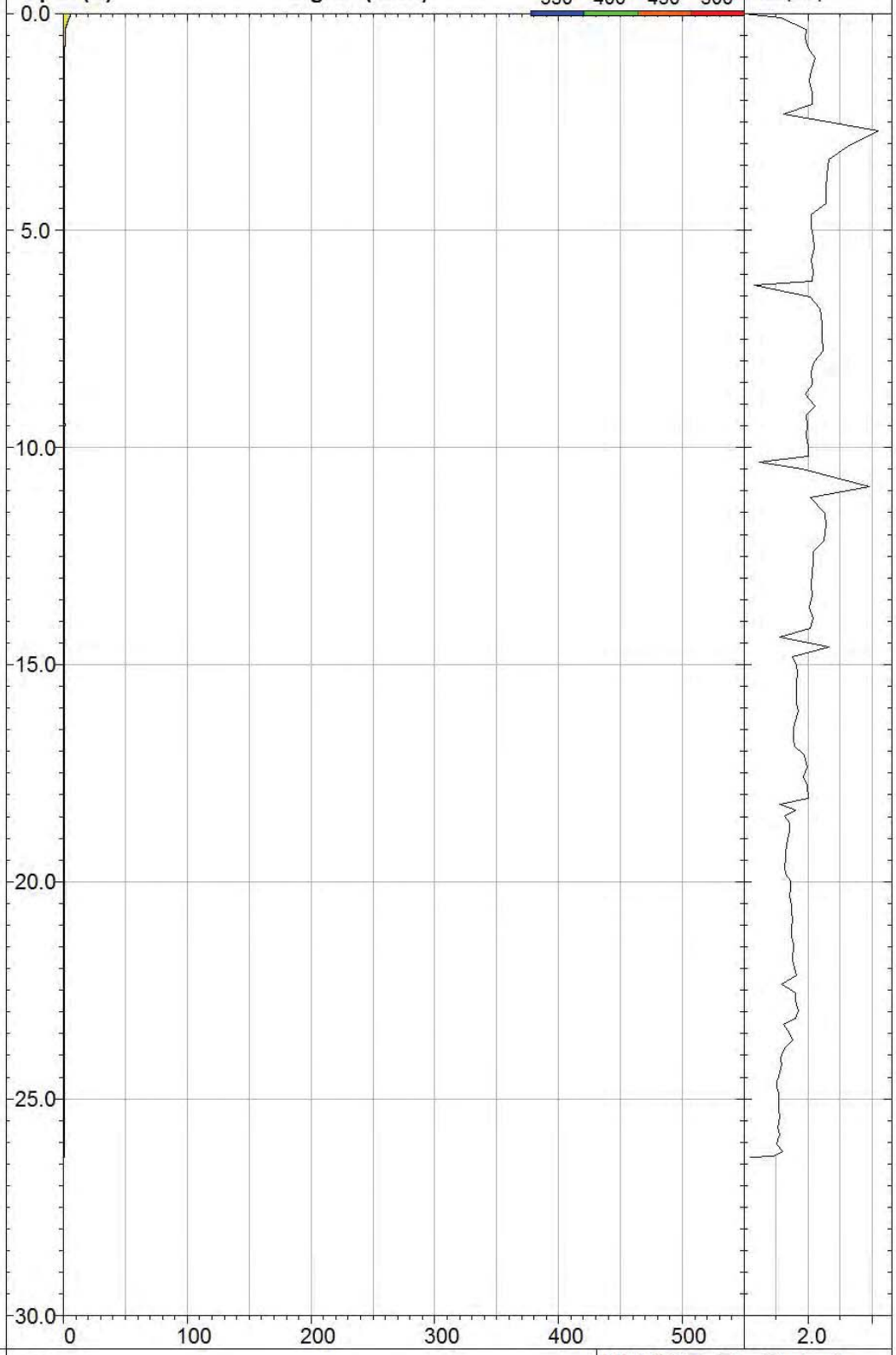
Callouts



RE
100.0 %RE



Background
0.7 %RE

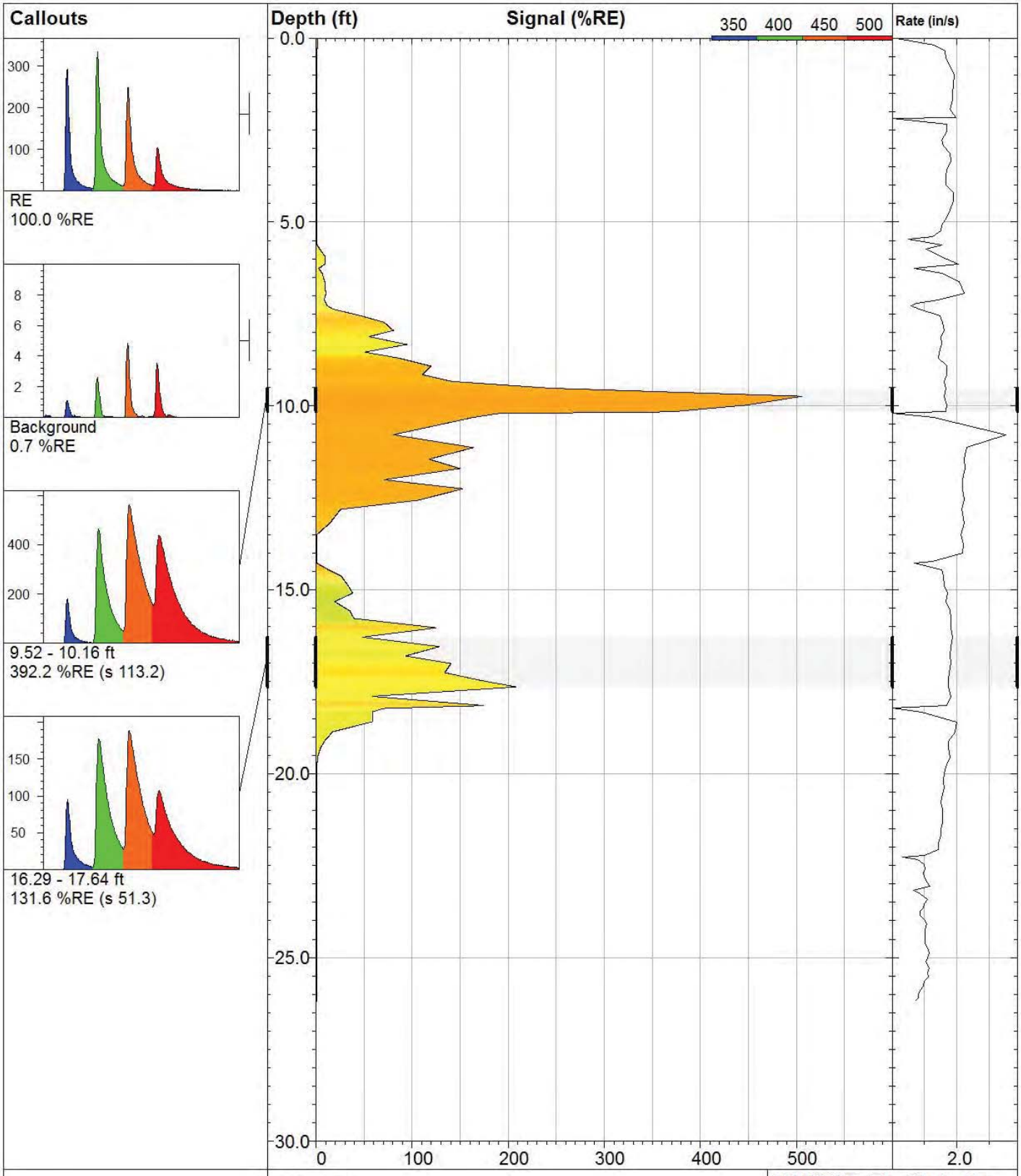


203R

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.35 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.5 %RE @ 0.00 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 13:25 EST**



203M

UVOST By Dakota
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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.19 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **505.8 %RE @ 9.74 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-11-30 10:57 EST**

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/1/2016 Thursday

DR No. 03	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 55°F Sunny	**Days without a lost time injury:** 3		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	8.5	SSHO	AECOM	Columbia LIF/MIP Van	PJ Mion, USACE
Amanda Martin	8.5	Site Supervisor	AECOM	Geoprobe 7822DT	Nick Acampora, NYSDEC
Brendan McGuinness	8.5	Field Quality Manager	AECOM	Shondstadt Magnetometer	Justin Ng, NYSDEC
Steve Glenn	8.5	Botanist	AECOM	United Rentals Compressor	
Matt Legg	8.5	UXO Tech II	AECOM		
Andrew Borden	0	Geologist	AECOM		
John Schroeder	0	Geologist	AECOM		
Sarah Ault	0	Geologist	AECOM		
Nicole Schulman	0	Environmental Scientist	AECOM		
John Montgomery	8	LIF/MIP Operator	Columbia		
Jonathan Shuren	8	Driller	Summit		
George Anderson	0	Driller	Summit		
DAILY TOTAL	58.5				
TOTAL TO DATE	167.5	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
Columbia	
Summit (Subcontractor of Columbia)	

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and Columbia/Summit arrived on site at 0730. The team completed the Morning Tailgate Health and Safety Meeting, and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day

Preparation Activities

The team completed the remaining location flagging, vegetation removal (Photo 1), and UXO anomaly avoidance at the former Building 203 boring locations and LIF/MIP investigation grid (see attached Field Checklists for details).

During flagging activities, the team discovered one buried drum near location 203-SB25 (Photo 2). Matt Legg (UXO Tech II) performed a Shondstadt survey of the area and determined there was only one buried drum in the area.

Additionally, due to the large amount of precipitation received over the past two days, the work area was extremely muddy and soggy. The team assessed access for the LIF/MIP van and borrowed wooden planks from the Camp Hero State Park Motor Pool team for the van to drive on to access soggy areas.

Former Building 203 Laser-Induced Fluroescence (LIF) Screening

LIF was conducted at 9 boring locations at former Building 203. The LIF "responses" summarized below indicate PAHs were present and responded to LIF as observed in the field screening results. See Work Plan Addendum Figure and attached LIF Screening Results Field Figure for screening locations.

BLDG 203-U: No LIF response 0 to 26 feet bgs.
BLDG 203-T: No response 0-10, response 10 to 13, no response 13 to 26 feet bgs.
BLDG 203-S: No response 0-7, response at 7-12.5, no response 12.5 to 26 feet bgs.
BLDG 203-L: No response 0-10, response at 11 to 13.5, no response at 13.5 to 18.5, response from 18.5 to 34,5 feet bgs.
BLDG 203-H: No response 0-13.5, response at 13.5 to 22.5, no response from 22.5 to 26 feet bgs.
BLDG 203-B: No response 0-15, response from 15 to 24 feet bgs at LIF probe refusal.
BLDG 203-G: No response 0-15.5, response at 15.5-22, no response from 22-23.5, response from 23.5-34, no response from 34 to 38.3 feet bgs.
BLDG 203-C: No response 0-16.5, response 16.5 to 25, no response 25 to 30 feet bgs.
BLDG 203-A: No response 0-19.5, response from 19.5-24.5, no response from 24.5 to 30.4 feet bgs.

The attached LIF Screening Results Field Figure provides a visualization of locations with LIF responses at former Building 203. Purple squares around locations indicated there was a LIF response (product present), which blue circles around a location indicate no LIF response (no product present).

Temporary Monitoring Well Gauging at former Building 203

Temporary Monitoring Well gauging was conducted at former Building 203 with an interface probe to determine whether NAPL was present in additional temporary wells (remaining from Phase I investigation). NAPL was only present at one location, PZ-03. Results of the well gauging are below.

Location	Depth to Water	Depth to Product
203-SB05	20.1	NA
203-SB04	12.45	NA
203-SB03	1.75	NA
203-SB02	12.55	NA
203-SB01	16.1	NA
203-PZ03	17.1	8.2

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/1/2016 Thursday

DR No. 03		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (Continued)

Mr. Nick Acampora (NYSDEC) visited the site to see the LIF operations and requested to see the product in PZ-03. A bailer was used to remove product from PZ-03 for visual observation and the product was returned to PZ-03 so a bail-down test could be completed at a later date. Mr. Acampora additionally requested that the monitoring well to be installed adjacent to PZ-03 be constructed as a 4-inch well, to leave options for product removal in the future. PJ Mion (USACE, Geologist) was on site and agreed with that assessment. Ms. Martin (AECOM, Site Supervisor) contacted the well installation drilling company (TWS) to see if they could bring materials for a 4-inch well; the TWS manager (Jeff Baker) indicated he would get back to the team with an answer in the next couple of days.

Mr. Acampora additionally requested that a sample of the product in PZ-03 be submitted for fuels analysis; Ms. Martin indicated that a sample would be taken sometime in the next two weeks once the sampling activities began.

Habitat Surveys

Steve Glenn (AECOM Botanist) conducted habitat assessments and inventories, including site sketches and photologs, for the following 13 AOCs: Building F100C, former Building 34, H-1, H-11/12, H-14, H-15, H-17, H-2, H-21, H-3, H-5, H-6, and Motor Pool. The information collected will be utilized to support the Ecological Risk Assessment Work Plan for the Phase III investigation in the Spring of 2017.

The team left the site at 1600.

WORK COMPLETED BY AECOM SUBCONTRACTORS

John Montgomery (Columbia) completed 9 LIF screening borings (see above for more details) and prepared LIF boring profile logs.

Summit Drilling (Jonathan Shuren) completed a total of 9 borings. George Anderson (Summit) demobilized from the site since compressor activities were no longer needed.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 10 team members would be on site (including USACE, AECOM, Columbia and Summit).

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

Due to the large amount of precipitation received over the past two days, the work area was extremely muddy and soggy. The team assessed access for the LIF/MIP van (not all-terrain/4WD) and borrowed wooden planks from the Camp Hero State Park Motor Pool team for the van to drive on to access soggy areas.

SITE OBSERVATIONS

None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/1/2016 Thursday

DR No. 03		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

ATTACHMENTS

Camp Hero Phase II Investigation Checklist
LIF Boring Profile Logs from 12/1/16
LIF Screening Results Field Figure

Superintendent (Signature):

Amanda Martin

Daily Photos



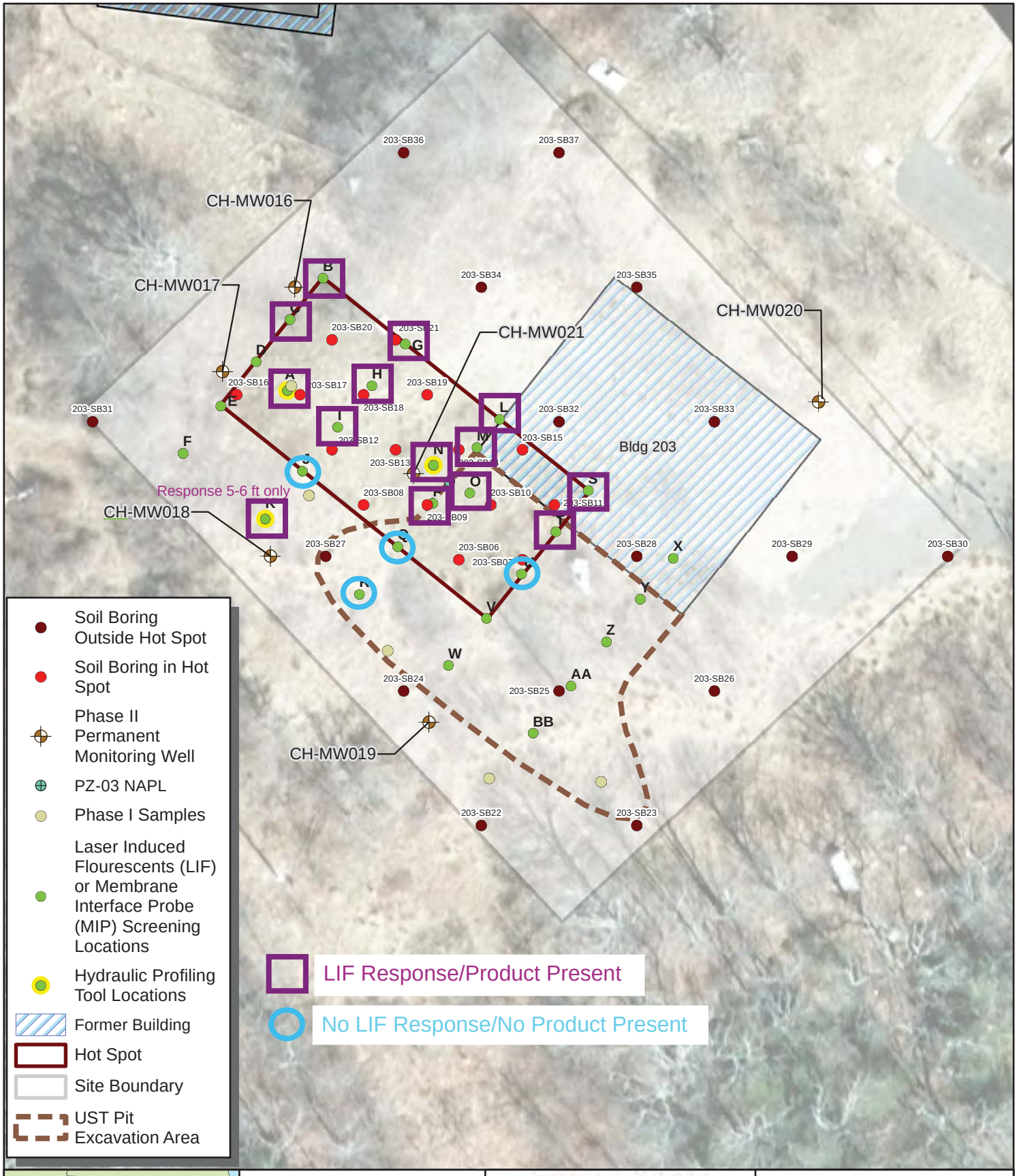
Photo 1. Steve Glenn (AECOM) performing vegetation removal for drill rig access.



Photo 2. Buried drum found at former Builing 203 AOC (rusted lid visible).



Photo 3. Brendan McGuinness (AECOM) holding bailer of NAPL product from location PZ-03 at former Building 203.





MAP LOCATION

N
W
E
S

0 15 30

Feet

1 inch = 35 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Building 203 Phase II LIF Screening Results Field Figure

PROJECT NO.	PREPARED BY:	DATE:
60443903	ACC	Nov 2016

11/16/2016 1:420 Y:\Projects\Camp_Hero\Maps\Phase II Workplan\Fig 5-1 Bldg 203 Phase II Sampling2.mxd (USCHL1FP002\Data\Library\Gisprojects\)

Camp Hero Phase II Field Checklist

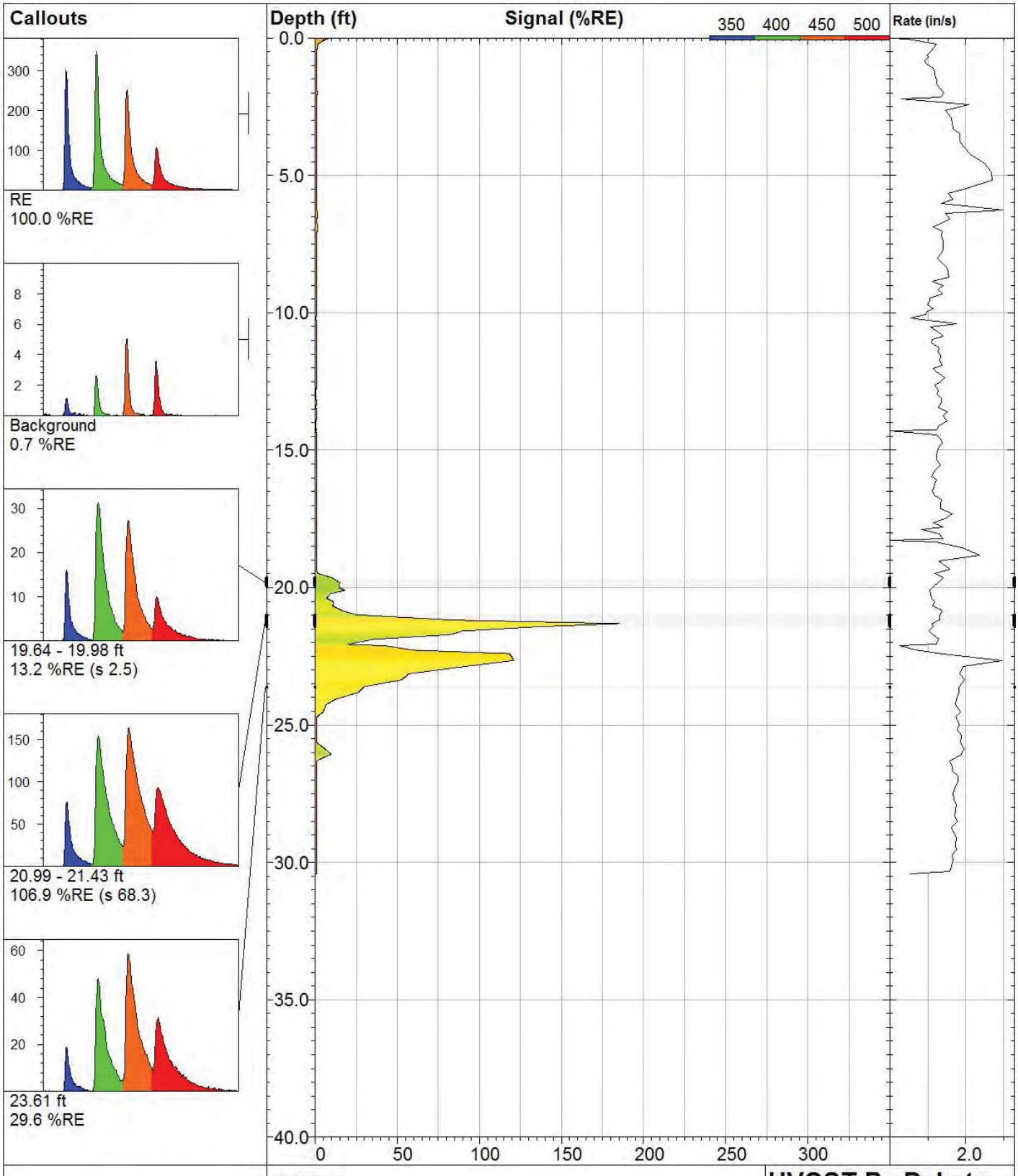
AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring / Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW017	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW018	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW019	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW020	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW021	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB07	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB10	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB11	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB14	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB15	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB16	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB19	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB20	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB21	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB23	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB24	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB25	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB26	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB27	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB28	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB29	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB30	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB31	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB32	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB33	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB34	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB35	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB36	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB37	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	UXO Anomaly Avoidance	Botany Survey	LIF Survey	MIP Survey
LIF MIP Survey Locations								
203	LIF/MIP Survey at Building 203	A	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		B	LIF/MIP	AM 12/1/16	ML 12/1/16	SG 11/30/16	BMG 12/1/16	NA
		C	LIF/MIP	AM 12/1/16	ML 12/1/16	SG 11/30/16	BMG 12/1/16	NA
		D	LIF/MIP	AM 12/1/16	ML 12/1/16	SG 11/30/16		
		E	LIF/MIP	AM 12/1/16	ML 12/1/16	SG 11/30/16		
		F	LIF/MIP	NA	NA	SG 11/30/16	NA	NA
		G	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		H	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		I	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		J	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		K	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		L	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		M	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		N	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		O	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		P	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		PZ-3	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	BMG 11/30/16	NA
		Q	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		R	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		S	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		T	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		U	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	
		V	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		W	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		X	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		Y	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		Z	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		AA	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		BB	LIF/MIP	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

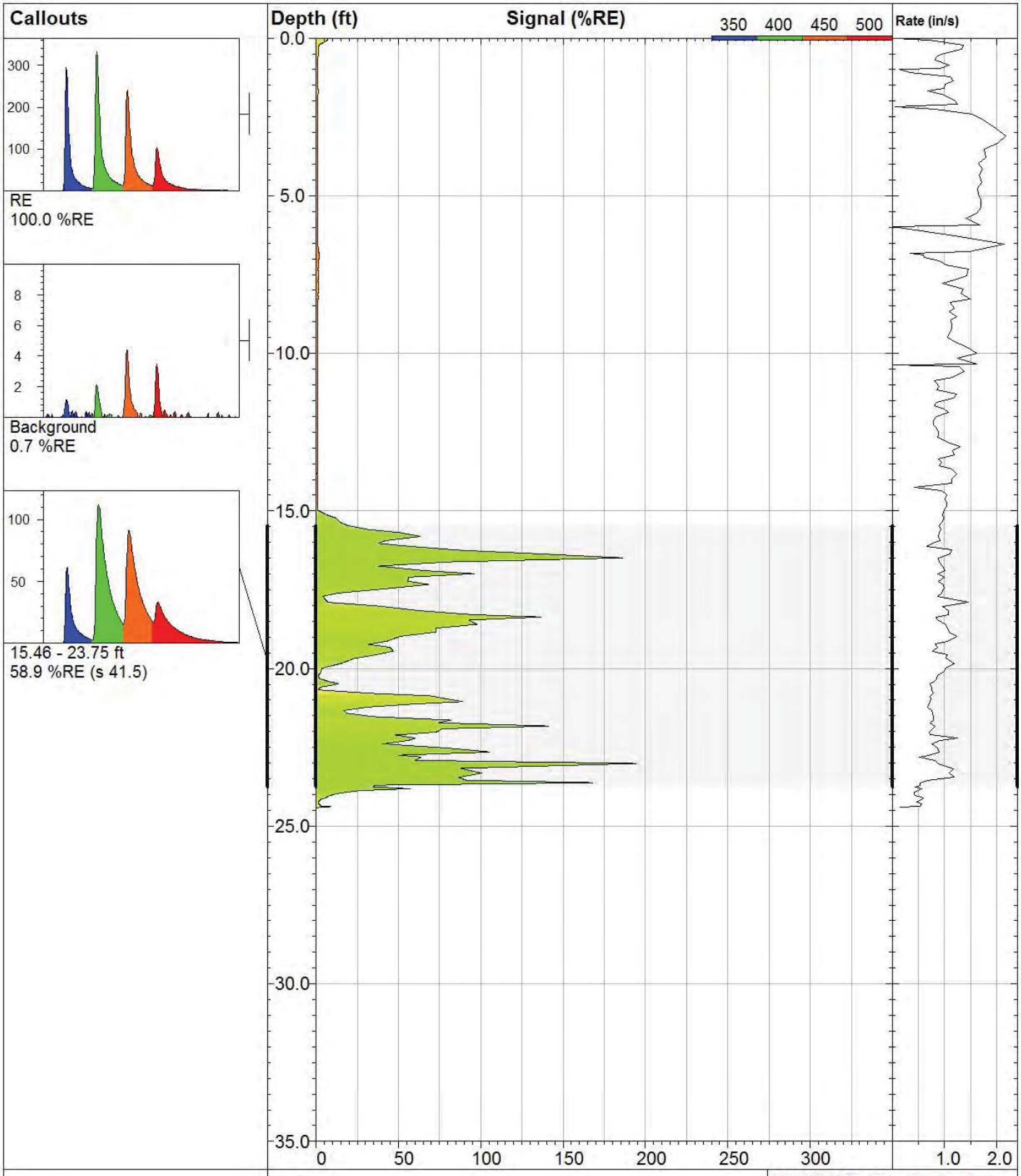


203A

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.41 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **185.6 %RE @ 21.31 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 15:07 EST**

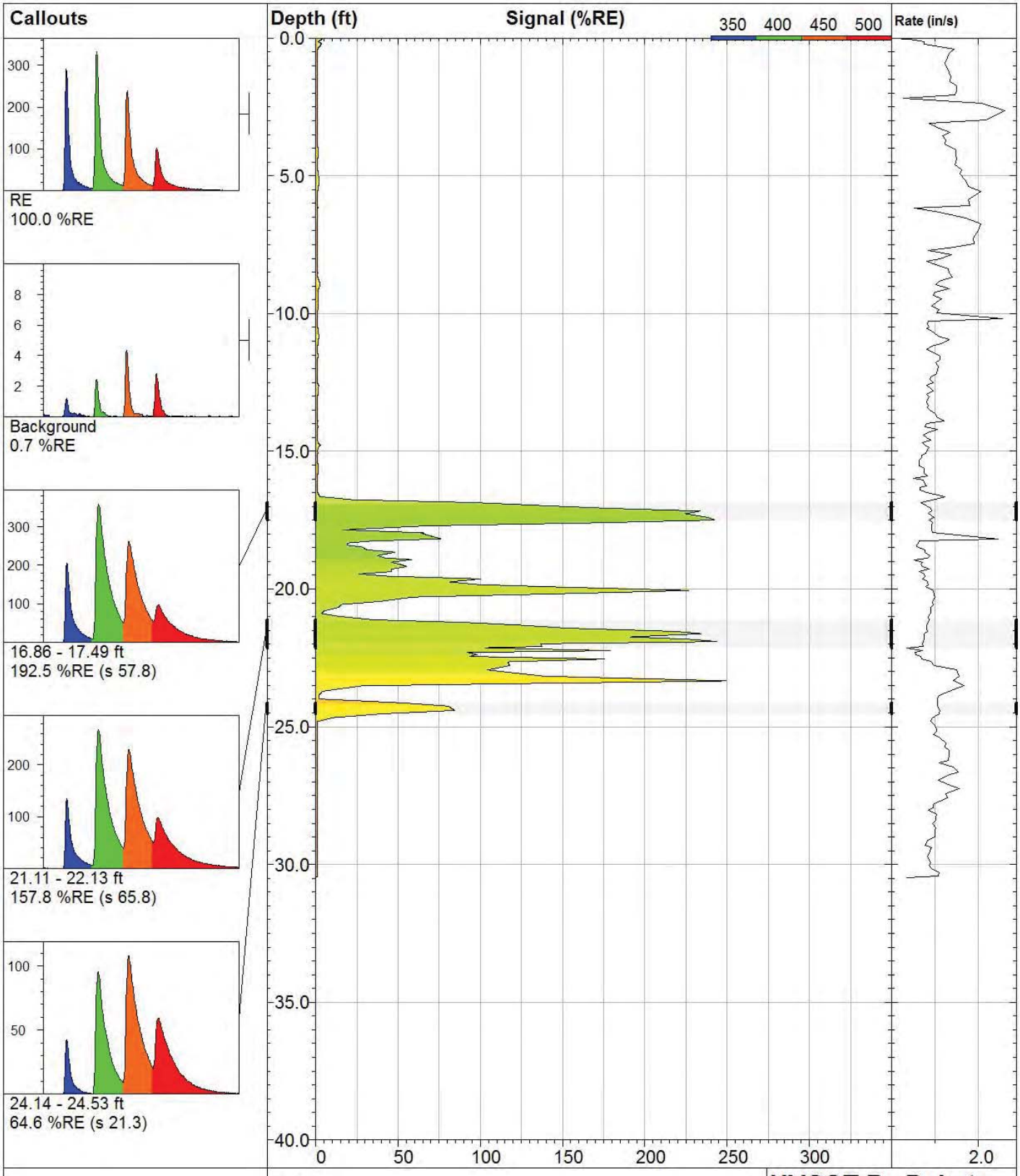


203B

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.41 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **194.7 %RE @ 23.01 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 13:09 EST**

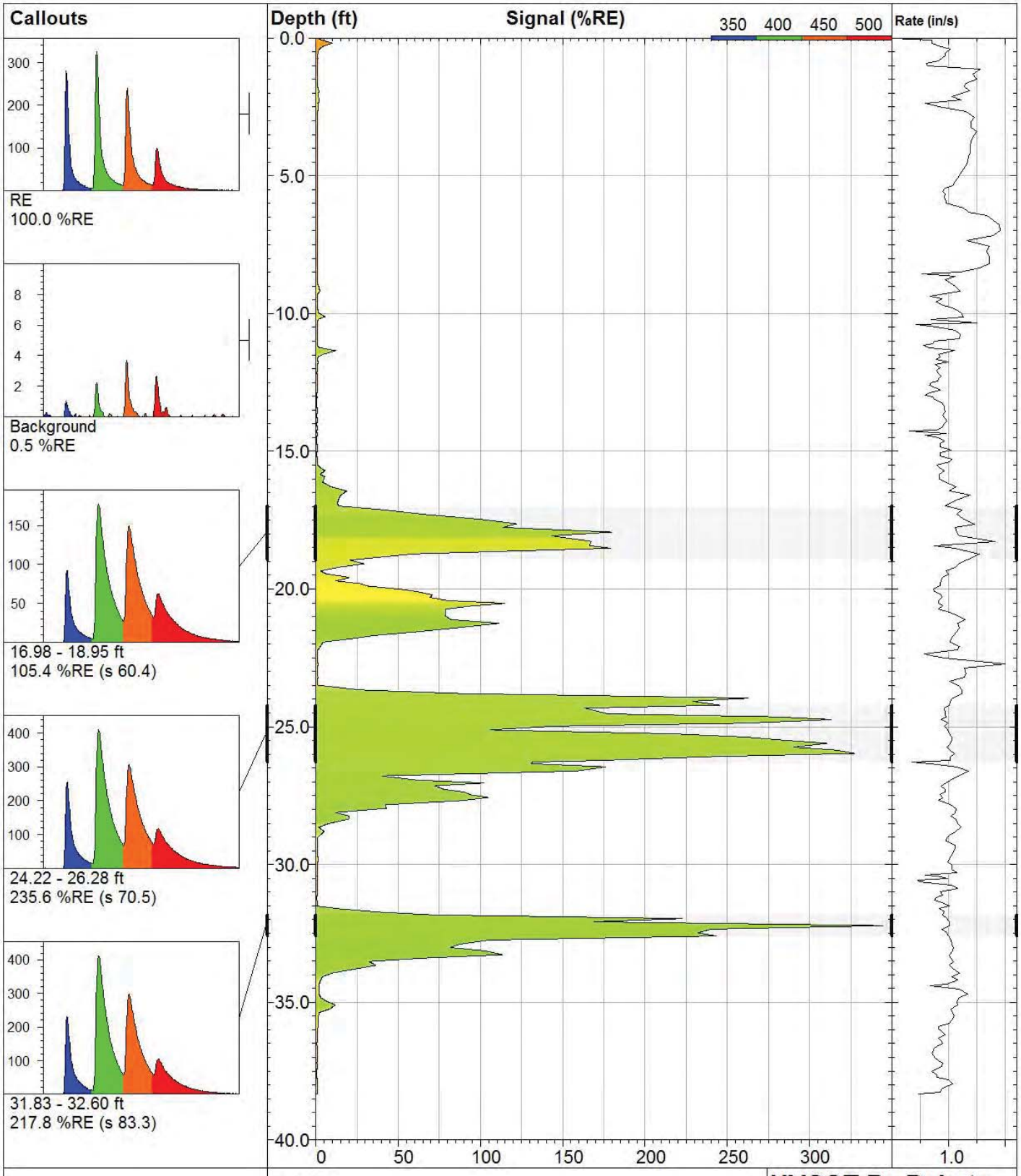


203C

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.46 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **249.7 %RE @ 23.33 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 14:28 EST**

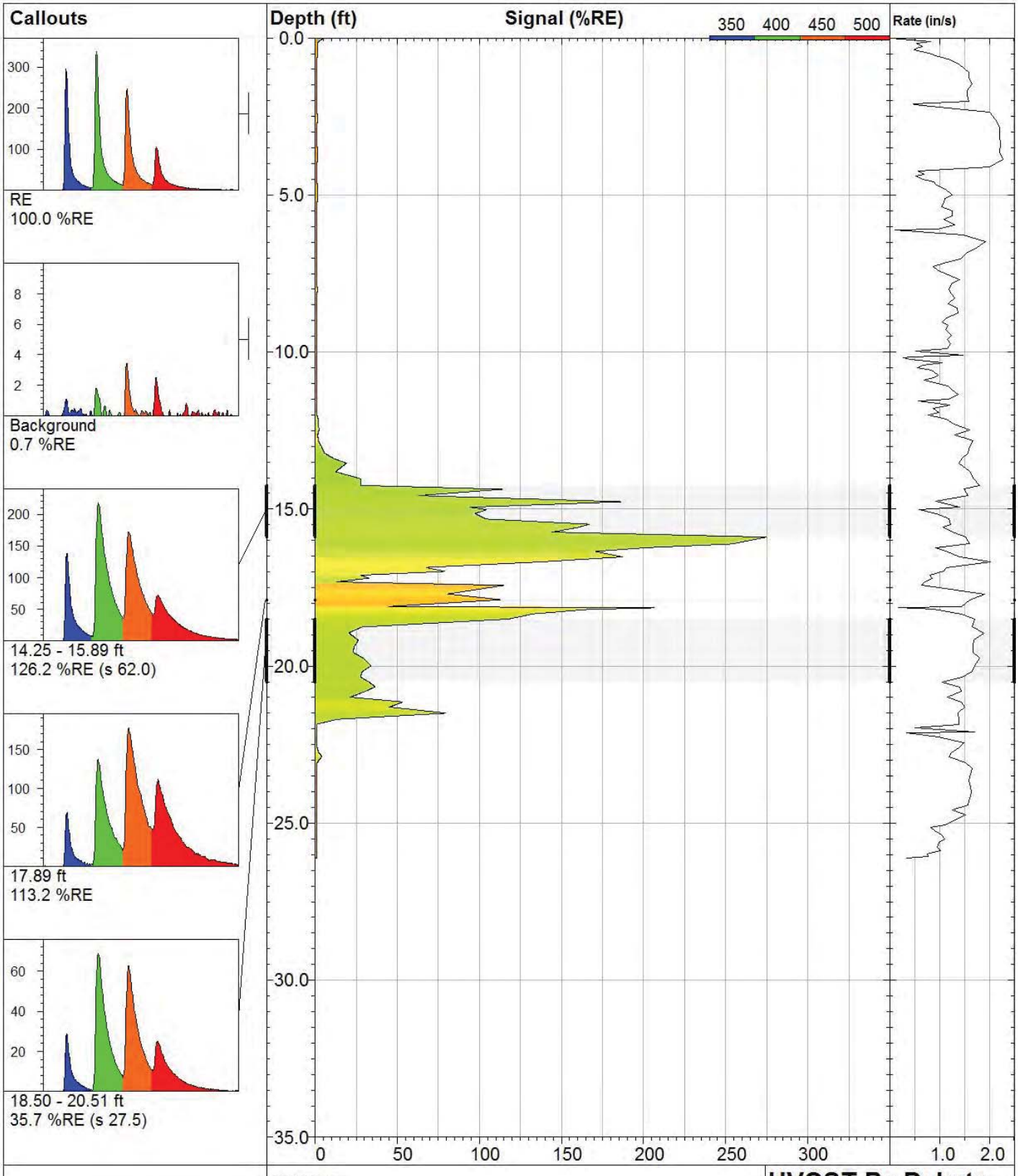


203G

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **38.33 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **345.9 %RE @ 32.22 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 13:37 EST**

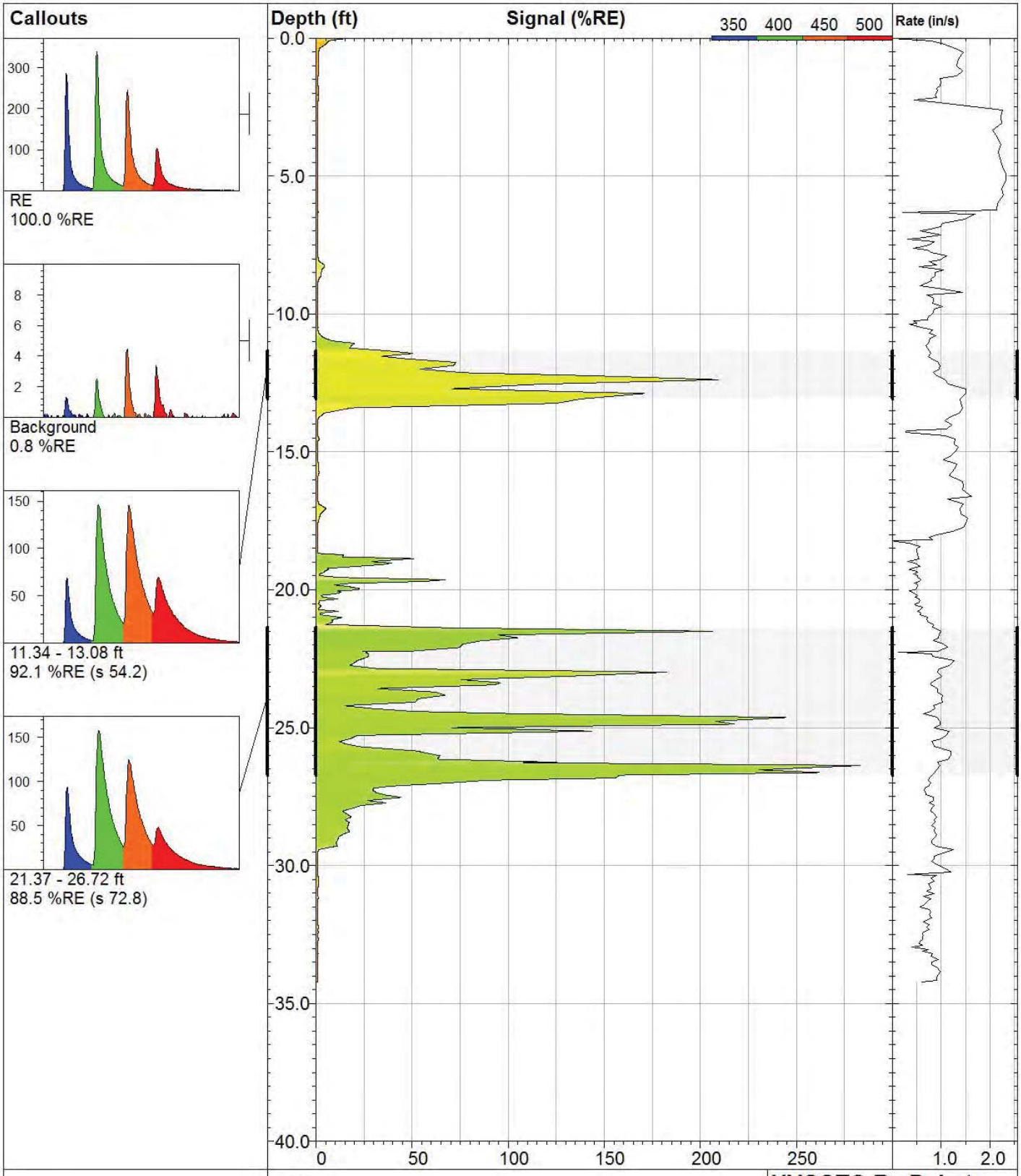


203H

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.12 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **274.8 %RE @ 15.89 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 12:45 EST**

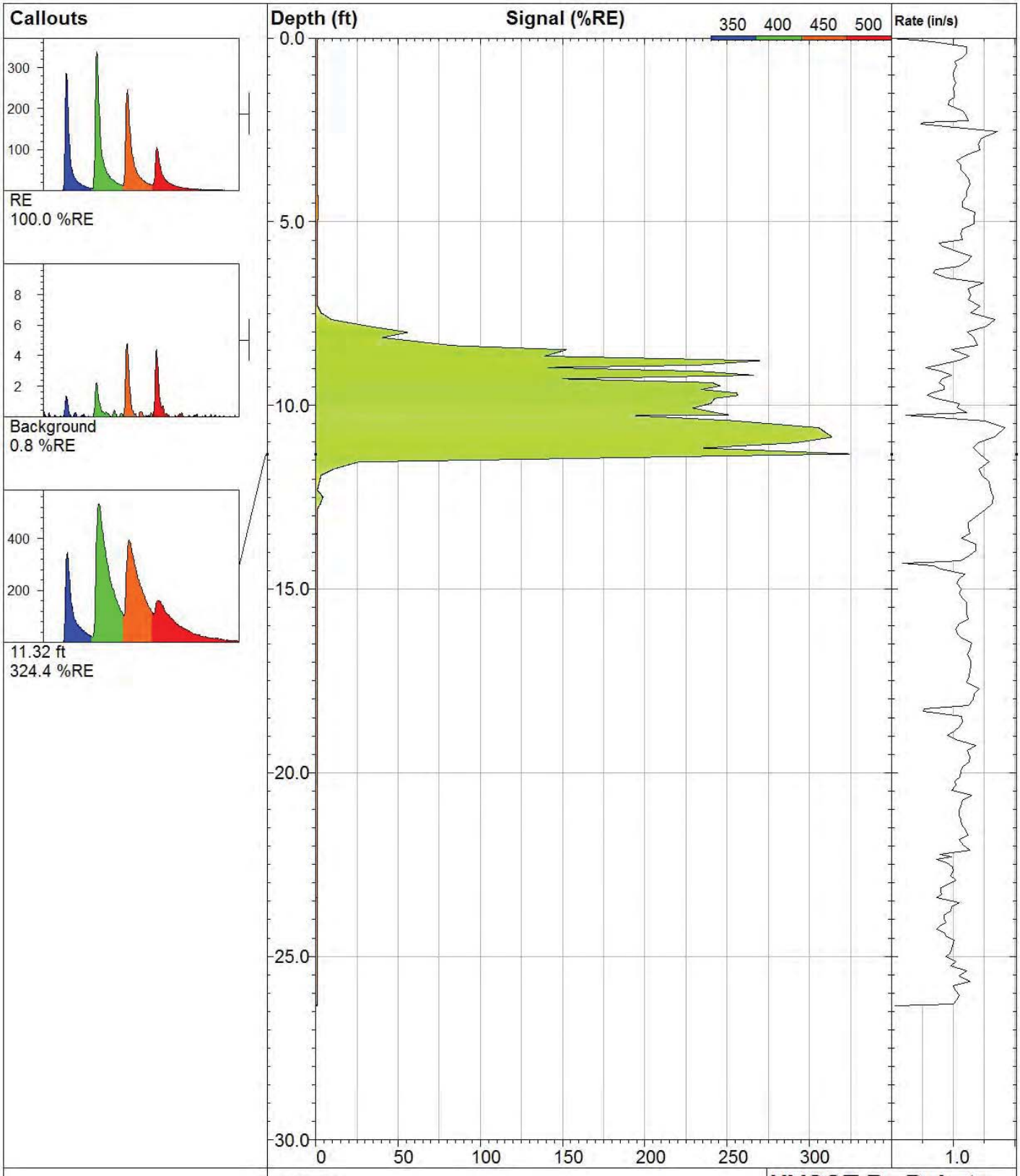


COLUMBIA TECHNOLOGIES

203L

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **34.23 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **284.4 %RE @ 26.37 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 11:06 EST**

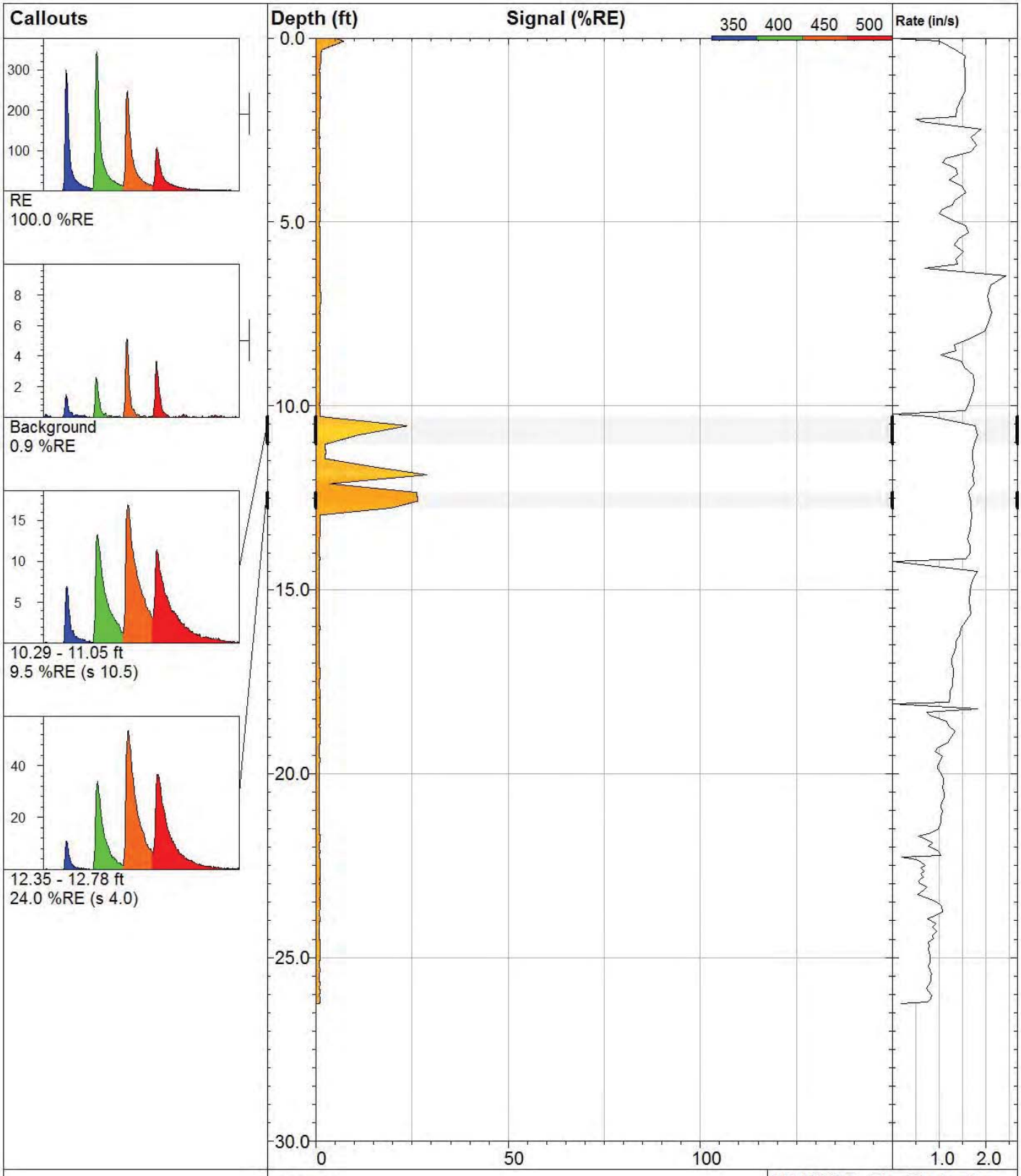


COLUMBIA TECHNOLOGIES

203S

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.34 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **324.4 %RE @ 11.32 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 10:26 EST**

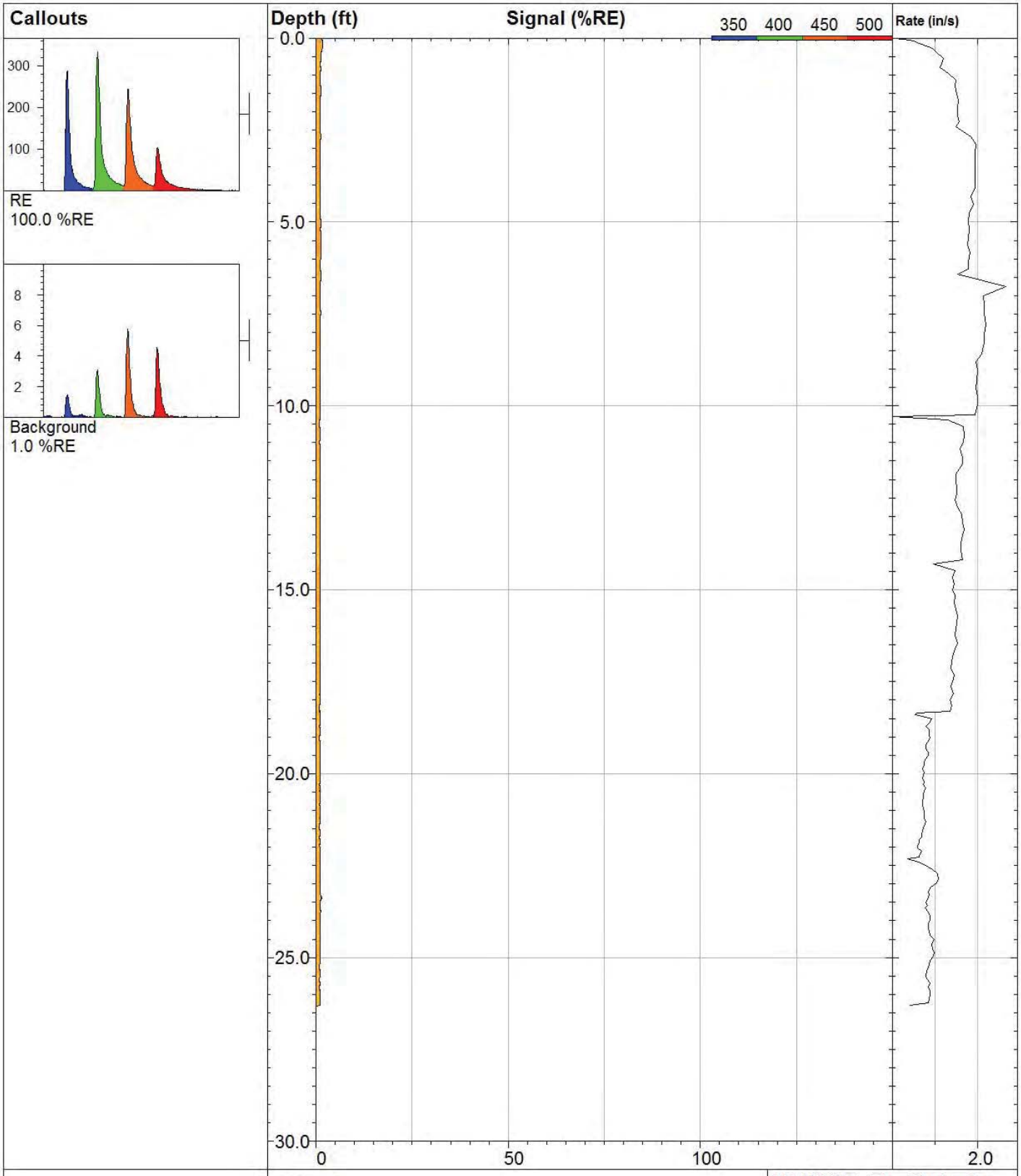


203T

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.26 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **28.9 %RE @ 11.87 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 09:45 EST**



203U

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.31 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **1.7 %RE @ 0.08 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-01 09:17 EST**

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/2/2016 Friday

DR No. 04	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 55°F Sunny	**Days without a lost time injury:** 3		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	8	SSHO	AECOM	Columbia LIF/MIP Van	
Amanda Martin	8	Site Supervisor	AECOM	Geoprobe 7822DT	
Brendan McGuinness	8	Field Quality Manager	AECOM	Shondstadt Magnetometer	
Steve Glenn	8	Botanist	AECOM		
Matt Legg	8	UXO Tech II	AECOM		
Andrew Borden	0	Geologist	AECOM		
John Schroeder	0	Geologist	AECOM		
Sarah Ault	0	Geologist	AECOM		
Nicole Schulman	0	Environmental Scientist	AECOM		
John Montgomery	8	LIF/MIP Operator	Columbia		
Jonathan Shuren	8	Driller	Summit		
DAILY TOTAL	56				
TOTAL TO DATE	223.5	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
Columbia	Storage Container (AB Richards), 20CY, Good Condition
Summit (Subcontractor of Columbia)	

WORKED PERFORMED BY AECOM

The AECOM and Columbia/Summit team arrived on site at 0730. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day. AECOM received delivery of the storage container from AB Richards.

Preparation Activities

The team completed the remaining location flagging and UXO anomaly avoidance at newly added former Building 203 LIF screening locations (see attached Field Field Checklist for details).

Former Building 203 Laser-Induced Fluroescence (LIF) Screening

LIF was conducted at 7 boring locations at former Building 203. The LIF "responses" summarized below indicate PAHs were present and responded to LIF as observed in the field screening results. Because LIF responses were recorded at the northernmost row of screening locations, another row of screening points was added (CC - GG). See attached LIF Screening Results Field Figure for screening locations.

203-E: 0-7.5' No response, 7.5-10.5' Minor response, 19.0-22.0' Minor response, 22.0-30.30' No response.
203-D: Refusal encountered at 15' bgs. Upon pulling rods, sensor had been snapped off, cabling torn out.
203-CC: 0-15.75' No response, 15.75-30.00' Varying Response -- Peak at 23.0-26.0' bgs.
203-DD: 0-7.75' No response, 7.75-33.25' Varying consistent response -- Peak 20.5-22.5' bgs.
203-EE: 0-7.0' No response, 7.0-36.25' (as at 203-DD), varying, consistent response-- Peaks at 13-14' and 23.25-27.00' bgs.
203-FF: 0-7.5' No response, 7.5-16.5' -- Peaks at 7.5-12.5' and 13.25-16.00' bgs, 16.5-30.29' No response
203-GG: No significant response 0-26.29' bgs, Minor isolated responses approx. 8-22' bgs.

The attached LIF Screening Results Field Figure provides a visualization of locations with LIF responses at former Building 203. Purple squares around locations indicated there was a LIF response (product present), which blue circles around a location indicate no LIF response (no product present).

Because the LIF screening indicated PAHs were present at the new row (CC - GG), an additional row will be added to the northeast of the grid to continue plume delineation.

Assessment of Camp Hero Revetments

Brendan McGuinness (AECOM, Technical Lead) began assessing and mapping the locations of the wooden revetments throughout Camp Hero. This information collected will be utilized to support the selection of background surface water and sediment sample locations in Phase III investigation Work Plan Addendum.

Habitat Surveys

Steve Glenn (AECOM Botanist) conducted habitat assessments and inventories, including site sketches and photologs, for the following 5 AOCs/sub-AOCs: Fuel Pump house/AST-35, WDS Line A, WDS Line C, WDS Line D, and WDS Line E. Additionally, he reconnoitered sections of Sewer Line F and refined drainage patterns around Motor Pool complex The information collected will be utilized to support the Ecological Risk Assessment Work Plan for the Phase III investigation in the Spring of 2017.

The team left the site at 1600.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/2/2016 Friday

DR No. 04		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

John Montgomery (Columbia) completed 7 LIF screening borings (see above for more details) and prepared LIF boring profile logs.
At location 203-D, refusal encountered at 15' bgs and upon pulling rods, sensor had been snapped off and cabling torn out. J. Montgomery replaced sensor and cables (two hour down time; 0930 - 1130).
Summit Drilling (Jonathan Shuren) completed a total of 7 borings to approximately 25' to 30' bgs.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 7 team members would be on site (including AECOM, Columbia, and Summit).

REQUEST FOR INFORMATION (RFI) or CONVERSATIONS

An USACE-AECOM updated call on on the former Building 203 LIF screening results was hosted at 1400. The AECOM team relayed the most recent LIF results at former Building 203 and MR. Nick Acampora's (NYSDEC) input from his site visit yesterday, 12/1/16. Ms. Megan Cullen (USACE Technical Lead) believed Mr. Acampora's request for a 4-inch monitoring well near PZ-03 was outside the scope of this investigation. Mr. Greg Goepfert (USACE Project Manager) and Ms. Cullen will discuss this decision with Mr. Acampora on Monday 12/5/16. The team agreed to collect a fuel sample from PZ-03 for fingerprint analysis to confirm that the product is weathered diesel, per Mr. Acampora's request.

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

ATTACHMENTS

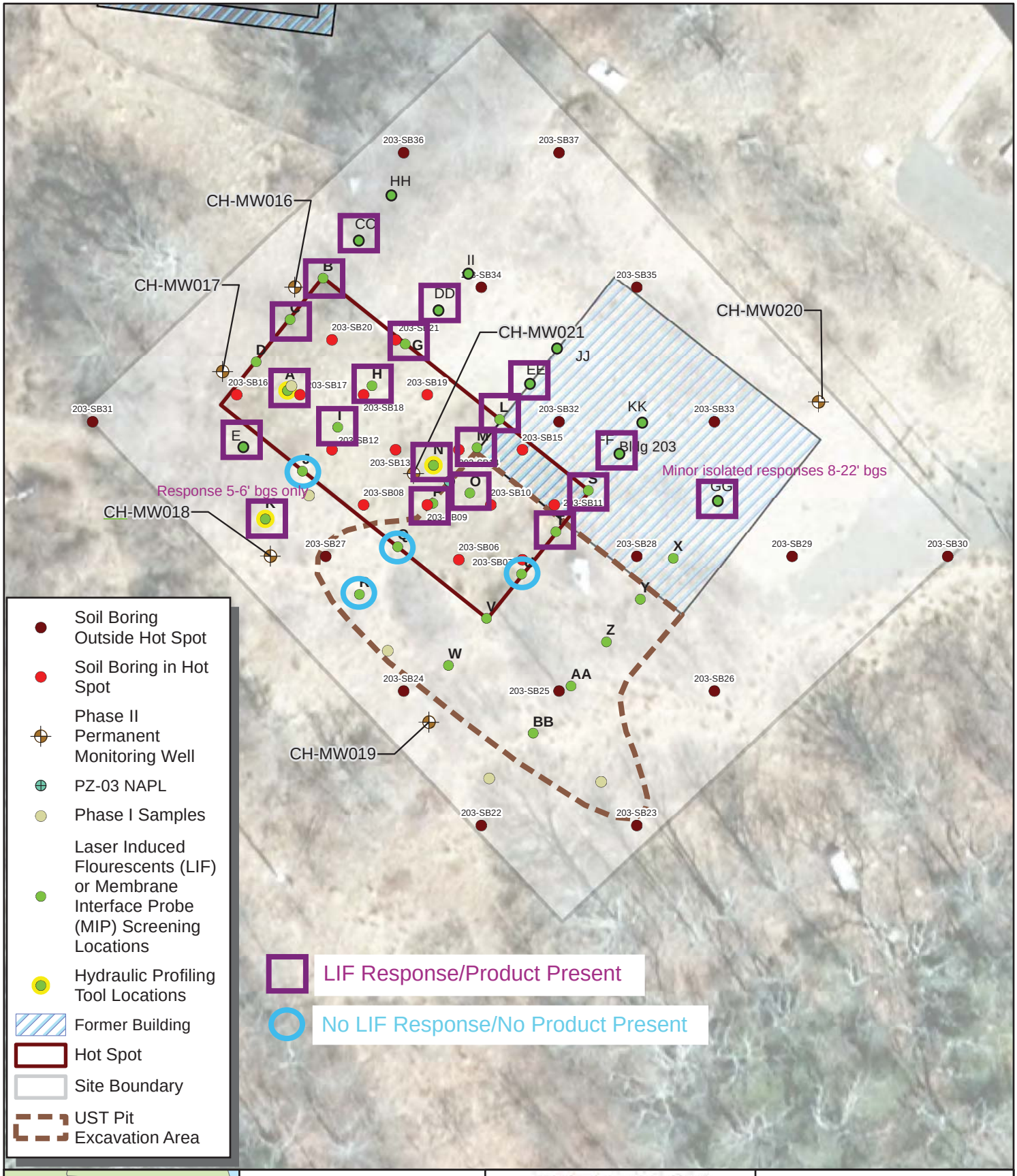
Camp Hero Phase II Investigation Checklist
LIF Boring Profile Logs
LIF Screening Results Field Figure

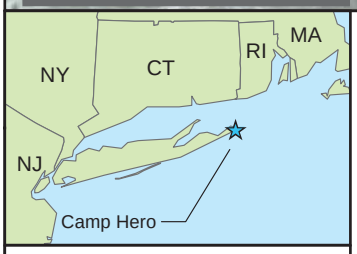
Superintendent (Signature):

Amanda Martin

Daily Photos

No significant photographs were collected on today's date.





MAP LOCATION

N
W
E
S

0 15 30

Feet

1 inch = 35 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM

3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Building 203 Phase II LIF Screening Results Field Figure

PROJECT NO.	PREPARED BY:	DATE:
60443903	ACC	Nov 2016

11/16/2016 1:420 Y:\Projects\Camp_Hero\Maps\Phase II Workplan\Fig 5-1 Bldg 203 Phase II Sampling2.mxd (USCHL1FP002\Data\Library\Gisprojects\)

Camp Hero Phase II Field Checklist

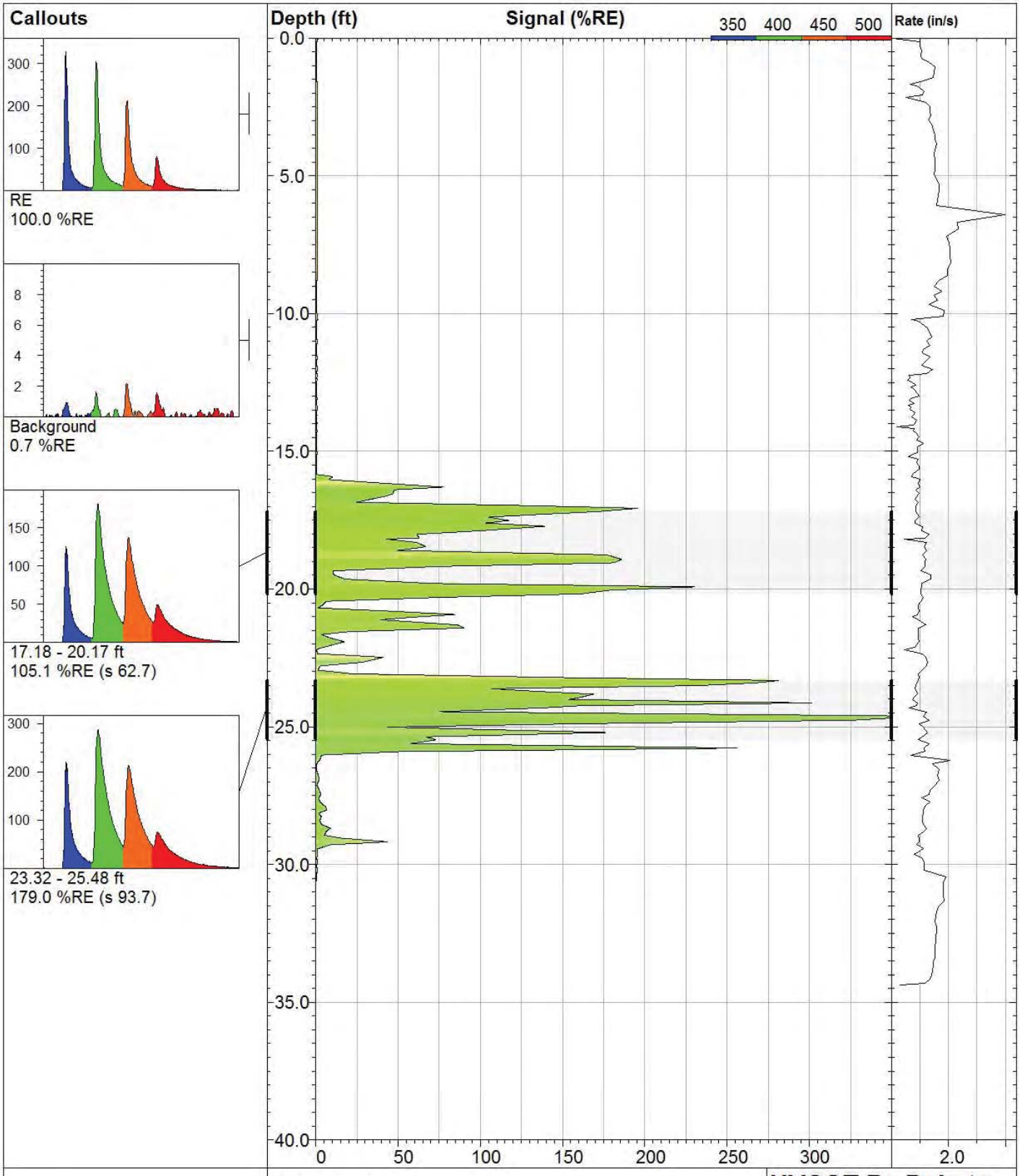
AOC ID	AOC Name	Location ID	Location Type	Flagging	UXO Anomaly Avoidance	Botany Survey	LIF Survey	MIP Survey
LIF MIP Survey Locations								
		A	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		B	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	BMG 12/1/16	NA
		C	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	BMG 12/1/16	NA
		D	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	MG 12/2/16	NA
		E	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	MG 12/2/16	NA
		F	NA	NA	NA	SG 11/30/16	NA	NA
		G	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		H	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		I	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		J	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		K	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		L	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		M	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		N	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		O	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		P	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		PZ-3	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	BMG 11/30/16	NA
		Q	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		R	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
203	LIF/MIP Survey at Building 203	S	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		T	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		U	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	
		V	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		W	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16		
		X	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		Y	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		Z	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		AA	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		BB	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		CC	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		DD	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		EE	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		FF	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		GG	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		HH						
		II						
		JJ						
		KK						
		LL						

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring / Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW017	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW018	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW019	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW020	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW021	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB07	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB10	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB11	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB14	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB15	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB16	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB19	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB20	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB21	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB23	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB24	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB25	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB26	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB27	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB28	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB29	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB30	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB31	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB32	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB33	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB34	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB35	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB36	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB37	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

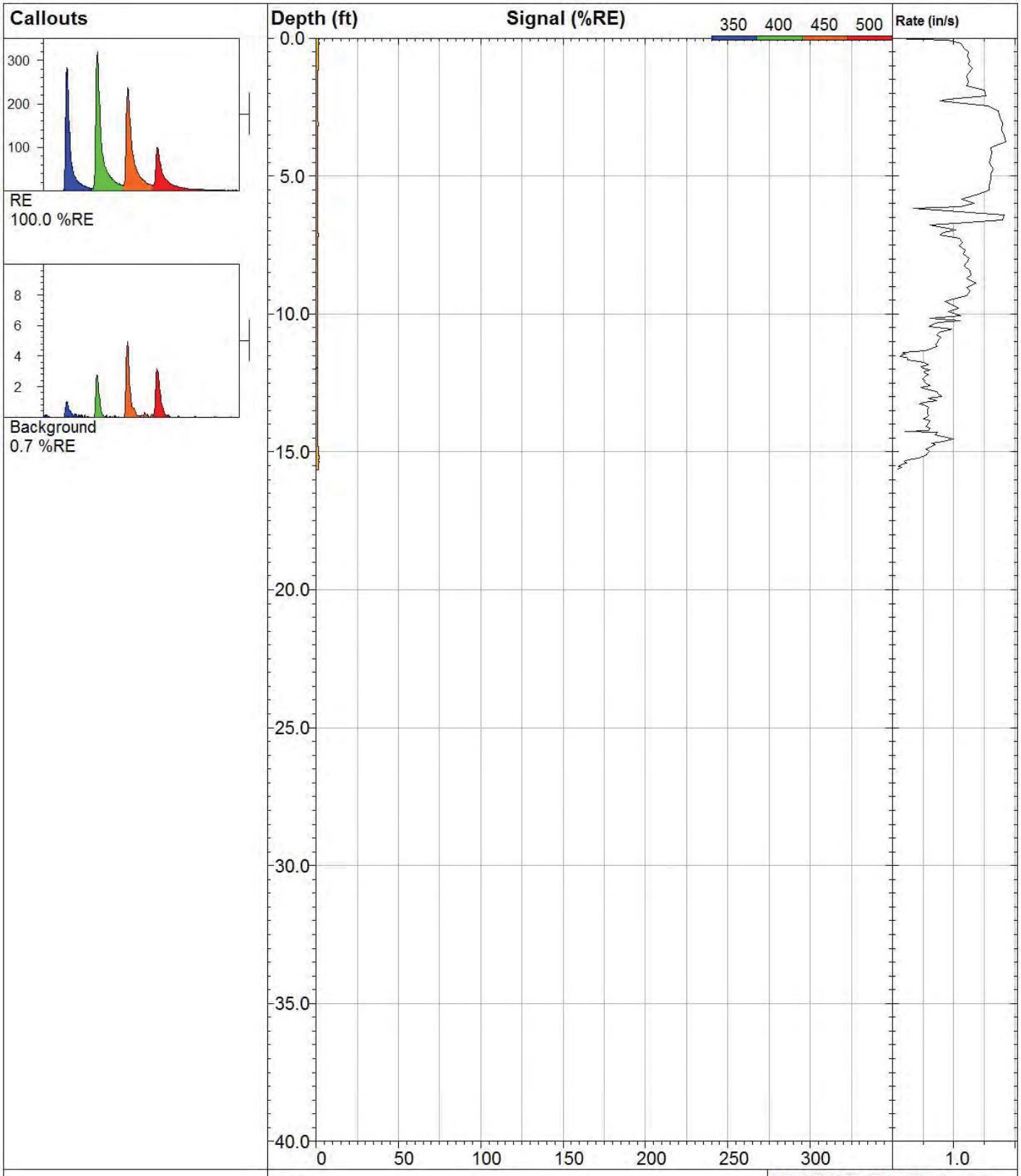


203CC

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **34.38 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **369.8 %RE @ 24.62 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 11:50 EST**

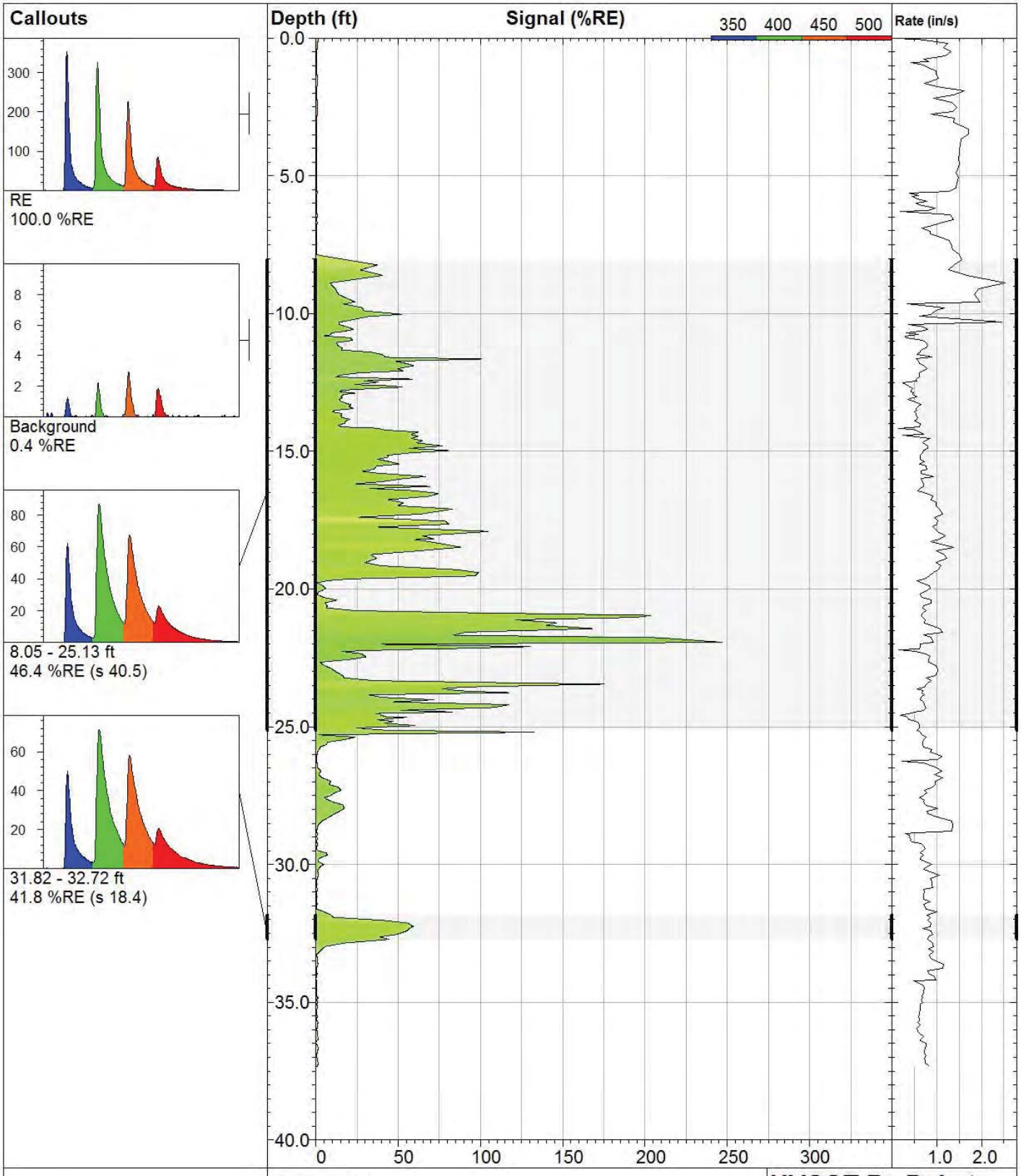


COLUMBIA TECHNOLOGIES

203D

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.66 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.0 %RE @ 0.00 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 09:14 EST**

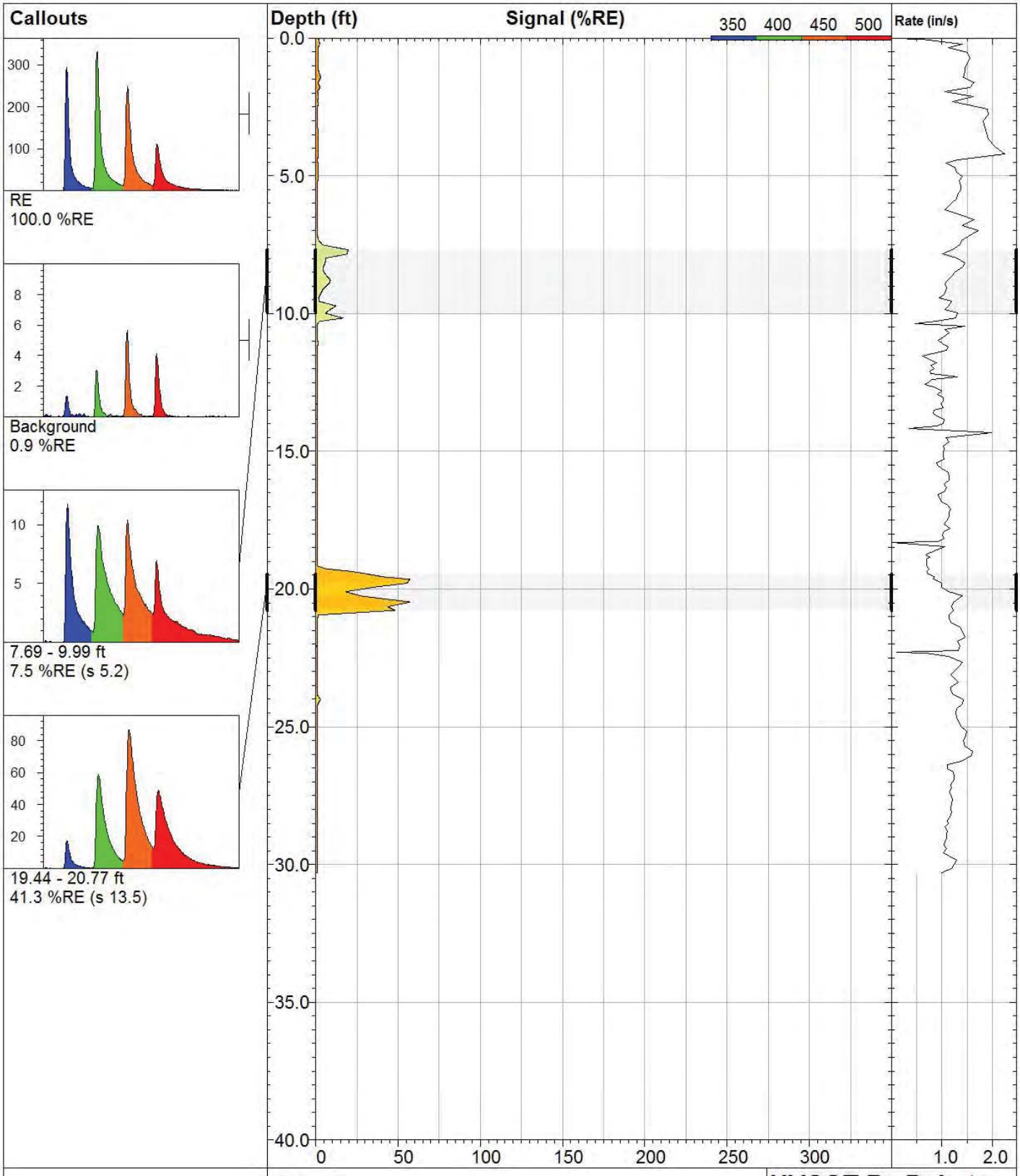


203DD

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **37.34 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **247.1 %RE @ 21.93 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 13:13 EST**

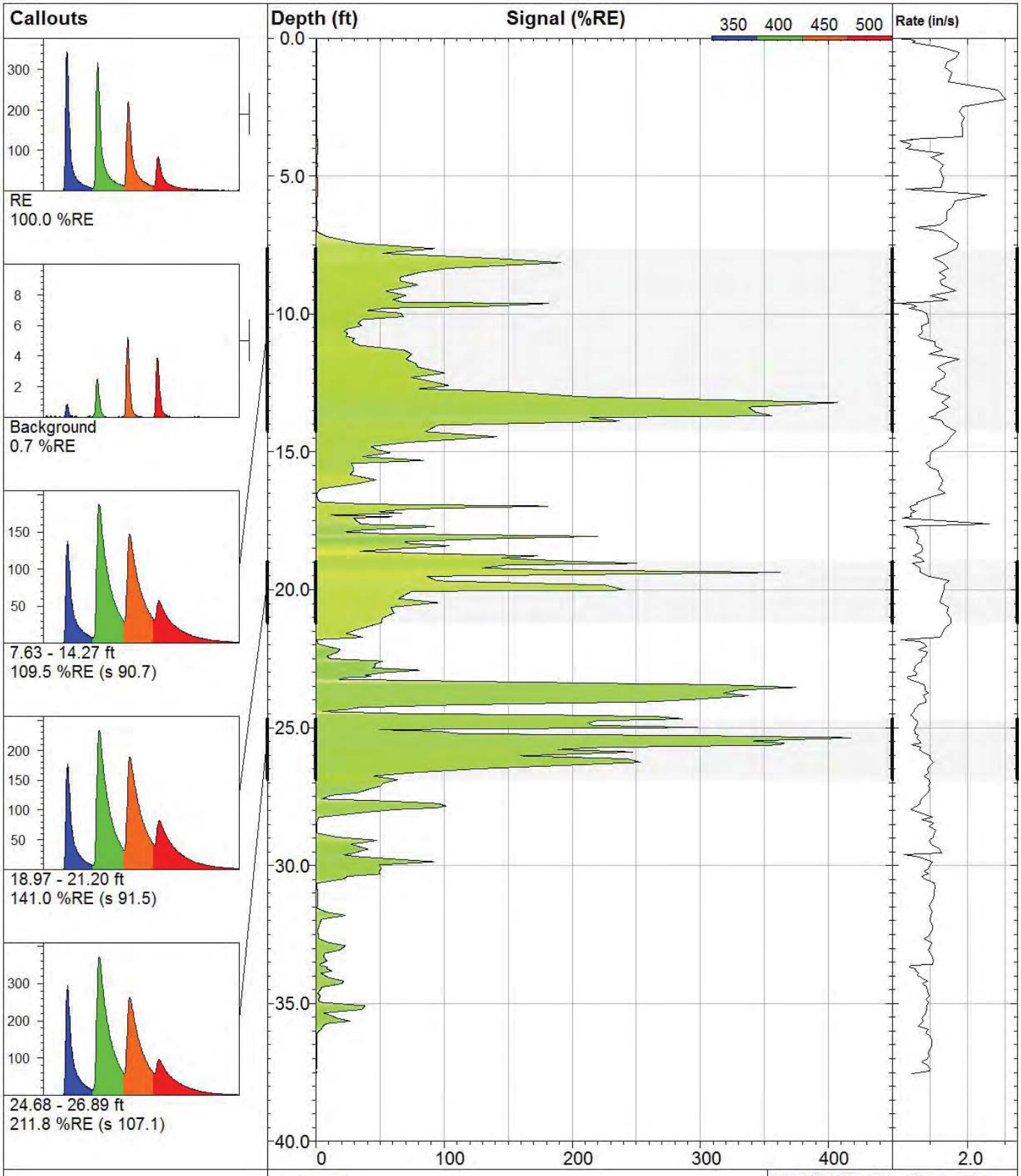


203E

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.30 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **57.3 %RE @ 20.47 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 08:48 EST**

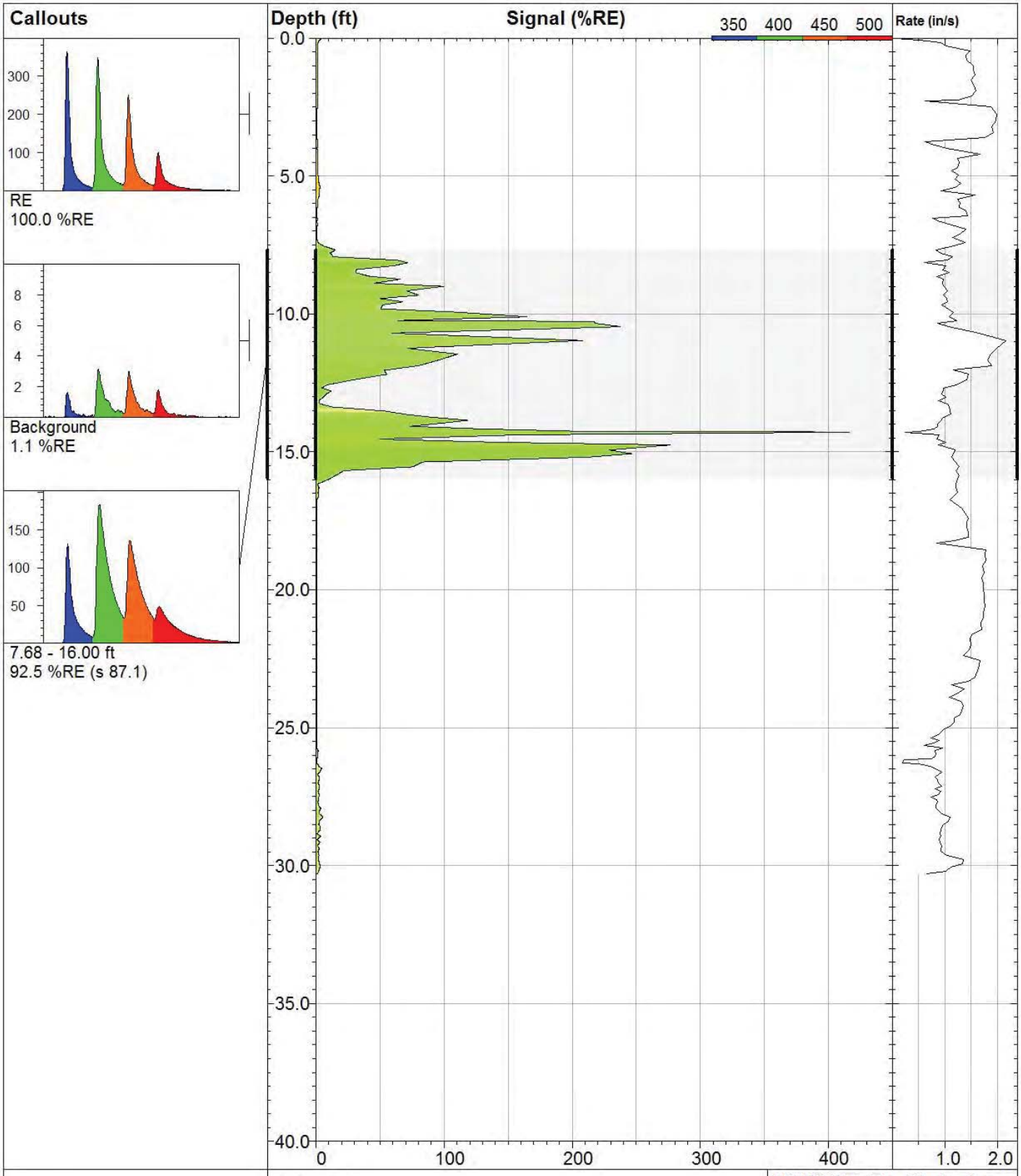


203EE

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **37.53 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **419.0 %RE @ 25.37 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 13:58 EST**

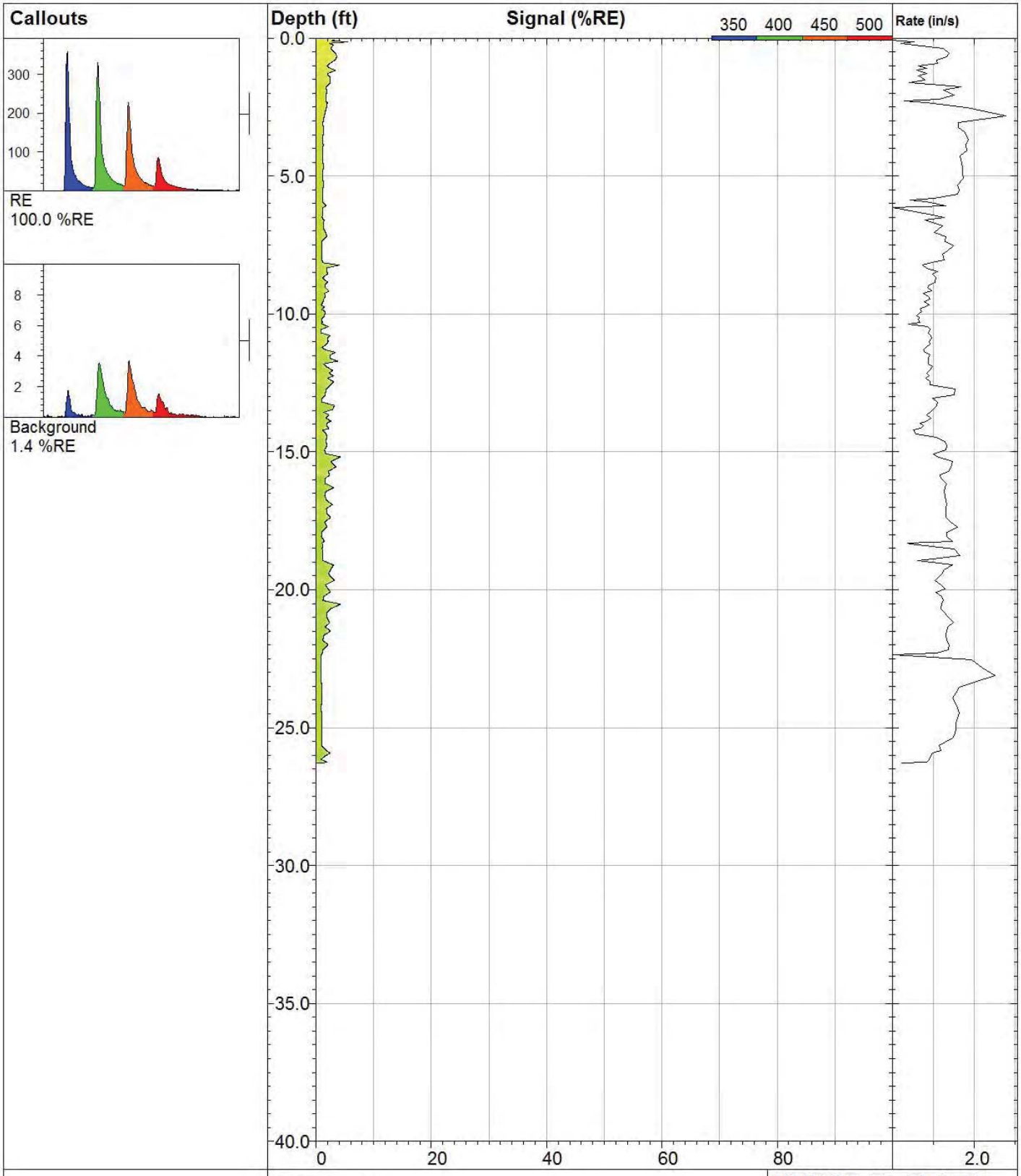


203FF

UVOST By Dakota
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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.29 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **416.6 %RE @ 14.28 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 14:42 EST**



COLUMBIA TECHNOLOGIES

203GG

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.29 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.5 %RE @ 0.14 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-02 15:14 EST**

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/3/2016 Saturday

DR No. 05	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 42°F Sunny, Winds 30 mph	**Days without a lost time injury:** 5		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	8	SSHO	AECOM	Columbia LIF/MIP Van	Tom Dess, NY State Parks
Amanda Martin	8	Site Supervisor	AECOM	Geoprobe 7822DT	
Brendan McGuinness	8	Field Quality Manager	AECOM	Shondstadt Magnetometer	
Steve Glenn	3	Botanist	AECOM	Solonist Interface Probe	
Matt Legg	8	UXO Tech II	AECOM		
Andrew Borden	0	Geologist	AECOM		
John Schroeder	0	Geologist	AECOM		
Sarah Ault	0	Geologist	AECOM		
Nicole Schulman	0	Environmental Scientist	AECOM		
John Montgomery	8	LIF/MIP Operator	Columbia		
Jonathan Shuren	8	Driller	Summit		
DAILY TOTAL	51				
TOTAL TO DATE	274.5	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
Columbia	None
Summit (Subcontractor of Columbia)	

WORKED PERFORMED BY AECOM

The AECOM and Columbia/Summit team arrived on site at 0730. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

The team completed the remaining location flagging and UXO anomaly avoidance at newly added former Building 203 LIF screening locations (see attached Field Field Checklist for details).

Former Building 203 Laser-Induced Fluroescence (LIF) Screening

LIF was conducted at 8 boring locations at former Building 203. LIF was attempted at 5 additional locations, but refusal was encountered and LIF could not be conducted. It is assumed that portions of the concrete foundation of former Building 203 are in place at these locations.

The LIF "responses" summarized below indicate PAHs were present and responded to LIF as observed in the field screening results. See attached LIF Screening Results Field Figure for screening locations.

- 203-W: no significant response
- 203-V: no significant response
- 203-Z: no truly significant response, however a minor response at 8.5-9.5' bgs
- 203-X: no significant response
- 203-Y: no significant response
- 203-LL: 0-17.0 no response, 17.0-20.5 minor response, 20.5-25.0 significant response, refusal at 26.7 (no response)
- 203-RR: 0-12.5' no response, 12.5-24.5' moderate response, 24.5-27.0' no response, 27.0-34.0' moderate response, 34.0-38.23 no response, Peak response at 30-33'
- 203-JJ: 0-5.0' no response, 5.0-26.0' varied but continuous response, 26.0-30.3' no response
- 203-YY: refusal at 5.5'
- 203-NN: refusal at 4.4' however, minor response 3.7-4.4'
- 203-NN (offset): refusal at 5.0'
- 203-OO: refusal at 5.0'
- 203-PP: refusal at 2.0'
- 203-WW:refusal at approximately 7.0'
- 203-AAA: pre-drilled to 10.0' bgs, will perform LIF tomorrow

The attached LIF Screening Results Field Figure provides a visualization of locations with LIF responses at former Building 203. Purple squares around locations indicated there was a LIF response (product present), which blue circles around a location indicate no LIF response (no product present). Because the LIF screening indicated PAHs were present at the new row, additional loations were to the grid to continue NAPL plume delineation.

Assessment of Camp Hero Revetments

Brendan McGuinness (AECOM, Technical Lead) continued assessing and mapping the locations of the wooden revetments throughout Camp Hero. This information collected will be utilized to support the selection of background surface water and sediment sample locations in Phase III investigation Work Plan Addendum.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/3/2016 Saturday

DR No. 05		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (CONTINUED)

Habitat Surveys

Steve Glenn (AECOM Botanist) conducted habitat assessments and inventories, including site sketches and photologs, for the remaining AOCs at Camp Hero. The information collected will be utilized to support the Ecological Risk Assessment Work Plan for the Phase III investigation in the Spring of 2017.

S. Glenn demobilized from the site around 1130. The rest of the team left the site at 1600.

WORK COMPLETED BY AECOM SUBCONTRACTORS

John Montgomery (Columbia) completed 8 LIF screening borings (see above for more details) and prepared LIF boring profile logs. LIF was attempted at 5 additional locations, but refusal was encountered in the boring and LIF could not be conducted.

Jonathan Shuren(Summit Drilling) completed a total of 8 borings to approximately 25' to 30' bgs, plus an additional 7 borings between pre-boring potential locations to check for refusal and offsetting refused locations (total of 15 borings)

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 7 team members would be on site (including AECOM, Columbia, and Summit).

REQUEST FOR INFORMATION (RFI) or CONVERSATIONS

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

Hikers in the woods nearby the former Building 203 area thought they had identified UXO in the woods. They notified the NY State Park police, who notified Mr. Tom Dess (NY State Parks). Mr. Dess mistakenly believed AECOM/USACE had called in the concern, but the team clarified they had not identified/called in any concerns and the State Park Police clarified it had been teenage hikers. Nonetheless, Matt Legg (AECOM UXO Technician II) assessed the potential concern with the State Park Police officers and determined that the object was not UXO, but rather a piece of plumbing. The State Park police recorded M. Legg's contact information for their records.

SITE OBSERVATIONS

None

ATTACHMENTS

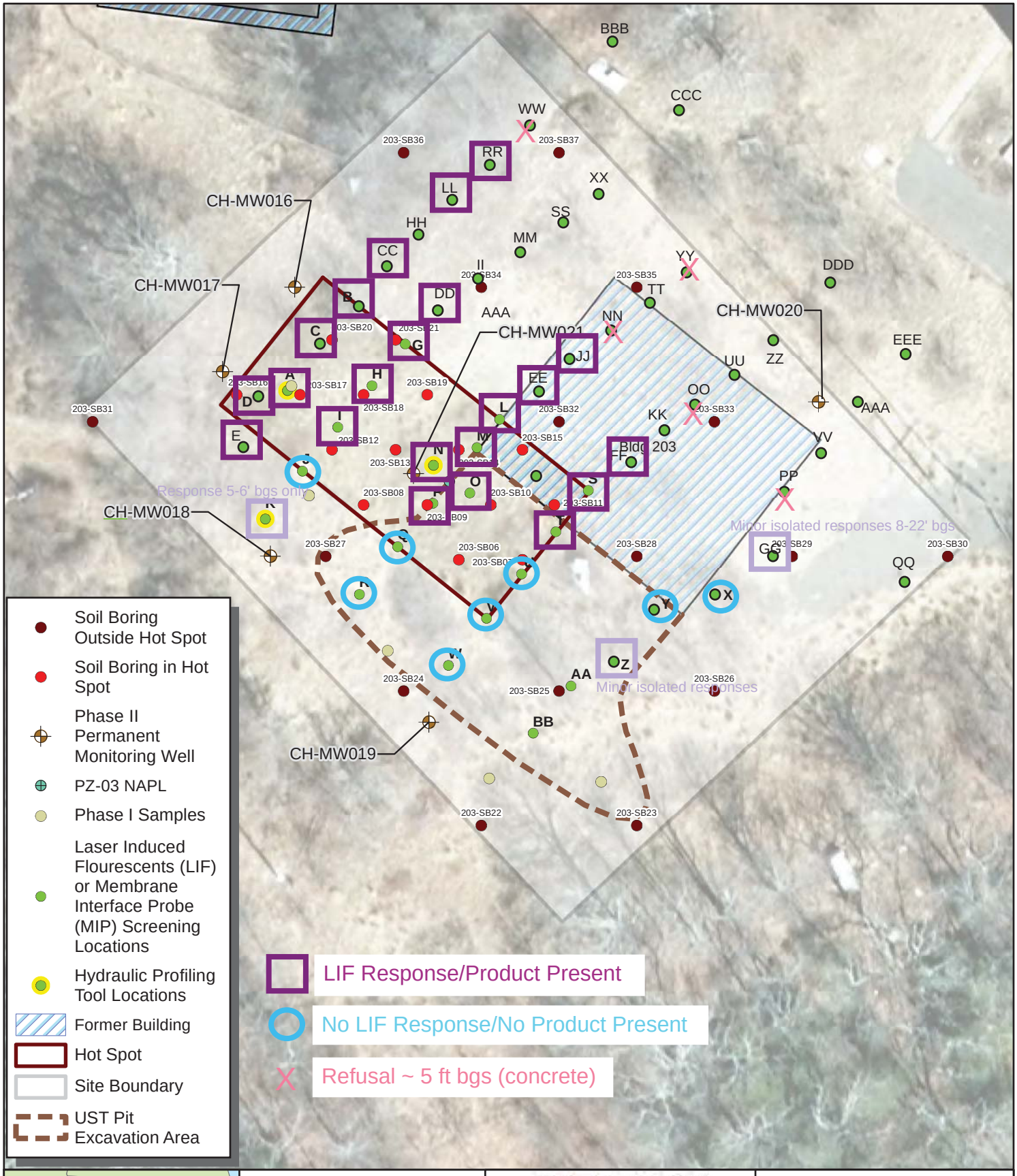
Camp Hero Phase II Investigation Checklist
LIF Boring Profile Logs
LIF Screening Results Field Figure

Superintendent (Signature):

Amanda Martin

Daily Photos

No significant photographs were collected on today's date.





MAP LOCATION

N
W
E
S

0 15 30

Feet

1 inch = 35 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM

3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Building 203 Phase II LIF Screening Results Field Figure

PROJECT NO.	PREPARED BY:	DATE:
60443903	ACC / AM	12/3/2016

Camp Hero Phase II Field Checklist

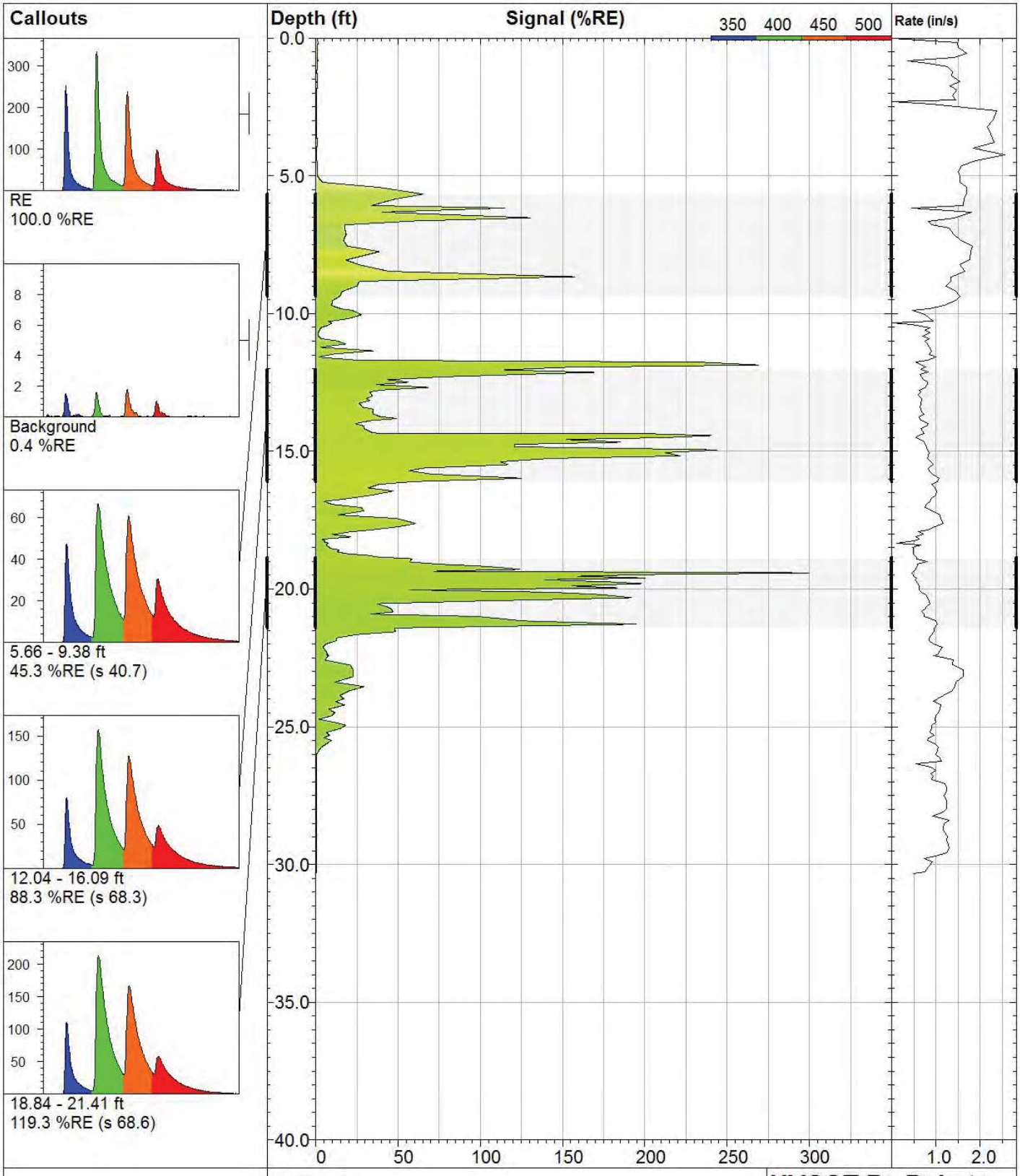
AOC ID	AOC Name	Location ID	Location Type	Flagging	UXO Anomaly Avoidance	Botany Survey	LIF Survey	MIP Survey
LIF MIP Survey Locations								
		A	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		B	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	BMG 12/1/16	NA
		C	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	BMG 12/1/16	NA
		D	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	MG 12/2/16	NA
		E	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	MG 12/2/16	NA
		F	NA	NA	NA	SG 11/30/16	NA	NA
		G	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		H	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		I	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		J	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		K	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		L	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		M	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		N	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		O	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		P	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		PZ-3	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	BMG 11/30/16	NA
		Q	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		R	LIF/MIP	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	
		S	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		T	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		U	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	
		V	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/3/16	
		W	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/3/16	
		X	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	MG 12/3/16	
		Y	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	MG 12/3/16	
		Z	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	MG 12/3/16	NA
		AA	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
203	LIF/MIP Survey at Building 203	BB	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16		
		CC	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		DD	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		EE	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		FF	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		GG	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		HH	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		II	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		JJ	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	MG 12/3/16	NA
		KK	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		LL	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	MG 12/3/16	NA
		MM	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		NN	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	REFUSAL	NA
		OO	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	REFUSAL	NA
		PP	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	REFUSAL	NA
		QQ	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		RR	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	MG 12/3/16	NA
		SS	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		TT	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		UU	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		VV	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		WW	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	REFUSAL	NA
		XX	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		YY	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	REFUSAL	NA
		ZZ	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		AAA	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16		
		BBB						
		CCC						
		DDD						
		EEE						

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring / Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW017	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW018	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW019	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW020	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW021	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB07	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB10	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB11	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB14	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB15	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB16	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB19	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB20	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB21	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB23	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB24	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB25	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB26	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB27	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB28	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB29	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB30	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB31	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB32	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB33	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB34	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB35	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB36	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB37	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

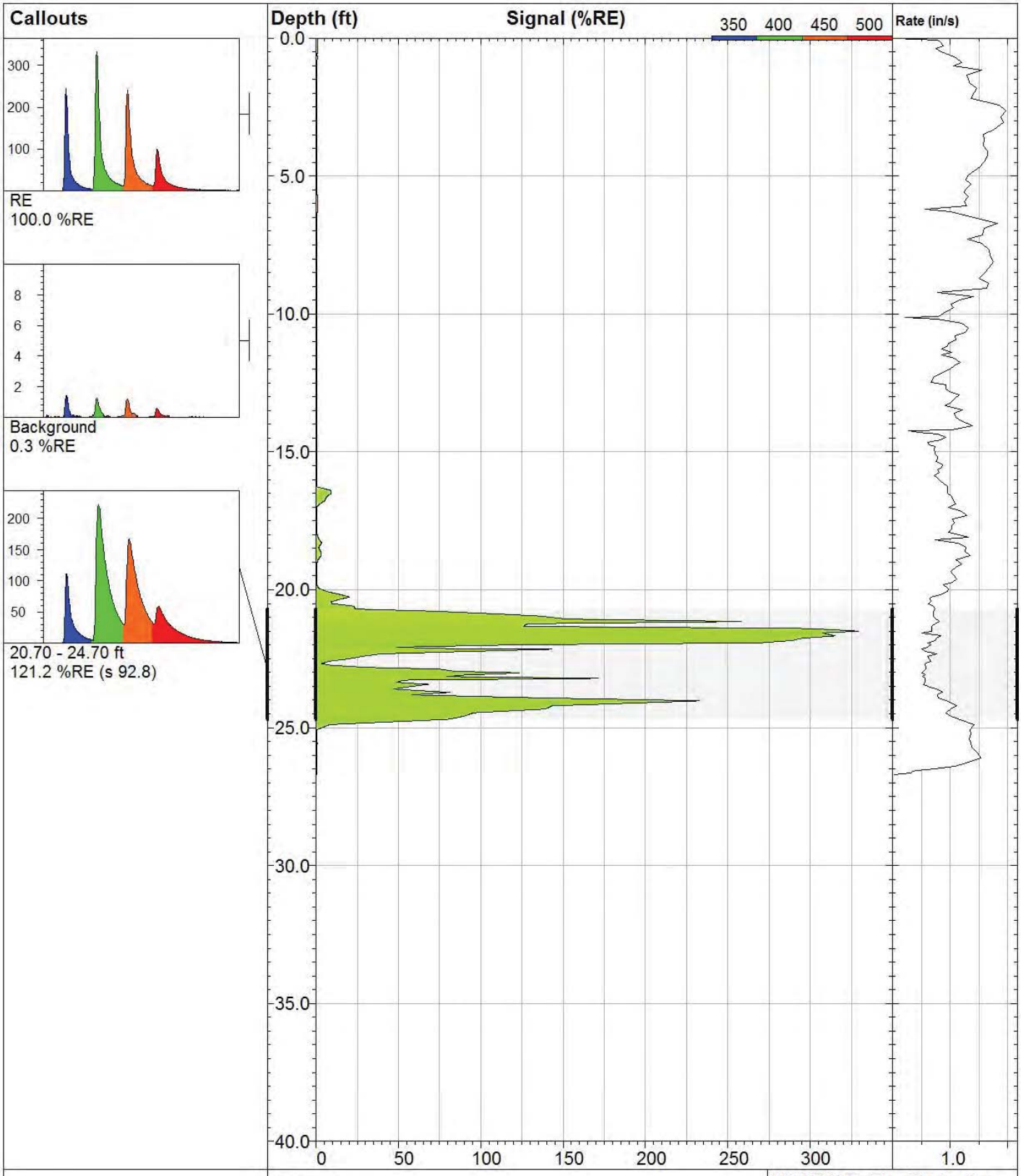


203JJ

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www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.31 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **305.7 %RE @ 19.41 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 15:05 EST**

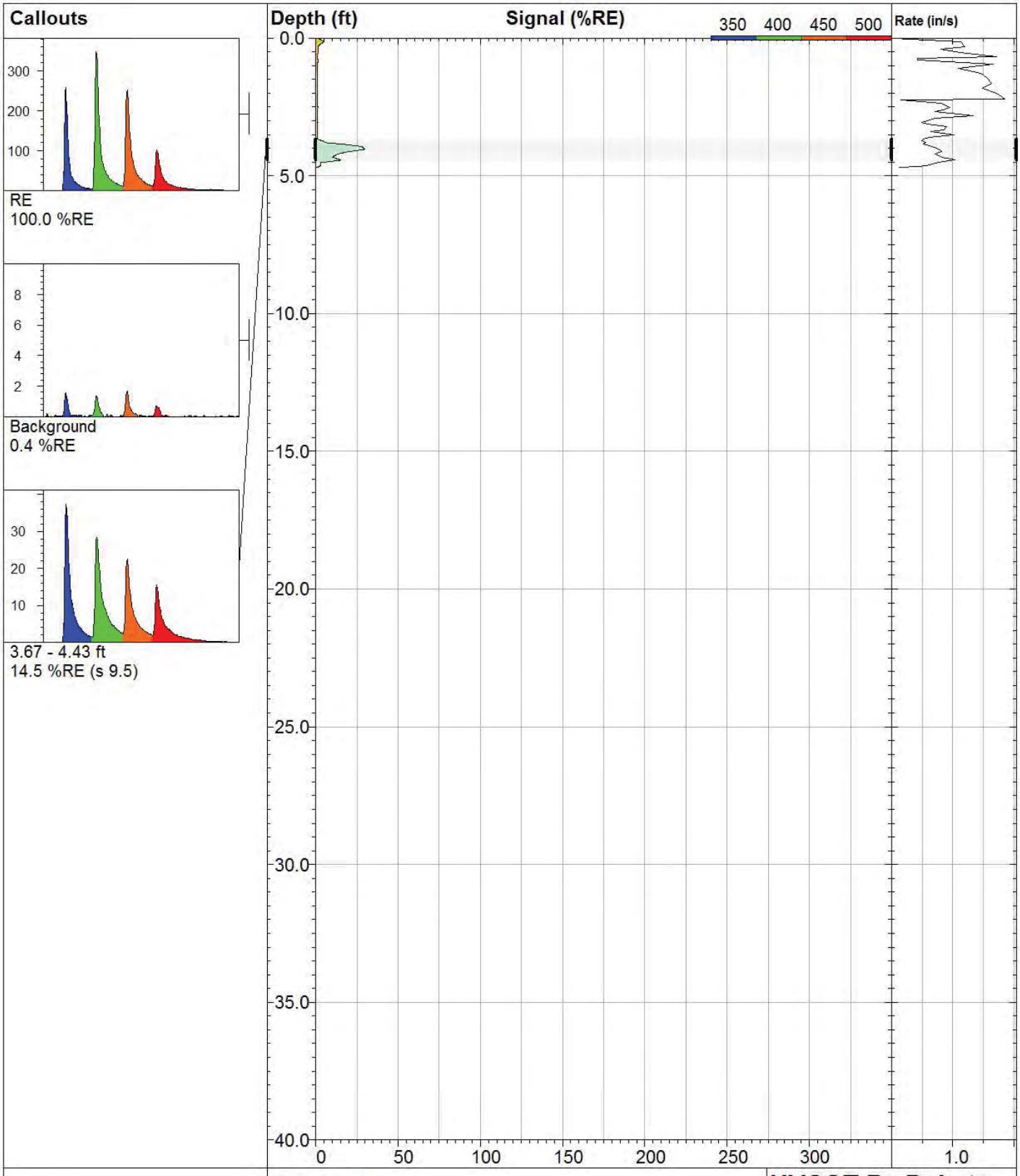


203LL

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.71 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **329.7 %RE @ 21.50 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 11:42 EST**

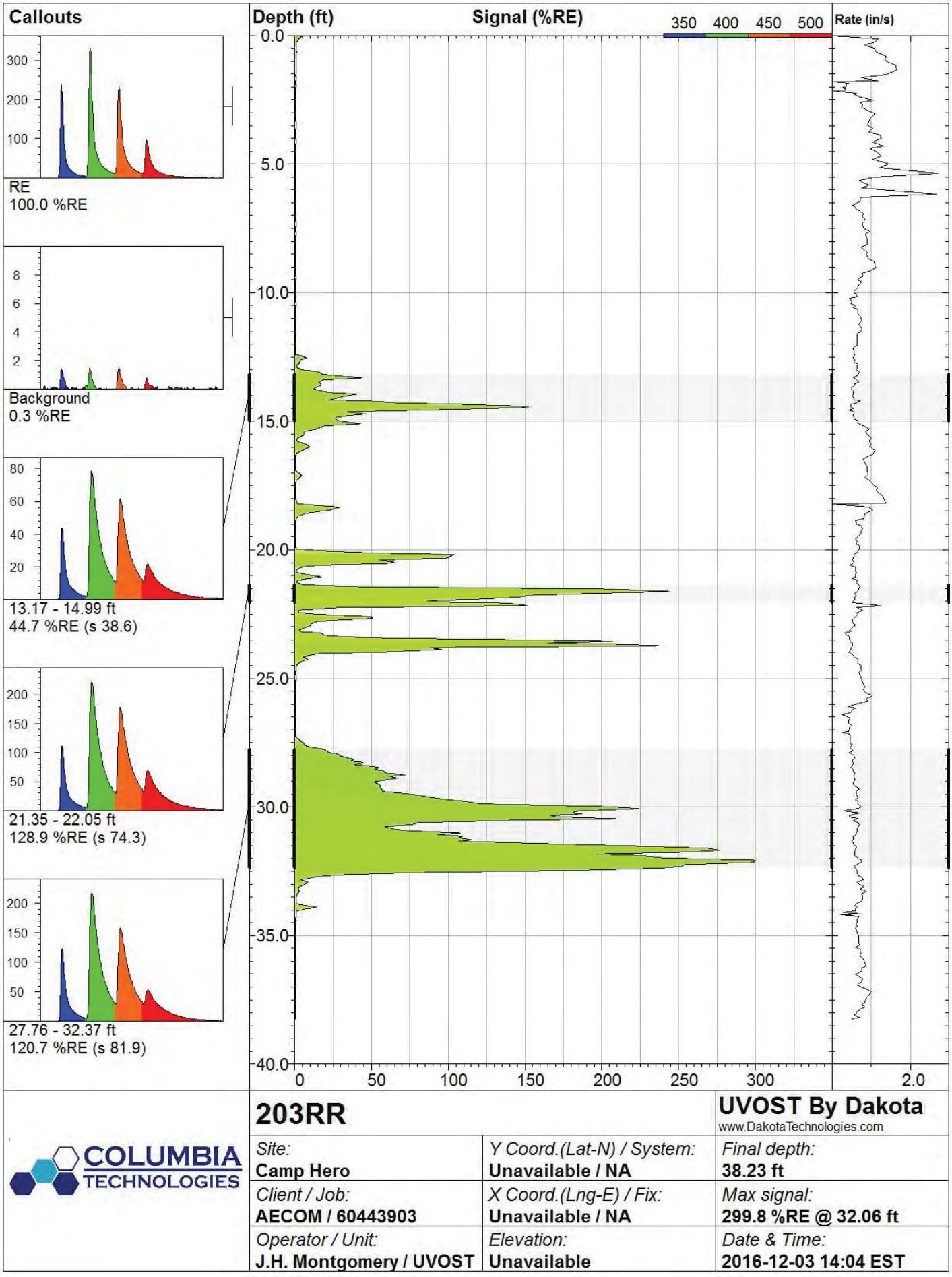


COLUMBIA TECHNOLOGIES

203NN

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.70 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **29.8 %RE @ 4.04 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 12:56 EST**

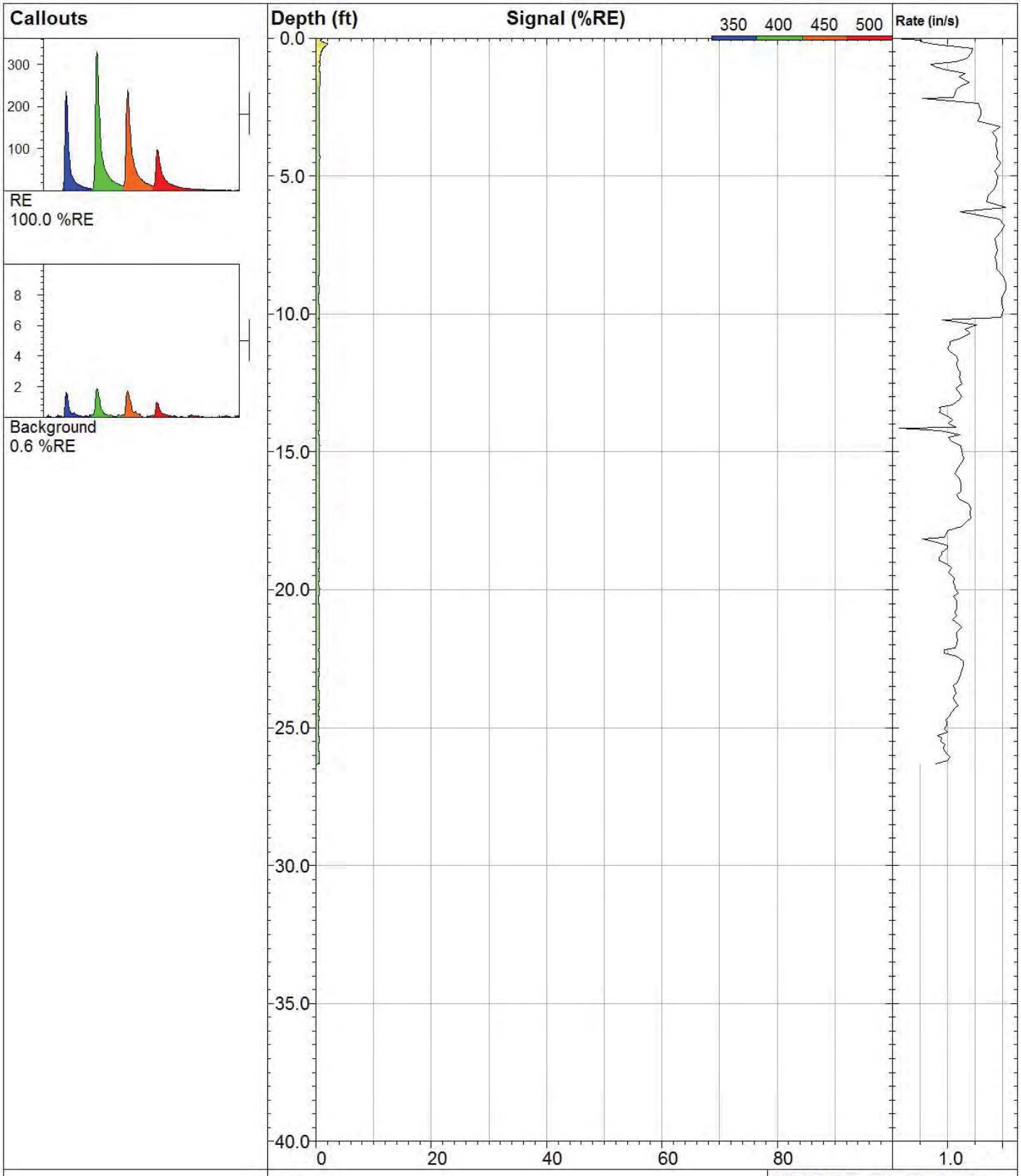


203RR

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **38.23 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **299.8 %RE @ 32.06 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 14:04 EST**

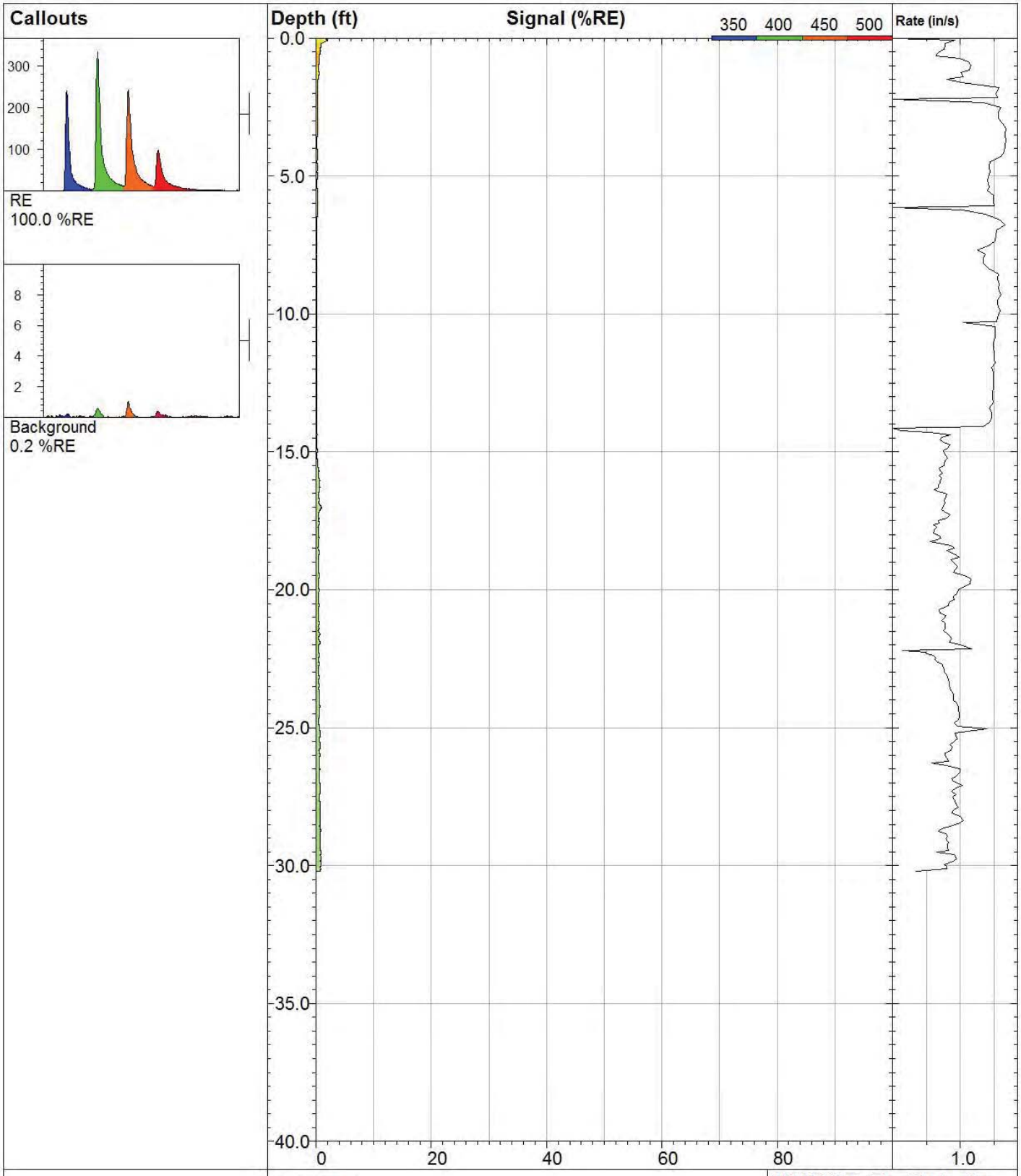


COLUMBIA TECHNOLOGIES

203V

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.33 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.1 %RE @ 0.22 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 09:20 EST**

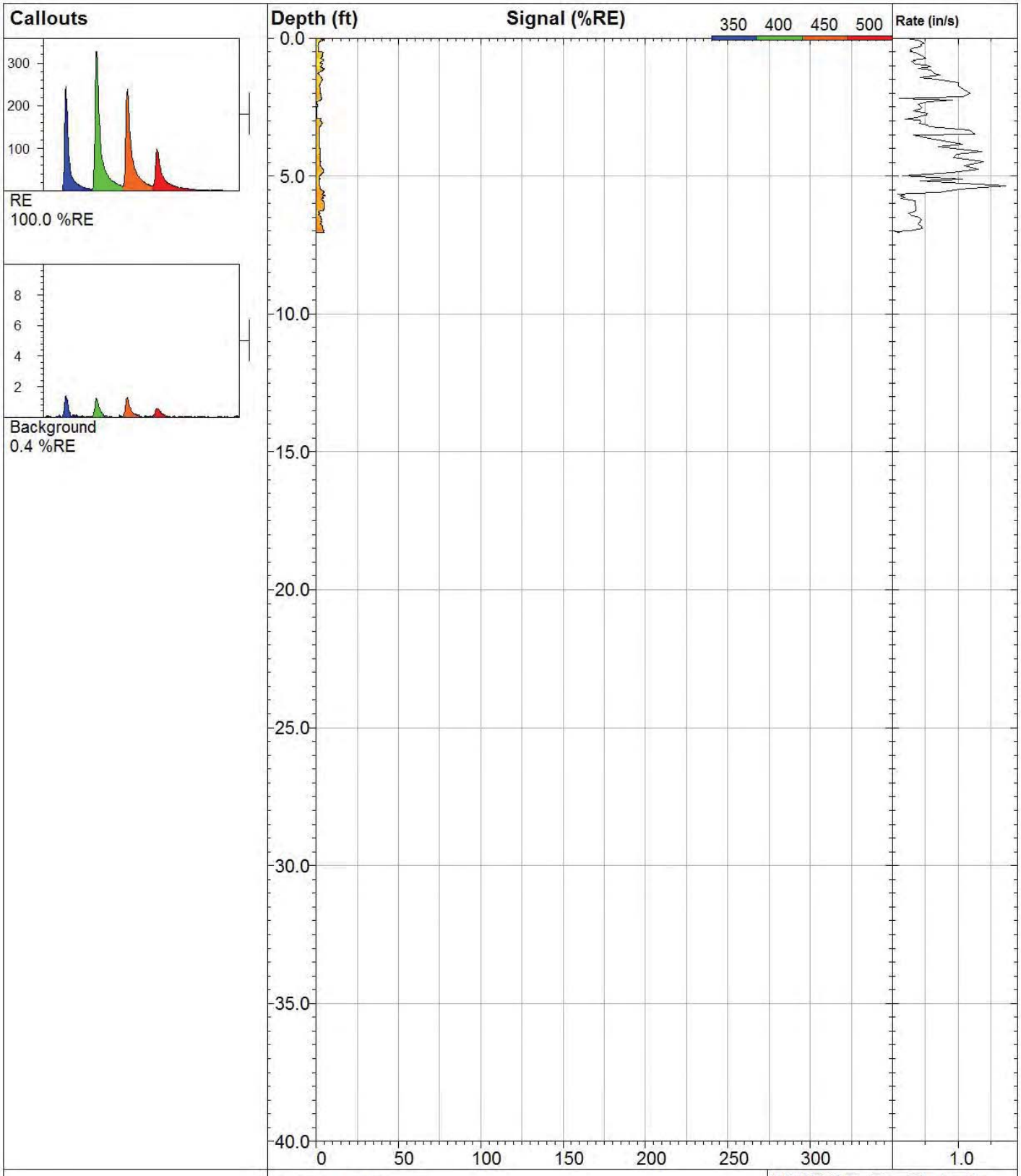


203W

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COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **30.20 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.1 %RE @ 0.08 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 08:49 EST**

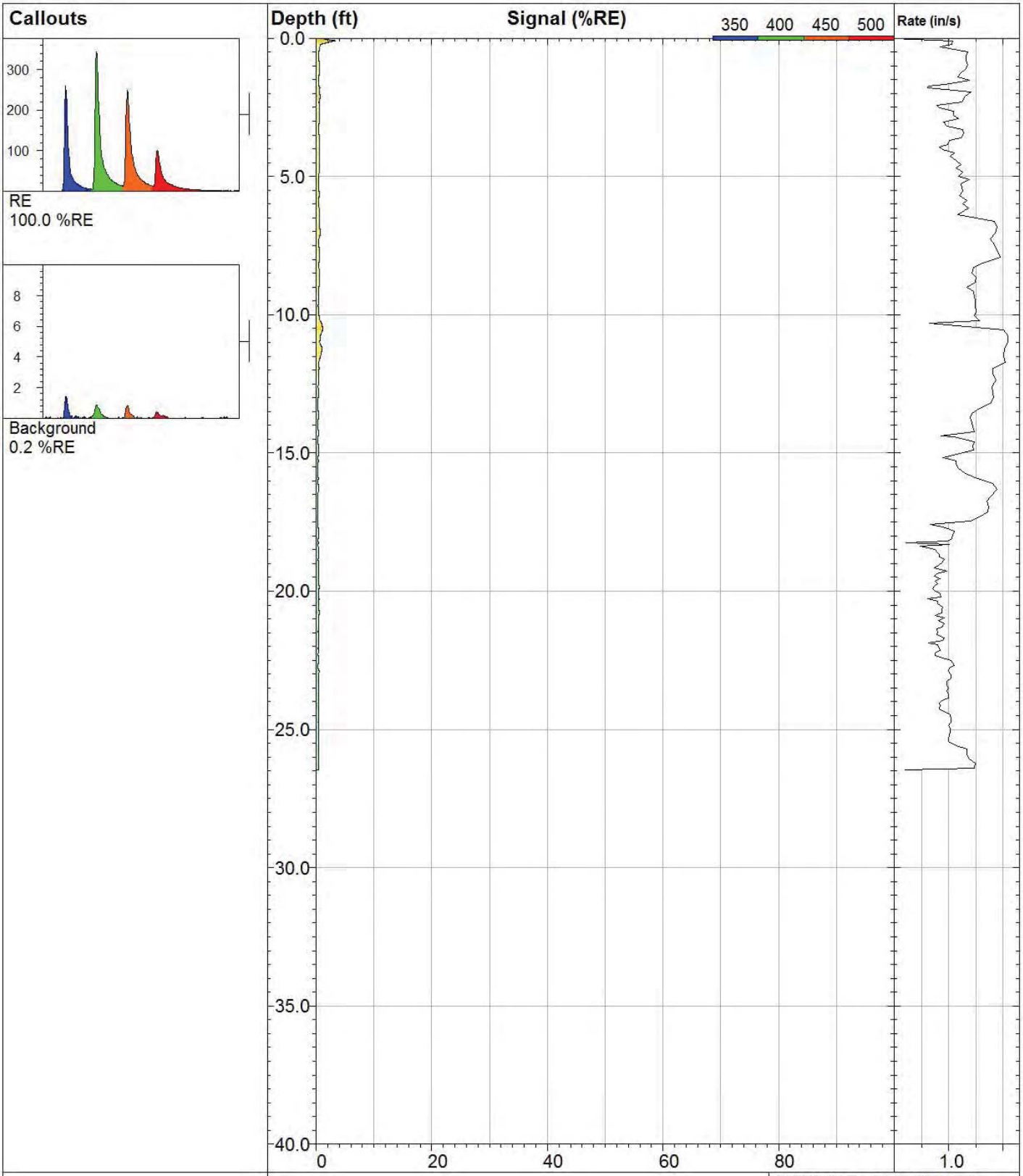


COLUMBIA TECHNOLOGIES

203WW

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Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.05 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.6 %RE @ 5.71 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 13:45 EST**

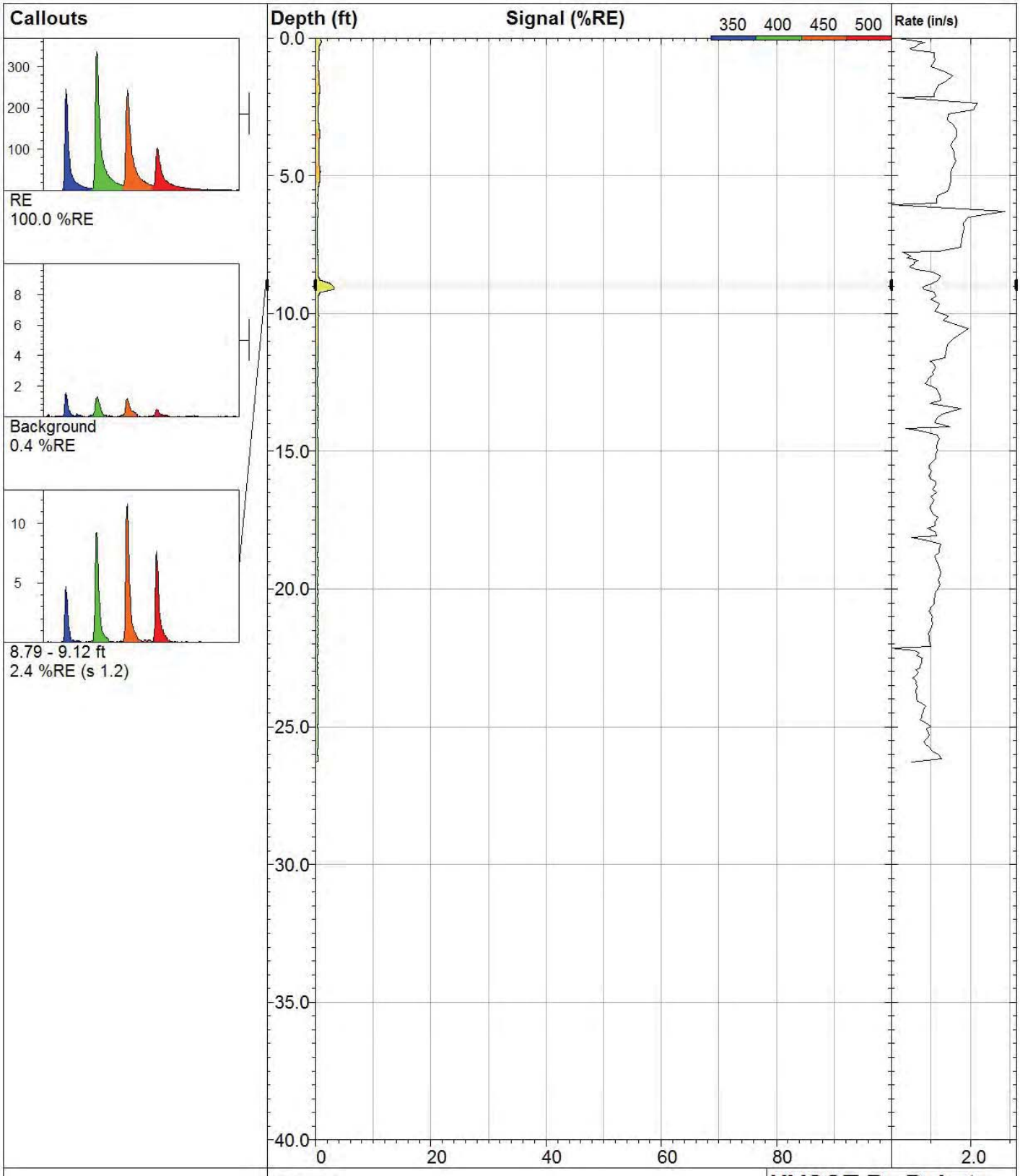


COLUMBIA TECHNOLOGIES

203Y

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.47 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.2 %RE @ 0.09 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 10:50 EST**



203Z

UVOST By Dakota
www.DakotaTechnologies.com

COLUMBIA TECHNOLOGIES

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.27 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.2 %RE @ 9.12 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-03 09:55 EST**

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/4/2016 Sunday

DR No. 06	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 42°F Sunny, Winds 30 mph	**Days without a lost time injury:** 6		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	7.5	SSHO	AECOM	Columbia LIF/MIP Van	
Amanda Martin	8.5	Site Supervisor	AECOM	Geoprobe 7822DT	
Brendan McGuinness	7.5	Field Quality Manager	AECOM	Shondstadt Magnetometer	
Steve Glenn	0	Botanist	AECOM	Solonist Interface Probe	
Matt Legg	7	UXO Tech II	AECOM		
Andrew Borden	1.5	Geologist	AECOM		
John Schroeder	0	Geologist	AECOM		
Sarah Ault	1.5	Geologist	AECOM		
Jeff Dvorak	1.5	Environmental Scientist	AECOM		
Nicole Schulman	0	Environmental Scientist	AECOM		
John Montgomery	5	LIF/MIP Operator	Columbia		
Jonathan Shuren	6	Driller	Summit		
DAILY TOTAL	46				
TOTAL TO DATE	320.5	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
Columbia	20CY Roll-Off with Locking Lid (Soil IDW Container), Atlas
Summit (Subcontractor of Columbia)	

WORKED PERFORMED BY AECOM

The AECOM and Columbia/Summit team arrived on site at 0730. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day. Three additional team members (S. Ault, A. Borden, and J. Dvorak) arrived on-site at 1430 and received all safety briefings and a site tour, in preparation for the week's activities.

Preparation Activities

The team completed the remaining location flagging and UXO anomaly avoidance at newly added former Building 203 LIF screening locations (see attached Field Field Checklist for details). A. Martin received delivery of the 20CY roll-off with locking lid solid IDW containerization. The IDW container was staged on the east side of the Motor Pool building, per permission/previous discussion with Mr. Tom Dess (NY State Parks). Per Atlas driver, both poly tanks will arrive tomorrow morning. No liner was present in roll-off; driver indicated he will bring a liner tomorrow along with the poly tanks.

Additionally, soil and groundwater sampling/development equipment and coolers arrived on-site at 1430. Equipment and supplies were unloaded into the Conex box and orgaized in preparation for beginning well installation tomorrow.

Former Building 203 Laser-Induced Fluroescence (LIF) Screening

LIF was conducted at 3 boring locations at former Building 203. LIF was attempted at 4 additional locations, but refusal was encountered and LIF could not be conducted. It is assumed that portions of the concrete foundation of former Building 203 are in place at these locations.

The LIF "responses" summarized below indicate PAHs were present and responded to LIF as observed in the field screening results. See attached LIF Screening Results Field Figure for screening locations.

- 203-AAA: no significant response
- 203-ZZ: refusal at 5.0' bgs
- 203-QQ: no significant response
- 203-DDD: no signficant response
- 203-BBB: refusal at 5.0' bgs after multiple attempts/offsets
- 203-SS: refusal at 5.0' bgs after multiple attempts/offsets
- 203-TT: refusal at 5.0' bgs after multiple attempts/offsets

The attached LIF Screening Results Field Figure provides a visualization of locations with LIF responses at former Building 203. Purple squares around locations indicated there was a LIF response (product present), which blue circles around a location indicate no LIF response (no product present).

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/4/2016 Sunday

DR No. 05		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (CONTINUED)

Assessment of Camp Hero Revetments

Brendan McGuinness (AECOM, Technical Lead) continued assessing and mapping the locations of the wooden revetments throughout Camp Hero. This information collected will be utilized to support the selection of background surface water and sediment sample locations in Phase III investigation Work Plan Addendum.

The team left the site at 1600.

WORK COMPLETED BY AECOM SUBCONTRACTORS

John Montgomery (Columbia) completed 3 LIF screening borings (see above for more details) and prepared LIF boring profile logs. LIF was attempted at 4 additional locations, but refusal was encountered in the boring and LIF could not be conducted. J. Montgomery demobilized from the site at 1330.

Jonathan Shuren(Summit Drilling) completed a total of 3 borings to approximately 25' to 30' bgs, plus an additional 4 attempted borings where refusal was encountered (7 total borings). Additionally, J. Shuren cleaned the Geoprobe 7822DT to remove mud before demolilizing and winterized the rig for transport.

J. Shuren demolbilized from the site at 1430.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 7 team members would be on site (including AECOM, Columbia, and Summit).

REQUEST FOR INFORMATION (RFI) or CONVERSATIONS

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

ATTACHMENTS

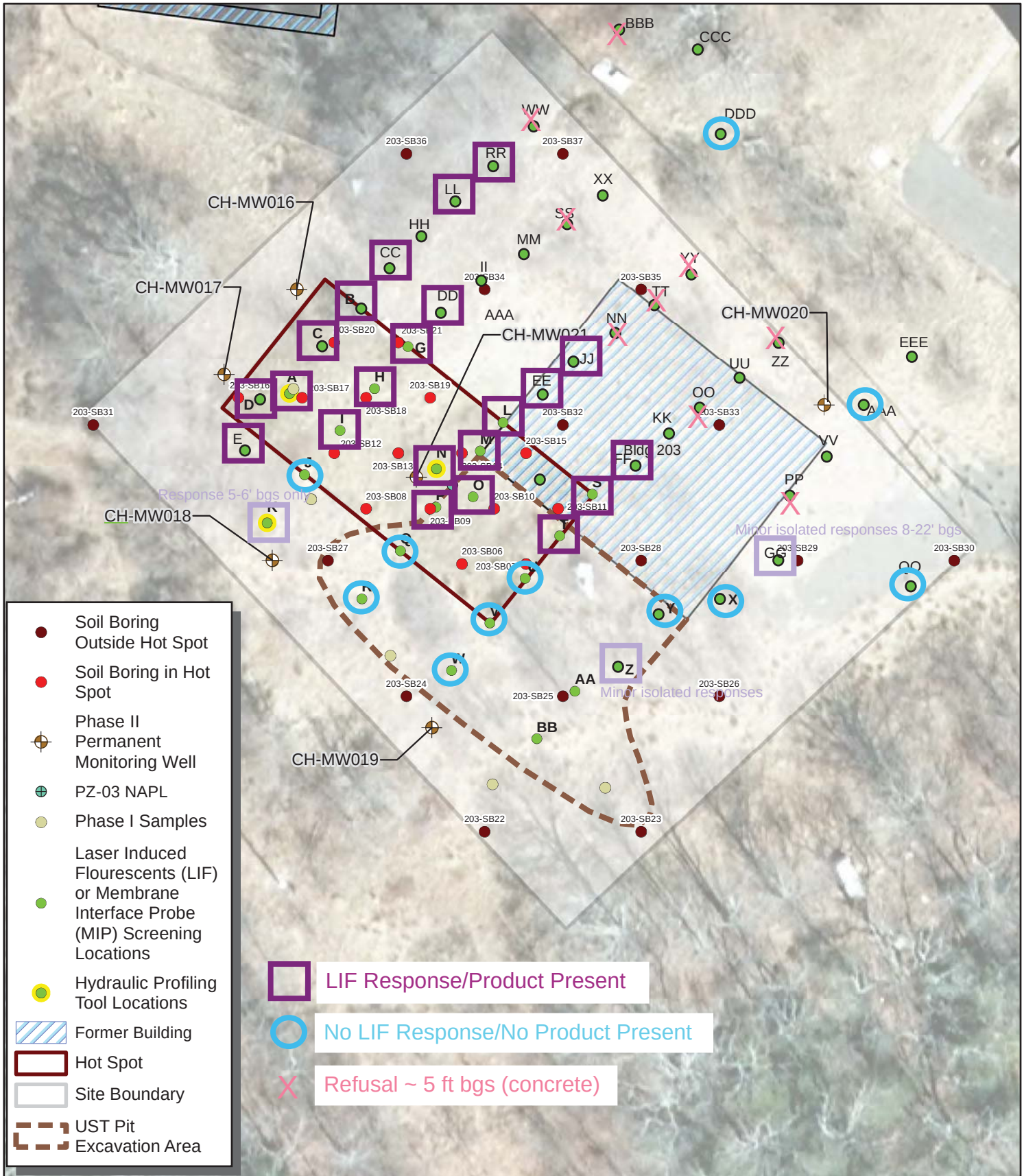
Camp Hero Phase II Investigation Checklist
LIF Boring Profile Logs
LIF Screening Results Field Figure

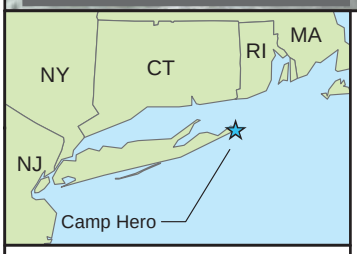
Superintendent (Signature):

Amanda Martin

Daily Photos

No significant photographs were collected on today's date.





MAP LOCATION

N
W
E
S

0 15 30
Feet

1 inch = 35 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Building 203 Phase II LIF Screening Results Field Figure

PROJECT NO.	PREPARED BY:	DATE:
60443903	ACC / AM	12/4/2016

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring / Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW017	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW018	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW019	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW020	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW021	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB07	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB10	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB11	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB14	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB15	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB16	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB19	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB20	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB21	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB23	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB24	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB25	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB26	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB27	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB28	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB29	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB30	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB31	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB32	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB33	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB34	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB35	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB36	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					
		203-SB37	SO Only	AM/MG 11/30/16	Premiere 11/29/16	ML 11/30/16	SG 11/30/16					

Notes
Green highlight indicates item accomlished on the date of today's Daily Report

Camp Hero Phase II Field Checklist

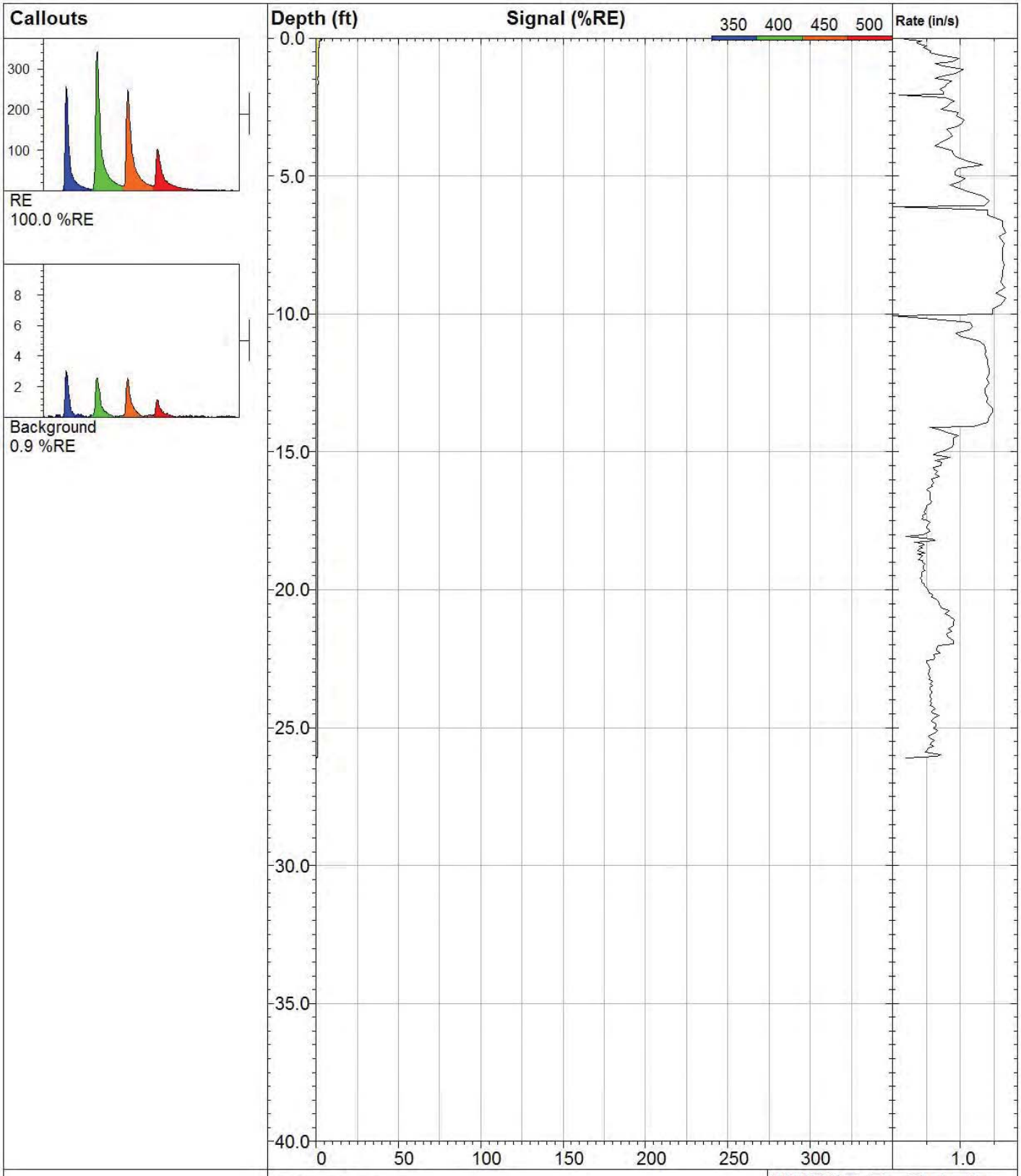
AOC ID	AOC Name	Location ID	Location Type	Flagging	UXO Anomaly Avoidance	Botany Survey	LIF Survey	MIP Survey
LIF MIP Survey Locations								
		A	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		B	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	BMG 12/1/16	NA
		C	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	BMG 12/1/16	NA
		D	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	MG 12/2/16	NA
		E	LIF	AM 12/1/16	ML 12/1/16	SG 11/30/16	MG 12/2/16	NA
		F	NA	NA	NA	SG 11/30/16	*Location eliminated*	
		G	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		H	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		I	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		J	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		K	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		L	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		M	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		N	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		O	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		P	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		PZ-3	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	BMG 11/30/16	NA
		Q	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		R	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 11/30/16	NA
		S	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		T	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		U	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	BMG 12/1/16	NA
		V	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/3/16	NA
		W	LIF	BMG/MG 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/3/16	NA
		X	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	MG 12/3/16	NA
		Y	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	MG 12/3/16	NA
		Z	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	MG 12/3/16	NA
		AA	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	*Location eliminated*	
203	LIF/MIP Survey at Building 203	BB	LIF	MG/AM 11/30/16	ML 11/30/16	SG 11/30/16	*Location eliminated*	
		CC	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		DD	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		EE	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		FF	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		GG	LIF	AM 12/2/16	ML 12/2/16	NA	MG 12/2/16	NA
		HH	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*Location eliminated*	
		II	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*Location eliminated*	
		JJ	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	MG 12/3/16	NA
		KK	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*Location eliminated*	
		LL	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	MG 12/3/16	NA
		MM	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*Location eliminated*	
		NN	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*REFUSAL*	
		OO	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*REFUSAL*	
		PP	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*REFUSAL*	
		QQ	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	MG 12/4/16	NA
		RR	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	MG 12/3/16	NA
		SS	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*REFUSAL*	
		TT	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*REFUSAL*	
		UU	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*Location eliminated*	
		VV	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*Location eliminated*	
		WW	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*REFUSAL*	
		XX	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*Location eliminated*	
		YY	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*REFUSAL*	
		ZZ	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	*REFUSAL*	
		AAA	LIF	AM 12/3/16	ML 12/3/16	SG 12/3/16	MG 12/4/16	
		BBB	LIF	AM 12/4/16	ML12/4/16	SG 12/3/16	*REFUSAL*	
		CCC	LIF	AM 12/4/16	ML12/4/16	SG 12/3/16	MG 12/4/16	NA
		DDD	LIF	AM 12/4/16	ML12/4/16	SG 12/3/16	*Location eliminated*	
		EEE	LIF	AM 12/4/16	ML12/4/16	SG 12/3/16	*Location eliminated*	

Notes

Green highlight indicates item accomlished on the date of today's Daily Report

"Location Eliminated" indicates LIF was not conduced at location because it was judged to be outside plume or there was sufficient delineation in the area

"Refusal" indicated that LIF was not conducted at location because rig encountered refusal approximately 5 ft bgs

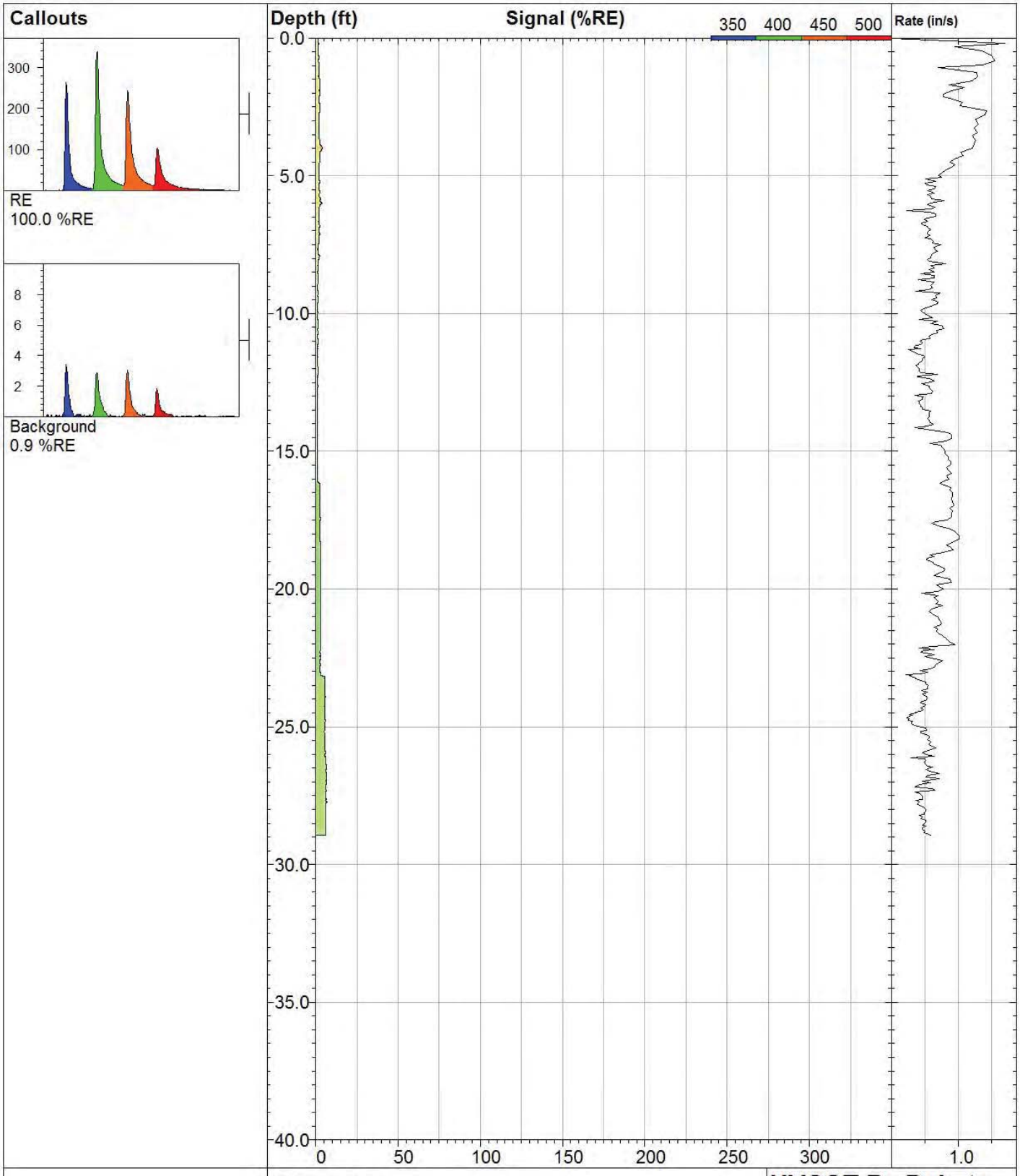


COLUMBIA TECHNOLOGIES

203AAA

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.10 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.7 %RE @ 0.06 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-04 08:30 EST**

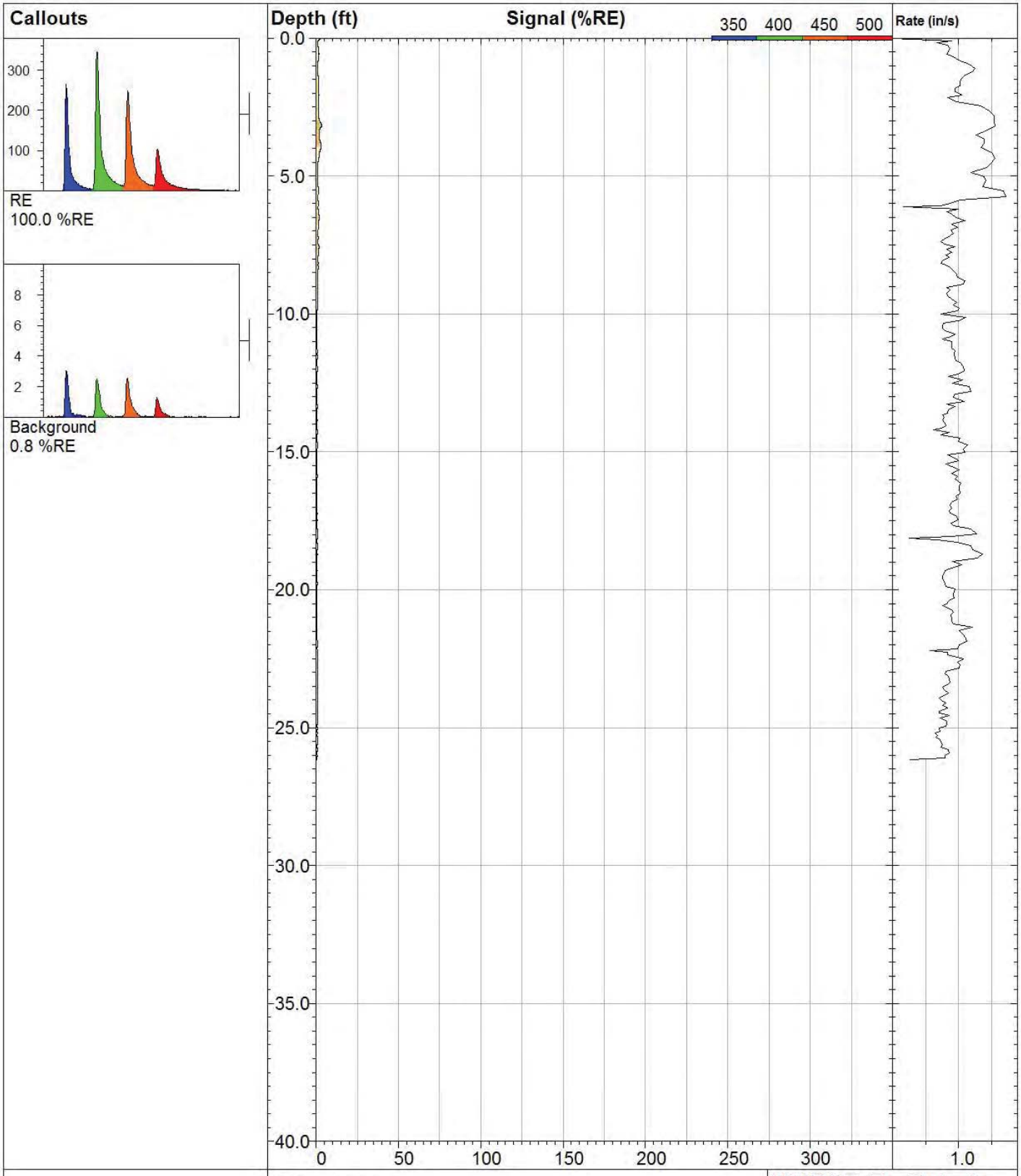


COLUMBIA TECHNOLOGIES

203DD

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **28.95 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.9 %RE @ 27.74 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-04 10:49 EST**

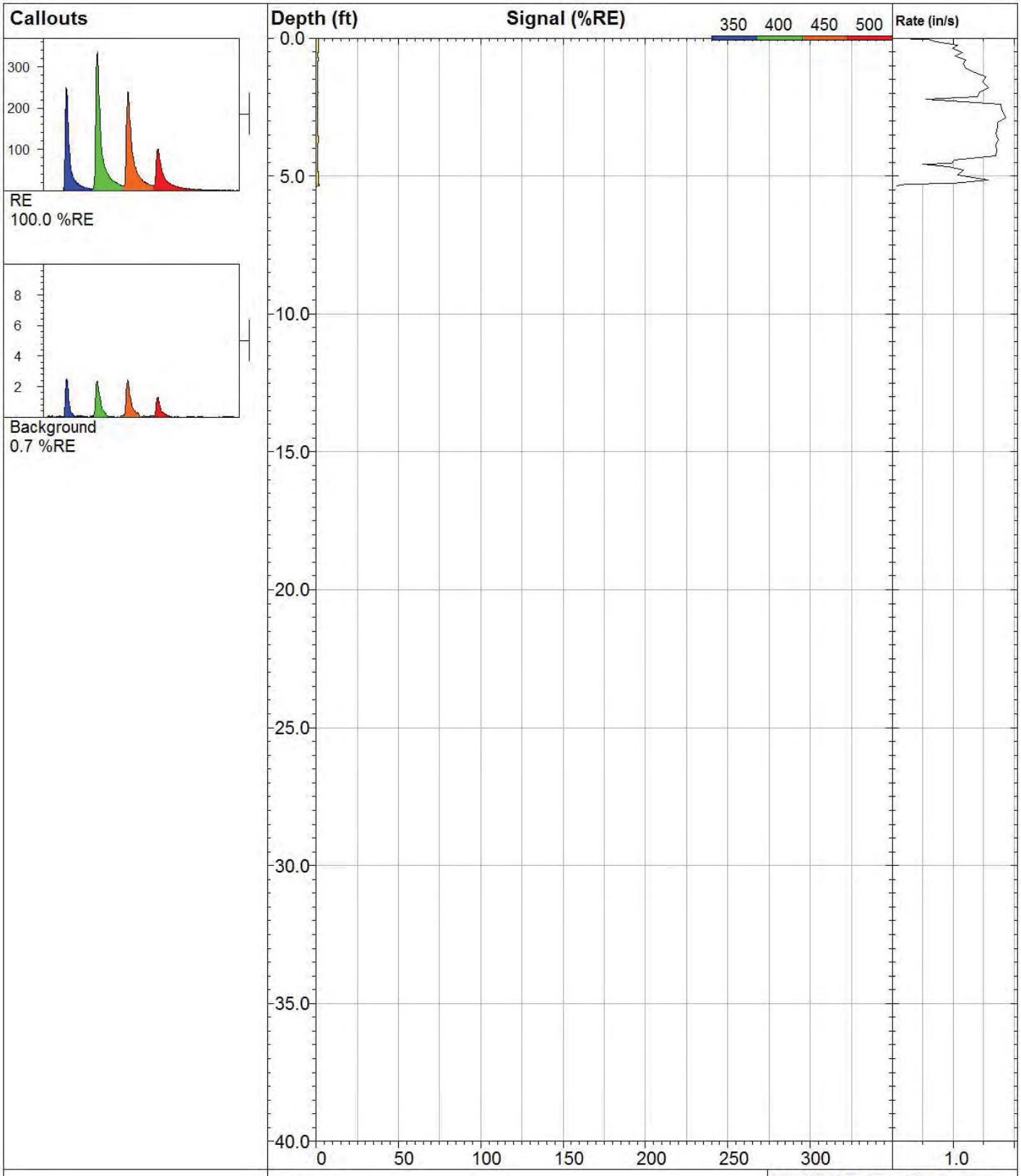


COLUMBIA TECHNOLOGIES

203QQ

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.15 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.7 %RE @ 3.17 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-04 09:52 EST**



COLUMBIA TECHNOLOGIES

203ZZ

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Camp Hero**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.37 ft**
Client / Job: **AECOM / 60443903**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.1 %RE @ 5.36 ft**
Operator / Unit: **J.H. Montgomery / UVOST**	*Elevation:* **Unavailable**	*Date & Time:* **2016-12-04 09:06 EST**

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/5/2016 Monday

DR No. 07	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 45°F AM Rain, PM Clouds	**Days without a lost time injury:** 7		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mark MacEwan	6	Project Manager	AECOM	Fraste XL Sonic Drill Rig (2)	Jeff Baker, TWS
Mike Glinski	10.5	SSHO	AECOM	Shondstadt Magnetometer	
Amanda Martin	10.5	Site Supervisor	AECOM	Solonist Interface Probe	
Brendan McGuinness	10.5	Field Quality Manager	AECOM	Solonist Water Level Meter (3)	
Steve Glenn	0	Botanist	AECOM	YSI 6920 V2 Water Qual. (3)	
Matt Legg	10	UXO Tech II	AECOM	MiniRae 3000 PID (6)	
Andrew Borden	10.5	Geologist	AECOM	Dust Trak II Dust Meter (2)	
John Schroeder	10.5	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Sarah Ault	10.5	Geologist	AECOM	Geotech Baldder Pump (1)	
Jeff Dvorak	10.5	Environmental Scientist	AECOM	ProActive Monsoon Pimp (3)	
Nicole Schulman	0	Environmental Scientist	AECOM	Hand Auger (1)	
Dave Moon	10	Driller	Cascade/ADT		
Tood Laderwager	10	Driller	Cascade/ADT		
Daniel Johnson	10	Driller	Cascade/ADT		
Warren James	10	Driller	Cascade/ADT		
Tony Palomeque	10	Driller	Cascade/ADT		
DAILY TOTAL	139.5				
TOTAL TO DATE	460	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
TWS/Cascade	3000 gal liquid tank, Atlas, good condition
	1000 gal poly tank, Atlas, good condition

WORKED PERFORMED BY AECOM

The AECOM and TWS/Cascade team arrived on site at 0700. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day. UXO Awareness Training was provided by Matt Legg (UXO Technician II). Mark MacEwan (AECOM Project Manager) arrived on-site at 1145 and reviewed all safety information.

Preparation Activities

A. Martin received delivery of two tanks for liquid IDW containerization (a 1000 gal poly tank and a 3000 steel tank). The IDW container was staged on the east side of the Motor Pool building, per permission/previous discussion with Mr. Tom Dess (NY State Parks).

John Schroeder (AECOM, Lead Sampler) organized/inventoried bottleware and groundwater sampling/development supplies and equipment.

Monitoring Well Installation

Four permanent background monitoring wells were installed using Sonic drilling methods:

- CH-MW002 (Rig 1/A. Borden): total depth of 30 ft bgs, screened 15 ft bgs to 30 ft bgs
- CH-MW003 (Rig 1/A. Borden): total depth of 30 ft bgs, screened 15 ft bgs to 30 ft bgs
- CH-MW013 (Rig 2/M. Glinski): total depth of 30 ft bgs, screened 15 ft bgs to 30 ft bgs
- CH-MW014 (Rig 2/M. Glinski): total depth of 30 ft bgs, screened 15 ft bgs to 30 ft bgs

Soil boring logs with USCS soil descriptions and well construction logs were completed for every well and entered into the EDGE software for developing future databasae submittals.

Additionally, Rig #1 began set-up at location CH-MW001, but became immobilized in an area of soil soil. The crew began digging the rig out but halted around dark. Heavier equipment will be used tomorrow to pull the rig out.

Assessment of Well Locations at former Building 203

Brendan McGuinness (AECOM, Technical Lead), Mark MacEwan, and Amanda Martin assesssed the former Building 203 area for permanent well locations, based on results of the LIF investigation, knowledge of groundwater flow in the area, and field conditions. The attached former Building 203 Field Figure shows the updated proprosed permanent monitoring wells locations.

Management Site Visit

Mark MacEwan (AEOCM Project Manager) was on site and performed a Management Site Visit, including verifying adherance to safety and field quality protocols.

The team left the site between 1700 and 1730.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/5/2016 Monday

DR No. 07		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

Cascade/ADT (contracted through TWS) arrived on-site at 0700 and completed the Health and Safety briefing and UXO Anomaly Awareness training. The team staged their supplies (drums, benontite, sand, etc.) and set up their drill rig decontamination pad across the street from the Motor Pool. The team leads assessed locations of 7 wells to assure rig access was available. Inspections of each rig were completed in the morning prior to beginning work.

Each rig/crew completed installation of two background monitoring wells (for a total of four wells completed).

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 17 team members and visitors would be on site (including AECOM, TWS, and Cascade).

REQUEST FOR INFORMATION (RFI) or CONVERSATIONS

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Attachment B).

No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

One member of the ADT Team was observed to not be wearing safety goggles while operating the drill rig; he was reminded to wear safety goggles while operating the drill rig and no futher infractions were observed.

SITE OBSERVATIONS

None

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/5/2016 Monday

DR No. 07		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Daily Photos



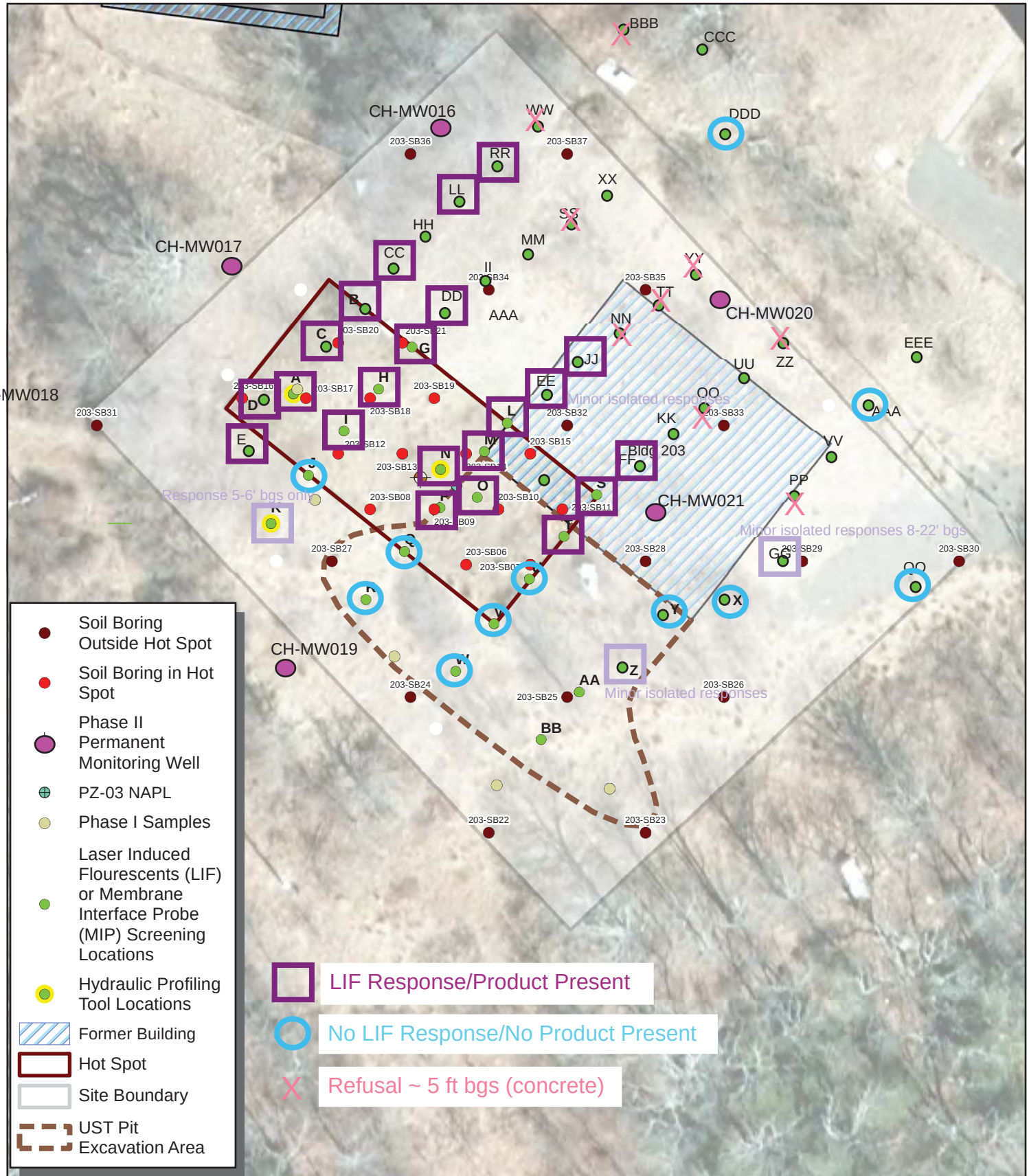
Photo 1. A. Borden (AECOM Geologist) using a PID to screen the soil core from location CH-MW003.



Photo 2. Cascade/ADT using the Fraste XL Sonic Drill Rig to install Background Monitoring Well CH-MW003.



Photo 3. Cascade/ADT using the Fraste XL Sonic Drill Rig to install Background Monitoring Well CH-MW002.





MAP LOCATION

N
W
E
S

0 15 30

Feet

1 inch = 35 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Building 203 Phase II LIF Screening Results Field Figure

PROJECT NO.	PREPARED BY:	DATE:
60443903	ACC / AM	12/5/2016

11/16/2016 1:420 Y:\Projects\Camp_Hero\Maps\Phase II Workplan\Fig 5-1 Bldg 203 Phase II Sampling2.mxd (USCHL1FP002\Data\Library\Gisprojects\)

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring / Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW017	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW018	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW019	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW020	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW021	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16				
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16				
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16				
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16				
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB07	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB10	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB11	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB14	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB15	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB16	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB19	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB20	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB21	SO Only		Premiere 11/29/16		SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB23	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB24	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB25	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB26	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB27	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB28	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB29	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB30	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB31	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB32	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB33	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB34	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB35	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB36	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB37	SO Only		Premiere 11/29/16		SG 11/30/16					

Notes
Green highlight indicates item accomlished on the date of today's Daily Report
Previous flagging for soil boring locations at Building 203 were removed; sampling locations will be re-developed based on revised hotspot

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/6/2016 Tuesday

DR No. 08	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 45°F AM Rain, PM Clouds	**Days without a lost time injury:** 8		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mark MacEwan	7	Project Manager	AECOM	Fraste XL Sonic Drill Rig (2)	Jeff Baker, TWS
Mike Glinski	10.25	SSHO	AECOM	Shondstadt Magnetometer	Jose Suarez, TWS
Amanda Martin	10.25	Site Supervisor	AECOM	Solonist Interface Probe	
Brendan McGuinness	10.25	Field Quality Manager	AECOM	Solonist Water Level Meter (3)	
Steve Glenn	0	Botanist	AECOM	YSI 6920 V2 Water Qual. (3)	
Matt Legg	9.5	UXO Tech II	AECOM	MiniRae 3000 PID (6)	
Andrew Borden	10.25	Geologist	AECOM	Dust Trak II Dust Meter (2)	
John Schroeder	10.25	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Sarah Ault	10.25	Geologist	AECOM	Geotech Baldder Pump (1)	
Jeff Dvorak	10.25	Environmental Scientist	AECOM	ProActive Monsoon Pimp (3)	
Nicole Schulman	0	Environmental Scientist	AECOM	Hand Auger (1)	
Dave Moon	10	Driller	Cascade/ADT		
Tood Laderwager	10	Driller	Cascade/ADT		
Daniel Johnson	10	Driller	Cascade/ADT		
Warren James	10	Driller	Cascade/ADT		
Tony Palomeque	10	Driller	Cascade/ADT		
DAILY TOTAL	138.25				
TOTAL TO DATE	598.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM and TWS/Cascade team arrived on site at 0700. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

Tom Dess and Motor Pool staff assisted with removing the stuck drill rig from the mud in the morning at location CH-MW-001. The NY State Park's front end loader was able to pull the rig from the mud in a few minutes' time. Additionally, the team calibrated all equipment, including PIDs and Dust Traks for CAMP monitoring, PIDs for soil core screening, and water quality meters for well development.

Monitoring Well Installation

Six permanent background monitoring wells were installed using Sonic drilling methods:

- CH-MW001 (Rig 1/A. Borden): total depth of 20 ft bgs, screened 5 to 20 ft bgs
- CH-MW004 (Rig 1/A. Borden): total depth of 32 ft bgs, screened 17 to 32 ft bgs
- CH-MW007 (Rig 1/A. Borden): total depth of 35 ft bgs, screened 20 to 35 ft bgs
- CH-MW015 (Rig 2/M. Glinski): total depth of 40 ft bgs, screened 25 to 40 ft bgs
- CH-MW011 (Rig 2/M. Glinski): total depth of 25 ft bgs, screened 10 to 25 ft bgs
- CH-MW005 (Rig 2/M. Glinski): Logged soil 0 to 30 ft bgs, Will install well tomorrow, likely 15 to 30 ft bgs screen

Soil boring logs with USCS soil descriptions and well construction logs were completed for every well and entered into the EDGE software for developing future databasae submittals.

Monitoring Well Development

The team began monitoring well development after the required 24-hour post-installation period. Two wells were partially developed:

- CH-MW003. Well purged dry after removing 8 gallons. Returned to well a few hours later after developing another well. CH-MW003 had recovered within 2 feet of water and the team purged another 5 gallons before it pumped dry.
- CH-MW002. The team removed 157 gallons of water during development, then had to stop purging because all three drums were full. The team transferred development water from the drums in their truck to the IDW tank staged at the Motor Pool. Additional volume will be removed from this well tomorrow

Between wells, IDW was transferred from drums to the containers staged at the Motor Pool.

Management Site Visit

Mark MacEwan (AECOM Project Manager) was on site and performed a Management Site Visit, including verifying adherance to safety and field quality protocols.

The team left the site between 1630 and 1730.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/6/2016 Tuesday

DR No. 08		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

Cascade/ADT (contracted through TWS) arrived on-site at 0700. A total of five monitoring wells were installed/completed and a sixth well boring was completed, but the team ran out of time to construct the well (CH-MW-005). The last well will be constructed in the morning. Additionally, Cascade/ADT decontaminated both drill rigs between each location and transported drums of soil and liquid IDW produced during well installation to/from the staging area.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- Tom Dess (NY State Parks Superintendent) was notified in the morning that 16 team members and visitors would be on site (including AECOM, TWS, and Cascade).
- Upon inspecting the IDW tank from Atlas, it was noted that a few inches of free product were on the bottom of the tank. Additionally, the roll-off had not been lined. M. MacEwan called Atlas with the concern; Atlas will send a team to the site tomorrow to clean the tank and line the roll-off.
- Due to access issues for well locations at Building 203, the AECOM-TWS-Cascade team assessed the area. The need for a smaller rig was disussed. It was determined that a smaller rig would not be necessary; however, the team would need wetland mats, additional drums, vegetatian removal (and a crew to complete the removal. Additionally, the wells which have been installed were to a greater depth than established in the contract with TWS; a change-order will be necessary to account for the additional materials and additional logistics at Building 203. Jeff Baker (TWS) will work with M. MacEwan to complete change order.
- The lock on the gate behind baseball field was rusted to the point of not opening; Tom Dess gave permission for the team to cut the lock and stated the Parks team would replace the lock. Additionally, Mr. Dess noted that he had seen some drums on the road without cones or flagging earlier in the day. AECOM reminded Cascade/TWS to NEVER leave drums in the road (they should be beside the road) and to always leave cones around the drums.

REQUEST FOR INFORMATION (RFI)

- Cindy Colquitt (USACE Risk Assessor) requested ksv file of the former Building 203 LIF locations. Allison Carr (AECOM GIS Technician) provided the file as requested.
- PJ Mion provided feedback on the propsed former Building 203 well locations and asked about re-delineating the hotspot and soil sample locations. His suggested well relocation was incoroprated into the plan/map. Regarding the of soil borings/unbiased sample points, the AECOM team adjust the "hotspot" to be a fan-shaped area covering the free product determined by LIF. A field mark-up map was provided to the USACE via email. The AECOM team will be subsequently adjusting the locations of soil borings/unbiased sample points via the VSP software and will generate a new figure to share with the USACE for approval prior to beginning soil sampling.

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the drill rig, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

Although working in/near the road, the team was reminded to NEVER leave drums in the road (but rather, beside the road) and to always put cones around the drum area (even when staging temporarily) for the safety of drivers in the park.

SITE OBSERVATIONS

None

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Superintendent (Signature):

Amanda Martin

Daily Photos

No significant photographs were collected on today's date.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring / Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW017	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW018	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW019	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW020	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW021	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS/NS 12/6/16			
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS/NS 12/6/16			
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16					
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16				
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16				
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB07	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB10	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB11	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB14	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB15	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB16	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB19	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB20	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB21	SO Only		Premiere 11/29/16		SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB23	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB24	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB25	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB26	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB27	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB28	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB29	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB30	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB31	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB32	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB33	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB34	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB35	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB36	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB37	SO Only		Premiere 11/29/16		SG 11/30/16					

Notes
Green highlight indicates item completed on the date of today's Daily Report
Orange highlight indicates item started but not completed on the date of today's Daily Report

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/7/2016 Wednesday

DR No. 09	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 45°F AM Rain, PM Clouds	**Days without a lost time injury:** 9		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	10	SSHO	AECOM	Fraste XL Sonic Drill Rig (2)	Jeff Baker, TWS
Amanda Martin	10	Site Supervisor	AECOM	Shondstadt Magnetometer	
Brendan McGuinness	6	Field Quality Manager	AECOM	Solonist Interface Probe	
Steve Glenn	0	Botanist	AECOM	Solonist Water Level Meter (3)	
Matt Legg	10	UXO Tech II	AECOM	YSI 6920 V2 Water Qual. (3)	
Andrew Borden	10	Geologist	AECOM	MiniRae 3000 PID (6)	
John Schroeder	10	Geologist	AECOM	Dust Trak II Dust Meter (2)	
Sarah Ault	10	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Jeff Dvorak	10	Environmental Scientist	AECOM	Geotech Baldder Pump (1)	
Nicole Schulman	0	Environmental Scientist	AECOM	ProActive Monsoon Pimp (3)	
Dave Moon	10	Driller	Cascade/ADT	Hand Auger (1)	
Tood Laderwager	10	Driller	Cascade/ADT		
Daniel Johnson	10	Driller	Cascade/ADT		
Warren James	10	Driller	Cascade/ADT		
Tony Palomeque	10	Driller	Cascade/ADT		
DAILY TOTAL	126				
TOTAL TO DATE	715.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM and TWS/Cascade team arrived on site at 0700. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

Prior to beginning drilling or groundwater development/sampling, the team calibrated all equipment, including PIDs and Dust Traks for CAMP monitoring, PIDs for soil core screening, and water quality meters for well development. Atlas Disposal was on site from 1030 to 1245 to clean the IDW tank and add a liner to the roll-off.

Monitoring Well Installation

Seven permanent background monitoring wells were installed using Sonic drilling methods:

CH-MW009 (Rig 1/A. Borden): boring depth 25 ft bgs, well depth 20 ft bgs, screened 5 to 20 ft bgs
CH-MW010 (Rig 1/A. Borden): boring depth 25 ft bgs, well depth 25 ft bgs, screened 10 to 25 ft bgs
CH-MW012 (Rig 1/A. Borden): boring depth 30 ft bgs, well depth 30 ft bgs, screened 15 to 20 ft bgs
CH-MW005 (Rig 2/M. Glinski): boring depth 31 ft bgs, well depth 30 ft bgs, screened 15 to 30 ft bgs
CH-MW008 (Rig 2/M. Glinski): boring depth 20 ft bgs, well depth 17 ft bgs, screened 7 to 17 ft bgs
CH-MW006 (Rig 2/M. Glinski): boring depth 31 ft bgs, well depth 30 ft bgs, screened 15 to 30 ft bgs
CH-MW021 (Rig 1/A. Borden): boring depth 25 ft bgs, well depth 15 ft bgs,screened 5 to 15 ft bgs. Petroleum impacted soils were noted from 12 to 13 ft bgs and 22 to 23 ft bgs.

Soil boring logs with USCS soil descriptions and well construction logs were completed for every well and entered into the EDGE software for developing future databasae submittals.

Monitoring Well Development

The team began monitoring well development after the required 24-hour post-installation period. Development of two wells was completed and development of an additional two wells was started, as described below:

CH-MW003: Development resumed for second day. Six more cycles of surge, purge dry, and wait for recharge (removing 8 - 10 gal each time). Well is still substantially silty; will return tomorrow for additional development.
CH-MW002: Development resumed for second day and completed.
CH-MW001: Began development. Completed two cycles of surge, purge dry, and wait for recharge; will return tomorrow for additional development.
CH-MW013: Began and completed development.

Between wells, IDW was transferred from drums to the containers staged at the Motor Pool.

The team left the site at 1700.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/7/2016 Wednesday

DR No. 09		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

Cascade/ADT (contracted through TWS) arrived on-site at 0700. A total of five monitoring wells were installed/completed and a sixth well boring was completed, but the team ran out of time to construct the well (CH-MW-005). The last well will be constructed in the morning. Additionally, Cascade/ADT decontaminated both drill rigs between each location and transported drums of soil and liquid IDW produced during well installation to/from the staging area.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- Tom Dess (NY State Parks Superintendent) was notified in the morning that 16 team members and visitors would be on site (including AECOM, TWS, and Cascade).

REQUEST FOR INFORMATION (RFI)

- PJ Mion provided feedback on the propsed former Building 203 well locations and asked about re-delineating the hotspot and soil sample locations. His The AECOM team provided an update Building 203 sampling figure to the USACE, showingn the adjusted "hotspot" and VSP-determined soil sampling locations inside and outside of the hotspot.

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the drill rig, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Superintendent (Signature):

Amanda Martin

Daily Photos

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/7/2016 Wednesday

DR No. 09		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903



Photo 1. M. Glinski, S. Ault (AECOM Geologists) inspecting soil cores from sonic rig.



Photo 2. Downwind CAMP air monitoring.



Photo 3. Petroleum-impacted soils from 12 to 13 ft bgs from well boring CH-MW021 at former Building 203.



Photo 4. A. Borden (AECOM Geologist) working at location CH-MW021 at former Building 203.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring/Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW017	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW018	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW019	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW020	MW (no SO)		Premiere 11/29/16		SG 11/30/16					
		CH-MW021	MW (no SO)		Premiere 11/29/16		SG 11/30/16	AB 12/6/16				
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/7/16			
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16			
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16			
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/7/16			
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16				
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB07	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB10	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB11	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB14	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB15	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB16	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB19	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB20	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB21	SO Only		Premiere 11/29/16		SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB23	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB24	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB25	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB26	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB27	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB28	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB29	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB30	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB31	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB32	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB33	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB34	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB35	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB36	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB37	SO Only		Premiere 11/29/16		SG 11/30/16					

Notes
Green highlight indicates item completed on the date of today's Daily Report
Orange highlight indicates item started but not completed on the date of today's Daily Report

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/8/2016 Thursday

DR No. 10	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 46°F Cloudy	**Days without a lost time injury:** 10		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	10.5	SSHO	AECOM	Fraste XL Sonic Drill Rig (2)	
Amanda Martin	10.5	Site Supervisor	AECOM	Shondstadt Magnetometer	
Brendan McGuinness	10.5	Field Quality Manager	AECOM	Solonist Interface Probe	
Matt Legg	9.5	UXO Tech II	AECOM	Solonist Water Level Meter (3)	
Andrew Borden	10.5	Geologist	AECOM	YSI 6920 V2 Water Qual. (3)	
John Schroeder	10.5	Geologist	AECOM	MiniRae 3000 PID (6)	
Sarah Ault	10.5	Geologist	AECOM	Dust Trak II Dust Meter (2)	
Jeff Dvorak	10.5	Environmental Scientist	AECOM	Geotech Peristaltic Pump (3)	
Nicole Schulman	10	Environmental Scientist	AECOM	Geotech Baldder Pump (1)	
Dave Moon	10.5	Driller	Cascade/ADT	ProActive Monsoon Pimp (3)	
Tood Laderwager	10.5	Driller	Cascade/ADT	Hand Auger (1)	
Daniel Johnson	10.5	Driller	Cascade/ADT		
Warren James	10.5	Driller	Cascade/ADT		
Cameron Morgan	10.5	Vegetation Removal	Cascade/ADT		
Paul Nelson	10,5	Vegetation Removal	Cascade/ADT		
Tony Palomeque	10.5	Driller	Cascade/ADT		
DAILY TOTAL	156				
TOTAL TO DATE	871.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM and TWS/Cascade team arrived on site at 0700. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

Prior to beginning drilling or groundwater development/sampling, the team calibrated all equipment, including PIDs and Dust Traks for CAMP monitoring, PIDs for soil core screening, and water quality meters for well development. Atlas Disposal was on site from 1030 to 1245 to clean the IDW tank and add a liner to the roll-off.

Monitoring Well Installation

Five permanent monitoring wells were installed at former Building 203 using Sonic drilling methods:

CH-MW016 (Rig 1/A. Borden): boring depth 30 ft bgs, well depth 30 ft bgs, screened 15 to 30 ft bgs; petroleum impacts observed from 6 to 18 ft bgs; maximum PID reading 1447 PPM at 8 ft bgs

CH-MW017 (Rig 1/A. Borden): boring depth 30 ft bgs, well depth 30 ft bgs, screened 15 to 30 ft bgs; petroleum impacts observed from 15 to 30 ft bgs; maximum PID reading 440 PPM at 28 ft bgs

CH-MW020 (Rig 1/A. Borden): boring depth 25 ft bgs, well depth 15 ft bgs, screened 5 to 15 ft bgs; petroluem impacts observed from 5 to 15 ft bgs; maximum PID reading 133 PPM at 8 ft bgs

CH-MW018 (Rig 2/M. Glinski): boring depth 21 ft bgs, well depth 20 ft bgs, screened 5 to 20 ft bgs; potential minimal petroleum impacts observed from 3.5 to 4.0 ft bgs

CH-MW019 (Rig 2/M. Glinski): boring depth 20 ft bgs, well depth 17 ft bgs, screened 7 to 17 ft bgs; no petroleum impacts observed

Soil boring logs with USCS soil descriptions and well construction logs were completed for every well and entered into the EDGE software for developing future databasae submittals.

Soil Borings/Soil Sampling

Five soil borings for soil sampling were completed at former Building 203 using Sonic drilling methods. These boring locations were located in areas with previous concrete refusal or logistical/access concerns, so could not be completed next week with the Direct Push rig, like the remaining boring locations.

Soil Borings within "Hotspot"

203-SB19: Boring advanced to 35 ft bgs; petroleum impacts noted throughout to 35 ft bgs

Soil Borings outside "Hotspot"

203-SB33: Boring advanced to 35 ft bgs; no petroleum impacts observed

203-SB35: Boring advanced to 35 ft bgs; petroleum impacts noted throughout to 35 ft bgs

203-SB36 (co-located with CH-MW017): Boring advanced to 30 ft bgs; petroleum impacts observed from 15 to 30 ft bgs

203-SB37: Boring advanced to 35 ft bgs; minimal petroleum impacts observed

Two soil samaples were collected per boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from an interval with elevated PID readings /olfactory indicators of petroleum impacts. All samples were collected for analysis of VOCs, SVOCs/PAHs, and metals (including mercury and hexavalent chromium). Duplicate, Matrix Spike, and Matrix Spike Duplicate samples were collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs. Additionally, an equipment blank was collected off each sonic rig (total of two equipment blanks) for the same analysis suite.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/8/2016 Thursday

DR No. 10		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM

Monitoring Well Development

The team began monitoring well development after the required 24-hour post-installation period. Development of two wells was continued from previous days, development of one well was started but not finished, and development of a fourth well was started and completed:

CH-MW001: Development resumed for the second day. More cycles of surge, purge dry, and wait for recharge.

CH-MW003: Development resumed for the third day. More cucles of surge, purge dry, and wait for recharge; removed 8 - 10 gallons after each recharge.

CH-MW004: Began and completed development.

CH-MW014: Began development. Multiple development cycles were completed; development should be completed tomorrow.

Between wells, IDW was transferred from drums to the containers staged at the Motor Pool.

Sample Management

Soil and groundwater samples collected collected on Thursday 12/8/16 were Quality Control checked, recorded on Chain of Custody records, and packed on ice for storage. Coolers will be picked up by the Eurofins Lancaster courier on Monday 12/12/16 and held on fresh ice by the team until that time. Chain of Custody records will be e-mailed to the Project Chemist(Devon Chicoine) and the Laboratory Project Manager prior to delivery to the laboratory.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Cascade/ADT (contracted through TWS) arrived on-site at 0700. A total of five monitoring wells were installed/completed and three well pads were constructed. Cascade/ADT decontaminated both drill rigs between each location and transported drums of soil and liquid IDW produced during well installation to/from the staging area. The team also completed the necessary vegetation removal at former Building 203, set up/broke down wetland mats for access to location CH-MW018, and removed then recontructed fencing around the radar tower to access location CH-MW016/-017. The team left the site at 1730.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- Tom Dess (NY State Parks Superintendent) was notified in the morning that 16 team members and visitors would be on site (including AECOM, TWS, and Cascade).

- The team needed to temporarily un-hook and roll back a portion of the Radar Tower fence in order for the drill rig to access locations CH-MW016 and CH-MW017, as through the fence was the only access due to the steep grade adjacent to the well locations. The team was able to dig the fence post of out the ground and re-cement it back in place once the work was complete. Megan Cullen/Greg Goepfert (USACE) and Tom Dess (NYS Parks) were notified about the work prior to fence removal; Mr. Dess indicated that it would not be a problem as long as the fence was repaired when the work was

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the drill rig, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Camp Hero Phase II Well Construction Information Table

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/8/2016 Thursday

DR No. 10		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Superintendent (Signature):

Amanda Martin

Daily Photos



Photo 1. Temporarily removing Radar Tower fence for rig access to location CH-MW016 at former Building 203.



Photo 2. Soil boring with the Rotosonic rig at former Building 203 "outside hotspot" location 203-SB35.



Photo 3. S. Ault and M. Glinski (AECOM Geoligsts) PID-screening soils from location 203-SB19.



Photo 4. Petroleum-impacted soils at 8 ft bgs from location CH-MW016 at former Building 203; maximum PID reading 1447 PPM at this depth.

Camp Hero Phase II Well Construction Information

Well ID	AOC	Boring Depth	Bottom of Screen	Top of Screen	Screen Length	Date Installed	Construction
CH-MW001	Background	25	20	5	15	12/6/2016	Stick-Up
CH-MW002	Background	30	30	15	15	12/5/2016	Stick-Up
CH-MW003	Background	30	30	15	15	12/5/2016	Stick-Up
CH-MW004	Background	35	32	17	15	12/6/2016	Stick-Up
CH-MW005	Background	31	30	15	15	12/7/2016	Stick-Up
CH-MW006	Background	31	30	15	15	12/7/2016	Stick-Up
CH-MW007	Background	40	35	20	15	12/6/2016	Flushmount
CH-MW008	Background	20	17	7	10	12/7/2016	Stick-Up
CH-MW009	Background	25	20	5	15	12/7/2016	Stick-Up
CH-MW010	Background	25	25	10	15	12/7/2016	Stick-Up
CH-MW011	Background	27	25	10	15	12/6/2016	Flushmount
CH-MW012	Background	30	30	15	15	12/7/2016	Stick-Up
CH-MW013	Background	31	30	15	15	12/5/2016	Stick-Up
CH-MW014	Background	31	30	15	15	12/5/2016	Flushmount
CH-MW015	Background	40	40	25	15	12/6/2016	Flushmount
CH-MW016	203	30	30	15	15	12/8/2016	Stick-Up
CH-MW017	203	30	30	15	15	12/8/2016	Stick-Up
CH-MW018	203	20	15	5	10	12/8/2016	Stick-Up
CH-MW019	203	21	20	5	15	12/8/2016	Stick-Up
CH-MW020	203	25	25	10	15	12/8/2016	Stick-Up
CH-MW021	203	25	15	5	10	12/7/2016	Stick-Up

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring / Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16				
		CH-MW017	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16				
		CH-MW018	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16				
		CH-MW019	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16				
		CH-MW020	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16				
		CH-MW021	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/6/16				
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS/NS 12/8/16			
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16			
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/8/16			
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/8/16			
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/7/16			
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/8/16			
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB07	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB10	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB11	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB14	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB15	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB16	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB19	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB20	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB21	SO Only		Premiere 11/29/16		SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB23	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB24	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB25	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB26	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB27	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB28	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB29	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB30	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB31	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB32	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB33	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB34	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB35	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB36	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB37	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	

Notes
Green highlight indicates item completed on the date of today's Daily Report
Orange highlight indicates item started but not completed on the date of today's Daily Report

Camp Hero Phase II Well Construction Information

Well ID	AOC	Boring Depth	Bottom of Screen	Top of Screen	Screen Length	Date Installed	Construction
CH-MW001	Background	25	20	5	15	12/6/2016	Stick-Up
CH-MW002	Background	30	30	15	15	12/5/2016	Stick-Up
CH-MW003	Background	30	30	15	15	12/5/2016	Stick-Up
CH-MW004	Background	35	32	17	15	12/6/2016	Stick-Up
CH-MW005	Background	31	30	15	15	12/7/2016	Stick-Up
CH-MW006	Background	31	30	15	15	12/7/2016	Stick-Up
CH-MW007	Background	40	35	20	15	12/6/2016	Flushmount
CH-MW008	Background	20	17	7	10	12/7/2016	Stick-Up
CH-MW009	Background	25	20	5	15	12/7/2016	Stick-Up
CH-MW010	Background	25	25	10	15	12/7/2016	Stick-Up
CH-MW011	Background	27	25	10	15	12/6/2016	Flushmount
CH-MW012	Background	30	30	15	15	12/7/2016	Stick-Up
CH-MW013	Background	31	30	15	15	12/5/2016	Stick-Up
CH-MW014	Background	31	30	15	15	12/5/2016	Flushmount
CH-MW015	Background	40	40	25	15	12/6/2016	Flushmount
CH-MW016	203	30	30	15	15	12/8/2016	Stick-Up
CH-MW017	203	30	30	15	15	12/8/2016	Stick-Up
CH-MW018	203	20	15	5	10	12/8/2016	Stick-Up
CH-MW019	203	21	20	5	15	12/8/2016	Stick-Up
CH-MW020	203	25	25	10	15	12/8/2016	Stick-Up
CH-MW021	203	25	15	5	10	12/7/2016	Stick-Up

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/9/2016 Friday

DR No. 11	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 38°F Cloudy	**Days without a lost time injury:** 11		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	10	SSHO	AECOM	Fraste XL Sonic Drill Rig (2)	
Amanda Martin	10	Site Supervisor	AECOM	Shondstadt Magnetometer	
Brendan McGuinness	8.5	Field Quality Manager	AECOM	Solonist Interface Probe	
Matt Legg	0	UXO Tech II	AECOM	Solonist Water Level Meter (3)	
Andrew Borden	10	Geologist	AECOM	YSI 6920 V2 Water Qual. (3)	
John Schroeder	10	Geologist	AECOM	MiniRae 3000 PID (6)	
Sarah Ault	10	Geologist	AECOM	Dust Trak II Dust Meter (2)	
Jeff Dvorak	10	Environmental Scientist	AECOM	Geotech Peristaltic Pump (3)	
Nicole Schulman	10	Environmental Scientist	AECOM	Geotech Baldder Pump (1)	
Dave Moon	8	Driller	Cascade/ADT	ProActive Monsoon Pimp (3)	
Tood Laderwager	8	Driller	Cascade/ADT	Hand Auger (1)	
Daniel Johnson	8	Driller	Cascade/ADT		
Warren James	6.5	Driller	Cascade/ADT		
Cameron Morgan	8	Vegetation Removal	Cascade/ADT		
Paul Nelson	8	Vegetation Removal	Cascade/ADT		
Tony Palomeque	6.5	Driller	Cascade/ADT		
DAILY TOTAL	131.5				
TOTAL TO DATE	846.75	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM and TWS/Cascade team arrived on site at 0700. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

Prior to beginning drilling or groundwater development/sampling, the team calibrated all equipment, including PIDs and water quality meters.

Driller Oversight

The AECOM team oversaw construction of well pads and stand pipes, site restoration, and other Cascade/ADT activities.

Monitoring Well Development

The team began monitoring well development after the required 24-hour post-installation period. Development of three wells was continued from previous days, development of three wells was started but not completed (due to slow recharge of groundwater in well), and development of one well was started and completed on today's date (for a total of seven wells in the development phase):

CH-MW001: Development resumed for the third day and completed.
CH-MW003: Development resumed for the fourth day and completed.
CH-MW005: Began and completed development.
CH-MW009: Began development; completed multiple development cycles but well still substantially turbid; will resume development tomorrow.
CH-MW010: Began development; completed multiple development cycles but well still substantially turbid; will resume development tomorrow.
CH-MW011: Began development; completed multiple development cycles but well still substantially turbid; will resume development tomorrow.
CH-MW014: Development resumed for the second day and completed. Multiple development cycles were completed.

Between wells, IDW was transferred from drums to the containers staged at the Motor Pool.

Sample Management

Soil samples that were collected on Thursday 12/8/16 were Quality Control checked, recorded on Chain of Custody records, and packed on ice for storage. Coolers will be picked up by the Eurofins Lancaster courier on Monday 12/12/16 and held on fresh ice by the team until that time. Chain of Custody records will be e-mailed to the Project Chemist(Devon Chicoine) and the Laboratory Project Manager prior to delivery to the laboratory.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/9/2016 Friday

DR No. 11		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

Cascade/ADT (contracted through TWS) arrived on-site at 0700. The team constructed the remaining 18 well pads, set the well stand pipes and flushmount vaults, finishing repairing the Radar Tower fence, completed site restoration around newly installed wells, managed IDW, and loaded equipment. The Cascade/ ADT team demobilized from the site between 1330 and 1500.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- Tom Dess (NY State Parks Superintendent) was notified in the morning that 16 team members would be on site (including AECOM and Cascade).
- Tom Dess visited the Building 203 area where the Radar Tower fence had been removed/repaired and indicated that the fence repair was acceptable. Additionally, Mr. Dess had noticed a busted "Battery 112 Trail" sign; it appeared that the sign had been backed into. The AECOM team had not seen anyone damage the sign. Mr. Dess indicated that the Park had additional signs in storage and that his personnel would replace it.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None. Air monitoring was not conducted today because no intrusive activities were performed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/9/2016 Friday

DR No. 11		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Superintendent (Signature):

Amanda Martin

Daily Photos



Photo 1. Damaged "Battery 112 Trail" sign, as described above.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring/Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16				
		CH-MW017	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16				
		CH-MW018	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16				
		CH-MW019	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16				
		CH-MW020	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16				
		CH-MW021	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/6/16				
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS/NS 12/9/16			
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16			
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/9/16			
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/8/16			
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	JS 12/9/16			
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/9/16			
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	NS 12/9/16			
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/9/16			
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16				
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/7/16			
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/9/16			
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16				
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB07	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB08	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB10	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB11	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB12	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB14	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB15	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB16	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB17	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB19	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB20	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB21	SO Only		Premiere 11/29/16		SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB23	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB24	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB25	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB26	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB27	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB28	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB29	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB30	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB31	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB32	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB33	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB34	SO Only		Premiere 11/29/16		SG 11/30/16					
		203-SB35	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB36	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB37	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	

Notes
Green highlight indicates item completed on the date of today's Daily Report
Orange highlight indicates item in progress on the date of today's Daily Report but not completed

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/10/2016 Saturday

DR No. 12		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: H 34°F	Partly Cloudy, Cold	**Days without a lost time injury:** 12	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	9	SSHO	AECOM	Solonist Interface Probe	
Amanda Martin	9	Site Supervisor	AECOM	Solonist Water Level Meter (3)	
Matt Legg	0	UXO Tech II	AECOM	MiniRae 3000 PID (6)	
Andrew Borden	9	Geologist	AECOM	Dust Trak II Dust Meter (2)	
John Schroeder	9	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Sarah Ault	9	Geologist	AECOM	Geotech Baldder Pump (1)	
Jeff Dvorak	9	Environmental Scientist	AECOM	ProActive Monsoon Pimp (6)	
Nicole Schulman	8.5	Environmental Scientist	AECOM	Hand Auger (1)	
DAILY TOTAL	62.5				
TOTAL TO DATE	909.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM and TWS/Cascade team arrived on site at 0800. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

Prior to groundwater development/sampling, the team calibrated all equipment, including PIDs and water quality meters. Additionally, the new soil boring/sampling locations at former Building 203 "inside hotspot" and "outside hotspot" were flagged.

Monitoring Well Construction

AECOM used a metal stencil to etch names of monitoring wells into each well pad monument. Five well names were completed; the cement in the remaining well pads had not yet sufficiently set to use the stencil set and will be labeled at a later date.

Monitoring Well Gauging for Free Product at former Building 203

The six newly-installed monitoring wells at former Building 203 were gauged with an interface probe to check for the presence of free product. Free product was detected in location CH-MW017 from 25.0 to 25.5 ft bgs (0.5 ft thickness). A bail-down test will be conducted at this location and PZ-3 tomorrow.

Monitoring Well Development

The team continued development of monitoring wells, as described below:

CH-MW006: Began development; completed multiple development cycles but well still substantially turbid; will resume development tomorrow.
CH-MW007: Began development; completed multiple development cycles but well not producing much water; will resume development tomorrow.
CH-MW008: Began development; removed 1 gallon after first surge/purge cycle; no recharge the rest of the day. May be a dry well.
CH-MW009: Resumed development for the second day; development completed and stabilization parameters completed.
CH-MW010: Resumed development for the second day; development completed and stabilization parameters completed.
CH-MW011: Resumed development for second day; completed multiple development cycles but well still substantially turbid; will resume development tomorrow; well not producing efficiently (2 gallons obtained in 3 development cycles).
CH-MW012: Resumed development for the second day; development completed and stabilzation parameters collected.
CH-MW015: Began development; completed multiple development cycles but well still substantially turbid; will resume development tomorrow.
CH-MW018: Began development; completed multiple development cycles
CH-MW019: Began development; completed multiple development cycles but development not yet complete; will resume tomorrow. well not producing efficiently (2 gallons obtained in 3 development cycles).

Between wells, IDW was transferred from drums to the containers staged at the Motor Pool.

Sample Management

Ice in coolers of soil samples that were collected on Thursday 12/8/16 was refreshed. Samples were held over the weekend until courtier pickup on Monday 12/12/16.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/10/2016 Saturday

DR No. 12		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

No subcontractors were present on site on 12/10/16.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 7 team members would be on site.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None. Air monitoring was not conducted today because no intrusive activities were performed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Superintendent (Signature):

Amanda Martin

Daily Photos

No photos were collected on today's date.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring/Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16				
		CH-MW017	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16				
		CH-MW018	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	JS 12/10/16			
		CH-MW019	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	MG 12/10/16			
		CH-MW020	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16				
		CH-MW021	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/6/16				
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS/NS 12/9/16			
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16			
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/9/16			
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/8/16			
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	JS 12/9/16			
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	AB 12/10/16			
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/10/16			
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	AB 12/10/16			
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/10/16			
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	NS 12/10/16			
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/9/16			
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/10/16			
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/7/16			
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/9/16			
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/10/16			
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB07	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB08	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB10	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB11	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB12	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB14	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB15	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB16	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB17	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB19	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB20	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB21	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB23	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB24	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB25	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB26	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB27	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB28	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB29	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB30	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB31	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB32	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB33	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB34	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB35	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB36	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB37	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	

Notes
Green highlight indicates item completed on the date of today's Daily Report
Orange highlight indicates item in progress on the date of today's Daily Report but not completed

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/11/2016 Sunday

DR No. 13		**WRITTEN BY**: Amanda Martin			**PROJECT NUMBER**: 60443903
Weather: H 34°F	Partly Cloudy, Cold	**Days without a lost time injury:**	13		

NAME:	**HRS**	**TRADE:**	**COMPANY:**	**EQUIPMENT:**	**VISITORS/AFFILIATION:**
Mike Glinski	10	SSHO	AECOM	Solonist Interface Probe	
Amanda Martin	10	Site Supervisor	AECOM	Solonist Water Level Meter (3)	
Matt Legg	0	UXO Tech II	AECOM	MiniRae 3000 PID (6)	
Andrew Borden	10	Geologist	AECOM	Dust Trak II Dust Meter (2)	
John Schroeder	10	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Sarah Ault	10	Geologist	AECOM	Geotech Baldder Pump (1)	
Jeff Dvorak	10	Environmental Scientist	AECOM	ProActive Monsoon Pimp (6)	
Nicole Schulman	7	Environmental Scientist	AECOM	Hand Auger (1)	
DAILY TOTAL	67				
TOTAL TO DATE	976.25	*(on-site hours only)*			

SUBCONTRACTORS:	**SITE DELIVERIES (indicate size, type, and condition):**
None	None

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0800. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

Prior to groundwater development/sampling, the team calibrated all equipment, including PIDs and water quality meters.

Monitoring Well Construction

AECOM used a metal stencil to etch names of monitoring wells into each well pad monument. Six additional well names were completed (for a total of eleven completed). The remaining well names will be completed later in the week.

Monitoring Well Gauging and Baildown Tests of Free Product at former Building 203

The six newly-installed monitoring wells at former Building 203 were gauged with an interface probe to check for the presence of free product. Free product was detected in location CH-MW017 from 25.54 to 27.52 ft bgs (1.98 ft thickness) and PZ-03 from 10.69 to 19.50 ft bgs (8.81 ft thickness). Free product was not detected in the other wells at former Building 203.

Baildown tests were conducted at locations CH-MW017 and PZ-03. The test was conducted by removing oil from a test well and borehole with a pump and measuring the recovery rate. The recovery data, along with the volume of oil removed, can be used to estimate the oil transmissivity and recoverability. The test was conducted as follows:

1. The following parameters were measured and recorded: the time, the static depth to oil, the static depth to water, and record the well casing diameter.

2. The volume of oil existing within the borehole and within the casing was calculated.

3. All of the oil that exists within the well casing and borehole was removed using a peristaltic pup with disposable tubing, while minimizing the groundwater recovered. The start and finish time of oil removal. The total volume of oil and water removed was recorded.

4. A measurement for the change in oil thickness was/will be recorded at the following frequency, per the AECOM bail-down test SOP: First elapsed 10 minutes of test: every 1 minute (10 measurements); 10 to 20 minutes: every 2 minutes (5 measurements); 20 minutes to 40 minutes: every 5 minutes (4 measurements); 40 minutes to 2 hours: every 10 minutes (8 measurements); 2 hours to 4 hours: every 30 minutes (4 measurements); 4 hours till end of first day every 1 hour; Second day 2 to 3 times; 1 measurement per day, the oil thickness has stabilized

At the end of the day (6 hrs post product removal), 0.18 ft of product (22.66 to 22.84 ft bgs) was measured in PZ-03 and 0.82 ft of product (26.28 to 27.10 ft bgs) was measured in CH-MW017. It is expected that the product will enter CH-MW017 (a 2-in well with 2-in sand annulus) more quickly than PZ-03 (a 1-in temporary piezometer with no sand annulus). Measurements will be collected throughout the week to finalize the bail-down test results.

Monitoring Well Development

The team continued development of monitoring wells, as described below:

CH-MW006: Resumed development for second day; completed multiple development cycles and finalized development/collected stabilizaation parameters.

CH-MW007*: Resumed development for the second day; well dry after removing ~ 0.25 gal - minimal development could be completed and insufficient water to collect stabilization parameters. Well considered developed as best possible.

CH-MW008*: Resumed development for the second day; well dry after removing ~ 0.25 gal - minimal development could be completed and insufficient water to collect stabilization parameters. Well considered developed as best possible.

CH-MW011*: Resumed development for the second day; well dry after removing ~ 0.25 gal - minimal development could be completed and insufficient water to collect stabilization parameters. Well considered developed as best possible.

CH-MW015: Resumed development for second day; completed multiple development cycles and finalized development/collected stabilization parameters.

CH-MW016: Began development and completed multiple development cycles; stabilization parameters will be collected tomorrow and well development will be finalized.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/11/2016 Sunday

DR No. 13		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (Continued)

CH-MW018: Resumed development for second day; completed multiple development cycles; stabilization parameters will be collected tomorrow and well development will be finalized.

CH-MW019: Resumed development for seond day; completed multiple development cycles but well not producing efficiently (2 gallons obtained in 3 development cycles). Considered to be developed as best possible; stabilization parameters will be collected tomorrow.

CH-MW020: Began development and completed multiple development cycles; stabilization parameters will be collected tomorrow and well development will be finalized.

CH-MW021*: Began development and completed multiple development cycles; well producing very little water (0.25 gal per cycle); considered to be developed as best possible; in sufficient water to collect stabilization parameters.

CH-MW022 (existing deep well in parking lot behind Building 22/Barracks): Development began and finalized; stabilization parameters collected.

* For starred wells above (CH-MW007, -008, -011, and -021), recharge is insufficient in wells to complete stabilzation parameters during development and will likely be insufficient to low-flow sample. Grab samples can be collected in lieu of low-flow samples, if sufficient water is present. The AECOM team will discuss with USACE prior to sample collection.

Groundwater Sample Collection

Groundwater samples were collected at the following wells:

CH-MW002: Metals (dissolved/total) and Hexavalent Chromium (dissolved and total). A duplicate and MS/MSD sample were also collected at this location.

Duplicate, Matrix Spike, and Matrix Spike Duplicate samples will be collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs overall.

Sample Management

Groundwater samples collected collected on Sunday 12/11/16 were Quality Control checked, recorded on Chain of Custody records, and packed on ice for storage. Additionally, ice in coolers of samples that were collected on Thursday 12/8/16 was refreshed. Coolers will be picked up by the Eurofins Lancaster courier on Monday 12/12/16 and held on fresh ice by the team until that time. Chain of Custody records will be e-mailed to the Project Chemist(Devon Chicoine) and the Laboratory Project Manager prior to delivery to the laboratory.

WORK COMPLETED BY AECOM SUBCONTRACTORS

No subcontractors were present on site.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 7 team members would be on site. Additionally, a group of 10 teenagers was caught by the AECOM team inside the Radar Tower building, attempting to climb to the top of the tower. The AECOM team did not enter the Radar Tower after the group, but called out to them from the entryway (hole in wall) to safely exit the building as quickly as possible and leave the off-limits, gated area or otherwise the Parks Superintendent could press charges for tresspassing. Tom Dess was notified about the indicident immediately and sent a parks staff member to assess the situation.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None. Air monitoring was not conducted today because no intrusive activities were performed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/11/2016 Sunday

DR No. 13		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Superintendent (Signature):

Amanda Martin

Daily Photos



Photo 1. Free product (likely weathered diesel) removed from PZ-03 during bail-down test (top layer); bottom layer is silty water mixed with product.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring/Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	AB 12/11/16			
		CH-MW017	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	NA PRODUCT	NA PRODUCT		NA PRODUCT
		CH-MW018	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	NS/MG 12/11/16			
		CH-MW019	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	MG 12/11/16			
		CH-MW020	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	AB 12/11/16			
		CH-MW021	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/6/16	MG 12/11/16			
NA	Existing Well at B22	CH-MW022	MW (no SO)	NA	NA	NA	NA	NA	JS 12/11/16			
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS/NS 12/9/16			
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16			
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/9/16			
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/8/16			
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	JS 12/9/16			
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	AB 12/11/16			
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16			
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16			
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16			
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	NS 12/10/16			
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/12/16			
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/10/16			
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/7/16			
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/9/16			
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16			
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB07	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB08	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB09	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB10	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB11	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB12	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB13	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB14	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB15	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB16	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB17	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB18	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB19	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB20	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB21	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB23	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB24	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB25	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB26	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB27	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB28	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB29	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB30	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB31	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB32	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB33	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB34	SO Only	AM 12/10/16	Premiere 11/29/16		SG 11/30/16					
		203-SB35	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB36	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB37	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	

Notes

Green highlight indicates item completed on the date of today's Daily Report

Orange highlight indicates item in progress on the date of today's Daily Report but not completed

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/12/2016 Monday

DR No. 14		**WRITTEN BY**: Amanda Martin			**PROJECT NUMBER**: 60443903
Weather: H 54°F	Rain	**Days without a lost time injury:**		14	
NAME:	**HRS**	**TRADE:**	**COMPANY:**	**EQUIPMENT:**	**VISITORS/AFFILIATION:**
Mike Glinski	10	SSHO	AECOM	Solonist Interface Probe	
Amanda Martin	10	Site Supervisor	AECOM	Solonist Water Level Meter (3)	
Matt Legg	9.5	UXO Tech II	AECOM	MiniRae 3000 PID (6)	
Andrew Borden	10	Geologist	AECOM	Dust Trak II Dust Meter (2)	
John Schroeder	10	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Sarah Ault	10	Geologist	AECOM	Geotech Baldder Pump (1)	
Jeff Dvorak	11	Environmental Scientist	AECOM	ProActive Monsoon Pimp (6)	
Nicole Schulman	9.5	Environmental Scientist	AECOM	Hand Auger (1)	
Jose Martin	10	Driller	Cascade	Direct Push Drill Rig	
Luke Caballero	10	Driller	Cascade		
DAILY TOTAL	100				
TOTAL TO DATE	1076.25	*(on-site hours only)*			

SUBCONTRACTORS:	**SITE DELIVERIES (indicate size, type, and condition):**
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and the Cascade/TWS team arrived at 0750. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

Prior to groundwater development/sampling, the team calibrated all equipment, including CAMP equipment, PIDs and water quality meters. Additionally, Matt Legg conducted UXO anomaly avoidance at the locations flagged on 12/11/16.

Monitoring Well Gauging and Baildown Tests of Free Product at former Building 203

Baildown tests were continued from 12/11/16 at locations CH-MW017 and PZ-03. At the end of the day (28 hrs post product removal), 0.19 ft of product (14.12 to 14.31 ft bgs) was measured in PZ-03 and 1.84 ft of product (25.34 to 27.18 ft bgs) was measured in CH-MW017. Select gauging results from the baildown test are shown below.

CH-MW017				**PZ-03**			
Elapsed Time	***DTP***	***DTW***	***Thickness***	***Elapsed Time***	***DTP***	***DTW***	***Thickness***
(min)	***(ft btoc)***	***(ft btoc)***	***(ft)***	***(min)***	***(ft btoc)***	***(ft btoc)***	***(ft)***
Pre-Purge	25.54	27.52	1.98	Pre-purge	10.69	19.5	8.81
0	NA	27.32	0	0	NA	24.2	0
10	26.87	27.09	0.22	70	24.7	24.71	0.01
30	26.77	27.06	0.29	80	24.64	24.73	0.09
60	26.66	27.06	0.4	90	24.57	24.74	0.17
150	26.43	27.06	0.63	240	22.66	22.84	0.18
240	26.28	27.1	0.82	1200	16.32	16.52	0.2
1205	25.53	27.1	1.57	1530	14.63	14.82	0.19
1530	25.38	27.11	1.73	1700	14.12	14.31	0.19
1697	25.34	27.18	1.84				

Monitoring Well Development

The team continued development of monitoring wells, as described below:

CH-MW016: Finalized well development and collected stabilization parameters.

CH-MW018: Finalized well development and collected stabilization parameters.

CH-MW019: Resumed development for third day; attempted to collect stabilization parameters but well went dry prior to stabilization. Well considered to be developed as best possible.

CH-MW020: Finalized well development and collected stabilization parameters.

Groundwater Sample Collection

Groundwater samples were collected at the following wells:

CH-MW013 (Background): Samples collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).

CH-MW014 (Background): Samples collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).

Duplicate, Matrix Spike, and Matrix Spike Duplicate samples will be collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs overall.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/12/2016 Monday

DR No. 14		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (Continued)

Soil Boring and Sampling

Thirteen soil borings for soil sampling were completed at former Building 203 using direct push drilling methods:

Soil Borings within "Hotspot"

203-SB21 Boring advanced to 35 ft bgs; petroleum impacts noted 10 to 35 ft bgs; maximum PID reading 100 PPM at 20 ft bgs

Soil Borings outside "Hotspot"

203-SB22 Boring advanced to 10 ft bgs; no petroleum impacts noted

203-SB23 Boring advanced to 10 ft bgs; no petroleum impacts noted

203-SB24 Boring advanced to 10 ft bgs; no petroleum impacts noted

203-SB25 Boring advanced to 10 ft bgs; no petroleum impacts noted

203-SB26 Boring advanced to 10 ft bgs; potential creosote-treated wood (based on odor) around 2.5 ft bgs; minimal petroleum impacts noted 9 to 10 ft bgs

203-SB27 Boring advanced to 10 ft bgs; petroleum impacts noted 3 to 5 ft bgs; peak PID reading of of 37.5 PPM in that interval

203-SB28 Boring advanced to 10 ft bgs; petroleum impacts noted 8 to 10 ft bgs; peak PID reading of 72.8 PPM in that interval

203-SB29 Boring advanced to 10 ft bgs; petroleum impacts noted 6 to 10 ft bgs; peak PID reading of 22.7 PPM in that interval

203-SB30 Boring advanced to 10 ft bgs; petroleum impacts noted 9 to 10 ft bgs

203-SB31 Boring advanced to 10 ft bgs; no petroleum impacts noted

203-SB32 Boring advanced to 10 ft bgs; minimal petroleum impact noted from 7 to 10 ft bgs

203-SB34 Boring advanced to 10 ft bgs; no petroleum impacts noted

Two soil samaples were collected per boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from an interval with elevated PID readings /olfactory indicators of petroleum impacts. If no PID/olfactory impacts were noted, the subsurface soil sample was collected from the bottom of the boring. All samples were collected for analysis of VOCs, SVOCs/PAHs, and metals (including mercury and hexavalent chromium). Duplicate, Matrix Spike, and Matrix Spike Duplicate samples were collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs.

Sample Management

The three coolers held over the weekend including samples from 12/08/16 through 12/11/16 were picked up by the Eurofins Lancaster courier at 0800; custody was signed over to the courier at that time. Chain of Custody records were e-mailed to the Project Chemist (Devon Chicoine) and the Laboratory Project Manager after pick-up.

Soil and groundwater samples that collected on Monday 12/12/16 were Quality Control checked, recorded on Chain of Custody records, and packed on ice for storage. The next Eurofins Lancaster courier pick-up will be on Wednesday 12/12/16; samples will be held on fresh ice until that time.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Cascade completed 12 borings to 10 ft bgs and 1 boring to 35 ft bgs (total of 13 borings).

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- Tom Dess (NY State Parks Superintendent) was notified in the morning that 7 team members would be on site.
- Additionally, Mr. Dess was notified that the team found a downed power line (not live) between the Radar Tower and Building 107 (Electrical Substation).
- Nick Acampora (NYSDEC) called Amanda Martin (AECOM Site Supervisor) for an update on the well installations at former Building 203. Ms. Martin indicated that six 2-inch wells were installed around the estimated perimeter of the free product area based on LIF results (ie, "hotspot") and that free product had been detected in one of the six wells, CH-MW017. She additionally indicated that a bail-down test had been conducted over the past two days and provided results of the test, as described above. An updated figure of the well locations was provided to Mr. Acampora after the call.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the drill rig, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/12/2016 Monday

DR No. 14		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

Slips, trips and fall were a concern on this date due to heavy rainfall overnight and in the morning; the former Building 203 area was particularly muddy. The team used plywood boards to avoid vehicles and the drill rig becoming stuck in the mud and did not take vehicles off-road unless they were four-wheel drive.

SITE OBSERVATIONS

None

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Superintendent (Signature):

Amanda Martin

Daily Photos

No significant photos were collected today.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring/Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	NS 12/12/16			
		CH-MW017	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	NA PRODUCT	NA PRODUCT		NA PRODUCT
		CH-MW018	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	NS 12/12/16			
		CH-MW019	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	MG 12/12/16			
		CH-MW020	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	AB 12/12/16			
		CH-MW021	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/6/16	MG 12/11/16			
NA	Existing Well at B22	CH-MW022	MW (no SO)	NA	NA	NA	NA	NA	JS 12/11/16			
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS/NS 12/9/16			
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16	SA 12/11/16		
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/9/16			
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/8/16			
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	JS 12/9/16			
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	AB 12/11/16			
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16			
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16			
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16			
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	NS 12/10/16			
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/12/16			
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/10/16			
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/7/16	JS 12/12/16		
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/9/16	JS 12/12/16		
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16			
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB07	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB08	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB09	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB10	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB11	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB12	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB13	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB14	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB15	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB16	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB17	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB18	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB19	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB20	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB21	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB23	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB24	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB25	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB26	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB27	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB28	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB29	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB30	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB31	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB32	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB33	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB34	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB35	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB36	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB37	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	

Notes
Green highlight indicates item completed on the date of today's Daily Report
Orange highlight indicates item in progress on the date of today's Daily Report but not completed

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/13/2016 Tuesday

DR No. 15	**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903
Weather: H 45°F Mostly Sunny	**Days without a lost time injury:** 15		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	10.5	SSHO	AECOM	Solonist Interface Probe	PJ Mion, USACE
Amanda Martin	10.5	Site Supervisor	AECOM	Solonist Water Level Meter (3)	
Matt Legg	9.5	UXO Tech II	AECOM	MiniRae 3000 PID (6)	
Andrew Borden	10.5	Geologist	AECOM	Dust Trak II Dust Meter (2)	
John Schroeder	10.5	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Sarah Ault	10.5	Geologist	AECOM	Geotech Baldder Pump (1)	
Jeff Dvorak	10.5	Environmental Scientist	AECOM	ProActive Monsoon Pimp (6)	
Nicole Schulman	9.5	Environmental Scientist	AECOM	Hand Auger (1)	
Jose Martin	10	Driller	Cascade	Direct Push Drill Rig	
Luke Caballero	10	Driller	Cascade		
DAILY TOTAL	102				
TOTAL TO DATE	1178.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM and TWS/Cascade team arrived on site at 0700 . The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.PJ Mion (USACE) arrived onsite at 1430.

Preparation Activities

Prior to groundwater development/sampling, the team calibrated all equipment, including CAMP equipment, PIDs and water quality meters.

Monitoring Well Completion

AECOM used a metal stencil to etch names of the remaining monitoring wells into each well pad monument. All monitoring wells are properly labeled at this point.

Monitoring Well Gauging and Baildown Tests of Free Product at former Building 203

Baildown tests were continued from 12/11/16 at locations CH-MW017 and PZ-03. Approximately 48 hours post product removal, 0.18 ft of product (12.66 to 12.84 ft bgs) was measured in PZ-03 and 2.10 ft of product (25.55 to 27.65 ft bgs) was measured in CH-MW017.

Groundwater Sample Collection

Groundwater samples were collected at the following wells:

CH-MW001 (Background): Samples collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).
CH-MW003 (Background): Samples collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).
CH-MW004 (Background): Samples collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).
CH-MW005 (Background): Samples collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).
CH-MW009 (Background): Samples collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).
CH-MW010 (Background): Samples collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).
CH-MW012 (Background): Samples collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).

Duplicate, Matrix Spike, and Matrix Spike Duplicate samples will be collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs overall.

Soil Boring and Sampling

Six soil borings for soil sampling were completed at former Building 203 using direct push drilling methods:

Soil Borings within "Hotspot"

203-SB09 Boring advanced to 35 ft bgs; petroleum impacts noted 19 to 32 ft bgs; maximum PID reading 60.8 PPM at 25 ft bgs
203-SB10 Boring advanced to 35 ft bgs; petroleum impacts noted 13 to 30 ft bgs; maximum PID reading 98.3 PPM at 19 ft bgs
203-SB14 Boring advanced to 35 ft bgs; petroleum impacts noted sporadically 19 to 27 ft bgs; maximum PID reading 114 PPM at 22 ft bgs
203-SB15 Boring advanced to 36 ft bgs; petroleum impacts noted 7 to 35 ft bgs; NAPL present 30 to 35 ft bgs (see photo below)
203-SB18 Boring advanced to 35 ft bgs; petroleum impacts noted 17 to 34 ft bgs; maximum PID reading 108 PPM at 23 ft bgs
203-SB20 Boring advanced to 28 ft bgs (encountered refusal); petroleum impacts noted 17 to 28 ft bgs; maximum PID reading 110 at 24 ft bgs

Two soil samaples were collected per boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from an interval with elevated PID readings /olfactory indicators of petroleum impacts. If no PID/olfactory impacts were noted, the subsurface soil sample was collected from the bottom of the boring. All samples were collected for analysis of VOCs, SVOCs/PAHs, and metals (including mercury and hexavalent chromium). Duplicate, Matrix Spike, and Matrix Spike Duplicate samples were collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/13/2016 Tuesday

DR No. 15		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (Continued)

Sample Management

Soil and groundwater samples collected on Tuesday 12/13/16 were Quality Control checked, recorded on Chain of Custody records, and packed on ice for storage. The next Eurofins Lancaster courier pick-up will be on Wednesday 12/14/16; samples will be held on fresh ice until that time.

The Eurofins Labcaster Project Manager provided verbal confirmation that the samples transported by courier to the lab on Monday 12/12/16 arrived on Tuesday 12/13/16 within the acceptable temperature range and without any bottleware breakage. The Laboratory Project Manager will provide written confirmation of sample receipt tomorrow.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Cascade completed 6 borings to depths of 35 to 40 ft bgs.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- Tom Dess (NY State Parks Superintendent) was notified in the morning that 10 team members would be on site, including USACE and subcontractors. Additionally, Mr. Dess indicated that AECOM has permission from NYS Parks to leave the Conex Box (Staging Area) on site until the Phase III event in April 2017
- Because petroleum impacts were detected at depth in "outside hotspot" locations 203-SB28 and -SB29, and deeper petroleum impacts are suspected at 203-SB34 (due to proximity to CH-MW017, which has free product in well), a few team members discussed returning to these locations advancing the borings to greater depths to attempt to delineate the vertical distribution of the contamination. These borings were origionally advanced to 10 ft bgs since they were suspected to be outside the "hotspot" during preparation of the Work Plan, but field results indicate deeper petroleum impacts are suspected. The recommendation of the discussion was to advance those locations until clean soil is encountered. This idea will be discussed with the USACE technical team tomorrow.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the drill rig, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/13/2016 Tuesday

DR No. 15		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Daily Photos

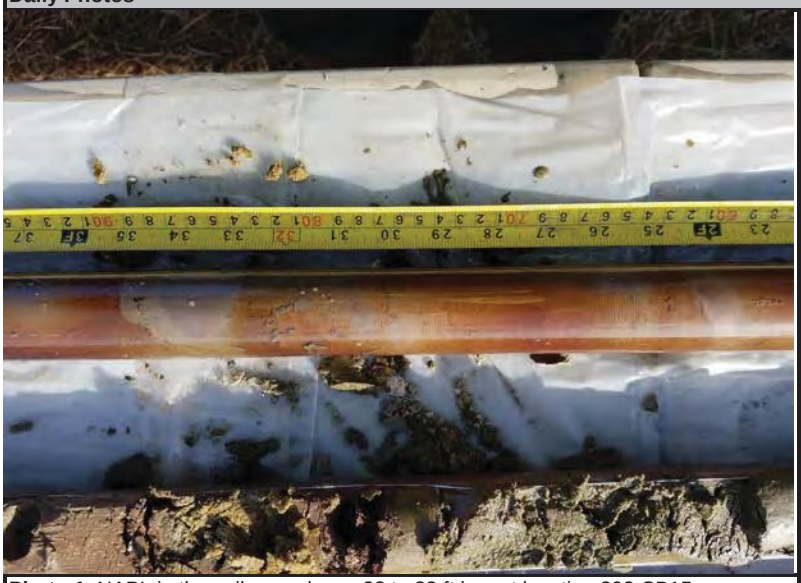


Photo 1. NAPL in the soil core sleeve 32 to 33 ft bgs at location 203-SB15.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring/Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	NS 12/12/16			
		CH-MW017	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	NA PRODUCT	NA PRODUCT		NA PRODUCT
		CH-MW018	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	NS 12/12/16			
		CH-MW019	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	MG 12/12/16			
		CH-MW020	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	AB 12/12/16			
		CH-MW021	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/6/16	MG 12/11/16			
NA	Existing Well at B22	CH-MW022	MW (no SO)	NA	NA	NA	NA	NA	JS 12/11/16	NA		
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS/NS 12/9/16	JS 12/13/16		
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16	SA 12/11/16		
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/9/16	JS 12/13/16		
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/8/16	NS 12/13/16		
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	JS 12/9/16	NS 12/13/16		
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	AB 12/11/16			
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16			
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16			
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16	NS 12/13/16		
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	NS 12/10/16	JS 12/13/16		
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/12/16			
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/10/16	JS 12/13/16		
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/7/16	JS 12/12/16		
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/9/16	JS 12/12/16		
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16			
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB07	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB08	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB09	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB10	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB11	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB12	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB13	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB14	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB15	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB16	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB17	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB18	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB19	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB20	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB21	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB23	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB24	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB25	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB26	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB27	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB28	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB29	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB30	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB31	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB32	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB33	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB34	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB35	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB36	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB37	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	

Notes
Green highlight indicates item completed on the date of today's Daily Report
Orange highlight indicates item in progress on the date of today's Daily Report but not completed

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/14/2016 Wednesday

DR No. 16		**WRITTEN BY**: Amanda Martin			**PROJECT NUMBER**: 60443903
Weather: H 45°F	Mostly Sunny	**Days without a lost time injury:**	16		

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	10.25	SSHO	AECOM	Solonist Interface Probe	PJ Mion, USACE
Amanda Martin	10.25	Site Supervisor	AECOM	Solonist Water Level Meter (3)	
Matt Legg	9.5	UXO Tech II	AECOM	MiniRae 3000 PID (6)	
Andrew Borden	10.25	Geologist	AECOM	Dust Trak II Dust Meter (2)	
John Schroeder	10.25	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Sarah Ault	10.25	Geologist	AECOM	Geotech Baldder Pump (1)	
Jeff Dvorak	10.25	Environmental Scientist	AECOM	ProActive Monsoon Pimp (6)	
Nicole Schulman	8	Environmental Scientist	AECOM	Hand Auger (1)	
Jose Martin	10	Driller	Cascade	Direct Push Drill Rig	
Luke Caballero	10	Driller	Cascade		
DAILY TOTAL	99				
TOTAL TO DATE	1277.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM and TWS/Cascade team arrived on site at 0700 . The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

Prior to groundwater development/sampling, the team calibrated all equipment, including CAMP equipment, PIDs and water quality meters.

Monitoring Well Gauging and Baildown Tests of Free Product at former Building 203

Baildown tests were continued from 12/11/16 at locations CH-MW017 and PZ-03. Approximately 48 hours post product removal, 0.18 ft of product (12.66 to 12.84 ft bgs) was measured in PZ-03 and 2.10 ft of product (25.55 to 27.65 ft bgs) was measured in CH-MW017.

Groundwater Sample Collection

Groundwater samples were collected at the following wells:

CH-MW007 (Background): A grab sample was collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total); insufficient recharge was available in the well to collect low-flow samples.

CH-MW006 (Background): A low-flow sample was collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).

CH-MW008 (Background): An attempt was made to collect a grab sample, but the pH of the sample was 10.5. Compared to the pH range of the other background wells (5.5 to 7.2), this pH seemed anomalous. The team suspects that grout used in the well construction caused the elevated pH, in combination with the small volume of water purged from the during development was (only 0.5 gal total over multiple development cycles). The team pumped the well dry and will check the well again tomorrow to see if the recharge in the well to see if the pH has decreased.

CH-MW011 (Background): A grab sample was collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total); insufficient recharge was available in the well to collect low-flow samples.

CH-MW015 (Background): A low-flow sample was collected for metals (dissolved/total) and Hexavalent Chromium (dissolved and total).

CH-MW021 (Building 203):A grab groundwater sample was collected VOCs, SVOCs, metals (dissolved/total) and Hexavalent Chromium (dissolved and total); insufficient recharge was available in the well to collect low-flow samples.

Duplicate, Matrix Spike, and Matrix Spike Duplicate samples will be collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs overall.

Soil Boring and Sampling

Five soil borings for soil sampling were completed at former Building 203 using direct push drilling methods:

Soil Borings within "Hotspot"

203-SB34 Second boring at this location. Boring advanced to 40 ft bgs; petroleum impacts noted 17 to 26 ft bgs; maximum PID reading 102 PPM at 21.5 ft bgs Sample collected at dept (39 to 40 ft bgs), in additional

203-SB16 Boring advanced to 35 ft bgs; petroleum impacts noted 14 to 28 ft bgs; maximum PID reading 137 PPM at 18 ft bgs Three samples collected (one surface soil sample, one sample at interval of maximum PID reading, and one sample at depth)

203-SB13 Boring advanced to 35 ft bgs; petroleum impacts noted sporadically 25 to 30 ft bgs; maximum PID reading 185 PPM at 29 ft bgs

203-SB08 Boring advanced to 36 ft bgs; petroleum impacts noted sporadically 8 to 28 ft bgs; maximum PID reading 102 PPM at 12 ft bgs

203-SB07 Boring advanced to 35 ft bgs; minimal petroleum impacts noted

Unless otherwise noted, two soil samaples were collected per boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from an interval with elevated PID readings/olfactory indicators of petroleum impacts. If no PID/olfactory impacts were noted, the subsurface soil sample was collected from the bottom of the boring. All samples were collected for analysis of VOCs, SVOCs/PAHs, and metals (including mercury and hexavalent chromium). Duplicate, Matrix Spike, and Matrix Spike Duplicate samples were collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/14/2016 Wednesday

DR No. 16		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (Continued)

Sample Management

Six coolers including samples from 12/12/16 through 12/13/16 were picked up by the Eurofins Lancaster courier at 0800; custody was signed over to the courier at that time. Chain of Custody records were e-mailed to the Project Chemist (Devon Chicoine) and the Laboratory Project Manager after pick-up.

Soil and groundwater samples collected on Tuesday 12/13/16 and Wednesday 12/14/16 were Quality Control checked, recorded on Chain of Custody records, and packed on ice for storage. The next delivery of samples to Eurofins Lancaster will be by the AECOM team at the end of the Phase II event; samples will be held on fresh ice until that time.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Cascade completed 5 borings to depths of 35 to 40 ft bgs.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- Tom Dess (NY State Parks Superintendent) was notified in the morning that 10 team members would be on site, including USACE and subcontractors.
- The USACE/AECOM team held a call to discuss field updates. The team agreed that because petroleum impacts were detected at depth in "outside hotspot" locations 203-SB28 and -SB29, and deeper petroleum impacts are suspected at 203-SB34 (due to proximity to CH-MW017, which has free product in well), it made sense to advance these borings to greater depths to attempt to delineate the vertical distribution of the contamination. The field team will re-visit these locations for deeper samples/soil assessment.
- Additionally, the USACE/AECOM team discussed sampling the deep existing well in the parking lot behind Building 22 ("CH-MW022") and decided that sampling the well is outside the scope of the Phase II sampling event. The team will not collect a sample from this well and will revisit the need for sampling the well during preparation of the Phase II Work Plan Addendum.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the drill rig, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Superintendent (Signature):

Amanda Martin

Daily Photos

No photos were collected for today's daily report.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring/Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	NS 12/12/16			
		CH-MW017	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	NA PRODUCT	NA PRODUCT		NA PRODUCT
		CH-MW018	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	NS 12/12/16			
		CH-MW019	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	MG 12/12/16			
		CH-MW020	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	AB 12/12/16			
		CH-MW021	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/6/16	MG 12/11/16	JS 12/14/16		
NA	Existing Well at B22	CH-MW022	MW (no SO)	NA	NA	NA	NA	NA	JS 12/11/16	NA		
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS/NS 12/9/16	JS 12/13/16		
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16	SA 12/11/16		
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/9/16	JS 12/13/16		
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/8/16	NS 12/13/16		
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	JS 12/9/16	NS 12/13/16		
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	AB 12/11/16	NS 12/14/16		
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16	NS 12/14/16		
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16	JS 12/14/16		
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16	NS 12/13/16		
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	NS 12/10/16	JS 12/13/16		
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/12/16	JS 12/14/16		
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/10/16	JS 12/13/16		
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/7/16	JS 12/12/16		
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/9/16	JS 12/12/16		
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16	NS 12/14/16		
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB07	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB08	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB09	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB10	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB11	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB12	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB13	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB14	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB15	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB16	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB17	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16					
		203-SB18	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB19	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB20	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB21	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB23	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB24	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB25	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB26	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB27	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB28	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB29	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB30	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB31	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB32	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB33	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB34	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB34 REDO	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB35	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB36	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB37	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	

Notes

Green highlight indicates item completed on the date of today's Daily Report

Orange highlight indicates item in progress on the date of today's Daily Report but not completed

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/15/2016 Thursday

DR No. 17		**WRITTEN BY**: Amanda Martin			**PROJECT NUMBER**: 60443903
Weather: H 37°F	Windy, Cold	**Days without a lost time injury:**		17	
NAME:	**HRS**	**TRADE:**	**COMPANY:**	**EQUIPMENT:**	**VISITORS/AFFILIATION:**
Mike Glinski	10.5	SSHO	AECOM	Solonist Interface Probe	PJ Mion, USACE
Amanda Martin	10.5	Site Supervisor	AECOM	Solonist Water Level Meter (3)	
Matt Legg	9	UXO Tech II	AECOM	MiniRae 3000 PID (6)	
Andrew Borden	10.5	Geologist	AECOM	Dust Trak II Dust Meter (2)	
John Schroeder	10.5	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Sarah Ault	10.5	Geologist	AECOM	Geotech Baldder Pump (1)	
Jeff Dvorak	10.5	Environmental Scientist	AECOM	ProActive Monsoon Pimp (6)	
Nicole Schulman	8	Environmental Scientist	AECOM	Hand Auger (1)	
Jose Martin	10	Driller	Cascade	Direct Push Drill Rig	
Luke Caballero	10	Driller	Cascade		
DAILY TOTAL	100				
TOTAL TO DATE	1377.25	*(on-site hours only)*			

SUBCONTRACTORS:	**SITE DELIVERIES (indicate size, type, and condition):**
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM and TWS/Cascade team arrived on site at 0700 . The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Preparation Activities

Prior to groundwater development/sampling, the team calibrated all equipment, including CAMP equipment, PIDs and water quality meters.

Monitoring Well Gauging and Baildown Tests of Free Product at former Building 203

Baildown tests were continued from 12/11/16 at locations CH-MW017 and PZ-03. Approximately 48 hours post product removal, 0.18 ft of product (12.66 to 12.84 ft bgs) was measured in PZ-03 and 2.10 ft of product (25.55 to 27.65 ft bgs) was measured in CH-MW017.

Groundwater Sample Collection

Groundwater samples were collected at the following wells:

CH-MW016 (Building 203): A low-flow groundwater sample was collected for analysis of VOCs, SVOCs, metals (dissolved/total) and Hexavalent Chromium (dissolved and total). Petroleum odor and sheen were noted in the purge water.

CH-MW018 (Building 203): A low-flow groundwater sample was collected for analysis of VOCs, SVOCs, metals (dissolved/total) and Hexavalent Chromium (dissolved and total). Petroleum odor and sheen were noted in the purge water.

CH-MW019 (Building 203): A low-flow groundwater sample was collected for analysis of VOCs, SVOCs, metals (dissolved/total) and Hexavalent Chromium (dissolved and total). Petroleum odor was noted at the well head.

CH-MW020 (Building 203): A low-flow groundwater sample was collected for analysis of VOCs, SVOCs, metals (dissolved/total) and Hexavalent Chromium (dissolved and total). Petroleum odor and sheen were noted in the purge water.

Duplicate, Matrix Spike, and Matrix Spike Duplicate samples will be collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs overall.

Soil Boring and Sampling

Four soil borings for soil sampling were completed at former Building 203 using direct push drilling methods:

Soil Borings within "Hotspot"

203-SB06 Boring advanced to 35 ft bgs; petroleum impacts noted 6 to 16 ft bgs; maximum PID reading 26.2 PPM at 8 ft bgs

203-SB11 Boring advanced to 35 ft bgs; petroleum impacts noted sporadically 8 to 31 ft bgs; maximum PID reading 84.4 PPM at 10 ft bgs

203-SB12 Boring advanced to 35 ft bgs; petroleum likely from 10 to 35 ft bgs (see note below regarding malfunctioning PID).

203-SB17 Boring advanced to 40 ft bgs; petroleum impacts noted thoroughout boring starting at 18 ft bgs (see note below regarding malfunctioning PID).

Unless otherwise noted, two soil samples were collected per boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from an interval with elevated PID readings/olfactory indicators of petroleum impacts. If no PID/olfactory impacts were noted, the subsurface soil sample was collected from the bottom of the boring. All samples were collected for analysis of VOCs, SVOCs/PAHs, and metals (including mercury and hexavalent chromium). Duplicate, Matrix Spike, and Matrix Spike Duplicate samples were collected at select locations at a rate of 10% for duplicates and 20% for MS/MSDs.

Additionally, the AECOM team noted that the MiniRae PID was not properly functioning in the cold weather, despite multiple calibration attempts throughout the day. Soil cores with notable odor were reading less than 10 PPM on the PID; additionally, the 100 PPM isobutylene calibration gas was reading 3.5 PPM after use.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/15/2016 Thursday

DR No. 17		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (Continued)

Sample Management

Soil and groundwater samples collected on Wednesday 12/14/16 and Thursday 12/15/16 were Quality Control checked, recorded on Chain of Custody records, and packed on ice for storage. The next delivery of samples to Eurofins Lancaster will be by the AECOM team at the end of the Phase II event; samples will be held on fresh ice until that time.

Demobilization

The UXO Tech II, Matt Legg, demobilized from the site at 1600, as all intrusive activities were complete.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Cascade completed 5 borings to depths of 35 to 40 ft bgs.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- Tom Dess (NY State Parks Superintendent) was notified in the morning that 10 team members would be on site, including USACE and subcontractors.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the drill rig, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

Temperature on site today only reached the mid-twenties, with windchill temperatures in the teens. The team was proactive about avoiding cold stress by wearing approriately warm field gear and taking breaks to warm up.

ATTACHMENTS

Camp Hero Phase II Investigation Checklist

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/15/2016 Thursday

DR No. 17		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Daily Photos



Photo 1. The AECOM team collecting an equipment blank from the sleeve and shoe of the direct push rig.

Camp Hero Phase II Field Checklist

AOC ID	AOC Name	Location ID	Location Type	Flagging	Utility Clearance	UXO Anomaly Avoidance	Botany Survey	Well Installation	Well Development	Groundwater Sampling	Soil Boring/Soil Sampling	Surveying
Groundwater Samples												
203	Former Building 203 - Groundwater DU	CH-MW016	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	NS 12/12/16	NS 12/15/16		
		CH-MW017	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	NA PRODUCT	NA PRODUCT		NA PRODUCT
		CH-MW018	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	NS 12/12/16	JS 12/15/16		
		CH-MW019	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	MG 12/8/16	MG 12/12/16	JS 12/15/16		
		CH-MW020	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/8/16	AB 12/12/16	NS 12/15/16		
		CH-MW021	MW (no SO)	AM 12/6/16	Premiere 11/29/16	ML 12/6/16	SG 11/30/16	AB 12/6/16	MG 12/11/16	JS 12/14/16		
NA	Existing Well at B22	CH-MW022	MW (no SO)	NA	NA	NA	NA	NA	JS 12/11/16	NA		
BG	Backgound Monitoring Wells	CH-MW001	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS/NS 12/9/16	JS 12/13/16		
		CH-MW002	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/7/16	SA 12/11/16		
		CH-MW003	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/5/16	JS 12/9/16	JS 12/13/16		
		CH-MW004	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/8/16	NS 12/13/16		
		CH-MW005	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	JS 12/9/16	NS 12/13/16		
		CH-MW006	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	AB 12/11/16	NS 12/14/16		
		CH-MW007	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16	NS 12/14/16		
		CH-MW008	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16	JS 12/14/16		
		CH-MW009	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	MG 12/11/16	NS 12/13/16		
		CH-MW010	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	NS 12/10/16	JS 12/13/16		
		CH-MW011	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/12/16	JS 12/14/16		
		CH-MW012	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	AB 12/6/16	JS 12/10/16	JS 12/13/16		
		CH-MW013	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/7/16	JS 12/12/16		
		CH-MW014	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/5/16	NS 12/9/16	JS 12/12/16		
		CH-MW015	MW (no SO)	BMG 11/29/16	Premiere 11/29/16	ML 11/29/16	SG 11/29/16	MG 12/6/16	NS 12/11/16	NS 12/14/16		
Soil Samples												
203	Former Building 203 - Soil Inside Hot Spot DU	203-SB06	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/15/16	
		203-SB07	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB08	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB09	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB10	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB11	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/15/16	
		203-SB12	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/15/16	
		203-SB13	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB14	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB15	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB16	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB17	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/15/16	
		203-SB18	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB19	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB20	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/13/16	
		203-SB21	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
203	Former Building 203 - Soil Outside Hot Spot DU	203-SB22	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB23	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB24	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB25	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB26	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB27	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB28	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB29	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB30	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB31	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB32	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB33	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB34	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/12/16	
		203-SB34 REDO	SO Only	AM 12/10/16	Premiere 11/29/16	ML 12/12/16	SG 11/30/16				MG/SA/AB 12/14/16	
		203-SB35	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB36	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	
		203-SB37	SO Only	AM 12/8/16	Premiere 11/29/16	ML 12/8/16	SG 11/30/16				MG 12/8/16	

Notes

Green highlight indicates item completed on the date of today's Daily Report

Orange highlight indicates item in progress on the date of today's Daily Report but not completed

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/16/2016 Friday

DR No. 18		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: H 28°F	Cold, Windy	**Days without a lost time injury:** 18	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Mike Glinski	5	SSHO	AECOM	Solonist Interface Probe	
Amanda Martin	5	Site Supervisor	AECOM	Solonist Water Level Meter (3)	
Matt Legg	0	UXO Tech II	AECOM	MiniRae 3000 PID (6)	
Andrew Borden	5	Geologist	AECOM	Dust Trak II Dust Meter (2)	
John Schroeder	5	Geologist	AECOM	Geotech Peristaltic Pump (3)	
Sarah Ault	5	Geologist	AECOM	Geotech Baldder Pump (1)	
Jeff Dvorak	5	Environmental Scientist	AECOM	ProActive Monsoon Pump (6)	
Nicole Schulman	0	Environmental Scientist	AECOM	Hand Auger (1)	
DAILY TOTAL	30				
TOTAL TO DATE	1407.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
TWS/Cascade	None

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0930. Fewer team members were on site, since the full team was not needed for demobilization activities. The team completed the Morning Tailgate Health and Safety Meeting and reviewed the health and safety procedures and task hazards associated with scheduled field work for the day.

Demobilization Activities/Site Clean-Up

The following activities and tasks were completed prior to demobilization from the Site:

- Liquid and Solid IDW samples were collected (see details below).
- The Conex Box was cleaned and supplies left on-site were inventoried for future reference.
- Unused laboratory supplies/bottleware containing preservative were packed to return to the laboratory.
- Equipment rented from US Environmental was inventoried, cleaned, and packaged for return to US Environmental.
- Supplies and equipment with freeze potential (DI water, water bottles, calibration solutions, etc) were removed from the Conex box and loaded into vehicles for transport to and storage at the Chelmsford, MA office.
- Marking flags at Building 203 were replaced if damaged during recent activities, so they will be present when the land survey of locations is scheduled.
- Empty drums used for moving soil and during groundwater development were moved from the Motor Pool area to the Staging Area for storage inside the Conex Box, so they may be used for similar purposes during the Phase III field effort in the Spring of 2017.

IDW Sample Collection

Four IDW samples were collected for waste disposal analysis, as follows:

- ST-20161216-01: Soil IDW from background and non-petroleum impacted boring locations (containerized in roll-off).
- ST-20161216-02: Soil IDW from petroleum-impacted boring locations (containerized in 55 gallon drums).
- WW-20161216-01: Liquid IDW from background wells (containerized in 1,000 gallon poly tank and front compartment of 3,000 gal metal tank)
- WW-20161216-02: Liquid IDW from Building 203 (petroleum-impacted) wells (containerized in back compartment of 3,000 gal metal tank)

Sample Management

Soil and groundwater samples collected on Thursday 12/15/16 and IDW samples collected on 12/16/16 were Quality Control checked, recorded on Chain of Custody records, and packed on ice for storage. The next delivery of samples to Eurofins Lancaster will be by the AECOM team on Saturday 12/17/16; samples will be held on fresh ice until that time.

WORK COMPLETED BY AECOM SUBCONTRACTORS

None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 12/16/2016 Friday

DR No. 18		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- Tom Dess (NY State Parks Superintendent) was notified in the morning that 6 team members would be on site for demobilization activities.
- Keys were returned to the administrator at the NY State Parks Office (Montauk Downs) upon completion of the event and demobilzation from the Site.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None (no air monitoring was conducted because no intrusive activities were completed.)

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

Temperature on site today only reached the mid-twenties, with windchill temperatures in the teens. The team was proactive about avoiding cold stress by wearing approriately warm field gear and taking breaks to warm up.

ATTACHMENTS

None

Superintendent (Signature):

Amanda Martin

Daily Photos

No photos were collected on the date of this daily report.

Attachment H

Investigation-Derived Waste Documentation

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Dover Environmental Sciences, Inc.
311 East Blackwell St.
Dover, NJ 07801

Invoice

Date	Invoice #
3/23/2017	841

Bill To	Work Site
AECOM Bldg. B 9400 Amberglenn Blvd. Box 201088 Austin, TX 78729	Camp Hero Camp Hero Rd. Montauk, NY

W/O No.	P.O. No.	Manifest #	Ship Date	Rep	Terms	Due Date
Multiple	83788		12/4/2016	EL		3/23/2017

	Soil:		
1	Delivery and return of 20 yard container	1,200.00	1,200.00
3.48	Disposal of petroleum contaminated soil	68.00	236.64
1	Transportation charge for soil disposal	750.00	750.00
108	Daily container rental charge	20.00	2,160.00
2	Disposal of drums of impacted soil	160.00	320.00
	Groundwater:		
1	500-gallon frac poly tank delivery and return	1,200.00	1,200.00
500	Disposal of non-hazardous water	0.75	375.00
108	Daily poly tank rental charge	20.00	2,160.00
1	2000-gallon steel tank delivery and return	1,200.00	1,200.00
2,000	Disposal of non-hazardous water	0.75	1,500.00
108	Daily steel tank rental	20.00	2,160.00
1	Frac and steel tank cleaning	1,750.00	1,750.00T
	EXEMPT FROM Sales Tax	0.00%	0.00

Total	$15,011.64
Payments/Credits	$0.00
Balance Due	$15,011.64

Phone #	Fax #
973-328-1909	973-328-0727

12

DOVER ENVIRONMENTAL SCIENCES, INC.

311 E Blackwell St
Dover, NJ 07801
973-328-1909

NYDEC: NJ811
PASW: WH12968
EPA ID: NJR000073536
SW18262
HW50452

Work Order

Date	W.O. No.
12/4/2016	24895

Name/Address:

AECOM
Bldg. B
9400 Amberglenn Blvd.
Box 201086
Austin, TX 78729

Work Site:

Camp Hero
Camp Hero Rd.
Montauk, NY

Customer Phone	434-6464-8047

SCOPE OF WORK:	Amount
DELIVERY OF A 30Y CONTAINER 336 LOCK TOP	
EXEMPT FROM Sales Tax	0.00

( ) VAC TRUCK
( ) ROLL OFF
( ) LIFT GATED TRUCK
( ) LIGHT DUTY VEHICLE
( ) OIL TRUCK
( ) BACKHOE
( ) EXVACATOR
( ) GEO PROBE
( ) GENERATOR
( ) AIR COMPRESSOR
( ) DIAPHRAGM PUMP
( ) TRIPOD
( ) WINCH HARNESS
( ) HNU METER

( ) LEL METER
( ) PERSONAL PROTECTION EQUIP
( ) 1A1 CLOSED HEAD DRUMS
( ) 1A2 OPEN HEAD DRUMS
( ) UNIVERSAL ABSORBENT PADS
( ) OIL ONLY PADS
( ) GRANULAR ABSORBENT
( ) JET RODDER
( ) DRUMS GENERATED
( ) DRUMS TRANSPORTED
( ) PROFILE COMPLETION
( ) MANIFEST COMPLETION
( ) CHANGE ORDER
( ) OTHER_____

TECHNICIANS

NAME_____
NAME [signature]
NAME_____
NAME_____

PROJ SUPER:_____

SITE ARRIVAL TIME: 12 30
SITE DEPARTURE TIME: 1 15

SAFETY FIRST!

DATE: 12/4/16 CUSTOMER: [signature]

3B

DOVER ENVIRONMENTAL SCIENCES, INC.

311 E Blackwell St
Dover, NJ 07801
973-328-1909

NYDEC: NJ811
PASW: WH12968
EPA ID: NJR000073536
SW18262
HW50452

Work Order

Date	W.O. No.
12/5/2016	24896

Name/Address:

AECOM
Bldg. B
9400 Amberglenn Blvd.
Box 201088
Austin, TX 78729

Work Site:

Camp Hero
Camp Hero Rd.
Montauk, NY

Customer Phone	434-6464-8047

SCOPE OF WORK:	Amount
DELIVERY OF POLY TANK AND TANK #399 EXEMPT FROM Sales Tax	0.00
Call Amanda when 1 hr. away 434-664-8047 TRUCK #33 delivers TANK #399 TRUCK #75 delivers Poly	

( ) VAC TRUCK
( ) ROLL OFF
( ) LIFT GATED TRUCK
( ) LIGHT DUTY VEHICLE
( ) OIL TRUCK
( ) BACKHOE
( ) EXVACATOR
( ) GEO PROBE
( ) GENERATOR
( ) AIR COMPRESSOR
( ) DIAPHRAGM PUMP
( ) TRIPOD
( ) WINCH HARNESS
( ) HNU METER

( ) LEL METER
( ) PERSONAL PROTECTION EQUIP
( ) 1A1 CLOSED HEAD DRUMS
( ) 1A2 OPEN HEAD DRUMS
( ) UNIVERSAL ABSORBENT PADS
( ) OIL ONLY PADS
( ) GRANULAR ABSORBENT
( ) JET RODDER
( ) DRUMS GENERATED
( ) DRUMS TRANSPORTED
( ) PROFILE COMPLETION
( ) MANIFEST COMPLETION
( ) CHANGE ORDER
( ) OTHER_____

TECHNICIANS

NAME_____
NAME Rich
NAME FERNANDO
NAME_____

PROJ SUPER:_____

SITE ARRIVAL TIME: 1145

SITE DEPARTURE TIME: 212

SAFETY FIRST!

DATE: 12/5/16 CUSTOMER:

DOVER ENVIRONMENTAL SCIENCES, INC.

311 E Blackwell St
Dover, NJ 07801
973-328-1909

NYDEC: NJ811
PASW: WH12968
EPA ID: NJR000073536
SW18262
HW50452

Work Order

Date	W.O. No.
2/19/2017	24969

Name/Address:

AECOM
Bldg. B
9400 Amberglenn Blvd.
Box 201088
Austin, TX 78729

Work Site:

Camp Hero
Camp Hero Rd.
Montauk, NY

MARK 703-682-9092
(AMANDA) 664

Customer Phone	434 6464 8047

SCOPE OF WORK:	Amount
Vac truck - vac out water from poly tank	
Transportation of tank to Dover, NJ	
EXEMPT FROM Sales Tax	0.00

( ) VAC TRUCK
( ) ROLL OFF
( ) LIFT GATED TRUCK
( ) LIGHT DUTY VEHICLE
( ) OIL TRUCK
( ) BACKHOE
( ) EXVACATOR
( ) GEO PROBE
( ) GENERATOR
( ) AIR COMPRESSOR
( ) DIAPHRAGM PUMP
( ) TRIPOD
( ) WINCH HARNESS
( ) HNU METER

( ) LEL METER
( ) PERSONAL PROTECTION EQUIP
( ) 1A1 CLOSED HEAD DRUMS
( ) 1A2 OPEN HEAD DRUMS
( ) UNIVERSAL ABSORBENT PADS
( ) OIL ONLY PADS
( ) GRANULAR ABSORBENT
( ) JET RODDER
( ) DRUMS GENERATED
( ) DRUMS TRANSPORTED
( ) PROFILE COMPLETION
( ) MANIFEST COMPLETION
( ) CHANGE ORDER
( ) OTHER_____

TECHNICIANS

NAME_____

NAME

NAME_____

NAME_____

PROJ SUPER:_____

SITE ARRIVAL TIME: 11^00

SITE DEPARTURE TIME: 3^00

SAFETY FIRST!

DATE: 2/19/17

CUSTOMER: No One To Sign

Park

3A

DOVER ENVIRONMENTAL SCIENCES, INC.

311 E Blackwell St
Dover, NJ 07801
973-328-1909

NYDEC: NJ811
PASW: WH12968
EPA ID: NJR000079536
SW18262
HW50453

Work Order

Date	W.O. No.
2/27/2017	24977

Name/Address:

AECOM
Bldg. B
9400 Amberglenn Blvd.
Box 201088
Austin, TX 78729

Work Site:

Camp Hero
Camp Hero Rd.
Montauk, NY

Customer Phone	434-6464-8047

SCOPE OF WORK:	Amount
Demobilization of poly tank EXEMPT FROM Sales Tax	0.00
Must Notify Customer 1 day IN Advance. Poly Tank Pick UP ~~REYD DIRT~~ ~~POLY TANK~~ ~~2 DRUMS DUE~~	

( ) VAC TRUCK	( ) LEL METER	TECHNICIANS
( ) ROLL OFF	( ) PERSONAL PROTECTION EQUIP	
( ) LIFT GATED TRUCK	( ) 1A1 CLOSED HEAD DRUMS	NAME Fernando
( ) LIGHT DUTY VEHICLE	( ) 1A2 OPEN HEAD DRUMS	
( ) OIL TRUCK	( ) UNIVERSAL ABSORBENT PADS	
( ) BACKHOE	( ) OIL ONLY PADS	NAME Joel
( ) EXVACATOR	( ) GRANULAR ABSORBENT	
( ) GEO PROBE	( ) JET RODDER	
( ) GENERATOR	( ) DRUMS GENERATED	NAME
( ) AIR COMPRESSOR	( ) DRUMS TRANSPORTED	
( ) DIAPHRAGM PUMP	( ) PROFILE COMPLETION	
( ) TRIPOD	( ) MANIFEST COMPLETION	NAME
( ) WINCH HARNESS	( ) CHANGE ORDER	
( ) HNU METER	(✓) OTHER Issue #45	PROJ SUPER:

SITE ARRIVAL TIME: _____

SITE DEPARTURE TIME: _____

SAFETY FIRST!

DATE: 3-16-17 CUSTOMER: _____

41

ATLAS
Disposal Options, Inc

311 East Blackwell Street, Dover, NJ 07801
Phone (973) 361-5100 Fax (973) 361-0909

EPA ID# NJR000073536

NON-HAZARDOUS MANIFEST

DOC. NUMBER: **21673**

DATE: 2/19/17

Driver's Signature
X Kyle

Truck No. 45

SITE LOCATION	BILLING ADDRESS
AECOM	CAMP HERO
9400 AMBERGLENN BLVD.	CAMP HERO ROAD
AUSTIN, TX 78729	MONTAUK, NY
SITE CONTACT: A/R	BILLING CONTACT: MARK
SITE PHONE: (917) 217-8775	BILLING PHONE:

DESCRIPTION	START INCHES	END INCHES	NET VOLUME	UNIT PRICE	TOTAL
Fuel Oil #2, Combustible Liquid, n.o.s. NA1993					
Used Motor Oil Petroleum Products, n.o.s. UN1268			500 gallons	3/29/17 EJL	
Other, Specify Separator Oily Water			2000 GALLONS		

Clor-de-tect Result

End Facility
LORCO PETROLEM SERVICES
450 S. FRONT STREET
ELIZABETH, NJ 07202 (908)820-8800

RECEIVABLES

Payment Received

Check Number

PAYABLES

Amount Paid, check to be forwarded

Generator warrants and represents that the materials provided to Atlas Disposal Options hereunder have not been mixed, combined or otherwise blended in any quantity with materials containing polychlorinated biphenyls (PCB) or any other material defined as hazardous waste under applicable laws, including but not limited to 40CFR Part 281. Generator agrees to indemnify and hold Atlas Disposal Options harmless for any damages, costs, attorney fees, etc. arising out of or in anyway related to a breach of the above warranty by the generator.

THIS IS TO CERTIFY that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

X CULLEN.MEGAN.E.1367375368 Digitally signed by CULLEN.MEGAN.E.1367375368 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=CULLEN.MEGAN.E.1367375368 Date: 2017.03.07 12:24:25 -05'00'

GENERATOR/CUSTOMER SIGNATURE

Lorco: Chabel Ramirez
Chabel Ramirez
3/29/17

2A

LORCO PETROLEUM SERVICES

450 South Front Street
ELIZABETH, NJ 07202
(908) 820-8800

INVOICE # 132805

TRANSPORTER: ATLAS	DATE: 3/29/17
GENERATOR:	TRUCK NO: 45
BILL TO:	

MANIFEST # OR BILL OF LADING	
1	31673
2	
3	
4	
5	
6	

LORCO TANK NO	LORCO YARD PERSONNEL INITIALS	LAB TECH INITIALS
38	ES	JM

ANALYTICAL			
SED.%	WATER%	TOTAL BSW%	
2	46	48	
PCB'S		N.D	PPM
HALOGENS		338	PPM
FLASH		> 120	°F
CHROMIUM		1.76	PPM
CADMIUM		0.24	PPM
LEAD		21.6	PPM
ARSENIC			PPM
PH: WATER	6.8	A/F	

ANTIFREEZE: - _____ ° F

LEAD A/F: _____ PPM

REJECTION NOTE:

PRODUCT	GALLONS	PRICE	AMOUNT
OIL	—		
ANTIFREEZE			
DISPOSAL	2500		
FLAMMABLE			
LAB FEE			
TOTAL	2500		

LORCO FACILITIES SIGNATURE: Wade Purvis

CUSTOMER SIGNATURE

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	800-424-9300	07773

5. Generator's Name and Mailing Address
US Corps of Engineers
26 Federal Plaza, RM 1811
New York, NY 10278
Generator's Phone: 917 790-8235

Generator's Site Address (if different than mailing address)
Camp Hero, 1898 Montauk Highway
Montauk, NY 11954

6. Transporter 1 Company Name: Atlas Disposal Options, Inc — U.S. EPA ID Number: NJR000073536

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Cycle Chem, Inc.
217 South 1st Street
Elizabeth, NJ 07206
Facility's Phone: 908-355-5800 — U.S. EPA ID Number: NJD002200046

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR	1. Non-RCRA, Non-DOT Regulated Material (Petroleum Impacted Soil)	2	DM	600	P	ID27
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
NJDEP SOLID WASTE 18262, NJDEP HAZARDOUS WASTE 50178, NYDEC NJ-932, PADEP WH 12968
24 HOUR EMERGENCY: CHEMTREC 800-424-9300 CUSTOMER #CCN594634

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Mark MacEwan (As agent of US Corps of Engineers) — Signature: Mark MacEwan — Month: 3 — Day: 26 — Year: 2017

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: — Transporter Signature (for exports only): — Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

TRANSPORTER INT'L

Transporter 1 Printed/Typed Name: STANLEY PARKER — Signature: Stanley Parker — Month: 03 — Day: 17 — Year: 17

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy

17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

DESIGNATED FACILITY

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: J Coriano — Signature: J Coriano — 032917

169-SLS-C 6 10497 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

1C

DOVER ENVIRONMENTAL SCIENCES, INC.

311 E Blackwell St
Dover, NJ 07801
973-328-1909

NYDEC: NJ811
PASW: WH12968
EPA ID: NJR000073536
SW18263
HW50452

Work Order

Date	W.O. No.
3/17/2017	24997

Name/Address:

AECOM
Bldg. B
9400 Amberglenn Blvd.
Box 201088
Austin, TX 78729

Work Site:

Camp Hero
Camp Hero Rd.
Montauk, NY

Customer Phone	434-6464-8047

SCOPE OF WORK:	Amount
Pick up 30 yard container	
Pick up 2 drums	
EXEMPT FROM Sales Tax	0.00

( ) VAC TRUCK
( ) ROLL OFF
( ) LIFT GATED TRUCK
( ) LIGHT DUTY VEHICLE
( ) OIL TRUCK
( ) BACKHOE
( ) EXVACATOR
( ) GEO PROBE
( ) GENERATOR
( ) AIR COMPRESSOR
( ) DIAPHRAGM PUMP
( ) TRIPOD
( ) WINCH HARNESS
( ) HNU METER

( ) LEL METER
( ) PERSONAL PROTECTION EQUIP
( ) 1A1 CLOSED HEAD DRUMS
( ) 1A2 OPEN HEAD DRUMS
( ) UNIVERSAL ABSORBENT PADS
( ) OIL ONLY PADS
( ) GRANULAR ABSORBENT
( ) JET RODDER
( ) DRUMS GENERATED
( ) DRUMS TRANSPORTED
( ) PROFILE COMPLETION
( ) MANIFEST COMPLETION
( ) CHANGE ORDER
( ) OTHER_____

TECHNICIANS

NAME Stan

NAME Fernando

NAME_____

NAME_____

PROJ SUPER:_____

SITE ARRIVAL TIME: 5:30 Pm

SITE DEPARTURE TIME: 6:30 Pm

SAFETY FIRST!

DATE: 3/17/17 CUSTOMER:_____ 2c

www.cyclechem.com

Cycle Chem, Inc.
217 South 1st St.
Elizabeth, NJ 07206
Phone: (908) 355-5800
Fax: (908) 355-0562

550 Industrial Dr.
Lewisberry, PA 17339
Phone: (717) 938-4700
Fax: (717) 938-3301

General Chemical Corporation
133-138 Leland St., Framingham, MA 01701
Phone: (508) 872-5000 Fax: (508) 875-5271

Material Profile Sheet
Gencode/Gen #: _____ - _____ Stream:(if applicable)
Process/Product Code: _____

A. GENERATOR INFORMATION

EPA ID # NOT REQUIRED

GENERATOR NAME: US CORPS OF ENGINEERS
MAILING ADDRESS: 26 FEDERAL PLAZA, RM 1811
NEW YORK NY 10278
GENERATOR CONTACT:
GENERATOR PHONE #: 917-790-8235
GENERATOR FAX:
SITE ADDRESS: CAMP HERO, 1898 MONTAUK HIGHWAY
MONTAUK NY 11954

BILLING COMPANY: ATLAS DISPOSAL OPTIONS, INC
BILLING ADDRESS: 311 EAST BLACKWELL STREET
DOVER NJ 07801
BILLING CONTACT: MARK DOYLE
BILLING PHONE #: 973-361-5100 FAX: MARK@ATLASDO.CO

NAME OF WASTE: PETROLEUM IMPACTED SOIL CUTTINGS
PROCESS GENERATING WASTE: SOIL SAMPLING

B. PHYSICAL CHARACTERISTICS OF WASTE (AT 70° F)

Color / Odor / Physical Description: BLACK / PETROLEUM

Wastewater: ○ Wastewater ◉ Non-wastewater
Specific Gravity:

Physical State: ☐ Single Phase ☒ Solid ☐ Gas/Aerosol ☐ Bi-Layered ☐ Liquid ☐ Lab Pack ☐ Multi-Layered ☐ Semi-Solid ☐ Powder ☐ Sludge

Flash Point: ○ Flash Point <74 F ○ Flash Point 101-140 F ○ Flash Point >200 F ○ Exact Flash Point ○ Flash Point 74-100 F ○ Flash Point 141-200 F ◉ No Flash Point ○ Open cup ○ Closed cup

Ignitable Solid? ○ Yes ◉ No

pH: ○ <2.0 ○ 2.01-6.0 ◉ 6.01-9.0 ○ 9.01-12.49 ○ >12.5 ○ Exact pH

Liquid/Solid/Sludge
% Liquid
% Suspended Solids
% Sludge
% Solid 100
Dumpable? ◉ Yes ○ No
Pumpable? ○ Yes ◉ No
Pourable? ○ Yes ◉ No

C. CHEMICAL COMPOSITION

ATTACHMENTS: ☐ MSDS attached ☐ Supplemental Analysis ☐ Additional Information ☐ LDR Attachment

Chemical Composition	Percent	Minimum	Maximum
PETROLEUM IMPACTED SOIL	100		

D. REGULATORY INFORMATION

Is it USEPA Haz waste? ○ Yes ◉ No
USEPA Haz Codes:
EPA Sub Categories:
Is it STATE waste? ○ Yes ○ No
STATE Haz Codes:
DOT Hazardous Material? ○ Yes ◉ No
Proper Shipping Name: NON-RCRA, NON-DOT REGULATED MATERIAL (PETROLEUM IMPACTED SOIL)
Hazard Class: _____ UN/NA #: _____ P. G.: _____
RQ: _____ ERG#: _____

E. SHIPPING INFORMATION

Shipment Method:
○ Bulk Liquid - Tanker ○ Pallet(s) ◉ Drum(Size): 55
○ Bulk Solid - Dmp Tr ○ Tote(s)
○ Bulk Solid - Roll Off ○ Cubic Yard Box(s) ○ Other(Size):

Anticipated Volume: 2 Per one time
Quantity: _____ Price: _____ / Unit: _____

F. SPECIAL HANDLING CONSIDERATIONS

☐ Radioactive ☐ PA RW SOG ☐ No Land Filling
☐ Etiologic/Medical Waste ☐ DRMS/DRMO Waste ☐ Incinerate Only
☐ Fuming ☐ CERCLA Waste ☐ Recycle Only
☐ Phenolics ☐ Asbestos ☐ Other:

Indicate if waste contains any of the following:

	Yes-Yes	or Less/Than	or Actual
PCBs	☐	☐ 50 PPM	
Cyanides	☐	☐ 250 PPM	
Phenolics	☐	☐ 50 PPM	
Sulfides	☐	☐ 500 PPM	
VOCs	☐	☐ 500PPM	
Chlorides	☐	☐ 1000 PPM	

G. TRANSPORTER ARRANGEMENTS

○ CCI/GCC Provides Transportation ○ Other:
◉ Customer Delivers to CCI/GCC
○ Customer Delivers to End Facility via CCI/GCC

H. OTHER HAZARDOUS CHARACTERISTICS

☐ RCRA REACTIVE ☐ ETIOLOGICAL ☐ EXPLOSIVE/SHOCK SENSITIVE
☐ WATER REACTIVE ☐ TSCA REG ☒ NONE OF THE ABOVE
☐ RADIOACTIVE ☐ OXIDIZING MAT'L
☐ SUBJECT TO SUBPART FF BENZENE REG ☐ PYROPHORIC

1. Is this waste characteristically hazardous for metals or organics (EPA Waste Codes D004 through D043)? ○ Yes ◉ No
If YES, please list the constituents and concentrations in section C.

2. Does this waste contain underlying hazardous constituents as defined in 40 CFR 268 Part 2, Section I at concentrations exceeding the UTS treatment standards? ○ Yes ◉ No
If YES, please list the constituents and concentrations in section C.

GENERATOR CERTIFICATION: I hereby certify that all information submitted in this and all other attached documents is complete, contains true and accurate descriptions and is representative of the waste material, and that all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. If CCI/GCC discovers, after having taken the delivery of the waste, that any waste does not conform to the identification or descriptions contained in this WPS then CCI/GCC shall provide notice to Generator and coordinate the return, if applicable, of the non conforming waste to the point of origin as set forth in the manifest or to such other locations designated in writing by the Generator. Generator agrees to reimburse CCI/GCC for all handling, packaging, cleanup and transportation costs or charges, damage to equipment and costs associated with lost time incurred by CCI/GCC during the receipt, handling, temporary storage and return of such non conforming waste to its point of origin or to such other location designated by the Generator. I hereby authorize CCI/GCC to amend and/or correct any information on the WPS with the full understanding that if any amendment or correction is performed, I will be contacted as such to issue any approval.

Authorized Signature: Mark MacEwa Title: Project Manager Date: 3/26/2017

CCI/GCC APPROVAL	Sales Code	Tech Initials	Date	Management Initials	Date	Resident Waste / Form Code

3c

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: BSM# 2717-0388 | 2. Page 1 of 1 | 3. Emergency Response Phone: 800-424-9300 | 4. Waste Tracking Number: 24999

GENERATOR

5. Generator's Name and Mailing Address
US Corps of Engineers
26 Federal Plaza Rm 1211
NY, NY 10378
Generator's Phone: 917-790-8235

Generator's Site Address (if different than mailing address)
Camp Hero
1398 Montauk Highway
Montauk NY 11954

6. Transporter 1 Company Name: Atlas Disposal Options, Inc
U.S. EPA ID Number: NJR000072536

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Bayshore Recycling
75 Crows Mill Rd
Keasbey NJ 08832
Facility's Phone: 732) 738-6000
U.S. EPA ID Number: NJD125001522

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NON-DOT Regulated Mat. (Soil-drill cuttings)	1		3.48	Tons	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
NJDEP SOLID WASTE 18763. NJDEP HAZ WASTE 50178
24 Hr. Emergency Contact 800-424-5200 customer # CCN694634

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Carol Owings for Camp Hero | Signature | Month: 3 | Day: 20 | Year: 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: STANLEY PARKER | Signature: Stanley Parker | Month: 03 | Day: 17 | Year: 17

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

169-BLS-C 6 10497 (Rev. 9/09)

TRANSPORTER #2

2D

BAYSHORE
Soil Management, LLC
P.O. Box 290 • 75 Crows Mill Road • Keasbey, NJ 08832
P: (732) 738-6000 • F: (732) 738-0620 • www.bayshorerecycling.com

Bayshore Soil Management, LLC
Generator Waste Profile

BSM Customer: Dover Environmental Sciences, Inc.
Customer Address: 311 East Blackwell St City: Dover State: NJ Zip: 07801
Contact: Carol Quigg Tel: (973) 328-1909 email: Cquigg5@gmail.com
Site Contact: Amanda Martin Tel/Cell: (978) 905-2486 email: amanda.martin@aecom.com
Site Name: Camp Hero Property Owner's Phone: (631) 668-2765
Site Address: 1898 Montauk Highway City: Montauk State: NY Zip: 11954
Generator Name: US Corps of Engineers Generator Phone: 917-790-8235
Generator Address: 26 Federal Plaza, RM 1811 City: NY State: NY Zip: 10278

History of Site Use: ☐ Residential ☐ Commercial ☒ Industrial

If commercial or industrial, please describe history of site: Industrial

917

Event/process generating waste: ☐ Leaking UST ☐ Leaking AST ☐ Surface Spill ☒ other (*describe*): Soil drilling

Waste Material Description: ***Soil/media is contaminated with:*** (check one)

___ NON-HAZARDOUS, *VIRGIN PETROLEUM* CONTAMINATED SOIL
☐ #2, #4, or #6 Fuel Oil ☐ Diesel Fuel ☐ Gasoline ☐ Motor oil ☐ Hydraulic Oil ☐ Mixed Fuels (gas/fuel)

X NON-HAZARDOUS, *NON-VIRGIN PETROLEUM* CONTAMINATED SOIL
☐ Used Motor Oil ☒ Waste Oil ☐ Metal Cutting/Cooling Oils ☐ Hydraulic Oil ☒ Urban Fill ☐ Virgin Solvent
☐ Electric Oil/MODF ☒ Used Solvent ☐ Grease ☐ Wax ☐ Animal/Vegetable Oil ☐ Street Sweepings

___ NON-HAZARDOUS, *COAL TAR/ MGP* CONTAMINATED SOIL
☐ Coal Tar / MGP

Are there any known or suspected releases of contaminants other than those listed above? NO X YES _____
If YES, Specify _____
Approximate Tonnage _____
Physical Characteristics: %Clay _____ %Silt 92 %Debris < 1 Describe Debris _____

I hereby certify, to the best of my knowledge, (a) I am a responsible official of the generator, (b) that the sampling protocol, as outlined, has been adhered to, (c) that the information provided in the profile is correct and complete, (d) that the transport, treatment and recycling of the contaminated materials do not violate any laws or regulations of the state of origin.

Signature: CULLEN.MEGAN.E.1367375368 Date: 7 Mar 17
Typed/Printed Name: Technical Lead Company: USACE
Check One: Owner_ X Generator_ Contractor_ Consultant_ Other (explain)_____

Acceptance of this material is based on review and approval of this profile, required analytical results and soil physical inspection.

T. Bayshore 07872
T. Cycle Circuit 07773

4D

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 805161
Date: 3/20/2017
Time: 13:43:34 - 14:18:54

			Scale
Gross:	44680 lb	In	Scale 2
Tare:	37720 lb	Out	Scale 3
Net:	6960 lb		

Customer: DOVER ENVIRONMENTAL SCIENCES, INC/BSM8104
311 EAST BLACKWELL ST
SUITE B
DOVER, NJ 07801-

Truck: AT417N

CUYDs: 30

License: AT417N
Truck Type: ROLLOFF

Carrier: ATLAS DISPOSAL

Manifest: 24999
Remaining: 0.00 TN

Profile: 2717-0308/CAMP HERO SITE
Generator: CAMP HERO SITE
Comment:

Origin	Materials & Services	Quantity	Unit
New York State	1027 PCS	3.48	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Dennis

Gone to Coral 3/27/17

ID

DOVER ENVIRONMENTAL SCIENCES, INC.

311 E Blackwell St
Dover, NJ 07801
973-328-1909

NYDEC: NJ911
PASW: WH12968
EPA ID: NJR000073536
SW18262
HW50452

Work Order

Date	W.O. No.
3/20/2017	24999

Name/Address:

AECOM
Bldg. B
9400 Amberglenn Blvd.
Box 201088
Austin, TX 78729

Work Site:

Camp Hero
Camp Hero Rd.
Montauk, NY

Customer Phone	434-6464-8047

SCOPE OF WORK:	Amount
TRANSPORTATION TO BAYSHORE RECYCLING FOR DISPOSAL	0.00
EXEMPT FROM Sales Tax	0.00

( ) VAC TRUCK
(X) ROLL OFF
( ) LIFT GATED TRUCK
( ) LIGHT DUTY VEHICLE
( ) OIL TRUCK
( ) BACKHOE
( ) EXVACATOR
( ) GEO PROBE
( ) GENERATOR
( ) AIR COMPRESSOR
( ) DIAPHRAGM PUMP
( ) TRIPOD
( ) WINCH HARNESS
( ) HNU METER

( ) LEL METER
( ) PERSONAL PROTECTION EQUIP
( ) 1A1 CLOSED HEAD DRUMS
( ) 1A2 OPEN HEAD DRUMS
( ) UNIVERSAL ABSORBENT PADS
( ) OIL ONLY PADS
( ) GRANULAR ABSORBENT
( ) JET RODDER
( ) DRUMS GENERATED
( ) DRUMS TRANSPORTED
( ) PROFILE COMPLETION
( ) MANIFEST COMPLETION
( ) CHANGE ORDER
( ) OTHER_____

TECHNICIANS

NAME STAN

NAME_____

NAME_____

NAME_____

PROJ SUPER:_____

SITE ARRIVAL TIME: 100 PM

SITE DEPARTURE TIME: 200 PM

SAFETY FIRST!

DATE: 03/20/17 CUSTOMER:_____