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April 15, 2021

Parag Amin, P.E.
Project Manager, Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014

Re: Quarterly Progress Report – 1st Quarter 2021
Harriman Inactive Waste Disposal Site #336006

Dear Mr. Amin:

On behalf of Warner Lambert LLC and Cambrex Corporation (Parties), this letter and inspection reports provide the first quarter of 2021 project progress report for the Harriman Site, located in Harriman, New York (Harriman Site). The NYSDEC had previously designated Michael Mason as its project manager for progress report submittals required by the Consent Decree governing this project, and this designation has not been formally changed. However, in an electronic mail message dated June 13, 2019, the NYSDEC advised the Parties that you have taken on the role of the Harriman site project manager and, therefore, this progress report has been addressed accordingly. Due to the presence of other remediation programs and voluntary investigative work being performed at the site, this report includes activities that are beyond the scope of the Parties' obligations under the Consent Decree.

Site Remediation Activities Performed (January – March 2021)

- The biosparging system was shut down on September 10, 2008 in accordance with the Supplemental Remedial Action Work Plan approved by the New York State Department of Environmental Conservation (NYSDEC) on June 18, 2008, and remained off line through the second quarter of 2020, per recommendations in prior quarterly reports to the NYSDEC. Because the system was off line, no routine operation and maintenance was necessary during the reporting period. The building housing the biosparge system remains locked and in generally good condition. As reported in the first quarter of 2016 progress report, the biosparge system sustained limited damage during the site demolition activities and with some repairs operation of the system could be restored in the future, if there were a need for the system to be brought back on line.

- The interim cover along the West Branch of the Ramapo River was evaluated as a part of a site inspections performed on March 19, 2021. The interim cover remains in good condition. The cover vegetation is stable, well vegetated, and there are no signs of erosion. Representative photos are attached.

- The parking lot pavement remains generally intact and functioning as a cover. Pothole repairs were last made by ELT-Harriman, LLC in late March 2021 and are not reflected in the inspection completed on March 19, 2021. During the March 19, 2021 inspection the parking area was observed to be good condition with 19 - 20 small to midsize potholes observed at random locations across the parking lot. Conditions were consistent with those last observed in December 2020 as part of the fourth quarter inspection. Representative photos of the observed potholes are attached for reference. As noted, repairs were made after the quarterly inspection was completed and are documented in an email to NYSDEC from ELT dated April 2, 2021.

- The quarterly well inspection report is also attached for reference. The monitoring well network in the routine five-quarter monitoring program remains in good condition and functional as noted in the attached summary tabulation from the March 19, 2021 inspection.

- As described in the second quarter 2016 progress report, product was not observed on the absorbent socks in wells SVE-1, SVE-3, SVE-4, and VER-2 during the December 2015 and March 2016 inspections; therefore, the absorbent socks were removed during the June 2016 inspection, with the intent of checking the wells for sheen or product without the absorbent socks present. Since removal of the absorbent socks in June 2016, the wells have been checked during each inspection for evidence of product or sheen, both visually and with an interface probe, and during the April 2017 inspection, an absorbent sock was placed in VER-2 based on an observed sheen, and an absorbent sock remains in this well as noted in the attached inspection report. The sock in VER-2 was replaced during the June 30th 2020 inspection. Wells SVE-1, SVE-3, and SVE-4 continue to not have any evidence of product or sheen and, therefore, the Parties have discontinued the use of absorbent socks in these wells. During the March 19, 2021 inspection, neither product or sheen was observed in any of the SVE or VER wells. Cornerstone, on behalf of the Parties, previously sent a separate letter to the NYSDEC documenting the request to modify the use of absorbent socks. The request to discontinue use of the adsorbent socks and quarterly inspections of all SVE and VER wells except for VER-2 was subsequently approved via email dated July 17, 2020.

- In the first quarter of 2012 progress report, the Parties requested that following the April 2012 groundwater sampling event the sampling program be modified to an annual frequency, based on the consistency of the groundwater monitoring data since 2008 when the biosparge system was shut down. Following this request in the April 2012 quarterly progress report, the NYSDEC approved modifying the groundwater monitoring frequency to every five quarters. This approval was provided in an electronic mail message from the NYSDEC to Cornerstone dated May 10, 2012. The NYSDEC approved the frequency of every five quarters, in lieu of annually, so that the groundwater monitoring would occur at different times throughout the year. The list of monitoring wells to be sampled and analytical parameters remain unchanged. The seventh five-quarter routine sampling event was completed during the period of March 29-31, 2021. The results will be reported in the second quarter 2021 progress report. To

date, the monitoring data have consistently demonstrated that since shut down of the biosparging system, there is no evidence of an expansion of the plume or exceedance of groundwater quality standards at the down-gradient perimeter. Therefore, groundwater monitoring in accordance with the current program is anticipated to continue, and the next sampling event is scheduled for the second quarter of 2022.

- The IRM groundwater extraction system components remain off-line on standby per the NYSDEC's approval pending the completion of the Supplemental Remedial Action Work Plan, including continued groundwater monitoring, and evaluation of the appropriateness of an ESD. Because of the ELT-Harriman, LLC demolition work, the groundwater extraction system components have been dismantled, but the system can be restored, if necessary.

Parking Lot and Other

As of May 14, 2010, the Parties had concluded all work and information transfer requested by the NYSDEC in connection with sampling and delineation of the calcium sulfate material in the Area B parking lot. The Parties, in conjunction with ELT-Harriman, LLC submitted a *Site-Wide Characterization Summary Report* on March 7, 2011. The Parties conduct both quarterly parking lot and riverbank inspections.

Separately, Nepera, Inc. and Warner-Lambert Company entered into a Stipulation and Order with the NYSDEC for a supplemental remedial investigation and feasibility study for portions of the Harriman Site, which was filed with the Court on December 17, 2013 and so-ordered by the Court on January 24, 2014.

As a supplemental effort outside the scope of the Consent Decree and the Stipulation and Order, the Parties and ELT-Harriman are coordinating with the NYSDEC on the preparation and implementation of a sampling work plan for emerging contaminants. A site meeting was held with representatives of the Parties, ELT-Harriman and NYSDEC to tour the site, observe current conditions and answer questions as applicable. A draft work plan was submitted to NYSDEC on August 1, 2019 and the NYSDEC provided comments via letter dated September 3, 2019. The Parties and ELT-Harriman acknowledged receipt of the comments and intent to revise the work plan in response to the comments by letter dated September 17, 2019. A revised Work Plan was submitted on October 2, 2019 and was subsequently approved by the NYSDEC by letter dated October 15, 2019. A schedule for implementation of the approved work plan was submitted on October 21, 2019 and field work associated with collection of soil samples for emerging contaminant analysis was completed January 8 through 10, 2020. In accordance with the approved Work Plan, a Work Plan Addendum was submitted on March 10, 2020. The Work Plan Addendum presents the results of the soil sampling and a proposed work plan for the investigation of emerging contaminants in groundwater. The NYSDEC provided comments on the Work Plan Addendum by letter dated May 19, 2020 and the Parties and ELT-Harriman responded to the comments by letter dated June 2, 2020. A revised Work Plan Addendum was submitted on June 19, 2020 and subsequently approved by NYSDEC by letter dated June 23, 2020. The additional work called for in the Work Plan Addendum was implemented during the

third quarter of 2020 and a report was submitted to NYSDEC on January 29, 2021. The NYSDEC responded with questions/comments on the proposed additional investigation work by letter dated March 8, 2021. The Parties and ELT responded to these comments and submitted a revised report on April 12, 2021 and will implement the additionally proposed work during the second quarter of 2021 pending approval from NYSDEC and obtaining access to off Site properties. Requests for access to off Site properties (Harriman Park and 2 Commerce Drive) were made February 26, 2021. No response has been received as of this progress report and the April 12, 2021 response to comments letter referenced above requested assistance from the Department in obtaining access to the 2 Commerce Drive property. As discussed in the April 12, 2021 letter, access to the 2 Commerce Drive property was denied previously to conduct work requested by NYSDEC and required assistance at that time from the Department. Given this history, we are again requesting the Departments assistance in this regard.

Representatives of the Parties and ELT-Harriman met with representatives of NYSDEC in Albany on October 22, 2019 to provide an overview of the various investigations and reports completed for the site to date and discuss the next steps required to progress with completion of Feasibility Study Report and closure of the site. Copies of the presentation made by the Parties and ELT-Harriman, as well as a reference list of completed reports and a summary of the site chronology were provided to the Department for future reference.

In November 2019, through a series of conference calls and emails, NYSDEC requested the completion of summary tables of analytical data by media, for samples collected to date. An outline of anticipated tables was provided by email dated December 19, 2019, with additional clarification provided by NYSDEC by email dated December 20, 2019. The Parties and ELT-Harriman completed the requested tables and figures and a link to download the files was sent via email dated May 6, 2020. A total of 22 tables and 4 figures were provided.

By letter dated December 6, 2019, NYSDEC provided comments on certain submissions, including matters relevant to the Parking Lot Feasibility Study. The Parties and ELT-Harriman jointly responded to the comments by letter from Brown & Caldwell Associates on January 17, 2020. In the May 6, 2020 email from Jeff Caputi of Brown & Caldwell transmitting the requested summary tables and figures (see above), a web-meeting was requested by the parties to discuss the outstanding issues and next steps needed to move forward with completing both the Parking Lot and Lagoon FS Reports. In response to this request, a web-meeting was held on June 18, 2020 and copies of the presentation and requested supporting information were sent via email dated June 19, 2020. The Department agreed to review the presented information and organized a web-meeting for September 24, 2020 during which the Department shared its position on several outstanding Site matters and heard the Parties' responses. The Department provided a draft meeting summary via email dated October 30, 2020 in which they summarized the discussion, collective agreement (where applicable) and remaining concerns or points of disagreement. The Parties responded to the draft meeting summary by letter dated January 29, 2021.

Activities for the 2nd Quarter 2021 (April – June 2021)

- Perform the regularly scheduled, quarterly monitoring well, parking lot, and riverbank inspections.
- Perform parking lot maintenance as needed.
- Respond to the Department's March 8, 2021 comments on the proposed additional Emerging Contaminants Work.
- Implement the additionally proposed Emerging Contaminants work pending approval from NYSDEC and obtaining access to off-Site properties.

Please do not hesitate to contact us should you have questions or comments on any aspect of this progress report.

Sincerely,

Cornerstone Engineering and Geology, PLLC

Timothy R. Roeper, P.G.
Client Services Manager

Enclosures: Inspection Reports

cc: S. Levine
C. Clark
J. Jones
M. Robinson
K. Carpenter

Former Nepera Plant - Harriman, NY: Quarterly Well Inspection Report Date 3/19/2021

Monitoring Well	Diameter Inches	Finish	Collar	Lid	Plug	Lock	Tag	Casing	Comments	Action Items
MW-1S*	6	Stickup	OK	OK	OK	OK	OK	OK		
MW-2S	4	Stickup	OK	OK	OK	OK	OK	D	Casing is sheared off a few feet below top of ground.	No repair planned, well not in use, possible future abandonment
MW-3S	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-4S	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-5S*	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-7S*	4	Stickup	OK	OK	OK	OK	OK	OK	Well is behind chain link fence that leads up to the river bank. Padlock lubricated	
MW-8S*	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-9S	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-11S*	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-12S*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-13S	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-16S*	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-20S*	4	Flushmount	OK	OK	OK	OK	OK	OK		
MW-21S	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-24S*	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-25S*	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-27S	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-33S*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-35S*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-36S	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-37S*	2	Flushmount	OK	OK	OK	OK	OK	OK		
OW-6	2	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
OW-7*	2	Stickup	OK	OK	OK	OK	OK	D	PVC inside well casing is detached. Padlock lubricated	Exercise care when removing plug for sampling so as not to detach casing.
R-1	6		NI	NI	NI	NI	NI	NI	Well no longer exists	
RW-1**	6	Vault	NI	NI	NI	NI	NI	NI		
RW-1R*	6	Vault	OK	OK	OK	OK	OK	OK		

Former Nepera Plant - Harriman, NY: Quarterly Well Inspection Report Date 3/19/2021

Monitoring Well	Diameter Inches	Finish	Collar	Lid	Plug	Lock	Tag	Casing	Comments	Action Items
MW-53D*	4	Flushmount	OK	OK	OK	OK	OK	OK		
PZ-1	2	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
PZ-2	2	Flushmount	OK	OK	OK	OK	OK	OK	Well abandoned	
PZ-3	2	Flushmount	D	OK	OK	OK	OK	OK		Collar still secure
MW-15S	4	Stickup	OK	OK	OK	OK	OK	OK	Well abandoned	
MW-17S	4	Stickup	OK	OK	OK	OK	OK	D	Outer and inner casing repaired	New lock placed on outer casing.
MW-19S	4	Stickup	OK	OK	OK	OK	OK	D	Well abandoned	
MW-22S(1)	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-23S(1)	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-26S	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-28S(2)	2	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-29S(2)	2	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-34	2	Flushmount	OK	OK	OK	OK	OK	OK	Can not access well due to placement of new faceplate.	Well not in use, no repair planned
MW-35AQ	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-36AQ	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-37AQ	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-53S	4	Flushmount	OK	OK	OK	OK	OK	OK		
PZ-4	2	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-6D*	4	Stickup	OK	OK	OK	OK	OK	OK	Well is behind a chain link fence that leads upto the river bank. Padlock lubricated	
MW-10D	6	Stickup	OK	OK	X	OK	OK	OK	No plug, tubing is tied off inside of well, Inner casing too far down to plug.	
MW-18D	6	Stickup	OK	OK	X	OK	OK	OK	Inner casing too far down to plug Padlock lubricated.	No repair planned, well not in use, possible future abandonment. New lock placed on outer casing.
MW-20D*	4	Flushmount	OK	OK	OK	OK	OK	OK		
MW-21D	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-23D(1)*	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	

Former Nepera Plant - Harriman, NY: Quarterly Well Inspection Report Date 3/19/2021

Monitoring Well	Diameter Inches	Finish	Collar	Lid	Plug	Lock	Tag	Casing	Comments	Action Items
MW-25D	4	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-26D*	2	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-27D*	6	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
R-2D	10	Stickup	NI	NI	NI	NI	NI	NI	Shed removed	Well not In use
R-3D	10	Stickup	OK	OK	X	X	OK	OK	Large metal plate covering well	
MW-101*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-102*	2	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-103*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-104*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-105*	2	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
MW-106*	2	Stickup	OK	OK	OK	OK	OK	OK	Padlock lubricated	
20 DR*	2	Flushmount	OK	OK	OK	OK	OK	OK		
							Field Technician:		Dan Wheeler	

(1) Off-Site Wells.
(2) Erosion Evaluation Wells
** RW-1 was replaced by RW-1R

X = Item Missing
B = Bolts Missing
NI = NOT INSPECTED

D = Damaged
OK = Acceptable Condition
*Part of Monitoring Program

RIVERBANK INSPECTION FORM
WEST BRANCH OF THE RAMAPO RIVER
MAYBROOK AND HARRIMAN TRUST
HARRIMAN, NEW YORK

DATE: 19-Mar-21 **INSPECTION (Check): ANNUAL** _____

INSPECTOR: Dan Wheeler **QUARTERLY** X

	STATUS	COMMENTS
IRM COVER AND SILT FENCE		
A. General condition of cover material	Good	Riverbank cover in good condition, no signs of erosion, no white material showing. (pictures included).
B. Settlement of covered area	Adequate	Potholes present in parking lot area, although pavement cover generally remains intact. (pictures included). 19 total potholes.
C. General condition of silt fence	N/A	Silt fence has been removed from stream bank per NYSDEC approval on January 12, 2016.

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SVE/VER Product Measurement Checklist

Recorded By: Dan Wheeler

Date: 3/19/2021

DTP	DTW
0	0
0	1.56
0	0.53
0	2.15

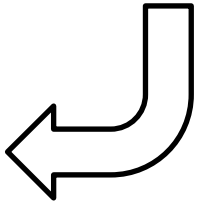


SVE-1
SVE-2
SVE-3
SVE-4



	DTP	DTW
VER-1	0	4.24
VER-2	0	3.41
VER-3	0	2.2
VER-4	0	2.69

To Entrance/Exit





N

NOTE: SVE wells are closer to the side of the road.
VER-1 and SVE-1 are both 4" wells. All others are 2" diameter.
Indicates absorbent sock in well.

Comments:

Wells checked for potential presence of product after absorbent socks removed.
Absorbent sock at 75% capacity at VER-2. Absorbent sock replaced.
Presence of product or sheen not observed in remaining wells.
* Botton of SVE-4 partially filled in during prior demolition work. (Bottom at 2.95 ft)

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_____

Representative Stream Bank Photos – March 19, 2021





Representative Photos of Potholes in Parking Lot – March 19, 2021





Representative Photos of Potholes in Parking Lot





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July 15, 2021

Parag Amin, P.E.
Project Manager, Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014

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- The interim cover along the West Branch of the Ramapo River was evaluated as a part of a site inspections performed on June 9, 2021. The interim cover remains in good condition. The cover vegetation is stable, well vegetated, and there are no signs of erosion. Representative photos are attached.

- The parking lot pavement remains generally intact and functioning as a cover. Pothole repairs were last made by ELT-Harriman, LLC in late March 2021. During the June 9, 2021 inspection the parking area was observed to be good condition with 5 small to medium potholes observed at random locations across the parking lot. Improved conditions were observed since the repairs completed in late March. Representative photos of the observed potholes are attached for reference.

- The quarterly well inspection report is also attached for reference. The monitoring well network in the routine five-quarter monitoring program remains in good condition and functional as noted in the attached summary tabulation from the June 9, 2021 inspection. New wells installed in August 2020, while not part of the five-quarter monitoring program, have been added to the inspection checklist.

- As described in the second quarter 2016 progress report, product was not observed on the absorbent socks in wells SVE-1, SVE-3, SVE-4, and VER-2 during the December 2015 and March 2016 inspections; therefore, the absorbent socks were removed during the June 2016 inspection, with the intent of checking the wells for sheen or product without the absorbent socks present. Since removal of the absorbent socks in June 2016, the wells have been checked during each inspection for evidence of product or sheen, both visually and with an interface probe, and during the April 2017 inspection, an absorbent sock was placed in VER-2 based on an observed sheen, and an absorbent sock remains in this well as noted in the attached inspection report. The sock in VER-2 was replaced during the June 30th 2020 inspection. Wells SVE-1, SVE-3, and SVE-4 continue to not have any evidence of product or sheen and, therefore, the Parties have discontinued the use of absorbent socks in these wells. During the June 9, 2021 inspection, neither product or sheen was observed in any of the SVE or VER wells. Cornerstone, on behalf of the Parties, previously sent a separate letter to the NYSDEC documenting the request to modify the use of absorbent socks. The request to discontinue use of the adsorbent socks and quarterly inspections of all SVE and VER wells except for VER-2 was subsequently approved via email dated July 17, 2020.

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The data provided in the attached groundwater monitoring report indicates consistency with prior results and may be summarized as follows:

- After shutdown of the biosparging system, the data continue to demonstrate an absence of groundwater impacts from the site-specific compounds pyridine, alpha picoline and 2-aminopyridine at the down-gradient property boundary. In addition, the site-related VOCs (benzene, ethylbenzene, toluene, and xylene [BETX compounds]) were not detected at the down-gradient property boundary.

- The site-related constituent, mercury, was also not detected in any of the monitoring wells except MW-24S, at a concentration of 0.26 ug/L, below the groundwater quality standard and consistent with prior results.

- Benzene concentrations in groundwater within the main plant area, as illustrated in the attached time series graphs, continue to indicate that conditions are at equilibrium since shutdown of the biosparging system. Overall, the benzene trend data show fluctuations typical of past results since shutdown of the biosparge system. For instance, monitoring wells MW-16S, MW-20S, MW-33, and MW-37S shown in the attached trend plot are collectively at low-level concentrations, well below historical levels, with the highest detected benzene concentration at 97 ug/L compared to historical levels in the mg/L range. Monitoring wells OW-6 and OW-7 continue to show benzene concentration fluctuations over time, but well below historical highs. Ongoing fluctuations in both groundwater levels and constituent concentrations are anticipated and are consistent with the site conceptual model of residual concentrations in the fine-grained materials at the site. Overall, the data are consistent with the beneficial effects of the past remediation activities, and where fluctuations in concentrations are observed they are consistent with fluctuations exhibited during operation of the biosparge system and are attributable to changes in precipitation and groundwater levels over time.

- The data continue to demonstrate that since shut down of the biosparging system, there is no evidence of an expansion of the plume or exceedance of groundwater quality standards at the down-gradient perimeter. Therefore, groundwater monitoring in accordance with the current program is anticipated to continue, and the next sampling event will be scheduled during the second quarter of 2022.

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As of May 14, 2010, the Parties had concluded all work and information transfer requested by the NYSDEC in connection with sampling and delineation of the calcium sulfate material in the Area B parking lot. The Parties, in conjunction with ELT-Harriman, LLC submitted a *Site-Wide Characterization Summary Report* on March 7, 2011. The Parties conduct both quarterly parking lot and riverbank inspections.

Separately, Nepera, Inc. and Warner-Lambert Company entered into a Stipulation and Order with the NYSDEC for a supplemental remedial investigation and feasibility study for portions of the Harriman Site, which was filed with the Court on December 17, 2013 and so-ordered by the Court on January 24, 2014.

As a supplemental effort outside the scope of the Consent Decree and the Stipulation and Order, the Parties and ELT-Harriman are coordinating with the NYSDEC on the preparation and implementation of a sampling work plan for emerging contaminants. A site meeting was held with representatives of the Parties, ELT-Harriman and NYSDEC to tour the site, observe current conditions and answer questions as applicable. A draft work plan was submitted to NYSDEC on August 1, 2019 and the NYSDEC provided comments via letter dated September 3, 2019. The Parties and ELT-Harriman acknowledged receipt of the comments and intent to revise the work plan in response to the comments by letter dated September 17, 2019. A revised Work Plan was submitted on October 2, 2019 and was subsequently approved by the NYSDEC by letter dated October 15, 2019. A schedule for implementation of the approved work plan was submitted on October 21, 2019 and field work associated with collection of soil samples for emerging contaminant analysis was completed January 8 through 10, 2020. In accordance with the approved Work Plan, a Work Plan Addendum was submitted on March 10, 2020. The Work Plan Addendum presents the results of the soil sampling and a proposed work plan for the investigation of emerging contaminants in groundwater. The NYSDEC provided comments on the Work Plan Addendum by letter dated May 19, 2020 and the Parties and ELT-Harriman responded to the comments by letter dated June 2, 2020. A revised Work Plan Addendum was submitted on June 19, 2020 and subsequently approved by NYSDEC by letter dated June 23, 2020. The additional work called for in the Work Plan Addendum was implemented during the third quarter of 2020 and a report was submitted to NYSDEC on January 29, 2021. The NYSDEC responded with questions/comments on the proposed additional investigation work by letter dated March 8, 2021. The Parties and ELT responded to these comments and submitted a revised report on April 12, 2021, which was subsequently approved by NYSDEC for implementation by letter dated May 17, 2021. The Parties are currently working to obtain access to off-Site properties (Harriman Park and 2 Commerce Drive) for monitoring well installation. Requests for access to off Site properties were first made February 26, 2021. In the April 12, 2021 response to comments letter referenced above, the Parties requested assistance from the Department in obtaining access to the 2 Commerce Drive property. Absent return of attempted phone calls by the Department to the property owner, the Department sent a certified letter to the property owner dated June 3, 2021. On June 7, 2021, Mr. John Frassetto of The Frassetto Companies, LLC contacted Tim Roeper of Cornerstone, PLLC to discuss access and a brief meeting was held on the morning of June 8, 2021 to discuss the location of a proposed monitoring well. At that time, Mr. Frassetto indicated they were reviewing the access

agreement and would respond over the next couple of weeks. In response to a follow up email on June 29, 2021, Mr. Frassetto indicated they were still reviewing the access agreement and would follow up after the July 4 Holiday. The Village of Harriman responded to requests for access by scheduling a conference call on May 20, 2021 and the Villages attorney is drafting an access agreement for review. Additional information was provided in response to questions from the Village on June 23, 2021 and we are awaiting a draft access agreement. Follow up emails and/or calls with both the Frassetto Companies and the Village of Harriman will continue as needed to finalize access agreements.

Representatives of the Parties and ELT-Harriman met with representatives of NYSDEC in Albany on October 22, 2019 to provide an overview of the various investigations and reports completed for the site to date and discuss the next steps required to progress with completion of Feasibility Study Report and closure of the site. Copies of the presentation made by the Parties and ELT-Harriman, as well as a reference list of completed reports and a summary of the site chronology were provided to the Department for future reference.

In November 2019, through a series of conference calls and emails, NYSDEC requested the completion of summary tables of analytical data by media, for samples collected to date. An outline of anticipated tables was provided by email dated December 19, 2019, with additional clarification provided by NYSDEC by email dated December 20, 2019. The Parties and ELT-Harriman completed the requested tables and figures and a link to download the files was sent via email dated May 6, 2020. A total of 22 tables and 4 figures were provided.

By letter dated December 6, 2019, NYSDEC provided comments on certain submissions, including matters relevant to the Parking Lot Feasibility Study. The Parties and ELT-Harriman jointly responded to the comments by letter from Brown & Caldwell Associates on January 17, 2020. In the May 6, 2020 email from Jeff Caputi of Brown & Caldwell transmitting the requested summary tables and figures (see above), a web-meeting was requested by the parties to discuss the outstanding issues and next steps needed to move forward with completing both the Parking Lot and Lagoon FS Reports. In response to this request, a web-meeting was held on June 18, 2020 and copies of the presentation and requested supporting information were sent via email dated June 19, 2020. The Department agreed to review the presented information and organized a web-meeting for September 24, 2020 during which the Department shared its position on several outstanding Site matters and heard the Parties' responses. The Department provided a draft meeting summary via email dated October 30, 2020 in which they summarized the discussion, collective agreement (where applicable) and remaining concerns or points of disagreement. The Parties responded to the draft meeting summary by letter dated January 29, 2021. The Department requested a consolidated figure of soil and sediment mercury results adjacent to the stream on June 28, 2021 indicating the request was to support their efforts to resolve some of the remaining questions with respect to the Parking Lot and Lagoon FS Reports. The Parties are working to respond to that request.

Activities for the 3rd Quarter 2021 (July – September 2021)

- Perform the regularly scheduled, quarterly monitoring well, parking lot, and riverbank inspections.
- Perform parking lot maintenance as needed.
- Implement the additionally proposed Emerging Contaminants work pending obtaining access to off-Site properties.

Please do not hesitate to contact us should you have questions or comments on any aspect of this progress report.

Sincerely,

Cornerstone Engineering and Geology, PLLC

Timothy R. Roeper, P.G.
Client Services Manager

Enclosures: Inspection Reports

cc: S. Levine
C. Clark
J. Jones
M. Robinson
K. Carpenter

Former Nepera Plant - Harriman, NY: Quarterly Well Inspection Report Date 6/9/2021

Monitoring Well	Diameter Inches	Finish	Collar	Lid	Plug	Lock	Tag	Casing	Comments	Action Items
MW-1S*	6	Stickup	OK	OK	OK	OK	OK	OK		
MW-2S	4	Stickup	OK	OK	OK	OK	OK	D	Casing is sheared off a few feet below top of ground.	No repair planned, well not in use, possible future abandonment
MW-3S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-4S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-5S*	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-7S*	4	Stickup	OK	OK	OK	OK	OK	OK	Well is behind chain link fence that leads up to the river bank. Well marked off with reflector and survey tape.	
MW-8S*	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-9S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-11S*	4	Stickup	OK	OK	OK	OK	OK	OK	Exercise caution: field mouse nest	
MW-12S*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-13S	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-16S*	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-20S*	4	Flushmount	OK	OK	OK	OK	OK	OK		
MW-21S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-24S*	4	Stickup	OK	OK	OK	OK	OK	OK	Well labeled with paint pen	
MW-25S*	4	Stickup	OK	OK	OK	OK	OK	OK	Well labeled with paint pen	
MW-27S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-33S*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-35S*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-36S	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-37S*	2	Flushmount	OK	OK	OK	OK	OK	OK		
OW-6	2	Stickup	OK	OK	OK	OK	OK	OK		
OW-7*	2	Stickup	OK	OK	OK	OK	OK	D	PVC inside well casing is detached. Rusted padlock	Exercise care when removing plug for sampling so as not to detach casing. Padlock lubricated

Former Nepera Plant - Harriman, NY: Quarterly Well Inspection Report Date 6/9/2021

Monitoring Well	Diameter Inches	Finish	Collar	Lid	Plug	Lock	Tag	Casing	Comments	Action Items
R-1	6		NI	NI	NI	NI	NI	NI	Well no longer exists	
RW-1**	6	Vault	NI	NI	NI	NI	NI	NI		
RW-1R*	6	Vault	OK	OK	OK	OK	OK	OK	Exercise caution: snakes in vault	
MW-53D*	4	Flushmount	OK	OK	OK	OK	OK	OK		
PZ-1	2	Stickup	OK	OK	OK	OK	OK	OK		
PZ-2	2	Flushmount	OK	OK	OK	OK	OK	OK	Well abandoned	
PZ-3	2	Flushmount	D	OK	OK	OK	OK	OK		Collar still secure
MW-15S	4	Stickup	OK	OK	OK	OK	OK	OK	Well abandoned	
MW-17S	4	Stickup	OK	OK	OK	OK	OK	D	Outer and inner casing repaired	
MW-19S	4	Stickup	OK	OK	OK	OK	OK	D	Well abandoned	
MW-22S(1)	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-23S(1)	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-26S	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-28S(2)	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-29S(2)	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-34	2	Flushmount	OK	OK	OK	OK	OK	OK	Can not access well due to placement of new faceplate.	Well not in use, no repair planned
MW-35AQ	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-36AQ	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-37AQ	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-53S	4	Flushmount	OK	OK	OK	OK	OK	OK		
PZ-4	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-6D*	4	Stickup	OK	OK	OK	OK	OK	OK	Well is behind a chain link fence that leads upto the river bank.	
MW-10D	6	Stickup	OK	OK	X	OK	OK	OK	No plug, tubing is tied off inside of well, Inner casing too far down to plug.	
MW-18D	6	Stickup	OK	OK	X	OK	OK	OK	Inner casing too far down to plug.	No repair planned, well not in use, possible future abandonment. New lock placed on outer casing.

Former Nepera Plant - Harriman, NY: Quarterly Well Inspection Report Date 6/9/2021

Monitoring Well	Diameter Inches	Finish	Collar	Lid	Plug	Lock	Tag	Casing	Comments	Action Items
MW-20D*	4	Flushmount	OK	OK	OK	OK	OK	OK		
MW-21D	4	Stickup	OK	OK	OK	OK	OK	OK	Exercise caution: yellow jacket nest	
MW-23D(1)*	4	Stickup	OK	OK	OK	OK	OK	OK		
MW-25D	4	Stickup	OK	OK	OK	OK	OK	OK	Well labeled with paint pen	
MW-26D*	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-27D*	6	Stickup	OK	OK	OK	OK	OK	OK		
R-2D	10	Stickup	NI	NI	NI	NI	NI	NI	Shed removed	Well not In use
R-3D	10	Stickup	OK	OK	X	X	OK	OK	Large metal plate covering well	
MW-101*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-102*	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-103*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-104*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-105*	2	Stickup	OK	OK	OK	OK	OK	OK		
MW-106*	2	Stickup	OK	OK	OK	OK	OK	OK		
20 DR*	2	Flushmount	OK	OK	OK	OK	OK	OK		
MW-201	2	Stickup	OK	OK	OK	OK	OK	OK	Well labeled with paint pen	
MW-202S	2	Stickup	OK	OK	OK	OK	OK	OK	Well labeled with paint pen	
MW-202D	2	Stickup	OK	OK	OK	OK	OK	OK	Well labeled with paint pen	
MW-203	2	Stickup	OK	OK	OK	OK	OK	OK	Well labeled with paint pen	
							Field Technician:		Daniel Wheeler	

New wells installed August 2020

(1) Off-Site Wells.
(2) Erosion Evaluation Wells
** RW-1 was replaced by RW-1R

X = Item Missing
B = Bolts Missing
NI = NOT INSPECTED

D = Damaged
OK = Acceptable Condition
*Part of Monitoring Program

RIVERBANK INSPECTION FORM
WEST BRANCH OF THE RAMAPO RIVER
MAYBROOK AND HARRIMAN TRUST
HARRIMAN, NEW YORK

DATE: 09-Jun-21 **INSPECTION (Check): ANNUAL** ____

INSPECTOR: Dan Wheeler **QUARTERLY** X

	STATUS	COMMENTS
IRM COVER AND SILT FENCE		
A. General condition of cover material	Good	Riverbank cover in good condition, no signs of erosion, no white material showing. Extremely high vegetation in area. (pictures included).
B. Settlement of covered area	Adequate	Potholes present in parking lot area, although pavement cover generally remains intact. (pictures included). 5 total potholes.
C. General condition of silt fence	N/A	Silt fence has been removed from stream bank per NYSDEC approval on January 12, 2016.

**** Fence damaged / cut adjacent to entrance gate to parking lot.**

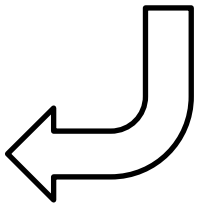
SVE/VER Product Measurement Checklist

Recorded By: Dan Wheeler

Date: 6/9/2021

DTP	DTW		
0	0.07		SVE-1
0	2.97		SVE-2
0	2.1		SVE-3
0	2.65		**SVE-4

		DTP	DTW
	VER-1	0	4.29
	*VER-2	0	4.47
	VER-3	0	4.22
	VER-4	0	3.94



To Entrance/Exit



NOTE: SVE wells are closer to the side of the road.
VER-1 and SVE-1 are both 4" wells. All others are 2" diameter.
Indicates absorbent sock in well.

Comments:

Wells checked for potential presence of product after absorbent socks removed.
*Absorbent sock at 25% capacity at VER-2. Absorbent sock not replaced.
Presence of product or sheen not observed in remaining wells.
* *Botton of SVE-4 partially filled in during prior demolition work. (Bottom at 2.65 ft)

_____

_____

Representative Stream Bank Photos – June 9, 2021





Representative Photos of Potholes in Parking Lot – June 9, 2021

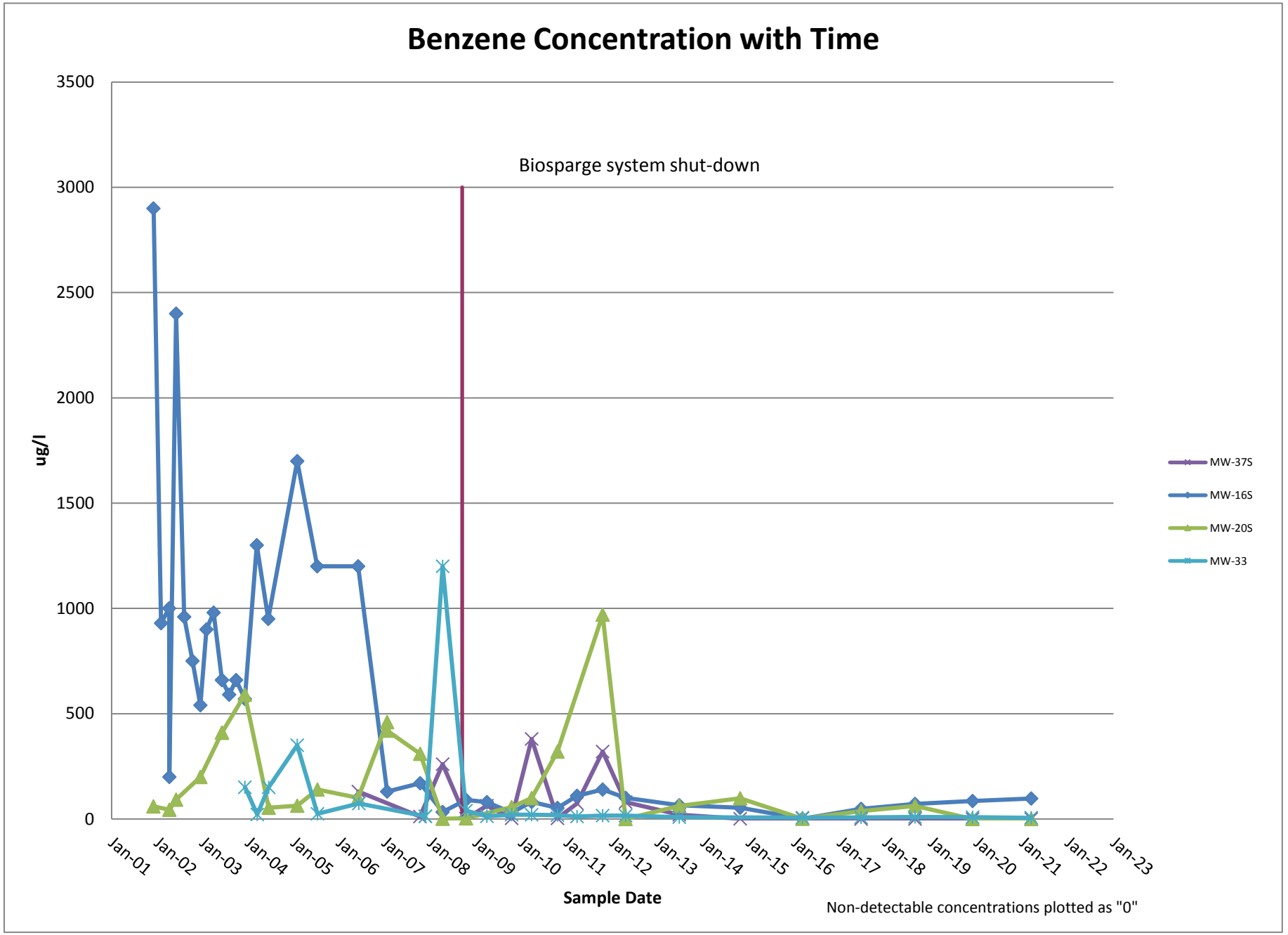


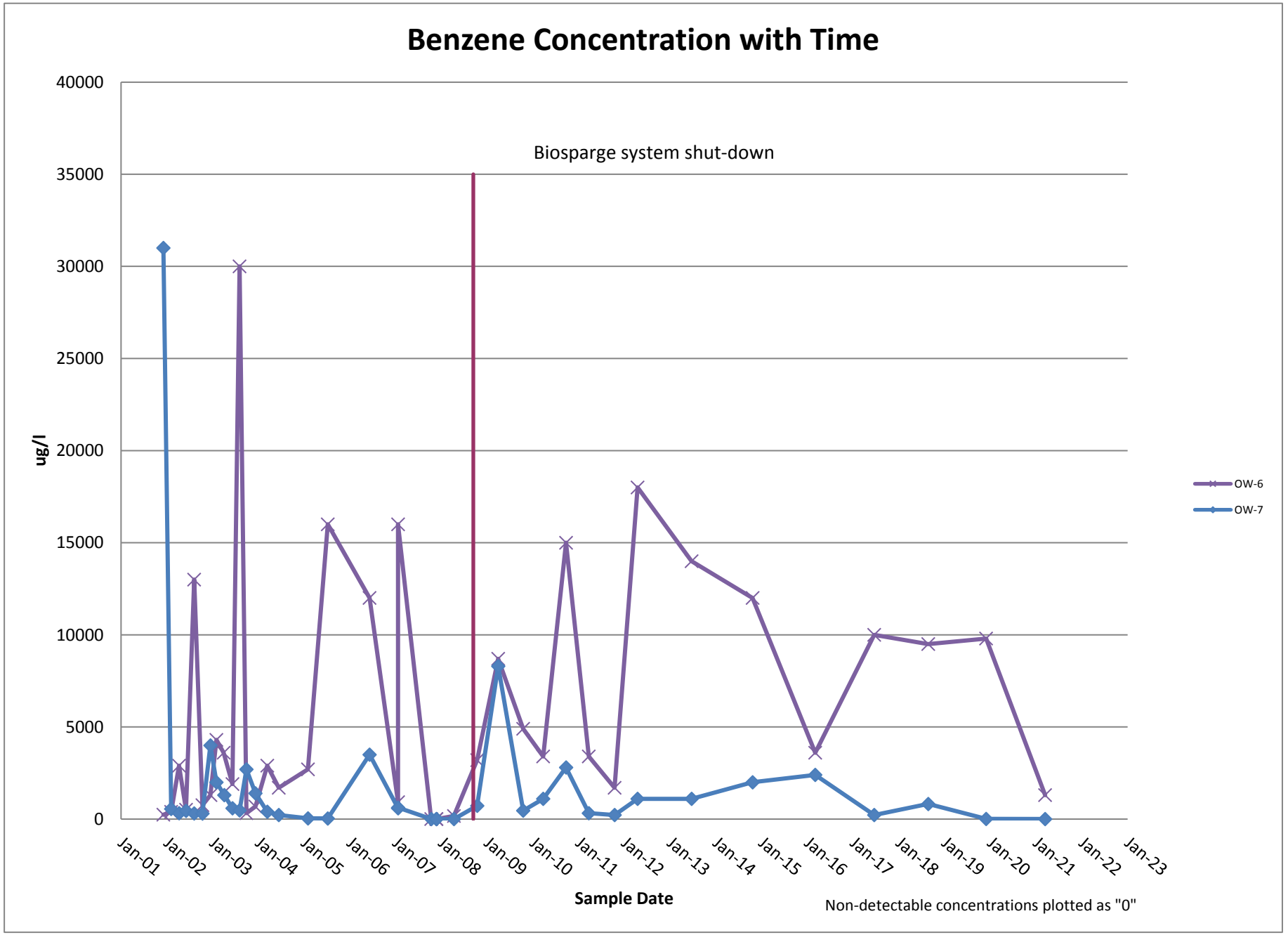


Representative Photos of Potholes in Parking Lot






Benzene Concentration with Time
3500
3000
2500
2000
1500
1000
500
0
ug/l
Biosparge system shut-down
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Jan-22
Jan-23
Sample Date
MW-37S
MW-16S
MW-20S
MW-33
Non-detectable concentrations plotted as "0"


Benzene Concentration with Time
Biosparge system shut-down
40000
35000
30000
25000
20000
15000
10000
5000
0
ug/l
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Jan-20
Jan-21
Jan-22
Jan-23
Sample Date
OW-6
OW-7
Non-detectable concentrations plotted as "0"

Groundwater Monitoring Report
Former Nepera Plant
Harriman, New York
March, 2021

Prepared for:

Nepera, Inc. and Warner Lambert Company LLC

Prepared by:

RNC Environmental Geology, P.C.
72 Bellerose Avenue
East Northport, NY 11731

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Appendices

Appendix 1. Groundwater Sampling Logs

Appendix 2. Electronic Water Level Indicator Calibration Procedures

Appendix 3. Statement of Procedures for the Calibration of Multi-Parameter Water Quality Monitoring System, Horiba U-22XD

Appendix 4. Laboratory Analytical Data

Groundwater Monitoring Report
Former Nepera Plant
Harriman, New York
March, 2021

Introduction

This report presents the results of groundwater monitoring activities performed at the Former Nepera Plant, Harriman, New York, March 29-31, 2021. The results of groundwater monitoring activities reported represent the fifteenth event completed following the shut-down of the onsite biosparge system, as approved by NYSDEC, pursuant to the *Conceptual Site Model and Supplemental Remedial Action Work Plan* (HydroQual, May, 2008). The scope-of-work performed is presented below. A description of monitoring procedures, quality assurance/quality control protocols and a summary of analytical results follows.

Scope of Work

The scope-of-work performed includes the following items:

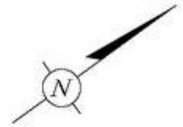
1) Measurement of groundwater levels in 34 select Overburden Aquifer wells.

2) Collection of groundwater samples from 29 monitoring wells installed within 2 hydrogeologic units identified beneath the Former Nepera Plant: *Overburden Aquifer* (MW-1S, MW-5S, MW-7S, MW-8S, MW-11S, MW-12S, MW-16S, MW-20S, MW-24S, MW-25S, MW-33S, MW-35S, MW-37S, OW-6, OW-7, RW-1R, MW-53D, MW-101, MW-102, MW-103, MW-104, MW-105 & MW-106); *Bedrock Aquifer* (MW-6D, MW-20D, MW-23D, MW-26D, MW-27D & MW-20DR).

3) Analysis of all collected groundwater samples for *volatile organic compounds* (benzene, toluene, ethylbenzene and xylenes) and *semi-volatile organic compounds* (pyridine, alpha-picoline and 2-aminopyridine); and select ground water samples for *general chemistry* parameters (iron, manganese, sulfate, nitrate, ammonia and mercury).

Monitoring well locations are depicted in Figure 1.





LEGEND

- MONITORING WELL IN OVERBURDEN AQUIFER (SAND/GRAVEL)
- MONITORING WELL IN BEDROCK AQUIFER

Title: Monitoring Well Location Map

Project: Neperalnc. Harriman,NewYork

Date: 11/05/08

Figure: 1

Scale: As Shown

Drawing No.: NI1008-01

Prepared By: MAC

Appr.By: RNC

RNC Environmental Geology, P.C.

Professional Groundwater and Environmental Services

171 Deer Park Ave Suite 3
Babylon, New York 11702

Monitoring Procedures

Groundwater Level Measurements

The depth-to-water in 34 select Overburden Aquifer monitoring wells was measured December 11, 2019 between the hours of 0945 and 1215 utilizing an electronic water level indicator accurate to within 0.01 feet. Table 1 presents measurements recorded and correlated to mean sea level (via existing reported measuring point elevations).

Groundwater Sampling

Prior to beginning groundwater sampling activities, the concentration of volatile organic compounds within the head-space of on-site monitoring wells, if any, was measured using a photoionization detector (PID) capable of detecting a vapor-phase concentration to within 1 part per million (ppm).

Groundwater sampling methodology includes low-flow purging and the subsequent collection of samples upon the stabilization of measured and recorded field parameters: oxidation-reduction potential, pH, conductivity, temperature, dissolved oxygen and turbidity. A submersible centrifugal pump (Grundfos Redi-Flo2), placed at well-screen (or open borehole) depth with per-well dedicated tubing, was used for both purging and sample collection. Field parameters were measured using a Horiba U-22XD multi-parameter water quality monitoring system and flow-through cell. In addition, all collected samples were field-analyzed for iron+2 via a Hach 1R-18C Test Kit.

As a means to negate the potential for cross-well contamination, the Grundfos Redi-Flo2 was cleaned internally and externally with an Alconox and water solution, followed by a fresh water rinse, between monitoring locations. Furthermore, groundwater samples were collected in the following progression: 1) downgradient (with respect to groundwater flow) perimeter monitoring wells; 2) monitoring wells associated with historically non-detect groundwater analyses; and 3) monitoring wells associated with the historically most impacted groundwater analyses.

Following the completion of each daily sampling event, collected samples were submitted under chain-of-custody control to New York State Certified TestAmerica Analytical Laboratories.

Table 1

Basic Hydrologic Data
Nepera Harriman Site, Harriman, NY
Measured March 29, 2021

Well Number	Measuring Point (feet above MSL)	Depth to Water (feet)	Water Level (feet above MSL)	Screen Interval (feet above and below MSL)
MW-1S	522.77	6.57	516.20	507.77-497.77
MW-2S	530.58	1.82	528.76	518.08-508.08
MW-3S	525.70	1.93	523.77	510.70-500.70
MW-4S	524.74	1.25	523.49	482.24-472.24
MW-5S	535.26	10.49	524.77	500.26-490.26
MW-7S	524.69	4.73	519.96	498.69-488.69
MW-8S	526.24	1.55	524.69	461.24-456.24
MW-9S	529.59	3.51	526.08	515.59-508.59
MW-11S	527.44	2.43	525.01	482.44-477.44
MW-12S	530.21	4.70	525.51	505.21-495.21
MW-13S	530.36	4.95	525.41	503.36-493.36
MW-16S	*	7.75	NA	499.71-489.71
MW-20S	528.61	0.42	528.19	511.61-501.61
MW-21S	544.67	14.25	530.42	529.67-519.67
MW-24S	527.86	7.34	520.52	520.36-510.36
MW-25S	535.16	6.00	529.16	512.16-507.16
MW-27S	535.09	10.27	524.82	505.09-500.09
MW-33S	535.74	4.13	531.61	531.74-516.74
MW-35S	524.92	2.91	522.01	499.42-489.42
MW-36S	525.33	3.26	522.07	500.33-490.33
MW-37S	524.99	1.07	523.92	510.99-500.99
OW-6	534.51	4.76	529.75	514.51-504.51
OW-7	534.82	5.33	529.49	514.82-504.82
RW-1R	529.78	7.16	522.62	481.78-473.78
MW-53D	532.31	4.64	527.67	485.31-475.31
PZ-1	544.46	13.21	531.25	517.46-512.46
PZ-2	531.86	Abandoned		483.86-478.86
PZ-3	525.49	3.57	521.92	495.49-490.49
MW-101	525.94	4.63	521.31	28.00-33.00
MW-102	522.53	4.32	518.21	10.00-20.00
MW-103	533.52	7.10	526.42	50.00-60.00
MW-104	525.63	0.75	524.88	54.00-64.00
MW-105	528.22	3.37	524.85	63.50-68.50
MW-106	533.68	11.12	522.56	38.00-48.00

Notes:

Measured 06:45 - 09:00

*Measuring point compromised

Observations

Groundwater Sampling Logs documenting, volatile organic compounds, if any, detected within the head-space of on-site monitoring wells, field parameters measured during well-purging activities and the physical characteristics (e.g., color, odor) of sampled groundwater are presented in Appendix 1,

Quality Assurance/Quality Control

Groundwater Level Measurements

The electronic water level indicator utilized was calibrated as shown in: *Electronic Water Level Indicator Calibration Procedures* (see Appendix 2) prior to commencing groundwater level measuring activities

Groundwater Sampling

Prior to each daily sampling event, the Horiba U-22XD multi-parameter water quality monitoring system utilized during groundwater sampling activities was calibrated as described in: *Statement of Procedures for the Calibration of Multi-Parameter Water Quality Monitoring System, Horiba U-22XD*, presented in Appendix 3. In addition, a field blank (FB-1) was collected to assure the integrity of sampling equipment and procedures.

Groundwater Analysis

Laboratory analytical reports in relation to each of the three daily groundwater sampling events are presented in Appendix 4. Included in the reports are Case Narratives (conformance/nonconformance summary) of QA/QC procedures practiced by Eurofins TestAmerica Analytical Laboratories. These procedures include instrument calibrations, analyses of method blanks, matrix spike blanks, and the percent-recovery of surrogates (system monitoring compounds).

As a means to assess potential sources of contamination in sample container preparation, method blank water and sample transport, trip blanks (TB-1, TB-2, TB-3) - representative of each daily sampling event - were analyzed for volatile organic compounds. The accuracy of reported analytical results was also evaluated via the analysis of a blind duplicate (DUP) collected from monitoring well OW-6.

Summary of Analytical Results

QA/QC Samples

Volatile organic compounds were not detected in any of the three daily trip blanks. Furthermore, neither volatile organic compounds, semi-volatile organic compounds or general chemistry parameters were detected in the aforementioned field blank. Additionally, analytical results in relation to groundwater sample OW-6 and blind duplicate sample DUP are similar. Consequently, the results of groundwater analyses summarized below are considered valid.

Volatile Organic Compounds

Analytical results for volatile organic compounds - including comparisons with New York State Department of Environmental Conservation (NYSDEC) Class GA Groundwater Standards - are presented on Table 2.

Semi-Volatile Organic Compounds

Analytical results for semi-volatile organic compounds (NYSDEC Class GA Groundwater Standards not established) are presented in Table 3.

General Chemistry

Analytical results for general chemistry parameters - including comparisons with NYSDEC Class GA Groundwater Standards - are presented on Table 4.

Conclusions

The results of April, 2021 groundwater monitoring activities summarized above are similar with those of recent events. Groundwater beneath the central portion of the Former Nepera Plant continues to be impacted, however, the contaminants of concern (e.g., volatile organic compounds), remain confined to the former manufacturing areas and are either not detected, or detected below groundwater standards in groundwater sampled from perimeter wells.

The next sampling event is scheduled for September, 2022. Analytical parameters will consist of BTEX compounds, select SVOC's and general chemistry parameters consistent with those reported herein.

Table 2
Summary of Analytical Results
Former Nepera Plant, Harriman, NY
Sampled March 29-31, 2021
Volatile Organic Compounds
Reported in Micrograms per Liter (µg/L)

	Benzene	Toluene	Ethylbenzene	Xylenes, (Total)
Overburden Aquifer Wells				
MW-1S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-5S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-7S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-8S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-11S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-12S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-16S	**97.00**	0.45 J	ND(0.30)	1.3 J
MW-20S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-24S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-25S	**1.40**	ND(0.38)	ND(0.30)	ND(0.65)
MW-33S	**6.20**	ND(0.38)	ND(0.30)	0.65 J
MW-35S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-37S	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
OW-6	**1,300.00**	ND(1.90)	ND(1.50)	ND(3.30)
OW-7	**5.10**	ND(0.38)	ND(0.30)	ND(0.65)
RW-1R	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-53D	**1.30**	ND(0.38)	ND(0.30)	ND(0.65)
MW-101	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-102	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-103	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-104	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-105	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-106	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
Bedrock Wells				
MW-6D	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-20D	**11.00**	ND(0.38)	0.48 J	ND(0.65)
MW-23D	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-26D	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
MW-27D	ND(0.20)	ND(0.38)	ND(0.30)	2.80
MW-20DR	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
QA/QC				
TB-1	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
TB-2	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
TB-3	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
FB-1	ND(0.20)	ND(0.38)	ND(0.30)	ND(0.65)
DUP	**1,300.00**	ND(1.90)	ND(1.50)	ND(3.30)
NYSDEC Class GA Standard	***1.0***	***5.0***	***5.0***	***5.0***

Notes:

ND( ): *Compound not detected at the method detection limit*

J: *Indicates an estimated value*

NYSDEC Class GA Standards: *New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per August 1999 Amendment)*

B: Analyte found in an associated blank

Table 3
Summary of Analytical Results
Former Nepera Plant, Harriman, NY
Sampled March 29-31, 2021
Semi-Volatile Organic Compounds
Reported in Micrograms per Liter (µg/L)

	Pyridine	alpha-Picoline	2-Aminopyridine
Overburden Aquifer Wells			
MW-1S	ND(0.41)	ND(1.40)	ND(10.00)
MW-5S	ND(0.47)	ND(1.60)	ND(11.00)
MW-7S	ND(0.41)	ND(1.40)	ND(10.00)
MW-8S	ND(0.41)	ND(1.40)	ND(10.00)
MW-11S	ND(0.41)	ND(1.40)	ND(10.00)
MW-12S	ND(0.41)	ND(1.40)	ND(10.00)
MW-16S	ND(0.41)	53.0 J	ND(10.00)
MW-20S	ND(0.41)	ND(1.40)	ND(10.00)
MW-24S	ND(0.41)	ND(1.40)	ND(10.00)
MW-25S	ND(0.49)	ND(1.7)	ND(12.00)
MW-33S	ND(0.41)	ND(1.4)	ND(10.00)
MW-35S	ND(0.41)	ND(1.40)	ND(10.00)
MW-37S	ND(0.41)	ND(1.40)	ND(10.00)
OW-6	ND(4.7)	140.0 J	ND(110.00)
OW-7	ND(0.41)	ND(1.40)	ND(10.00)
RW-1R	ND(0.41)	ND(1.4)	ND(10.00)
MW-53D	ND(2.10)	ND(7.00)	ND(50.00)
MW-101	ND(0.41)	ND(1.40)	ND(10.00)
MW-102	ND(0.41)	ND(1.40)	ND(10.00)
MW-103	ND(0.41)	ND(1.4)	ND(10.00)
MW-104	ND(2.1)	ND(7.00)	ND(50.00)
MW-105	ND(0.41)	ND(1.40)	ND(10.00)
MW-106	ND(0.41)	ND(1.40)	ND(10.00)
Bedrock Wells			
MW-6D	ND(0.41)	ND(1.40)	ND(10.00)
MW-20D	0.55 J	9.6 J	ND(10.0)
MW-23D	ND(0.41)	ND(1.40)	ND(10.00)
MW-26D	ND(0.43)	ND(1.50)	ND(10.00)
MW-27D	ND(0.41)	ND(1.40)	ND(10.00)
MW-20DR	ND(0.47)	ND(1.6)	ND(11.00)
QA/QC			
FB-1	ND(0.41)	ND(1.40)	ND(10.00)
DUP	0.50 J	190.0 J	ND(10.00)
NYSDEC Class GA Standard	***NS***	***NS***	***NS***

Notes:

ND( ): *Compound not detected at the method detection limit*

J: *Indicates an estimated value*

NYSDEC Class GA Standards: *New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per August 1999 Amendment)*

NS: *No NYSDEC Standard Established*

B: Analyte found in an associated blank

Table 4
Summary of Analytical Results
Former Nepera Plant, Harriman, NY
Sampled March 29-31, 2021
General Chemistry

	Iron (µg/L)	Manganese (µg/L)	Sulfate (mg/L)	Nitrate (mg/L)	Ammonia (mg/L)	Mercury (µg/L)
Overburden Aquifer Wells						
MW-1S	**5,180.00**	**696.00**	31.00	0.680	**23.60**	NA
MW-8S	**8,000.00**	**602.00**	14.70	0.028 J	**9.10**	NA
MW-11S	**1,120.00**	**637.00**	10.40	0.034 J	**18.00**	NA
MW-16S	**6,710.00**	**387.00**	1.15	ND(0.021)	**22.20**	NA
MW-20S	**3,140.00**	**1,390.00**	72.60	0.096 J	0.16	NA
MW-24S	**468.00**	134.00	**823.00**	0.110	0.57	0.26
MW-25S	**5,830.00**	**1,650.00**	12.50	ND(0.021)	**22.20**	NA
MW-33S	**32,800.00**	**880.00**	24.70	ND(0.021)	**194.00**	NA
MW-35S	**8,150.00**	**2,660.00**	**860.00**	0.026 J	0.82	NA
MW-37S	**9,400.00**	**1,840.00**	**198.00**	0.039 J	**7.70**	NA
OW-6	**58,900.00**	**3,250.00**	53.40	0.037 J	**17.50**	NA
OW-7	**30,200.00**	**1,130.00**	9.64	0.320	0.66	NA
RW-1R	**26,500.00**	147.00	**536.00**	0.190	**5.10**	NA
MW-53D	**4,620.00**	**457.00**	8.37	0.051 J	**26.80**	NA
MW-101	**1,740.00**	**1,420.00**	271.00	ND(0.021)	**14.40**	NA
MW-102	**4,320.00**	**1,190.00**	42.10	0.025 J B	**10.80**	NA
MW-103	**379.00**	64.70	18.90	0.57	0.089 J	NA
MW-104	**1,950.00**	**1,330.00**	20.70	ND(0.021)	**2.10**	NA
MW-105	**25,700.00**	**2,250.00**	16.90	ND(0.021)	2.00	NA
MW-106	**341.00**	189.00	27.10	4.10	ND(0.50)	NA
QA/QC						
FB-1	ND(80.8)	ND(0.76)	ND(0.16)	ND(0.021)	ND(0.050)	NA
DUP	**44,700.00**	**3,550.00**	54.30	0.021 J	**18.60**	NA
NYSDEC Class GA Standard	***300.0***	***300.0***	***250.0***	***10.0***	***2.0***	***0.7***

Notes:

ND( ): *Compound not detected at the method detection limit*

J: *Indicates an estimated value*

NYSDEC Class GA Standards: *New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per August 1999 Amendment)*

NS: *No NYSDEC Standard Established*

NA: *Not Applicable*

B: Analyte found in an associated blank

APPENDIX 1

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-1S	Meter Number:	511017
Date:	3/29/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 43° F		

WELL INFORMATION

Well Depth (ft):	22.56
Water Level Depth (ft):	6.57
Pumping Water Depth (ft):	6.93
Well Diameter (in):	6.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	15.99
Volume of Water in Well (gal):	23.49
Total Volume Purged (ml):	6,250
Duration of Pumping (min):	25
Odor:	Pungent
Color:	Light Grey
Fe^{+2} (mg/L):	0.1

EVACUATION INFORMATION

Purge Method: Low-Flow

Pump On: 9:35 Pump Off: 10:00

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
9:41	250	6.69	7.50	930	36.0	8.3	10.8	23
9:47	250	6.83	7.52	1,000	22.3	6.0	10.7	10
9:54	250	6.90	7.55	1,012	11.9	5.2	10.7	4
10:00	250	6.93	7.56	1,014	11.3	5.2	10.7	4

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-5S	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	47.30
Water Level Depth (ft):	10.49
Pumping Water Depth (ft):	11.27
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	36.81
Volume of Water in Well (gal):	24.04
Total Volume Purged (ml):	6,000
Duration of Pumping (min):	20
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low-Flow

Pump On: 10:45 Pump Off: 11:05

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
10:50	300	10.89	7.91	2,100	2.1	9.8	10.7	-27
10:55	300	11.18	7.95	1,832	0.8	9.0	10.8	-25
11:00	300	11.24	7.98	1,644	0.4	8.8	10.9	-25
11:05	300	11.27	8.00	1,507	0.2	8.8	10.9	-25

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-6D	Meter Number:	511017
Date:	3/29/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 43° F		

WELL INFORMATION

Well Depth (ft):	182.00
Water Level Depth (ft):	10.21
Pumping Water Depth (ft):	11.00
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	171.79
Volume of Water in Well (gal):	112.18
Total Volume Purged (ml):	3,000
Duration of Pumping (min):	20
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Bailed

Pump On: 10:45 Pump Off: 11:00

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
10:49	150	10.72	8.59	175	4.1	4.7	10.4	30
10:52	150	10.91	8.63	179	2.6	4.9	10.5	29
10:56	150	10.98	8.70	182	2.0	5.3	10.5	27
11:00	150	11.00	8.73	184	1.9	5.3	10.6	25

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-7S	Meter Number:	511017
Date:	3/29/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 43° F		

WELL INFORMATION

Well Depth (ft):	35.70
Water Level Depth (ft):	4.73
Pumping Water Depth (ft):	4.89
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	30.97
Volume of Water in Well (gal):	20.22
Total Volume Purged (ml):	2,250
Duration of Pumping (min):	15
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Bailed

Pump On: 10:30 Pump Off: 10:45

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
10:34	150	4.78	7.98	206	2.7	5.8	10.7	23
10:38	150	4.79	7.94	200	2.0	5.5	10.7	25
10:41	150	4.84	7.90	195	1.2	5.3	10.7	27
10:45	150	4.89	7.89	195	0.9	5.2	10.7	29

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-8S	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	68.60
Water Level Depth (ft):	1.55
Pumping Water Depth (ft):	1.91
Well Diameter (in):	4.00
Well Condition:	Overgrown
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	67.05
Volume of Water in Well (gal):	43.78
Total Volume Purged (ml):	7,500
Duration of Pumping (min):	25
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 9:20 Pump Off: 9:40

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
9:25	300	1.78	6.80	1,211	30.1	2.6	10.4	-67
9:30	300	1.81	6.73	1,090	15.1	2.1	10.4	-62
9:35	300	1.88	6.50	1,003	14.0	1.2	10.5	-58
9:40	300	1.91	6.48	1,004	12.9	1.1	10.6	-58

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-11S	Meter Number:	511017
Date:	3/29/21	Notes:	
Sampling Personnel:	RNC & SL		
Weather:	Cloudy, 43° F		

WELL INFORMATION

Well Depth (ft):	50.65
Water Level Depth (ft):	2.43
Pumping Water Depth (ft):	2.87
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	48.22
Volume of Water in Well (gal):	31.49
Total Volume Purged (L):	7,500
Duration of Pumping (min):	25
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 12:15 Pump Off: 12:40

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
12:21	300	2.69	7.33	900	1.8	4.9	10.9	61
12:28	300	2.77	7.30	910	0.9	2.9	10.9	47
12:34	300	2.85	7.29	916	0.7	2.3	11.0	34
12:40	300	2.87	7.28	919	0.2	2.3	11.1	32

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-12S	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	34.90
Water Level Depth (ft):	4.70
Pumping Water Depth (ft):	4.93
Well Diameter (in):	2.00
Well Condition:	Overgrown
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	30.20
Volume of Water in Well (gal):	4.92
Total Volume Purged (ml):	3,750
Duration of Pumping (min):	25
Odor:	Slight
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 8:30 Pump Off: 8:50

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
8:35	150	4.79	8.19	899	10.2	4.9	10.7	-164
8:40	150	4.84	8.13	901	3.2	3.4	10.8	-169
8:45	150	4.89	8.09	902	0.9	2.9	10.9	-174
8:50	150	4.93	8.07	904	0.7	2.8	10.9	-175

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-16S	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	46.20
Water Level Depth (ft):	7.75
Pumping Water Depth (ft):	8.02
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	1.30

WELL WATER INFORMATION

Length of Water Column (ft):	38.45
Volume of Water in Well (gal):	25.11
Total Volume Purged (ml):	4,000
Duration of Pumping (min):	20
Odor:	Slightly Pungent
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 10:50 Pump Off: 11:10

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
10:55	200	7.89	7.81	865	11.9	4.6	10.8	-39
11:00	200	7.95	7.79	871	11.8	3.1	11.0	-87
11:05	200	7.99	7.77	879	9.0	1.5	11.2	-120
11:10	200	8.02	7.77	881	8.1	1.4	11.2	-120

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-20S	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	27.51
Water Level Depth (ft):	0.42
Pumping Water Depth (ft):	0.63
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	27.09
Volume of Water in Well (gal):	17.69
Total Volume Purged (ml):	4,000
Duration of Pumping (min):	20
Odor:	Slighty Pungent
Color:	Clear
Fe^{+2} (mg/L):	0.2

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 8:30 Pump Off: 8:50

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
8:35	200	0.56	7.72	450	7.3	2.8	10.2	135
8:40	200	0.59	7.71	447	2.1	2.4	10.1	134
8:45	200	0.61	7.69	447	1.0	2.0	10.1	130
8:50	200	0.63	7.69	445	0.7	2.0	10.1	130

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-20D	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	82.75
Water Level Depth (ft):	0.31
Pumping Water Depth (ft):	0.69
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	82.44
Volume of Water in Well (gal):	53.83
Total Volume Purged (ml):	4,000
Duration of Pumping (min):	20
Odor:	Slightly Pungent
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 9:20 Pump Off: 9:40

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
9:25	200	0.42	8.01	1,480	15.3	3.1	11.7	-91
9:30	200	0.59	7.80	1,460	9.2	2.8	11.8	-100
9:35	200	0.67	7.69	1,400	4.1	1.4	11.9	-108
9:40	200	0.69	7.68	1,390	2.8	1.4	11.9	-108

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-20DR	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	97.25
Water Level Depth (ft):	4.32
Pumping Water Depth (ft):	5.01
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	93.30
Volume of Water in Well (gal):	15.21
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	25
Odor:	Slightly Pungent
Color:	Clear
Fe^{+2} (mg/L):	0.1

EVACUATION INFORMATION

Purge Method: Low-flow

Pump On: 8:00 Pump Off: 8:25

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
8:06	200	4.40	8.21	402	0.8	4.2	9.6	120
8:15	200	4.75	8.10	400	0.6	4.0	9.6	123
8:20	200	4.89	8.05	398	0.5	3.7	9.7	126
8:25	200	5.01	8.01	396	0.3	3.6	9.8	126

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-23D	Meter Number:	511017
Date:	3/29/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 43° F		

WELL INFORMATION

Well Depth (ft):	103.00
Water Level Depth (ft):	5.50
Pumping Water Depth (ft):	5.78
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	97.50
Volume of Water in Well (gal):	63.67
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 11:40 Pump Off: 12:00

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
11:45	250	5.60	6.99	577	6.1	8.90	10.0	22
11:50	250	5.68	7.08	543	2.9	8.50	10.0	26
11:55	250	5.74	7.14	491	1.6	8.10	10.1	27
12:00	250	5.78	7.16	485	1.1	7.90	10.1	28

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-24S	Meter Number:	511017
Date:	3/29/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 43° F		

WELL INFORMATION

Well Depth (ft):	19.70
Water Level Depth (ft):	7.34
Pumping Water Depth (ft):	8.12
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	12.36
Volume of Water in Well (gal):	8.07
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	25
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.1

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 8:30 Pump Off: 8:55

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
8:36	200	7.67	6.92	266	1.9	3.0	10.0	235
8:43	200	7.89	6.98	268	1.2	2.1	9.5	245
8:49	200	8.09	7.01	270	0.8	2.1	9.3	243
8:55	200	8.12	7.01	270	0.2	2.1	9.2	240

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-25S	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	30.85
Water Level Depth (ft):	6.00
Pumping Water Depth (ft):	6.41
Well Diameter (in):	4.00
Well Condition:	Good
PID Reading (ppm):	5.50

WELL WATER INFORMATION

Length of Water Column (ft):	24.85
Volume of Water in Well (gal):	16.23
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	Slightly Pungent
Color:	Clear
Fe^{+2} (mg/L):	0.3

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 11:20 Pump Off: 11:40

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
11:25	250	6.30	6.09	817	7.8	4.0	10.8	-53
11:30	250	6.35	6.36	808	3.6	3.9	10.8	-55
11:35	250	6.39	6.45	806	1.8	1.2	10.7	-62
11:40	250	6.41	6.40	805	1.2	1.2	10.7	-62

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-26D	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	141.75
Water Level Depth (ft):	14.60
Pumping Water Depth (ft):	15.07
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	127.15
Volume of Water in Well (gal):	20.73
Total Volume Purged (ml):	4,000
Duration of Pumping (min):	20
Odor:	Slightly Pungent
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 11:50 Pump Off: 12:10

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
		ft	units	uS/cm	NTU	mg/l	°C	mV
11:55	200	14.81	8.71	344.0	2.1	9.5	13.4	31
12:00	200	14.93	8.90	333.0	2.7	6.3	13.1	34
12:05	200	14.99	8.94	333.0	1.9	3.6	13.0	28
12:10	200	15.07	8.96	333.0	1.7	3.5	13.0	28

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-27D	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	101.88
Water Level Depth (ft):	11.04
Pumping Water Depth (ft):	11.04
Well Diameter (in):	6.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	90.84
Volume of Water in Well (gal):	133.44
Total Volume Purged (ml):	2,000
Duration of Pumping (min):	20
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Bailed

Pump On: 11:10 Pump Off: 11:30

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
11:15	100	11.04	7.09	279	6.9	7.3	11.0	-72
11:10	100	11.04	7.02	270	2.1	7.2	11.0	-72
11:25	100	11.04	6.90	269	1.4	7.1	11.0	-70
11:30	100	11.04	6.89	269	1.2	7.1	11.0	-70

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-33S	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	16.40
Water Level Depth (ft):	4.13
Pumping Water Depth (ft):	4.47
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	12.27
Volume of Water in Well (gal):	2.00
Total Volume Purged (ml):	3,000
Duration of Pumping (min):	20
Odor:	Pungent
Color:	Dark Grey
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 8:55 Pump Off: 9:15

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
9:00	150	4.33	7.79	1,858	83.0	4.1	9.7	-107
9:05	150	4.38	7.51	1,850	81.9	3.6	9.7	-106
9:10	150	4.41	7.36	1,900	77.2	3.2	9.7	-104
9:15	150	4.47	7.34	1,777	73.6	3.1	9.7	-104

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-35S	Meter Number:	511017
Date:	3/29/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 43° F		

WELL INFORMATION

Well Depth (ft):	19.20
Water Level Depth (ft):	2.91
Pumping Water Depth (ft):	3.31
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	16.29
Volume of Water in Well (gal):	2.66
Total Volume Purged (ml):	4,000
Duration of Pumping (min):	20
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	1.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 11:10 Pump Off: 11:30

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
11:15	200	3.00	7.01	1,360	12.9	4.5	9.2	-20
11:20	200	3.11	6.99	1,360	10.8	3.1	8.9	-23
11:25	200	3.20	6.77	1,380	8.9	2.8	8.9	-23
11:30	200	3.31	6.75	1,380	6.8	2.8	8.8	-24

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-37S	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	23.35
Water Level Depth (ft):	1.07
Pumping Water Depth (ft):	1.69
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	22.28
Volume of Water in Well (gal):	3.63
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	Slightly Pungent
Color:	Clear
Fe^{+2} (mg/L):	1.0

EVACUATION INFORMATION

Purge Method: Low-Flow

Pump On: 10:20 Pump Off: 10:40

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
10:25	250	1.21	8.06	1,010	7.7	1.7	10.0	-101
10:30	250	1.43	7.76	1,130	2.1	1.0	9.8	-103
10:35	250	1.51	7.71	1,140	0.5	0.9	9.7	-104
10:40	250	1.69	7.70	1,140	0.4	0.9	9.7	-104

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	OW-6	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	39.20
Water Level Depth (ft):	4.76
Pumping Water Depth (ft):	5.19
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	5.10

WELL WATER INFORMATION

Length of Water Column (ft):	34.44
Volume of Water in Well (gal):	5.61
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	Pungent
Color:	Dark Grey
Fe^{+2} (mg/L):	1.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 12:10 Pump Off: 12:30

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
12:15	250	4.99	8.11	401	43.2	2.9	10.8	8
12:20	250	5.08	8.05	378	41.0	2.7	10.8	6
12:25	250	5.12	8.00	331	37.9	2.5	10.7	3
12:30	250	5.19	7.99	325	36.3	2.5	10.7	3

Purge Water Disposition: Contained

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	OW-7	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	30.91
Water Level Depth (ft):	5.33
Pumping Water Depth (ft):	5.84
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	25.58
Volume of Water in Well (gal):	4.17
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	Slightly Pungent
Color:	Light Brown
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 11:45 Pump Off: 12:05

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
11:50	250	5.68	8.12	296	26.5	2.5	10.8	11
11:55	250	5.74	8.07	297	25.5	2.2	10.8	9
12:00	250	5.80	7.94	298	22.9	2.1	10.8	8
12:05	250	5.84	7.93	298	21.8	2.0	10.7	8

Purge Water Disposition: Contained

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	RW-1R	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	56.20
Water Level Depth (ft):	7.16
Pumping Water Depth (ft):	7.38
Well Diameter (in):	6.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	49.04
Volume of Water in Well (gal):	72.04
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	Pungent
Color:	Light Grey
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 10:15 Pump Off: 10:35

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	%	°C	mV
10:20	250	7.21	8.10	1,120	51.9	5.4	11.2	2
10:25	250	7.27	8.09	1,110	41.0	4.9	11.2	-2
10:30	250	7.31	8.05	1,090	38.6	3.4	11.1	-6
10:35	250	7.38	8.03	1,090	35.1	3.4	11.1	-7

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-53D	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	55.10
Water Level Depth (ft):	4.64
Pumping Water Depth (ft):	5.52
Well Diameter (in):	4.00
Well Condition:	Overgrown
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	50.46
Volume of Water in Well (gal):	32.95
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low Flow

Pump On: 9:50 Pump Off: 10:10

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
9:55	250	4.91	8.20	938	3.7	3.9	11.5	-120
10:00	250	5.23	8.05	939	2.8	2.2	11.6	-126
10:05	250	5.42	7.98	940	0.9	1.7	11.6	-131
10:10	250	5.52	7.97	940	0.4	1.6	11.6	-132

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-101	Meter Number:	511017
Date:	3/29/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 43° F		

WELL INFORMATION

Well Depth (ft):	32.90
Water Level Depth (ft):	4.63
Pumping Water Depth (ft):	5.97
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	28.27
Volume of Water in Well (gal):	4.61
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	None
Color:	Grey
Fe^{+2} (mg/L):	0.5

EVACUATION INFORMATION

Purge Method: Low-Flow

Pump On: 9:05 Pump Off: 9:25

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
9:10	250	4.89	7.12	1,480	138.9	2.4	14.6	-25
9:15	250	5.45	7.14	1,490	120.0	2.2	14.6	-34
9:20	250	5.68	7.16	1,490	67.9	2.1	14.3	-39
9:25	250	5.97	7.17	1,490	58.2	2.1	14.3	-40

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-102	Meter Number:	511017
Date:	3/29/21	Notes:	
Sampling Personnel:	RNC & SL		
Weather:	Cloudy, 43° F		

WELL INFORMATION

Well Depth (ft):	22.10
Water Level Depth (ft):	4.32
Pumping Water Depth (ft):	5.29
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	17.78
Volume of Water in Well (gal):	2.90
Total Volume Purged (ml):	7,500
Duration of Pumping (min):	25
Odor:	None
Color:	Light Brown
Fe^{+2} (mg/L):	1.0

EVACUATION INFORMATION

Purge Method: Low-Flow

Pump On: 10:05 Pump Off: 10:30

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
10:06	300	4.82	7.77	1,120	59.5	4.4	10.9	-83
10:15	300	5.11	7.70	1,113	41.1	3.9	10.9	-86
10:22	300	5.26	7.66	1,113	21.8	2.4	10.9	-91
10:30	300	5.29	7.65	1,113	20.0	2.4	11.0	-92

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-103	Meter Number:	511017
Date:	3/31/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Cloudy, 50° F		

WELL INFORMATION

Well Depth (ft):	60.40
Water Level Depth (ft):	7.10
Pumping Water Depth (ft):	7.52
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.50

WELL WATER INFORMATION

Length of Water Column (ft):	53.30
Volume of Water in Well (gal):	8.69
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	None
Color:	Light Grey
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low-Flow

Pump On: 8:00 Pump Off: 8:20

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
8:30	250	7.21	8.70	706	51.2	5.9	10.4	133
8:35	250	7.38	8.56	815	41.8	5.1	10.5	143
8:40	250	7.49	8.50	898	22.0	4.6	10.6	147
8:45	250	7.52	8.49	900	21.2	4.5	10.5	148

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-104	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	65.10
Water Level Depth (ft):	0.75
Pumping Water Depth (ft):	1.01
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	64.35
Volume of Water in Well (gal):	10.49
Total Volume Purged (ml):	4,000
Duration of Pumping (min):	20
Odor:	Slightly Pungent
Color:	Clear
Fe^{+2} (mg/L):	1.0

EVACUATION INFORMATION

Purge Method: Low-Flow

Pump On: 9:50 Pump Off: 10:10

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
9:55	200	0.83	7.75	1,280	3.1	8.2	11.5	-41
10:10	200	0.90	7.63	1,290	1.9	8.1	11.5	-43
10:15	200	0.97	7.54	1,290	0.7	7.8	11.6	-49
10:20	200	1.01	7.52	1,300	0.4	7.8	11.6	-50

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-105	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	70.65
Water Level Depth (ft):	3.37
Pumping Water Depth (ft):	4.51
Well Diameter (in):	2.00
Well Condition:	Overgrown
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	67.28
Volume of Water in Well (gal):	10.97
Total Volume Purged (ml):	6,000
Duration of Pumping (min):	20
Odor:	None
Color:	Grey
Fe^{+2} (mg/L):	1.0

EVACUATION INFORMATION

Purge Method: Low-Flow

Pump On: 8:55 Pump Off: 9:15

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
9:00	300	4.02	7.41	1,210	99.8	2.3	7.1	-77
9:05	300	4..06	7.38	1,230	92.9	1.8	7.6	-79
9:10	300	4.08	7.35	1,260	79.1	1.4	7.6	-82
9:15	300	4.21	7.35	1,260	78.0	1.4	7.6	-82

Purge Water Disposition: On Ground

GROUNDWATER SAMPLING LOG
Nepera
Harriman, New York

Well ID:	MW-106	Meter Number:	511017
Date:	3/30/21	Notes:	
Sampling Personnel:	RNC & SS		
Weather:	Sunny, 55° F		

WELL INFORMATION

Well Depth (ft):	40.90
Water Level Depth (ft):	11.12
Pumping Water Depth (ft):	11.87
Well Diameter (in):	2.00
Well Condition:	Good
PID Reading (ppm):	0.00

WELL WATER INFORMATION

Length of Water Column (ft):	29.78
Volume of Water in Well (gal):	4.85
Total Volume Purged (ml):	5,000
Duration of Pumping (min):	20
Odor:	None
Color:	Clear
Fe^{+2} (mg/L):	0.0

EVACUATION INFORMATION

Purge Method: Low-Flow

Pump On: 12:15 Pump Off: 12:35

Time	Rate	DTW	pH	Cond	Turb	DO	Temp	ORP
	mL	ft	units	uS/cm	NTU	mg/l	°C	mV
12:20	250	11.21	8.31	923	1.1	7.4	11.3	83
12:25	250	11.39	8.19	911	0.9	7.3	11.3	81
12:30	250	11.61	8.03	871	0.3	7.1	11.4	75
12:35	250	11.87	8.01	868	0.3	7.0	11.4	74

Purge Water Disposition: On Ground

APPENDIX 2

Electronic Water Level Indicator Calibration Procedures

If using an electronic water level indicator, the device must be calibrated prior to each water level monitoring event and a calibration sticker with date of calibration attached. Electronic water level indicators with stretched electric lines (in whole or in part) spliced, or generally in poor condition shall not be used. A battery check must be performed before use.

1. Calibration is accomplished by comparing the marked intervals of the electronic sounding device with an engineer's tape marked in 0.01 foot intervals. The lower 30 feet of the electronic water level wire, which is most subject to stretching, is to be examined. If any five-foot interval of the wire is stretched more than 0.01 feet, the wire shall be replaced.

2. Calibration/inspection procedures must be documented in a calibration logbook or electronic spreadsheet file (in addition to the calibration date noted on a calibration sticker and affixed to the instrument).

3. When multiple water level devices are used to collect synoptic water levels, verification of instrument calibration and measurement techniques shall be checked by having each field technician measure the depth-to-water in a single designated well. All measurements must be within 0.05 feet of each other. If one or more measurements fall outside of this range, determine whether the discrepancy is due to instrumentation or measurement technique problems and make appropriate repairs, substitutions or corrections.

APPENDIX 3

Statement of Procedures for the Calibration of Multi-Parameter Water Quality Monitoring System, Horiba U-22XD

Purpose and Scope

This Statement of Procedures (SOP) presents detailed methodology for the measurement of field parameters including *temperature, conductivity, pH, dissolved oxygen, ORP* and *turbidity*. The purpose if this SOP is to ensure the accurate measurement of these water quality parameters through routine checks and periodic calibration of the Horiba U-22XD by sampling personnel.

Responsibilities

It is the responsibility of assigned sampling personnel to calibrate monitoring equipment at the beginning of each month prior to use, or upon completion of all instrument repairs (Span Calibration). Sampling personnel will also perform a daily instrument check (Zero Calibration). Documentation of calibrations, performance checks, inspection/acceptance and maintenance is the responsibility of field personnel. Periodic (e.g., yearly) factory calibration certificates shall be available for review. Any parameters out of calibration are to be documented and all records generated shall be maintained.

Precautions

Handling of Sensor Probe

Do not shock sensor probe. Sensor will be damaged.

Do not remove protective cover from sensor probe.

Slowly lower sensor probe into sample.

Do not immerse sensor probe to a depth in excess of 300 feet. Excessive hydraulic pressure will cause damage.

Replacement of Batteries and Sensors

Do not replace sensor probe batteries or sensors in atmosphere of high temperature or humidity.

The sensor probe's battery cover is kept waterproof by use of an O-ring. After confirming that there are no foreign bodies adhering to the O-ring, tighten to indicated position. Do not tighten with O-ring twisted or warped.

Handling of Cable

Do not store cable with connector excessively tensed or bent.

When storing, wipe area around connector dry and cover with rubber cap.

Handling of Control Unit

Do not shock control unit. The control unit will be damaged.

Do not expose control unit to ultraviolet rays for long periods. Ultraviolet rays can damage control unit's LCD display.

Do not use a hair dryer to dry control unit. If control unit becomes wet, dry with soft cloth.

Handling of DO Sensor

In the event of breakage of the DO sensor diaphragm, replace whole DO sensor and diaphragm.

Do not touch caustic internal solution.

When removing DO sensor from sensor probe, attach included short socket.

Handling of Cond/Turb Sensor Unit

When cleaning Cond/Turb sensor unit, use a cotton swab to avoid damage.

Handling pH Sensor

The pH sensor is made of very thin glass. Handle carefully to avoid breakage.

Handling during Transportation

Always store Horiba U-22XD in carrying case to prevent damage.

Calibration

The Horiba U-22XD includes an auto calibration mode (see Operations Manual). However, in order to achieve the highest instrument performance and measurement accuracy, manual calibration techniques described below are recommended. Note: In the event the instruments calibration readings do not come within 10% of standard values, a supervisor must be notified. The instrument is not to be used until repairs are made. Designate instrument with a **"DO NOT USE, OUT OF CALIBRATION"** sticker.

Manual pH Calibration
Zero Calibration

1. Wash sensor using distilled water; pour pH standard solution into calibration beaker; immerse sensor.
2. Press **CAL** key twice in the pH measurement mode. When the instrument enters the manual zero calibration mode, **MAN**, **ZERO** and **CAL** light up (measured temperature is displayed).
3. Use the **UP/DOWN** keys to input value of the pH 7 standard solution at the measured temperature (see reference data, page 100 of Operation Manual).
4. Press **ENT** key. The manual zero calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.

Span Calibration

1. Wash sensor using distilled water; pour pH 4 or pH 9 standard solution into calibration beaker; immerse sensor.
2. On the zero calibration of the pH sensor, press **CAL** key to ensure that the control unit is in the manual span calibration mode. **MAN**, **SPAN** and **CAL** light up.
3. Use the **UP/Down** keys to set the value for the pH 4 or pH 9 standard solution at the measured temperature (see reference data, page 100 of Operation Manual).
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. Press **MEAS** key to return to the measurement mode.

Manual Conductivity Calibration
Zero Calibration

1. Wash sensor using distilled water. Completely remove the water on the sensor and calibrate the instrument in the atmosphere
2. Press **Cal** key twice in the conductivity measurement mode. When the instrument enters the manual zero calibration mode, **MAN**, **ZERO** and **CAL** light up.
3. Use the **UP/DOWN** key to set the value to 0.0.
4. Press the **ENT** key. The manual zero calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.

Span Calibration

1. Wash sensor using distilled water; pour standard solution into calibration beaker; immerse sensor.
2. On the zero calibration of the conductivity sensor, press the **CAL** key to ensure that the instrument is in the manual span calibration mode. **MAN**, **SPAN** and **CAL** light up.
3. Use the **UP/Down** keys to set the standard solution value. Note: The sensor automatically identifies the calibration solution and the relevant calibration range (0.90 S/m to 9.99 S/m, 0.090 S/m to 0.999 S/m, 0.0 mS/m to 99.9 mS/m) is displayed via **1**, **2** or **3**.
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. Press **MEAS** key to return to the measurement mode.

Manual Turbidity Calibration
Zero Calibration

1. Wash sensor using distilled water; pour distilled water into calibration beaker; immerse sensor.
2. Press **Cal** key twice in the turbidity measurement mode. When the instrument enters the manual zero calibration mode, **MAN**, **ZERO** and **CAL** light up.
3. Use the **UP/DOWN** key to set the value to 0.0.

4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.

Span Calibration

1. Wash sensor using distilled water; pour100 NTU (or other) solution into calibration beaker; immerse sensor.
2. On the zero calibration of the turbidity sensor, press the **CAL** key to ensure that the instrument is in the manual span calibration mode. **MAN**, **SPAN** and **CAL** light up.
3. Use the **UP/Down** keys to set the value to 100 NTU.
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. Press **MEAS** key to return to the measurement mode.

Manual Dissolved Oxygen Calibration
Zero Calibration

1. Wash sensor using distilled water; pour 0.0 oxygen solution into calibration beaker; immerse sensor.
2. Press **Cal** key twice in the dissolved oxygen measurement mode. When the instrument enters the manual zero calibration mode, **MAN**, **ZERO** and **CAL** light up.
3. After the display has stabilized, use the **UP/DOWN** keys to set the value to 0.0.
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. After zero calibration, clean sensor with tap water.

Span Calibration

1. Pour 1 – 2 liters of tap water into suitable flask. Using an air pump, feed air into the water and aerate solution.

2. Wash sensor using distilled water and immerse DO sensor completely into span calibration liquid.
3. On the zero calibration of the DO sensor, press the **CAL** key to ensure that the instrument is in the manual span calibration mode. **MAN**, **SPAN** and **CAL** light up.
4. After the display has stabilized, use the **UP/DOWN** keys to set the amount of saturated dissolved oxygen in water at its water temperature (see reference data, page 56 of Operation Manual for DO value at corresponding temperature).
5. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
6. Press **MEAS** key to return to the measurement mode.

Manual Temperature Calibration

1. Press **CAL** key in the temperature measurement mode. Select the manual calibration mode.
2. Immerse sensor in water with known temperature (i.e., measured with Nation Institute of Technology approved thermometer).
3. Use the **UP/Down** keys to set the temperature value to that of NIT thermometer.
4. Press the **ENT** key. The manual span calibration starts. The measured value is displayed during calibration and **DATA IN** blinks until the indicated value stabilizes. When the indicated value has stabilized, **DATA IN** lights up and the calibration finishes. Note: When **DATA INN** is blinking, press **CAL** key to cancel calibration or **ENT** key to fix calibration.
5. Press **MEAS** key to return to the measurement mode.

Manual ORP Calibration

1. Add 250 ml pure (ion exchange) water to one packet of standard solution.
2. Immerse wash and dried ORP electrode in the ORP standard solution and measure mV value
3. If electrode and meter are working correctly, numerical values within 15 mV or less of those listed in Table 1 of Operation Manual are obtained.
4. If measurements within 15 mV of Table 1 values are not obtained, reference electrode is faulty. Replace.

Implementation and Training

Sampling personnel shall implement this procedure for the calibration and daily performance checks of field monitoring equipment. Staff responsible for implementing this procedure shall be thoroughly familiar with its contents and requirements. It shall be documented by each staff member that they have read and understand the procedure.

APPENDIX 4

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-230994-1
Client Project/Site: NEPERA - HARRIMAN, NY

For:
RNC Environmental Geology PC
72 Bellerose Ave
East Northport, New York 11731

Attn: Mr. Robert Casson

Melissa Haas

Authorized for release by:
4/7/2021 9:41:58 AM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

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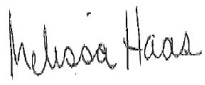
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Melissa Haas
Senior Project Manager
4/7/2021 9:41:58 AM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-230994-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: RNC Environmental Geology PC

Project: NEPERA - HARRIMAN, NY

Report Number: 460-230994-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 3/29/2021 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 3.2º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No TAT, matrix or container totals recorded on the COC.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples TB-1 (460-230994-1), MW-24S (460-230994-2), MW-101 (460-230994-3), MW-1S (460-230994-4), MW-102 (460-230994-5), MW-7S (460-230994-6), MW-6D (460-230994-7), MW-35S (460-230994-8), MW-23D (460-230994-9) and MW- S (460-230994-10) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 04/01/2021.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples MW-24S (460-230994-2), MW-101 (460-230994-3), MW-1S (460-230994-4), MW-102 (460-230994-5), MW-7S (460-230994-6), MW-6D (460-230994-7), MW-35S (460-230994-8), MW-23D (460-230994-9) and MW- S (460-230994-10) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 04/01/2021 and analyzed on 04/02/2021.

No difficulties were encountered during the semivolatiles analysis.

Job ID: 460-230994-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

All quality control parameters were within the acceptance limits.

METALS

Samples MW-24S (460-230994-2), MW-101 (460-230994-3), MW-1S (460-230994-4), MW-102 (460-230994-5), MW-35S (460-230994-8) and MW- S (460-230994-10) were analyzed for Metals in accordance with 6010D. The samples were prepared on 04/01/2021 and analyzed on 04/02/2021.

No difficulties were encountered during the Metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample MW-24S (460-230994-2) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 04/02/2021.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

ANIONS

Samples MW-24S (460-230994-2), MW-101 (460-230994-3), MW-1S (460-230994-4), MW-102 (460-230994-5), MW-35S (460-230994-8) and MW- S (460-230994-10) were analyzed for anions in accordance with EPA Method 300_ORGFM_28D Anions by Ion Chromatograph. The samples were analyzed on 04/01/2021 and 04/02/2021.

The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-101 (460-230994-3). Elevated reporting limits (RLs) are provided.

The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-24S (460-230994-2) and MW-35S (460-230994-8). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples MW-24S (460-230994-2), MW-101 (460-230994-3), MW-1S (460-230994-4), MW-102 (460-230994-5), MW-35S (460-230994-8) and MW- S (460-230994-10) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 04/05/2021.

Ammonia failed the recovery criteria high for the MS of sample 460-230642-5 in batch 460-769540.

Ammonia failed the recovery criteria high for the MSD of sample 460-230642-5 in batch 460-769540.

Ammonia failed the recovery criteria high for the MS of sample 460-230683-13 in batch 460-769540.

Ammonia failed the recovery criteria high for the MSD of sample 460-230683-13 in batch 460-769540.

Sample MW-1S (460-230994-4)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the ammonia analysis.

All other quality control parameters were within the acceptance limits.

NITROGEN-NITRATE

Job ID: 460-230994-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

Samples MW-24S (460-230994-2), MW-101 (460-230994-3), MW-1S (460-230994-4), MW-102 (460-230994-5), MW-35S (460-230994-8) and MW- S (460-230994-10) were analyzed for Nitrogen-Nitrate in accordance with SM 4500 NO3 F. The samples were analyzed on 03/31/2021.

No difficulties were encountered during the nitrate analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-230994-1

Client Sample ID: TB-1 — Lab Sample ID: 460-230994-1

No Detections.

Client Sample ID: MW-24S — Lab Sample ID: 460-230994-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	823		12.0	3.93	mg/L	25		300.0	Total/NA
Iron	468		150	80.8	ug/L	1		6010D	Total/NA
Manganese	134		15.0	0.76	ug/L	1		6010D	Total/NA
Mercury	0.26		0.20	0.091	ug/L	1		7470A	Total/NA
Ammonia	0.57		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.11		0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: MW-101 — Lab Sample ID: 460-230994-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	271		1.92	0.63	mg/L	4		300.0	Total/NA
Iron	1740		150	80.8	ug/L	1		6010D	Total/NA
Manganese	1420		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	14.4		0.10	0.050	mg/L	1		350.1	Total/NA

Client Sample ID: MW-1S — Lab Sample ID: 460-230994-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	31.0		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	5180		150	80.8	ug/L	1		6010D	Total/NA
Manganese	696		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	23.6		0.20	0.10	mg/L	2		350.1	Total/NA
Nitrate as N	0.68		0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: MW-102 — Lab Sample ID: 460-230994-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	42.1		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	4320		150	80.8	ug/L	1		6010D	Total/NA
Manganese	1190		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	10.8		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.025	J	0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: MW-7S — Lab Sample ID: 460-230994-6

No Detections.

Client Sample ID: MW-6D — Lab Sample ID: 460-230994-7

No Detections.

Client Sample ID: MW-35S — Lab Sample ID: 460-230994-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	860		12.0	3.93	mg/L	25		300.0	Total/NA
Iron	8150		150	80.8	ug/L	1		6010D	Total/NA
Manganese	2660		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	0.82		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.026	J	0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-230994-1

Client Sample ID: MW-23D — Lab Sample ID: 460-230994-9

No Detections.

Client Sample ID: MW-11S — Lab Sample ID: 460-230994-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	10.4		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	1120		150	80.8	ug/L	1		6010D	Total/NA
Manganese	637		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	18.0		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.034	J	0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-1

Lab Sample ID: 460-230994-1
Date Collected: 03/29/21 00:00
Matrix: Water
Date Received: 03/29/21 19:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 08:10	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 08:10	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 08:10	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 08:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 123*		*04/01/21 08:10*	*1*
Bromofluorobenzene	*103*		*76 - 120*		*04/01/21 08:10*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*04/01/21 08:10*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/01/21 08:10*	*1*

Client Sample ID: MW-24S

Lab Sample ID: 460-230994-2
Date Collected: 03/29/21 08:55
Matrix: Water
Date Received: 03/29/21 19:00

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 08:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 08:35	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 08:35	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 08:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*04/01/21 08:35*	*1*
Bromofluorobenzene	*104*		*76 - 120*		*04/01/21 08:35*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 124*		*04/01/21 08:35*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/01/21 08:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 18:29	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 18:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/01/21 14:52*	*04/02/21 18:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*84*		*46 - 120*	*04/01/21 14:52*	*04/02/21 18:29*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*04/01/21 14:52*	*04/02/21 18:29*	*1*
p-Terphenyl-d14	*77*		*60 - 148*	*04/01/21 14:52*	*04/02/21 18:29*	*1*
Phenol-d5	*46*		*22 - 120*	*04/01/21 14:52*	*04/02/21 18:29*	*1*
2-Fluorophenol	*65*		*35 - 120*	*04/01/21 14:52*	*04/02/21 18:29*	*1*
2,4,6-Tribromophenol	*97*		*41 - 120*	*04/01/21 14:52*	*04/02/21 18:29*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**823**		12.0	3.93	mg/L			04/02/21 14:46	25

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**468**		150	80.8	ug/L		04/01/21 18:25	04/02/21 11:31	1
Manganese	**134**		15.0	0.76	ug/L		04/01/21 18:25	04/02/21 11:31	1

Client Sample ID: MW-24S

Date Collected: 03/29/21 08:55
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-2
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.20	0.091	ug/L		04/02/21 12:58	04/02/21 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.57		0.10	0.050	mg/L			04/05/21 10:56	1
Nitrate as N	0.11		0.10	0.021	mg/L			03/31/21 06:59	1

Client Sample ID: MW-101

Date Collected: 03/29/21 09:25
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 09:01	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 09:01	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 09:01	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 09:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*04/01/21 09:01*	*1*
Bromofluorobenzene	*101*		*76 - 120*		*04/01/21 09:01*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*04/01/21 09:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/01/21 09:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 18:55	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 18:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/01/21 14:52*	*04/02/21 18:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*46 - 120*	*04/01/21 14:52*	*04/02/21 18:55*	*1*
2-Fluorobiphenyl	*89*		*48 - 120*	*04/01/21 14:52*	*04/02/21 18:55*	*1*
p-Terphenyl-d14	*75*		*60 - 148*	*04/01/21 14:52*	*04/02/21 18:55*	*1*
Phenol-d5	*43*		*22 - 120*	*04/01/21 14:52*	*04/02/21 18:55*	*1*
2-Fluorophenol	*60*		*35 - 120*	*04/01/21 14:52*	*04/02/21 18:55*	*1*
2,4,6-Tribromophenol	*89*		*41 - 120*	*04/01/21 14:52*	*04/02/21 18:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	271		1.92	0.63	mg/L			04/01/21 21:50	4

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1740		150	80.8	ug/L		04/01/21 18:25	04/02/21 11:35	1
Manganese	1420		15.0	0.76	ug/L		04/01/21 18:25	04/02/21 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	14.4		0.10	0.050	mg/L			04/05/21 10:57	1

Client Sample ID: MW-101

Date Collected: 03/29/21 09:25
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.10	0.021	mg/L			03/31/21 07:00	1

Client Sample ID: MW-1S

Date Collected: 03/29/21 10:00
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-4
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 09:27	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 09:27	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 09:27	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 09:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 123*		*04/01/21 09:27*	*1*
Bromofluorobenzene	*98*		*76 - 120*		*04/01/21 09:27*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 124*		*04/01/21 09:27*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/01/21 09:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 19:22	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 19:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/01/21 14:52*	*04/02/21 19:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*79*		*46 - 120*	*04/01/21 14:52*	*04/02/21 19:22*	*1*
2-Fluorobiphenyl	*83*		*48 - 120*	*04/01/21 14:52*	*04/02/21 19:22*	*1*
p-Terphenyl-d14	*74*		*60 - 148*	*04/01/21 14:52*	*04/02/21 19:22*	*1*
Phenol-d5	*42*		*22 - 120*	*04/01/21 14:52*	*04/02/21 19:22*	*1*
2-Fluorophenol	*58*		*35 - 120*	*04/01/21 14:52*	*04/02/21 19:22*	*1*
2,4,6-Tribromophenol	*89*		*41 - 120*	*04/01/21 14:52*	*04/02/21 19:22*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**31.0**		0.48	0.16	mg/L			04/01/21 18:20	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5180**		150	80.8	ug/L		04/01/21 18:25	04/02/21 11:39	1
Manganese	**696**		15.0	0.76	ug/L		04/01/21 18:25	04/02/21 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**23.6**		0.20	0.10	mg/L			04/05/21 12:31	2
Nitrate as N	**0.68**		0.10	0.021	mg/L			03/31/21 07:00	1

Client Sample ID: MW-102

Date Collected: 03/29/21 10:30
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-5
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 09:52	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 09:52	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 09:52	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 09:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 123*		*04/01/21 09:52*	*1*
Bromofluorobenzene	*102*		*76 - 120*		*04/01/21 09:52*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 124*		*04/01/21 09:52*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/01/21 09:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 19:48	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 19:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/01/21 14:52*	*04/02/21 19:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*79*		*46 - 120*	*04/01/21 14:52*	*04/02/21 19:48*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*04/01/21 14:52*	*04/02/21 19:48*	*1*
p-Terphenyl-d14	*82*		*60 - 148*	*04/01/21 14:52*	*04/02/21 19:48*	*1*
Phenol-d5	*42*		*22 - 120*	*04/01/21 14:52*	*04/02/21 19:48*	*1*
2-Fluorophenol	*59*		*35 - 120*	*04/01/21 14:52*	*04/02/21 19:48*	*1*
2,4,6-Tribromophenol	*84*		*41 - 120*	*04/01/21 14:52*	*04/02/21 19:48*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**42.1**		0.48	0.16	mg/L			04/01/21 18:35	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4320**		150	80.8	ug/L		04/01/21 18:25	04/02/21 11:43	1
Manganese	**1190**		15.0	0.76	ug/L		04/01/21 18:25	04/02/21 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**10.8**		0.10	0.050	mg/L			04/05/21 12:12	1
Nitrate as N	**0.025**	**J**	0.10	0.021	mg/L			03/31/21 07:05	1

Client Sample ID: MW-7S

Date Collected: 03/29/21 10:45
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 10:18	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 10:18	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 10:18	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 10:18	1

Client Sample ID: MW-7S

Date Collected: 03/29/21 10:45
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*04/01/21 10:18*	*1*
Bromofluorobenzene	*103*		*76 - 120*		*04/01/21 10:18*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*04/01/21 10:18*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/01/21 10:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 20:14	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 20:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/01/21 14:52*	*04/02/21 20:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*04/01/21 14:52*	*04/02/21 20:14*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*04/01/21 14:52*	*04/02/21 20:14*	*1*
p-Terphenyl-d14	*90*		*60 - 148*	*04/01/21 14:52*	*04/02/21 20:14*	*1*
Phenol-d5	*49*		*22 - 120*	*04/01/21 14:52*	*04/02/21 20:14*	*1*
2-Fluorophenol	*66*		*35 - 120*	*04/01/21 14:52*	*04/02/21 20:14*	*1*
2,4,6-Tribromophenol	*87*		*41 - 120*	*04/01/21 14:52*	*04/02/21 20:14*	*1*

Client Sample ID: MW-6D

Date Collected: 03/29/21 11:00
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-7
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 10:44	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 10:44	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 10:44	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 123*		*04/01/21 10:44*	*1*
Bromofluorobenzene	*104*		*76 - 120*		*04/01/21 10:44*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*04/01/21 10:44*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/01/21 10:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 20:40	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 20:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/01/21 14:52*	*04/02/21 20:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*46 - 120*	*04/01/21 14:52*	*04/02/21 20:40*	*1*
2-Fluorobiphenyl	*88*		*48 - 120*	*04/01/21 14:52*	*04/02/21 20:40*	*1*
p-Terphenyl-d14	*87*		*60 - 148*	*04/01/21 14:52*	*04/02/21 20:40*	*1*
Phenol-d5	*44*		*22 - 120*	*04/01/21 14:52*	*04/02/21 20:40*	*1*
2-Fluorophenol	*60*		*35 - 120*	*04/01/21 14:52*	*04/02/21 20:40*	*1*

Client Sample ID: MW-6D

Date Collected: 03/29/21 11:00
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*41 - 120*	*04/01/21 14:52*	*04/02/21 20:40*	*1*

Client Sample ID: MW-35S

Date Collected: 03/29/21 11:30
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-8
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 11:09	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 11:09	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 11:09	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 123*		*04/01/21 11:09*	*1*
Bromofluorobenzene	*96*		*76 - 120*		*04/01/21 11:09*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 124*		*04/01/21 11:09*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/01/21 11:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 21:06	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 21:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/01/21 14:52*	*04/02/21 21:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*46 - 120*	*04/01/21 14:52*	*04/02/21 21:06*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*04/01/21 14:52*	*04/02/21 21:06*	*1*
p-Terphenyl-d14	*72*		*60 - 148*	*04/01/21 14:52*	*04/02/21 21:06*	*1*
Phenol-d5	*49*		*22 - 120*	*04/01/21 14:52*	*04/02/21 21:06*	*1*
2-Fluorophenol	*67*		*35 - 120*	*04/01/21 14:52*	*04/02/21 21:06*	*1*
2,4,6-Tribromophenol	*94*		*41 - 120*	*04/01/21 14:52*	*04/02/21 21:06*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**860**		12.0	3.93	mg/L			04/02/21 15:02	25

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**8150**		150	80.8	ug/L		04/01/21 18:25	04/02/21 11:47	1
Manganese	**2660**		15.0	0.76	ug/L		04/01/21 18:25	04/02/21 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.82**		0.10	0.050	mg/L			04/05/21 11:00	1
Nitrate as N	**0.026**	**J**	0.10	0.021	mg/L			03/31/21 07:06	1

Client Sample ID: MW-23D

Date Collected: 03/29/21 12:00
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 11:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 11:35	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 11:35	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 123*		*04/01/21 11:35*	*1*
Bromofluorobenzene	*103*		*76 - 120*		*04/01/21 11:35*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*04/01/21 11:35*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*04/01/21 11:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 21:32	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 21:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/01/21 14:52*	*04/02/21 21:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*79*		*46 - 120*	*04/01/21 14:52*	*04/02/21 21:32*	*1*
2-Fluorobiphenyl	*84*		*48 - 120*	*04/01/21 14:52*	*04/02/21 21:32*	*1*
p-Terphenyl-d14	*82*		*60 - 148*	*04/01/21 14:52*	*04/02/21 21:32*	*1*
Phenol-d5	*42*		*22 - 120*	*04/01/21 14:52*	*04/02/21 21:32*	*1*
2-Fluorophenol	*59*		*35 - 120*	*04/01/21 14:52*	*04/02/21 21:32*	*1*
2,4,6-Tribromophenol	*83*		*41 - 120*	*04/01/21 14:52*	*04/02/21 21:32*	*1*

Client Sample ID: MW-11S

Date Collected: 03/29/21 12:40
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-10
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 12:00	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 12:00	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 12:00	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*		*04/01/21 12:00*	*1*
Bromofluorobenzene	*102*		*76 - 120*		*04/01/21 12:00*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*04/01/21 12:00*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/01/21 12:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 21:58	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 21:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/01/21 14:52*	*04/02/21 21:58*	*1*

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-230994-1

Client Sample ID: MW-11S

Date Collected: 03/29/21 12:40
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*81*		*46 - 120*	*04/01/21 14:52*	*04/02/21 21:58*	*1*
2-Fluorobiphenyl	*87*		*48 - 120*	*04/01/21 14:52*	*04/02/21 21:58*	*1*
p-Terphenyl-d14	*81*		*60 - 148*	*04/01/21 14:52*	*04/02/21 21:58*	*1*
Phenol-d5	*41*		*22 - 120*	*04/01/21 14:52*	*04/02/21 21:58*	*1*
2-Fluorophenol	*58*		*35 - 120*	*04/01/21 14:52*	*04/02/21 21:58*	*1*
2,4,6-Tribromophenol	*86*		*41 - 120*	*04/01/21 14:52*	*04/02/21 21:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**10.4**		0.48	0.16	mg/L			04/01/21 19:05	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1120**		150	80.8	ug/L		04/01/21 18:25	04/02/21 11:51	1
Manganese	**637**		15.0	0.76	ug/L		04/01/21 18:25	04/02/21 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**18.0**		0.10	0.050	mg/L			04/05/21 11:02	1
Nitrate as N	**0.034**	**J**	0.10	0.021	mg/L			03/31/21 07:06	1

Surrogate Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-230994-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (75-123)	BFB (76-120)	DBFM (77-124)	TOL (80-120)
460-230994-1	TB-1	98	103	99	104
460-230994-2	MW-24S	96	104	97	104
460-230994-3	MW-101	99	101	99	102
460-230994-4	MW-1S	92	98	93	97
460-230994-5	MW-102	92	102	95	103
460-230994-6	MW-7S	97	103	101	103
460-230994-7	MW-6D	100	104	101	102
460-230994-8	MW-35S	92	96	93	96
460-230994-9	MW-23D	98	103	99	103
460-230994-10	MW-11S	101	102	102	102
LCS 460-768776/3	Lab Control Sample	80	100	80	101
LCSD 460-768776/4	Lab Control Sample Dup	83	101	83	102
MB 460-768776/8	Method Blank	100	102	102	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	NBZ (46-120)	FBP (48-120)	TPHd14 (60-148)	PHL (22-120)	2FP (35-120)	TBP (41-120)
460-230994-2	MW-24S	84	90	77	46	65	97
460-230994-3	MW-101	82	89	75	43	60	89
460-230994-4	MW-1S	79	83	74	42	58	89
460-230994-5	MW-102	79	85	82	42	59	84
460-230994-6	MW-7S	86	91	90	49	66	87
460-230994-7	MW-6D	82	88	87	44	60	81
460-230994-8	MW-35S	83	90	72	49	67	94
460-230994-9	MW-23D	79	84	82	42	59	83
460-230994-10	MW-11S	81	87	81	41	58	86
LCS 480-574751/2-A	Lab Control Sample	88	90	95	51	67	96
LCSD 480-574751/3-A	Lab Control Sample Dup	89	89	94	53	69	97
MB 480-574751/1-A	Method Blank	81	86	97	46	63	79

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-768776/8
Matrix: Water
Analysis Batch: 768776

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 07:44	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 07:44	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 07:44	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 07:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 123*		*04/01/21 07:44*	*1*
Bromofluorobenzene	*102*		*76 - 120*		*04/01/21 07:44*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*04/01/21 07:44*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/01/21 07:44*	*1*

Lab Sample ID: LCS 460-768776/3
Matrix: Water
Analysis Batch: 768776

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	23.0		ug/L		115	78 - 126		
Ethylbenzene			20.0	22.5		ug/L		113	78 - 120		
Toluene			20.0	22.8		ug/L		114	78 - 119		
Xylenes, Total			40.0	45.4		ug/L		114	78 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 123*
Bromofluorobenzene	*100*		*76 - 120*
Dibromofluoromethane (Surr)	*80*		*77 - 124*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 460-768776/4
Matrix: Water
Analysis Batch: 768776

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	18.3		ug/L		91	78 - 126	23	30
Ethylbenzene			20.0	18.2		ug/L		91	78 - 120	21	30
Toluene			20.0	18.2		ug/L		91	78 - 119	23	30
Xylenes, Total			40.0	36.5		ug/L		91	78 - 122	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 123*
Bromofluorobenzene	*101*		*76 - 120*
Dibromofluoromethane (Surr)	*83*		*77 - 124*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: MB 480-574751/1-A
Matrix: Water
Analysis Batch: 574902

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/01/21 14:52	04/02/21 17:08	1
Pyridine	25	U	25	0.41	ug/L		04/01/21 14:52	04/02/21 17:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*81*		*46 - 120*	*04/01/21 14:52*	*04/02/21 17:08*	*1*
2-Fluorobiphenyl	*86*		*48 - 120*	*04/01/21 14:52*	*04/02/21 17:08*	*1*
p-Terphenyl-d14	*97*		*60 - 148*	*04/01/21 14:52*	*04/02/21 17:08*	*1*
Phenol-d5	*46*		*22 - 120*	*04/01/21 14:52*	*04/02/21 17:08*	*1*
2-Fluorophenol	*63*		*35 - 120*	*04/01/21 14:52*	*04/02/21 17:08*	*1*
2,4,6-Tribromophenol	*79*		*41 - 120*	*04/01/21 14:52*	*04/02/21 17:08*	*1*

Lab Sample ID: LCS 480-574751/2-A
Matrix: Water
Analysis Batch: 574902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574751

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pyridine			64.0	36.3		ug/L		57	10 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*88*		*46 - 120*
2-Fluorobiphenyl	*90*		*48 - 120*
p-Terphenyl-d14	*95*		*60 - 148*
Phenol-d5	*51*		*22 - 120*
2-Fluorophenol	*67*		*35 - 120*
2,4,6-Tribromophenol	*96*		*41 - 120*

Lab Sample ID: LCSD 480-574751/3-A
Matrix: Water
Analysis Batch: 574902

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574751

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyridine			64.0	24.0	J	ug/L		38	10 - 120	41	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*89*		*46 - 120*
2-Fluorobiphenyl	*89*		*48 - 120*
p-Terphenyl-d14	*94*		*60 - 148*
Phenol-d5	*53*		*22 - 120*
2-Fluorophenol	*69*		*35 - 120*
2,4,6-Tribromophenol	*97*		*41 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-768887/3
Matrix: Water
Analysis Batch: 768887

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.48	U	0.48	0.16	mg/L			04/01/21 11:30	1

Lab Sample ID: LCS 460-768887/9
Matrix: Water
Analysis Batch: 768887

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	4.80	5.053		mg/L		105	90 - 110

Lab Sample ID: LCSD 460-768887/10
Matrix: Water
Analysis Batch: 768887

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	4.80	5.038		mg/L		105	90 - 110	0	15

Lab Sample ID: MB 460-769142/3
Matrix: Water
Analysis Batch: 769142

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.48	U	0.48	0.16	mg/L			04/02/21 13:27	1

Lab Sample ID: LCS 460-769142/5
Matrix: Water
Analysis Batch: 769142

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	4.80	5.184		mg/L		108	90 - 110

Lab Sample ID: LCSD 460-769142/8
Matrix: Water
Analysis Batch: 769142

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	4.80	4.890		mg/L		102	90 - 110	6	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 460-768965/1-A
Matrix: Water
Analysis Batch: 769104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 768965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	80.8	ug/L		04/01/21 18:25	04/02/21 10:25	1
Manganese	15.0	U	15.0	0.76	ug/L		04/01/21 18:25	04/02/21 10:25	1

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

Lab Sample ID: LCS 460-768965/2-A
Matrix: Water
Analysis Batch: 769104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 768965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	994.5		ug/L		99	80 - 120
Manganese	500	485.2		ug/L		97	80 - 120

Lab Sample ID: 460-231106-A-1-C MS
Matrix: Water
Analysis Batch: 769104

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 768965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	148	J	1000	1089		ug/L		94	75 - 125
Manganese	101		500	570.4		ug/L		94	75 - 125

Lab Sample ID: 460-231106-A-1-B DU
Matrix: Water
Analysis Batch: 769104

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 768965

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	148	J	162.0		ug/L		9	20
Manganese	101		103.8		ug/L		2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-769122/1-A
Matrix: Water
Analysis Batch: 769178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 769122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/02/21 12:58	04/02/21 13:55	1

Lab Sample ID: LCS 460-769122/2-A
Matrix: Water
Analysis Batch: 769178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 769122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	1.08		ug/L		108	80 - 120

Lab Sample ID: 460-230994-2 MS
Matrix: Water
Analysis Batch: 769178

Client Sample ID: MW-24S
Prep Type: Total/NA
Prep Batch: 769122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.26		1.00	1.28		ug/L		102	75 - 125

Lab Sample ID: 460-230994-2 DU
Matrix: Water
Analysis Batch: 769178

Client Sample ID: MW-24S
Prep Type: Total/NA
Prep Batch: 769122

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.26		0.277		ug/L		6	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 460-769540/13
Matrix: Water
Analysis Batch: 769540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.10	0.050	mg/L			04/05/21 10:24	1

Lab Sample ID: MB 460-769540/40
Matrix: Water
Analysis Batch: 769540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.10	0.050	mg/L			04/05/21 11:19	1

Lab Sample ID: LCS 460-769540/14
Matrix: Water
Analysis Batch: 769540

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.00	2.00		mg/L		100	89 - 113		

Lab Sample ID: LCSSRM 460-769540/41
Matrix: Water
Analysis Batch: 769540

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.00	2.03		mg/L		102			

Lab Sample ID: MRL 460-769540/12
Matrix: Water
Analysis Batch: 769540

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			0.100	0.0956	J	mg/L		96	50 - 150		

Lab Sample ID: 460-230642-D-5 MS
Matrix: Water
Analysis Batch: 769540

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	0.10	U	2.00	2.97	N	mg/L		149	89 - 113		

Lab Sample ID: 460-230642-D-5 MSD
Matrix: Water
Analysis Batch: 769540

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.10	U	2.00	2.93	N	mg/L		147	89 - 113	1	10

Lab Sample ID: 460-230683-C-13 MS
Matrix: Water
Analysis Batch: 769540

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	0.74		2.00	3.16	N	mg/L		121	89 - 113		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 460-230683-C-13 MSD
Matrix: Water
Analysis Batch: 769540

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.74		2.00	3.20	N	mg/L		123	89 - 113	1	10

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 460-768491/14
Matrix: Water
Analysis Batch: 768491

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.10	0.021	mg/L			03/31/21 06:57	1

Lab Sample ID: LCSSRM 460-768491/15
Matrix: Water
Analysis Batch: 768491

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.16	1.16		mg/L		100.2	81.6 - 117.5

Lab Sample ID: MRL 460-768491/11
Matrix: Water
Analysis Batch: 768491

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.0500	0.0496	J	mg/L		99	50 - 150

Lab Sample ID: 460-230994-2 MS
Matrix: Water
Analysis Batch: 768491

Client Sample ID: MW-24S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.11		0.500	0.595		mg/L		98	85 - 115

Lab Sample ID: 460-230994-2 MSD
Matrix: Water
Analysis Batch: 768491

Client Sample ID: MW-24S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.11		0.500	0.588		mg/L		96	85 - 115	1	18

GC/MS VOA

Analysis Batch: 768776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-1	TB-1	Total/NA	Water	8260D	
460-230994-2	MW-24S	Total/NA	Water	8260D	
460-230994-3	MW-101	Total/NA	Water	8260D	
460-230994-4	MW-1S	Total/NA	Water	8260D	
460-230994-5	MW-102	Total/NA	Water	8260D	
460-230994-6	MW-7S	Total/NA	Water	8260D	
460-230994-7	MW-6D	Total/NA	Water	8260D	
460-230994-8	MW-35S	Total/NA	Water	8260D	
460-230994-9	MW-23D	Total/NA	Water	8260D	
460-230994-10	MW-11S	Total/NA	Water	8260D	
MB 460-768776/8	Method Blank	Total/NA	Water	8260D	
LCS 460-768776/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-768776/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 574751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-2	MW-24S	Total/NA	Water	3510C	
460-230994-3	MW-101	Total/NA	Water	3510C	
460-230994-4	MW-1S	Total/NA	Water	3510C	
460-230994-5	MW-102	Total/NA	Water	3510C	
460-230994-6	MW-7S	Total/NA	Water	3510C	
460-230994-7	MW-6D	Total/NA	Water	3510C	
460-230994-8	MW-35S	Total/NA	Water	3510C	
460-230994-9	MW-23D	Total/NA	Water	3510C	
460-230994-10	MW-11S	Total/NA	Water	3510C	
MB 480-574751/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-574751/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-574751/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 574902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-2	MW-24S	Total/NA	Water	8270D	574751
460-230994-3	MW-101	Total/NA	Water	8270D	574751
460-230994-4	MW-1S	Total/NA	Water	8270D	574751
460-230994-5	MW-102	Total/NA	Water	8270D	574751
460-230994-6	MW-7S	Total/NA	Water	8270D	574751
460-230994-7	MW-6D	Total/NA	Water	8270D	574751
460-230994-8	MW-35S	Total/NA	Water	8270D	574751
460-230994-9	MW-23D	Total/NA	Water	8270D	574751
460-230994-10	MW-11S	Total/NA	Water	8270D	574751
MB 480-574751/1-A	Method Blank	Total/NA	Water	8270D	574751
LCS 480-574751/2-A	Lab Control Sample	Total/NA	Water	8270D	574751
LCSD 480-574751/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	574751

HPLC/IC

Analysis Batch: 768887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-3	MW-101	Total/NA	Water	300.0	
460-230994-4	MW-1S	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 768887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-5	MW-102	Total/NA	Water	300.0	
460-230994-10	MW-11S	Total/NA	Water	300.0	
MB 460-768887/3	Method Blank	Total/NA	Water	300.0	
LCS 460-768887/9	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-768887/10	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 769142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-2	MW-24S	Total/NA	Water	300.0	
460-230994-8	MW-35S	Total/NA	Water	300.0	
MB 460-769142/3	Method Blank	Total/NA	Water	300.0	
LCS 460-769142/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-769142/8	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 768965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-2	MW-24S	Total/NA	Water	3010A	
460-230994-3	MW-101	Total/NA	Water	3010A	
460-230994-4	MW-1S	Total/NA	Water	3010A	
460-230994-5	MW-102	Total/NA	Water	3010A	
460-230994-8	MW-35S	Total/NA	Water	3010A	
460-230994-10	MW-11S	Total/NA	Water	3010A	
MB 460-768965/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-768965/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-231106-A-1-C MS	Matrix Spike	Total/NA	Water	3010A	
460-231106-A-1-B DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 769104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-2	MW-24S	Total/NA	Water	6010D	768965
460-230994-3	MW-101	Total/NA	Water	6010D	768965
460-230994-4	MW-1S	Total/NA	Water	6010D	768965
460-230994-5	MW-102	Total/NA	Water	6010D	768965
460-230994-8	MW-35S	Total/NA	Water	6010D	768965
460-230994-10	MW-11S	Total/NA	Water	6010D	768965
MB 460-768965/1-A	Method Blank	Total/NA	Water	6010D	768965
LCS 460-768965/2-A	Lab Control Sample	Total/NA	Water	6010D	768965
460-231106-A-1-C MS	Matrix Spike	Total/NA	Water	6010D	768965
460-231106-A-1-B DU	Duplicate	Total/NA	Water	6010D	768965

Prep Batch: 769122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-2	MW-24S	Total/NA	Water	7470A	
MB 460-769122/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-769122/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-230994-2 MS	MW-24S	Total/NA	Water	7470A	
460-230994-2 DU	MW-24S	Total/NA	Water	7470A	

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

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Metals

Analysis Batch: 769178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-2	MW-24S	Total/NA	Water	7470A	769122
MB 460-769122/1-A	Method Blank	Total/NA	Water	7470A	769122
LCS 460-769122/2-A	Lab Control Sample	Total/NA	Water	7470A	769122
460-230994-2 MS	MW-24S	Total/NA	Water	7470A	769122
460-230994-2 DU	MW-24S	Total/NA	Water	7470A	769122

General Chemistry

Analysis Batch: 768491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-2	MW-24S	Total/NA	Water	SM 4500 NO3 F	
460-230994-3	MW-101	Total/NA	Water	SM 4500 NO3 F	
460-230994-4	MW-1S	Total/NA	Water	SM 4500 NO3 F	
460-230994-5	MW-102	Total/NA	Water	SM 4500 NO3 F	
460-230994-8	MW-35S	Total/NA	Water	SM 4500 NO3 F	
460-230994-10	MW-11S	Total/NA	Water	SM 4500 NO3 F	
MB 460-768491/14	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCSSRM 460-768491/15	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
LCSSRM 460-768491/16	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MRL 460-768491/11	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
460-230994-2 MS	MW-24S	Total/NA	Water	SM 4500 NO3 F	
460-230994-2 MSD	MW-24S	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 769540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-230994-2	MW-24S	Total/NA	Water	350.1	
460-230994-3	MW-101	Total/NA	Water	350.1	
460-230994-4	MW-1S	Total/NA	Water	350.1	
460-230994-5	MW-102	Total/NA	Water	350.1	
460-230994-8	MW-35S	Total/NA	Water	350.1	
460-230994-10	MW-11S	Total/NA	Water	350.1	
MB 460-769540/13	Method Blank	Total/NA	Water	350.1	
MB 460-769540/40	Method Blank	Total/NA	Water	350.1	
LCS 460-769540/14	Lab Control Sample	Total/NA	Water	350.1	
LCSSRM 460-769540/41	Lab Control Sample	Total/NA	Water	350.1	
MRL 460-769540/12	Lab Control Sample	Total/NA	Water	350.1	
460-230642-D-5 MS	Matrix Spike	Total/NA	Water	350.1	
460-230642-D-5 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
460-230683-C-13 MS	Matrix Spike	Total/NA	Water	350.1	
460-230683-C-13 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Client Sample ID: TB-1
Date Collected: 03/29/21 00:00
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 08:10	AAT	TAL EDI

Client Sample ID: MW-24S
Date Collected: 03/29/21 08:55
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 08:35	AAT	TAL EDI
Total/NA	Prep	3510C			574751	04/01/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D			574902	04/02/21 18:29	PJQ	TAL BUF
Total/NA	Analysis	300.0		25	769142	04/02/21 14:46	VMI	TAL EDI
Total/NA	Prep	3010A			768965	04/01/21 18:25	GAE	TAL EDI
Total/NA	Analysis	6010D			769104	04/02/21 11:31	CDC	TAL EDI
Total/NA	Prep	7470A			769122	04/02/21 12:58	RBS	TAL EDI
Total/NA	Analysis	7470A			769178	04/02/21 13:58	RBS	TAL EDI
Total/NA	Analysis	350.1			769540	04/05/21 10:56	RAK	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F			768491	03/31/21 06:59	VBG	TAL EDI

Client Sample ID: MW-101
Date Collected: 03/29/21 09:25
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 09:01	AAT	TAL EDI
Total/NA	Prep	3510C			574751	04/01/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D			574902	04/02/21 18:55	PJQ	TAL BUF
Total/NA	Analysis	300.0		4	768887	04/01/21 21:50	VMI	TAL EDI
Total/NA	Prep	3010A			768965	04/01/21 18:25	GAE	TAL EDI
Total/NA	Analysis	6010D			769104	04/02/21 11:35	CDC	TAL EDI
Total/NA	Analysis	350.1			769540	04/05/21 10:57	RAK	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F			768491	03/31/21 07:00	VBG	TAL EDI

Client Sample ID: MW-1S
Date Collected: 03/29/21 10:00
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 09:27	AAT	TAL EDI
Total/NA	Prep	3510C			574751	04/01/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D			574902	04/02/21 19:22	PJQ	TAL BUF
Total/NA	Analysis	300.0			768887	04/01/21 18:20	VMI	TAL EDI
Total/NA	Prep	3010A			768965	04/01/21 18:25	GAE	TAL EDI
Total/NA	Analysis	6010D			769104	04/02/21 11:39	CDC	TAL EDI
Total/NA	Analysis	350.1		2	769540	04/05/21 12:31	RAK	TAL EDI

Client Sample ID: MW-1S
Date Collected: 03/29/21 10:00
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO3 F			768491	03/31/21 07:00	VBG	TAL EDI

Client Sample ID: MW-102
Date Collected: 03/29/21 10:30
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 09:52	AAT	TAL EDI
Total/NA	Prep	3510C			574751	04/01/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D			574902	04/02/21 19:48	PJQ	TAL BUF
Total/NA	Analysis	300.0			768887	04/01/21 18:35	VMI	TAL EDI
Total/NA	Prep	3010A			768965	04/01/21 18:25	GAE	TAL EDI
Total/NA	Analysis	6010D			769104	04/02/21 11:43	CDC	TAL EDI
Total/NA	Analysis	350.1			769540	04/05/21 12:12	RAK	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F			768491	03/31/21 07:05	VBG	TAL EDI

Client Sample ID: MW-7S
Date Collected: 03/29/21 10:45
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 10:18	AAT	TAL EDI
Total/NA	Prep	3510C			574751	04/01/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D			574902	04/02/21 20:14	PJQ	TAL BUF

Client Sample ID: MW-6D
Date Collected: 03/29/21 11:00
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 10:44	AAT	TAL EDI
Total/NA	Prep	3510C			574751	04/01/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D			574902	04/02/21 20:40	PJQ	TAL BUF

Client Sample ID: MW-35S
Date Collected: 03/29/21 11:30
Date Received: 03/29/21 19:00

Lab Sample ID: 460-230994-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 11:09	AAT	TAL EDI
Total/NA	Prep	3510C			574751	04/01/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D			574902	04/02/21 21:06	PJQ	TAL BUF
Total/NA	Analysis	300.0		25	769142	04/02/21 15:02	VMI	TAL EDI
Total/NA	Prep	3010A			768965	04/01/21 18:25	GAE	TAL EDI
Total/NA	Analysis	6010D			769104	04/02/21 11:47	CDC	TAL EDI

Lab Chronicle

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-230994-1

Client Sample ID: MW-35S

Lab Sample ID: 460-230994-8

Date Collected: 03/29/21 11:30

Matrix: Water

Date Received: 03/29/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1			769540	04/05/21 11:00	RAK	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F			768491	03/31/21 07:06	VBG	TAL EDI

Client Sample ID: MW-23D

Lab Sample ID: 460-230994-9

Date Collected: 03/29/21 12:00

Matrix: Water

Date Received: 03/29/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 11:35	AAT	TAL EDI
Total/NA	Prep	3510C			574751	04/01/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D			574902	04/02/21 21:32	PJQ	TAL BUF

Client Sample ID: MW-11S

Lab Sample ID: 460-230994-10

Date Collected: 03/29/21 12:40

Matrix: Water

Date Received: 03/29/21 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			768776	04/01/21 12:00	AAT	TAL EDI
Total/NA	Prep	3510C			574751	04/01/21 14:52	ATG	TAL BUF
Total/NA	Analysis	8270D			574902	04/02/21 21:58	PJQ	TAL BUF
Total/NA	Analysis	300.0			768887	04/01/21 19:05	VMI	TAL EDI
Total/NA	Prep	3010A			768965	04/01/21 18:25	GAE	TAL EDI
Total/NA	Analysis	6010D			769104	04/02/21 11:51	CDC	TAL EDI
Total/NA	Analysis	350.1			769540	04/05/21 11:02	RAK	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F			768491	03/31/21 07:06	VBG	TAL EDI

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RNC Environmental Geology PC
Job ID: 460-230994-1
Project/Site: NEPERA - HARRIMAN, NY

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 NO3 F		Water	Nitrate as N

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	2-Picoline

Method Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-230994-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
6010D	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
350.1	Nitrogen, Ammonia	MCAWW	TAL EDI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-230994-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-230994-1	TB-1	Water	03/29/21 00:00	03/29/21 19:00	
460-230994-2	MW-24S	Water	03/29/21 08:55	03/29/21 19:00	
460-230994-3	MW-101	Water	03/29/21 09:25	03/29/21 19:00	
460-230994-4	MW-1S	Water	03/29/21 10:00	03/29/21 19:00	
460-230994-5	MW-102	Water	03/29/21 10:30	03/29/21 19:00	
460-230994-6	MW-7S	Water	03/29/21 10:45	03/29/21 19:00	
460-230994-7	MW-6D	Water	03/29/21 11:00	03/29/21 19:00	
460-230994-8	MW-35S	Water	03/29/21 11:30	03/29/21 19:00	
460-230994-9	MW-23D	Water	03/29/21 12:00	03/29/21 19:00	
460-230994-10	MW-11S	Water	03/29/21 12:40	03/29/21 19:00	

Chain of Custody Record 500070

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: RNC ENVIRONMENTAL GEO	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address: 72 BELLEROSE AVE	Analysis Turnaround Time			Sampler:
City/State/Zip: EAST NORTHPORT NY 11731	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 631-462-9540	TAT if different from Below _____			Client:
Fax:	☐ 2 weeks			pling:
Project Name: NEMENA	☐ 1 week			
Site: HANNIMAN	☐ 2 days			G No. 230994
P O #	☐ 1 day			

460-230994 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260_TCL	SVOC	GEN CHEM **	Mercury	Sample Specific Notes:
FB-1	3/29/21	—						X				1
MW-24S		0855						X	X	X	X	2
MW-101		0925						X	X	X		3
MW-1S		1000						X	X	X		4
MW-102		1030						X	X	X		5
MW-7S		1045						X	X			6
MW-6D		1100						X	X			7
MW-35S		1130						X	X	X		8
MW-23D		1200						X	X			9
MW-11S	↓	1240						X	X	X		10

SHORT HOLD

ELMSFORD 272

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

* PYRIDINE, ALPHA-PICOLINE, 2-AMINO-PICOLINE ** IRON, MANGANESE, SULFATE, NO3, AMMONIA

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
1		RNC ENV GEO, NC	3/29/21 1530		ETA	3/29/21 1530
2		ETA	3/29/21 1630			
3	Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
		TAL	3/29/21 1900		TAL	3/29/21 1900

3.2 C 2.9 3.0 C 3.2 C THF

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 230904

Number of Coolers: 2 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.2 °C	2.9 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	3.5 °C	3.2 °C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1	<2			<2											
3	<2			<2											
4	<2			<2											
5	<2			<2											
8	<2			<2											
10	<2			<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: N/A

Preservative Name/Conc.: N/A Volume of Preservative used (ml): N/A

Lot # of Preservative(s): N/A Expiration Date: N/A

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4.1
10/22/2019

Initials: _____ Date: 3/29/21

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-61128.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Melissa.Haas@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-230994-1
Address: 10 Hazelwood Drive,	Due Date Requested: 4/2/2021			Preservation Codes:
City: Amherst	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:
State, Zip: NY, 14228-2298	PO #:			
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	WO #:			
Email:	Project #: 46009639			
Project Name: NEPERA - HARRIMAN, NY	SSOW#:			
Site:				

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3510C_LVI SVOC - Client Specific List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-24S (460-230994-2)	3/29/21	08:55 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-101 (460-230994-3)	3/29/21	09:25 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-1S (460-230994-4)	3/29/21	10:00 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-102 (460-230994-5)	3/29/21	10:30 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-7S (460-230994-6)	3/29/21	10:45 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-6D (460-230994-7)	3/29/21	11:00 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-35S (460-230994-8)	3/29/21	11:30 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-23D (460-230994-9)	3/29/21	12:00 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-11S (460-230994-10)	3/29/21	12:40 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	[signature]	3/30/21 1900	ESAE			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3/31/21 1130	Company DAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8 #1

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: RNC Environmental Geology PC

Job Number: 460-230994-1

Login Number: 230994
List Number: 1
Creator: Lysy, Susan

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: RNC Environmental Geology PC

Job Number: 460-230994-1

Login Number: 230994
List Number: 2
Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo
List Creation: 03/31/21 03:58 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-231073-1
Client Project/Site: NEPERA - HARRIMAN, NY

For:
RNC Environmental Geology PC
72 Bellerose Ave
East Northport, New York 11731

Attn: Mr. Robert Casson

Melissa Haas

Authorized for release by:
4/7/2021 9:45:04 AM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

LINKS

Review your project results through TotalAccess

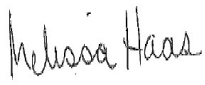
Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
4/7/2021 9:45:04 AM

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Definitions/Glossary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231073-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	Surrogate is outside acceptance limits.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-231073-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: RNC Environmental Geology PC

Project: NEPERA - HARRIMAN, NY

Report Number: 460-231073-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No TAT or container totals recorded on the COC.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples TB-2 (460-231073-1), MW-20DR (460-231073-2), FB-1 (460-231073-3), MW-20S (460-231073-4), MW-105 (460-231073-5), MW-8S (460-231073-6), MW-104 (460-231073-7), RW-1R (460-231073-8), MW-5S (460-231073-9), MW-27D (460-231073-10), MW-26D (460-231073-11) and MW-106 (460-231073-12) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 04/02/2021 and 04/03/2021.

Surrogate recovery for the following method blank was outside the upper control limit: (MB 460-768923/9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples, CCVIS, LCS/LCSD and MB contained an allowable number of surrogate compounds outside limits: TB-2 (460-231073-1), FB-1 (460-231073-3), MW-5S (460-231073-9), MW-27D (460-231073-10), MW-26D (460-231073-11), MW-106 (460-231073-12), (CCVIS 460-769244/2), (LCS 460-769244/3), (LCSD 460-769244/4) and (MB 460-769244/7). These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 460-769244 recovered above the upper control limit for 1,2-Dichloroethane-d4 (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other difficulties were encountered during the Volatiles analysis.

Job ID: 460-231073-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples MW-20DR (460-231073-2), FB-1 (460-231073-3), MW-20S (460-231073-4), MW-105 (460-231073-5), MW-8S (460-231073-6), MW-104 (460-231073-7), RW-1R (460-231073-8), MW-5S (460-231073-9), MW-27D (460-231073-10), MW-26D (460-231073-11) and MW-106 (460-231073-12) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 04/02/2021 and analyzed on 04/05/2021.

The following sample was diluted due to color, appearance, and viscosity: MW-104 (460-231073-7). Elevated reporting limits (RL) are provided.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-574834.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

METALS

Samples FB-1 (460-231073-3), MW-20S (460-231073-4), MW-105 (460-231073-5), MW-8S (460-231073-6), MW-104 (460-231073-7), RW-1R (460-231073-8) and MW-106 (460-231073-12) were analyzed for Metals in accordance with 6010D. The samples were prepared on 04/03/2021 and analyzed on 04/05/2021.

No difficulties were encountered during the Metals analysis.

All quality control parameters were within the acceptance limits.

ANIONS

Samples FB-1 (460-231073-3), MW-20S (460-231073-4), MW-105 (460-231073-5), MW-8S (460-231073-6), MW-104 (460-231073-7), RW-1R (460-231073-8) and MW-106 (460-231073-12) were analyzed for anions in accordance with EPA Method 300_ORGFM_28D Anions by Ion Chromatograph. The samples were analyzed on 04/01/2021.

The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-1R (460-231073-8). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples FB-1 (460-231073-3), MW-20S (460-231073-4), MW-105 (460-231073-5), MW-8S (460-231073-6), MW-104 (460-231073-7), RW-1R (460-231073-8) and MW-106 (460-231073-12) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 04/06/2021.

No difficulties were encountered during the ammonia analysis.

All quality control parameters were within the acceptance limits.

NITROGEN-NITRATE

Samples FB-1 (460-231073-3), MW-20S (460-231073-4), MW-105 (460-231073-5), MW-8S (460-231073-6), MW-104 (460-231073-7), RW-1R (460-231073-8) and MW-106 (460-231073-12) were analyzed for Nitrogen-Nitrate in accordance with SM 4500 NO3 F. The samples were analyzed on 04/01/2021.

Sample MW-106 (460-231073-12)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 460-231073-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

No difficulties were encountered during the nitrate analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231073-1

Client Sample ID: TB-2 — Lab Sample ID: 460-231073-1

No Detections.

Client Sample ID: MW-20DR — Lab Sample ID: 460-231073-2

No Detections.

Client Sample ID: FB-1 — Lab Sample ID: 460-231073-3

No Detections.

Client Sample ID: MW-20S — Lab Sample ID: 460-231073-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	72.6		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	3140		150	80.8	ug/L	1		6010D	Total/NA
Manganese	1390		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	0.16		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.096	J	0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: MW-105 — Lab Sample ID: 460-231073-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	16.9		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	25700		150	80.8	ug/L	1		6010D	Total/NA
Manganese	2250		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	2.0		0.10	0.050	mg/L	1		350.1	Total/NA

Client Sample ID: MW-8S — Lab Sample ID: 460-231073-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	14.7		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	8000		150	80.8	ug/L	1		6010D	Total/NA
Manganese	602		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	9.1		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.028	J	0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: MW-104 — Lab Sample ID: 460-231073-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	20.7		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	1950		150	80.8	ug/L	1		6010D	Total/NA
Manganese	1330		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	2.1		0.10	0.050	mg/L	1		350.1	Total/NA

Client Sample ID: RW-1R — Lab Sample ID: 460-231073-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	536		4.80	1.57	mg/L	10		300.0	Total/NA
Iron	26500		150	80.8	ug/L	1		6010D	Total/NA
Manganese	147		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	5.1		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.19		0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: MW-5S — Lab Sample ID: 460-231073-9

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231073-1

Client Sample ID: MW-27D — Lab Sample ID: 460-231073-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	2.8		2.0	0.65	ug/L	1		8260D	Total/NA

Client Sample ID: MW-26D — Lab Sample ID: 460-231073-11

No Detections.

Client Sample ID: MW-106 — Lab Sample ID: 460-231073-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	27.1		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	341		150	80.8	ug/L	1		6010D	Total/NA
Manganese	189		15.0	0.76	ug/L	1		6010D	Total/NA
Nitrate as N	4.1		0.50	0.11	mg/L	5		SM 4500 NO3 F	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-2

Lab Sample ID: 460-231073-1
Date Collected: 03/30/21 00:00
Matrix: Water
Date Received: 03/30/21 19:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 09:43	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 09:43	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 09:43	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 09:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*	*	*75 - 123*		*04/03/21 09:43*	*1*
Bromofluorobenzene	*101*		*76 - 120*		*04/03/21 09:43*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*04/03/21 09:43*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*04/03/21 09:43*	*1*

Client Sample ID: MW-20DR

Lab Sample ID: 460-231073-2
Date Collected: 03/30/21 08:25
Matrix: Water
Date Received: 03/30/21 19:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/02/21 03:30	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/02/21 03:30	1
Toluene	1.0	U	1.0	0.38	ug/L			04/02/21 03:30	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/02/21 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*75 - 123*		*04/02/21 03:30*	*1*
Bromofluorobenzene	*97*		*76 - 120*		*04/02/21 03:30*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*04/02/21 03:30*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*04/02/21 03:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	91	U	91	1.6	ug/L		04/02/21 08:42	04/05/21 15:45	1
Pyridine	28	U	28	0.47	ug/L		04/02/21 08:42	04/05/21 15:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*11*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 15:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*04/02/21 08:42*	*04/05/21 15:45*	*1*
2-Fluorobiphenyl	*95*		*48 - 120*	*04/02/21 08:42*	*04/05/21 15:45*	*1*
p-Terphenyl-d14	*74*		*60 - 148*	*04/02/21 08:42*	*04/05/21 15:45*	*1*
Phenol-d5	*57*		*22 - 120*	*04/02/21 08:42*	*04/05/21 15:45*	*1*
2-Fluorophenol	*75*		*35 - 120*	*04/02/21 08:42*	*04/05/21 15:45*	*1*
2,4,6-Tribromophenol	*87*		*41 - 120*	*04/02/21 08:42*	*04/05/21 15:45*	*1*

Client Sample ID: FB-1

Lab Sample ID: 460-231073-3
Date Collected: 03/30/21 08:30
Matrix: Water
Date Received: 03/30/21 19:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 10:04	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 10:04	1

Client Sample ID: FB-1

Date Collected: 03/30/21 08:30
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 10:04	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*129*	*	*75 - 123*		*04/03/21 10:04*	*1*
Bromofluorobenzene	*99*		*76 - 120*		*04/03/21 10:04*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*04/03/21 10:04*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*04/03/21 10:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/02/21 08:42	04/05/21 16:14	1
Pyridine	25	U	25	0.41	ug/L		04/02/21 08:42	04/05/21 16:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 16:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*04/02/21 08:42*	*04/05/21 16:14*	*1*
2-Fluorobiphenyl	*94*		*48 - 120*	*04/02/21 08:42*	*04/05/21 16:14*	*1*
p-Terphenyl-d14	*98*		*60 - 148*	*04/02/21 08:42*	*04/05/21 16:14*	*1*
Phenol-d5	*54*		*22 - 120*	*04/02/21 08:42*	*04/05/21 16:14*	*1*
2-Fluorophenol	*72*		*35 - 120*	*04/02/21 08:42*	*04/05/21 16:14*	*1*
2,4,6-Tribromophenol	*80*		*41 - 120*	*04/02/21 08:42*	*04/05/21 16:14*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.48	U	0.48	0.16	mg/L			04/01/21 13:46	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	80.8	ug/L		04/03/21 18:30	04/05/21 15:18	1
Manganese	15.0	U	15.0	0.76	ug/L		04/03/21 18:30	04/05/21 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.10	0.050	mg/L			04/06/21 15:27	1
Nitrate as N	0.10	U	0.10	0.021	mg/L			04/01/21 06:57	1

Client Sample ID: MW-20S

Date Collected: 03/30/21 08:50
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-4
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/02/21 03:50	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/02/21 03:50	1
Toluene	1.0	U	1.0	0.38	ug/L			04/02/21 03:50	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/02/21 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*75 - 123*		*04/02/21 03:50*	*1*

Client Sample ID: MW-20S

Date Collected: 03/30/21 08:50
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-4
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Bromofluorobenzene	*99*		*76 - 120*		*04/02/21 03:50*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 124*		*04/02/21 03:50*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*04/02/21 03:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/02/21 08:42	04/05/21 16:43	1
Pyridine	25	U	25	0.41	ug/L		04/02/21 08:42	04/05/21 16:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 16:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*04/02/21 08:42*	*04/05/21 16:43*	*1*
2-Fluorobiphenyl	*92*		*48 - 120*	*04/02/21 08:42*	*04/05/21 16:43*	*1*
p-Terphenyl-d14	*67*		*60 - 148*	*04/02/21 08:42*	*04/05/21 16:43*	*1*
Phenol-d5	*46*		*22 - 120*	*04/02/21 08:42*	*04/05/21 16:43*	*1*
2-Fluorophenol	*66*		*35 - 120*	*04/02/21 08:42*	*04/05/21 16:43*	*1*
2,4,6-Tribromophenol	*95*		*41 - 120*	*04/02/21 08:42*	*04/05/21 16:43*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**72.6**		0.48	0.16	mg/L			04/01/21 14:02	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3140**		150	80.8	ug/L		04/03/21 18:30	04/05/21 15:22	1
Manganese	**1390**		15.0	0.76	ug/L		04/03/21 18:30	04/05/21 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.16**		0.10	0.050	mg/L			04/06/21 15:28	1
Nitrate as N	**0.096**	**J**	0.10	0.021	mg/L			04/01/21 06:56	1

Client Sample ID: MW-105

Date Collected: 03/30/21 09:15
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-5
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/02/21 04:11	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/02/21 04:11	1
Toluene	1.0	U	1.0	0.38	ug/L			04/02/21 04:11	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/02/21 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*75 - 123*		*04/02/21 04:11*	*1*
Bromofluorobenzene	*99*		*76 - 120*		*04/02/21 04:11*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 124*		*04/02/21 04:11*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*04/02/21 04:11*	*1*

Client Sample ID: MW-105

Date Collected: 03/30/21 09:15
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/02/21 08:42	04/05/21 17:13	1
Pyridine	25	U	25	0.41	ug/L		04/02/21 08:42	04/05/21 17:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 17:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*85*		*46 - 120*	*04/02/21 08:42*	*04/05/21 17:13*	*1*
2-Fluorobiphenyl	*96*		*48 - 120*	*04/02/21 08:42*	*04/05/21 17:13*	*1*
p-Terphenyl-d14	*83*		*60 - 148*	*04/02/21 08:42*	*04/05/21 17:13*	*1*
Phenol-d5	*51*		*22 - 120*	*04/02/21 08:42*	*04/05/21 17:13*	*1*
2-Fluorophenol	*69*		*35 - 120*	*04/02/21 08:42*	*04/05/21 17:13*	*1*
2,4,6-Tribromophenol	*77*		*41 - 120*	*04/02/21 08:42*	*04/05/21 17:13*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**16.9**		0.48	0.16	mg/L			04/01/21 14:17	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**25700**		150	80.8	ug/L		04/03/21 18:30	04/05/21 15:26	1
Manganese	**2250**		15.0	0.76	ug/L		04/03/21 18:30	04/05/21 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**2.0**		0.10	0.050	mg/L			04/06/21 15:30	1
Nitrate as N	0.10	U	0.10	0.021	mg/L			04/01/21 06:56	1

Client Sample ID: MW-8S

Date Collected: 03/30/21 09:40
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/02/21 04:32	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/02/21 04:32	1
Toluene	1.0	U	1.0	0.38	ug/L			04/02/21 04:32	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/02/21 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*75 - 123*		*04/02/21 04:32*	*1*
Bromofluorobenzene	*98*		*76 - 120*		*04/02/21 04:32*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*04/02/21 04:32*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*04/02/21 04:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/02/21 08:42	04/05/21 17:42	1
Pyridine	25	U	25	0.41	ug/L		04/02/21 08:42	04/05/21 17:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 17:42*	*1*

Client Sample ID: MW-8S

Date Collected: 03/30/21 09:40
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*77*		*46 - 120*	*04/02/21 08:42*	*04/05/21 17:42*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*04/02/21 08:42*	*04/05/21 17:42*	*1*
p-Terphenyl-d14	*80*		*60 - 148*	*04/02/21 08:42*	*04/05/21 17:42*	*1*
Phenol-d5	*47*		*22 - 120*	*04/02/21 08:42*	*04/05/21 17:42*	*1*
2-Fluorophenol	*66*		*35 - 120*	*04/02/21 08:42*	*04/05/21 17:42*	*1*
2,4,6-Tribromophenol	*74*		*41 - 120*	*04/02/21 08:42*	*04/05/21 17:42*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**14.7**		0.48	0.16	mg/L			04/01/21 14:33	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**8000**		150	80.8	ug/L		04/03/21 18:30	04/05/21 15:38	1
Manganese	**602**		15.0	0.76	ug/L		04/03/21 18:30	04/05/21 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**9.1**		0.10	0.050	mg/L			04/06/21 15:31	1
Nitrate as N	**0.028**	**J**	0.10	0.021	mg/L			04/01/21 06:55	1

Client Sample ID: MW-104

Date Collected: 03/30/21 10:10
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-7
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/02/21 04:52	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/02/21 04:52	1
Toluene	1.0	U	1.0	0.38	ug/L			04/02/21 04:52	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/02/21 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 123*		*04/02/21 04:52*	*1*
Bromofluorobenzene	*98*		*76 - 120*		*04/02/21 04:52*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*04/02/21 04:52*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*04/02/21 04:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	400	U	400	7.0	ug/L		04/02/21 08:42	04/05/21 18:11	5
Pyridine	130	U	130	2.1	ug/L		04/02/21 08:42	04/05/21 18:11	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*50*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 18:11*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*85*		*46 - 120*	*04/02/21 08:42*	*04/05/21 18:11*	*5*
2-Fluorobiphenyl	*98*		*48 - 120*	*04/02/21 08:42*	*04/05/21 18:11*	*5*
p-Terphenyl-d14	*76*		*60 - 148*	*04/02/21 08:42*	*04/05/21 18:11*	*5*
Phenol-d5	*49*		*22 - 120*	*04/02/21 08:42*	*04/05/21 18:11*	*5*
2-Fluorophenol	*70*		*35 - 120*	*04/02/21 08:42*	*04/05/21 18:11*	*5*

Client Sample ID: MW-104

Date Collected: 03/30/21 10:10
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-7
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		41 - 120	04/02/21 08:42	04/05/21 18:11	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	20.7		0.48	0.16	mg/L			04/01/21 14:49	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1950		150	80.8	ug/L		04/03/21 18:30	04/05/21 15:42	1
Manganese	1330		15.0	0.76	ug/L		04/03/21 18:30	04/05/21 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	2.1		0.10	0.050	mg/L			04/06/21 15:33	1
Nitrate as N	0.10	U	0.10	0.021	mg/L			04/01/21 07:01	1

Client Sample ID: RW-1R

Date Collected: 03/30/21 10:35
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-8
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/02/21 05:13	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/02/21 05:13	1
Toluene	1.0	U	1.0	0.38	ug/L			04/02/21 05:13	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/02/21 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		75 - 123		04/02/21 05:13	1
Bromofluorobenzene	99		76 - 120		04/02/21 05:13	1
Dibromofluoromethane (Surr)	102		77 - 124		04/02/21 05:13	1
Toluene-d8 (Surr)	109		80 - 120		04/02/21 05:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/02/21 08:42	04/05/21 18:40	1
Pyridine	25	U	25	0.41	ug/L		04/02/21 08:42	04/05/21 18:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Aminopyridine TIC	10	U	ug/L			504-29-0	04/02/21 08:42	04/05/21 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		46 - 120	04/02/21 08:42	04/05/21 18:40	1
2-Fluorobiphenyl	94		48 - 120	04/02/21 08:42	04/05/21 18:40	1
p-Terphenyl-d14	74		60 - 148	04/02/21 08:42	04/05/21 18:40	1
Phenol-d5	52		22 - 120	04/02/21 08:42	04/05/21 18:40	1
2-Fluorophenol	70		35 - 120	04/02/21 08:42	04/05/21 18:40	1
2,4,6-Tribromophenol	79		41 - 120	04/02/21 08:42	04/05/21 18:40	1

Client Sample ID: RW-1R

Lab Sample ID: 460-231073-8
Matrix: Water
Date Collected: 03/30/21 10:35
Date Received: 03/30/21 19:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	536		4.80	1.57	mg/L			04/01/21 18:01	10

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	26500		150	80.8	ug/L		04/03/21 18:30	04/05/21 15:46	1
Manganese	147		15.0	0.76	ug/L		04/03/21 18:30	04/05/21 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	5.1		0.10	0.050	mg/L			04/06/21 15:38	1
Nitrate as N	0.19		0.10	0.021	mg/L			04/01/21 07:02	1

Client Sample ID: MW-5S

Lab Sample ID: 460-231073-9
Matrix: Water
Date Collected: 03/30/21 11:05
Date Received: 03/30/21 19:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 10:45	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 10:45	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 10:45	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*128*	*	*75 - 123*		*04/03/21 10:45*	*1*
Bromofluorobenzene	*98*		*76 - 120*		*04/03/21 10:45*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*04/03/21 10:45*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*04/03/21 10:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	91	U	91	1.6	ug/L		04/02/21 08:42	04/05/21 19:09	1
Pyridine	28	U	28	0.47	ug/L		04/02/21 08:42	04/05/21 19:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*11*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 19:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*89*		*46 - 120*	*04/02/21 08:42*	*04/05/21 19:09*	*1*
2-Fluorobiphenyl	*99*		*48 - 120*	*04/02/21 08:42*	*04/05/21 19:09*	*1*
p-Terphenyl-d14	*93*		*60 - 148*	*04/02/21 08:42*	*04/05/21 19:09*	*1*
Phenol-d5	*58*		*22 - 120*	*04/02/21 08:42*	*04/05/21 19:09*	*1*
2-Fluorophenol	*76*		*35 - 120*	*04/02/21 08:42*	*04/05/21 19:09*	*1*
2,4,6-Tribromophenol	*84*		*41 - 120*	*04/02/21 08:42*	*04/05/21 19:09*	*1*

Client Sample ID: MW-27D

Lab Sample ID: 460-231073-10
Matrix: Water
Date Collected: 03/30/21 11:30
Date Received: 03/30/21 19:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 11:06	1

Client Sample ID: MW-27D

Date Collected: 03/30/21 11:30
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 11:06	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 11:06	1
Xylenes, Total	**2.8**		2.0	0.65	ug/L			04/03/21 11:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*132*	*	*75 - 123*		*04/03/21 11:06*	*1*
Bromofluorobenzene	*100*		*76 - 120*		*04/03/21 11:06*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*04/03/21 11:06*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*04/03/21 11:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/02/21 08:42	04/05/21 19:39	1
Pyridine	25	U	25	0.41	ug/L		04/02/21 08:42	04/05/21 19:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 19:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*96*		*46 - 120*	*04/02/21 08:42*	*04/05/21 19:39*	*1*
2-Fluorobiphenyl	*105*		*48 - 120*	*04/02/21 08:42*	*04/05/21 19:39*	*1*
p-Terphenyl-d14	*102*		*60 - 148*	*04/02/21 08:42*	*04/05/21 19:39*	*1*
Phenol-d5	*56*		*22 - 120*	*04/02/21 08:42*	*04/05/21 19:39*	*1*
2-Fluorophenol	*77*		*35 - 120*	*04/02/21 08:42*	*04/05/21 19:39*	*1*
2,4,6-Tribromophenol	*92*		*41 - 120*	*04/02/21 08:42*	*04/05/21 19:39*	*1*

Client Sample ID: MW-26D

Date Collected: 03/30/21 12:10
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-11

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 11:26	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 11:26	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 11:26	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*	*75 - 123*		*04/03/21 11:26*	*1*
Bromofluorobenzene	*101*		*76 - 120*		*04/03/21 11:26*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*04/03/21 11:26*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*04/03/21 11:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/02/21 08:42	04/05/21 20:08	1
Pyridine	25	U	25	0.41	ug/L		04/02/21 08:42	04/05/21 20:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 20:08*	*1*

Client Sample ID: MW-26D

Date Collected: 03/30/21 12:10
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*46 - 120*	*04/02/21 08:42*	*04/05/21 20:08*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*04/02/21 08:42*	*04/05/21 20:08*	*1*
p-Terphenyl-d14	*81*		*60 - 148*	*04/02/21 08:42*	*04/05/21 20:08*	*1*
Phenol-d5	*52*		*22 - 120*	*04/02/21 08:42*	*04/05/21 20:08*	*1*
2-Fluorophenol	*68*		*35 - 120*	*04/02/21 08:42*	*04/05/21 20:08*	*1*
2,4,6-Tribromophenol	*80*		*41 - 120*	*04/02/21 08:42*	*04/05/21 20:08*	*1*

Client Sample ID: MW-106

Date Collected: 03/30/21 12:35
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-12
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 11:47	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 11:47	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 11:47	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*133*	*	*75 - 123*		*04/03/21 11:47*	*1*
Bromofluorobenzene	*102*		*76 - 120*		*04/03/21 11:47*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*04/03/21 11:47*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*04/03/21 11:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/02/21 08:42	04/05/21 20:38	1
Pyridine	25	U	25	0.41	ug/L		04/02/21 08:42	04/05/21 20:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/02/21 08:42*	*04/05/21 20:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*65*		*46 - 120*	*04/02/21 08:42*	*04/05/21 20:38*	*1*
2-Fluorobiphenyl	*73*		*48 - 120*	*04/02/21 08:42*	*04/05/21 20:38*	*1*
p-Terphenyl-d14	*63*		*60 - 148*	*04/02/21 08:42*	*04/05/21 20:38*	*1*
Phenol-d5	*39*		*22 - 120*	*04/02/21 08:42*	*04/05/21 20:38*	*1*
2-Fluorophenol	*53*		*35 - 120*	*04/02/21 08:42*	*04/05/21 20:38*	*1*
2,4,6-Tribromophenol	*54*		*41 - 120*	*04/02/21 08:42*	*04/05/21 20:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**27.1**		0.48	0.16	mg/L			04/01/21 15:21	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**341**		150	80.8	ug/L		04/03/21 18:30	04/05/21 15:50	1
Manganese	**189**		15.0	0.76	ug/L		04/03/21 18:30	04/05/21 15:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.10	0.050	mg/L			04/06/21 15:49	1

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231073-1

Client Sample ID: MW-106
Date Collected: 03/30/21 12:35
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-12
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4.1		0.50	0.11	mg/L			04/01/21 07:07	5

Surrogate Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231073-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (75-123)	BFB (76-120)	DBFM (77-124)	TOL (80-120)
460-231073-1	TB-2	126 *	101	103	108
460-231073-2	MW-20DR	118	97	100	110
460-231073-3	FB-1	129 *	99	103	110
460-231073-4	MW-20S	116	99	97	109
460-231073-5	MW-105	118	99	98	109
460-231073-6	MW-8S	119	98	100	109
460-231073-7	MW-104	123	98	101	109
460-231073-8	RW-1R	122	99	102	109
460-231073-9	MW-5S	128 *	98	103	111
460-231073-10	MW-27D	132 *	100	103	109
460-231073-11	MW-26D	133 *	101	104	110
460-231073-12	MW-106	133 *	102	102	111
LCS 460-768923/5	Lab Control Sample	115	98	98	107
LCS 460-769244/3	Lab Control Sample	124 *	102	100	106
LCSD 460-768923/7	Lab Control Sample Dup	120	98	97	104
LCSD 460-769244/4	Lab Control Sample Dup	126 *	101	101	108
MB 460-768923/9	Method Blank	124 *	98	101	113
MB 460-769244/7	Method Blank	126 *	100	103	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	NBZ (46-120)	FBP (48-120)	TPHd14 (60-148)	PHL (22-120)	2FP (35-120)	TBP (41-120)
460-231073-2	MW-20DR	86	95	74	57	75	87
460-231073-3	FB-1	86	94	98	54	72	80
460-231073-4	MW-20S	86	92	67	46	66	95
460-231073-5	MW-105	85	96	83	51	69	77
460-231073-6	MW-8S	77	85	80	47	66	74
460-231073-7	MW-104	85	98	76	49	70	64
460-231073-8	RW-1R	85	94	74	52	70	79
460-231073-9	MW-5S	89	99	93	58	76	84
460-231073-10	MW-27D	96	105	102	56	77	92
460-231073-11	MW-26D	83	91	81	52	68	80
460-231073-12	MW-106	65	73	63	39	53	54
LCS 480-574834/2-A	Lab Control Sample	85	89	89	56	68	89
LCSD 480-574834/3-A	Lab Control Sample Dup	90	93	94	58	74	91
MB 480-574834/1-A	Method Blank	78	89	86	50	64	60

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Surrogate Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231073-1

2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-768923/9
Matrix: Water
Analysis Batch: 768923

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/01/21 21:38	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/01/21 21:38	1
Toluene	1.0	U	1.0	0.38	ug/L			04/01/21 21:38	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/01/21 21:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*	*	*75 - 123*		*04/01/21 21:38*	*1*
Bromofluorobenzene	*98*		*76 - 120*		*04/01/21 21:38*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*04/01/21 21:38*	*1*
Toluene-d8 (Surr)	*113*		*80 - 120*		*04/01/21 21:38*	*1*

Lab Sample ID: LCS 460-768923/5
Matrix: Water
Analysis Batch: 768923

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	21.2		ug/L		106	78 - 126		
Ethylbenzene			20.0	19.6		ug/L		98	78 - 120		
Toluene			20.0	19.5		ug/L		98	78 - 119		
Xylenes, Total			40.0	38.9		ug/L		97	78 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 123*
Bromofluorobenzene	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 124*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LCSD 460-768923/7
Matrix: Water
Analysis Batch: 768923

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	20.3		ug/L		101	78 - 126	4	30
Ethylbenzene			20.0	18.5		ug/L		92	78 - 120	6	30
Toluene			20.0	18.7		ug/L		93	78 - 119	5	30
Xylenes, Total			40.0	36.9		ug/L		92	78 - 122	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 123*
Bromofluorobenzene	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 124*
Toluene-d8 (Surr)	*104*		*80 - 120*

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

Lab Sample ID: MB 460-769244/7
Matrix: Water
Analysis Batch: 769244

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 09:23	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 09:23	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 09:23	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 09:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*	*	*75 - 123*		*04/03/21 09:23*	*1*
Bromofluorobenzene	*100*		*76 - 120*		*04/03/21 09:23*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*04/03/21 09:23*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*04/03/21 09:23*	*1*

Lab Sample ID: LCS 460-769244/3
Matrix: Water
Analysis Batch: 769244

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	21.1		ug/L		105	78 - 126
Ethylbenzene	20.0	19.8		ug/L		99	78 - 120
Toluene	20.0	19.7		ug/L		98	78 - 119
Xylenes, Total	40.0	39.1		ug/L		98	78 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*124*	*	*75 - 123*
Bromofluorobenzene	*102*		*76 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 124*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 460-769244/4
Matrix: Water
Analysis Batch: 769244

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	22.0		ug/L		110	78 - 126	5	30
Ethylbenzene	20.0	20.8		ug/L		104	78 - 120	5	30
Toluene	20.0	20.3		ug/L		101	78 - 119	3	30
Xylenes, Total	40.0	40.9		ug/L		102	78 - 122	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*126*	*	*75 - 123*
Bromofluorobenzene	*101*		*76 - 120*
Dibromofluoromethane (Surr)	*101*		*77 - 124*
Toluene-d8 (Surr)	*108*		*80 - 120*

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

Lab Sample ID: MB 480-574834/1-A
Matrix: Water
Analysis Batch: 575051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/02/21 08:42	04/05/21 14:19	1
Pyridine	25	U	25	0.41	ug/L		04/02/21 08:42	04/05/21 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*78*		*46 - 120*	*04/02/21 08:42*	*04/05/21 14:19*	*1*
2-Fluorobiphenyl	*89*		*48 - 120*	*04/02/21 08:42*	*04/05/21 14:19*	*1*
p-Terphenyl-d14	*86*		*60 - 148*	*04/02/21 08:42*	*04/05/21 14:19*	*1*
Phenol-d5	*50*		*22 - 120*	*04/02/21 08:42*	*04/05/21 14:19*	*1*
2-Fluorophenol	*64*		*35 - 120*	*04/02/21 08:42*	*04/05/21 14:19*	*1*
2,4,6-Tribromophenol	*60*		*41 - 120*	*04/02/21 08:42*	*04/05/21 14:19*	*1*

Lab Sample ID: LCS 480-574834/2-A
Matrix: Water
Analysis Batch: 575051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	64.0	23.0	J	ug/L		36	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*85*		*46 - 120*
2-Fluorobiphenyl	*89*		*48 - 120*
p-Terphenyl-d14	*89*		*60 - 148*
Phenol-d5	*56*		*22 - 120*
2-Fluorophenol	*68*		*35 - 120*
2,4,6-Tribromophenol	*89*		*41 - 120*

Lab Sample ID: LCSD 480-574834/3-A
Matrix: Water
Analysis Batch: 575051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574834

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyridine	64.0	27.8		ug/L		43	10 - 120	19	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*90*		*46 - 120*
2-Fluorobiphenyl	*93*		*48 - 120*
p-Terphenyl-d14	*94*		*60 - 148*
Phenol-d5	*58*		*22 - 120*
2-Fluorophenol	*74*		*35 - 120*
2,4,6-Tribromophenol	*91*		*41 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-768884/3
Matrix: Water
Analysis Batch: 768884

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.48	U	0.48	0.16	mg/L			04/01/21 11:38	1

Lab Sample ID: LCS 460-768884/5
Matrix: Water
Analysis Batch: 768884

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	4.80	5.037		mg/L		105	90 - 110

Lab Sample ID: LCSD 460-768884/6
Matrix: Water
Analysis Batch: 768884

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	4.80	5.242		mg/L		109	90 - 110	4	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 460-769317/1-A
Matrix: Water
Analysis Batch: 769558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 769317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	80.8	ug/L		04/03/21 18:30	04/05/21 14:06	1
Manganese	15.0	U	15.0	0.76	ug/L		04/03/21 18:30	04/05/21 14:06	1

Lab Sample ID: LCS 460-769317/2-A
Matrix: Water
Analysis Batch: 769558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 769317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	1053		ug/L		105	80 - 120
Manganese	500	512.3		ug/L		102	80 - 120

Lab Sample ID: 460-231000-D-1-B MS
Matrix: Water
Analysis Batch: 769558

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 769317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	4390		1000	5332	4	ug/L		95	75 - 125
Manganese	3530		500	4006	4	ug/L		96	75 - 125

Lab Sample ID: 460-231000-A-1-A DU
Matrix: Water
Analysis Batch: 769558

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 769317

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	4390		4360		ug/L		0.6	20
Manganese	3530		3534		ug/L		0.2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 460-769799/84
Matrix: Water
Analysis Batch: 769799

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.10	0.050	mg/L			04/06/21 15:24	1

Lab Sample ID: LCS 460-769799/85
Matrix: Water
Analysis Batch: 769799

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.04		mg/L		102	89 - 113

Lab Sample ID: MRL 460-769799/12
Matrix: Water
Analysis Batch: 769799

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.100	0.127		mg/L		127	50 - 150

Lab Sample ID: 460-231073-7 MS
Matrix: Water
Analysis Batch: 769799

Client Sample ID: MW-104
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.1		2.00	4.13		mg/L		103	89 - 113

Lab Sample ID: 460-231073-7 MSD
Matrix: Water
Analysis Batch: 769799

Client Sample ID: MW-104
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	2.1		2.00	4.11		mg/L		102	89 - 113	0	10

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 460-768801/14
Matrix: Water
Analysis Batch: 768801

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.10	0.021	mg/L			04/01/21 06:53	1

Lab Sample ID: MRL 460-768801/11
Matrix: Water
Analysis Batch: 768801

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.0500	0.0613	J	mg/L		123	50 - 150

Method: SM 4500 NO3 F - Nitrogen, Nitrate (Continued)

Lab Sample ID: 460-231073-6 MS
Matrix: Water
Analysis Batch: 768801

Client Sample ID: MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.028	J	0.500	0.525		mg/L		99	85 - 115		

Lab Sample ID: 460-231073-6 MSD
Matrix: Water
Analysis Batch: 768801

Client Sample ID: MW-8S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.028	J	0.500	0.529		mg/L		100	85 - 115	1	18

GC/MS VOA

Analysis Batch: 768923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-2	MW-20DR	Total/NA	Water	8260D	
460-231073-4	MW-20S	Total/NA	Water	8260D	
460-231073-5	MW-105	Total/NA	Water	8260D	
460-231073-6	MW-8S	Total/NA	Water	8260D	
460-231073-7	MW-104	Total/NA	Water	8260D	
460-231073-8	RW-1R	Total/NA	Water	8260D	
MB 460-768923/9	Method Blank	Total/NA	Water	8260D	
LCS 460-768923/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-768923/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 769244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-1	TB-2	Total/NA	Water	8260D	
460-231073-3	FB-1	Total/NA	Water	8260D	
460-231073-9	MW-5S	Total/NA	Water	8260D	
460-231073-10	MW-27D	Total/NA	Water	8260D	
460-231073-11	MW-26D	Total/NA	Water	8260D	
460-231073-12	MW-106	Total/NA	Water	8260D	
MB 460-769244/7	Method Blank	Total/NA	Water	8260D	
LCS 460-769244/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-769244/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 574834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-2	MW-20DR	Total/NA	Water	3510C	
460-231073-3	FB-1	Total/NA	Water	3510C	
460-231073-4	MW-20S	Total/NA	Water	3510C	
460-231073-5	MW-105	Total/NA	Water	3510C	
460-231073-6	MW-8S	Total/NA	Water	3510C	
460-231073-7	MW-104	Total/NA	Water	3510C	
460-231073-8	RW-1R	Total/NA	Water	3510C	
460-231073-9	MW-5S	Total/NA	Water	3510C	
460-231073-10	MW-27D	Total/NA	Water	3510C	
460-231073-11	MW-26D	Total/NA	Water	3510C	
460-231073-12	MW-106	Total/NA	Water	3510C	
MB 480-574834/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-574834/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-574834/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 575051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-2	MW-20DR	Total/NA	Water	8270D	574834
460-231073-3	FB-1	Total/NA	Water	8270D	574834
460-231073-4	MW-20S	Total/NA	Water	8270D	574834
460-231073-5	MW-105	Total/NA	Water	8270D	574834
460-231073-6	MW-8S	Total/NA	Water	8270D	574834
460-231073-7	MW-104	Total/NA	Water	8270D	574834
460-231073-8	RW-1R	Total/NA	Water	8270D	574834
460-231073-9	MW-5S	Total/NA	Water	8270D	574834

GC/MS Semi VOA (Continued)

Analysis Batch: 575051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-10	MW-27D	Total/NA	Water	8270D	574834
460-231073-11	MW-26D	Total/NA	Water	8270D	574834
460-231073-12	MW-106	Total/NA	Water	8270D	574834
MB 480-574834/1-A	Method Blank	Total/NA	Water	8270D	574834
LCS 480-574834/2-A	Lab Control Sample	Total/NA	Water	8270D	574834
LCSD 480-574834/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	574834

HPLC/IC

Analysis Batch: 768884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-3	FB-1	Total/NA	Water	300.0	
460-231073-4	MW-20S	Total/NA	Water	300.0	
460-231073-5	MW-105	Total/NA	Water	300.0	
460-231073-6	MW-8S	Total/NA	Water	300.0	
460-231073-7	MW-104	Total/NA	Water	300.0	
460-231073-8	RW-1R	Total/NA	Water	300.0	
460-231073-12	MW-106	Total/NA	Water	300.0	
MB 460-768884/3	Method Blank	Total/NA	Water	300.0	
LCS 460-768884/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-768884/6	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 769317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-3	FB-1	Total/NA	Water	3010A	
460-231073-4	MW-20S	Total/NA	Water	3010A	
460-231073-5	MW-105	Total/NA	Water	3010A	
460-231073-6	MW-8S	Total/NA	Water	3010A	
460-231073-7	MW-104	Total/NA	Water	3010A	
460-231073-8	RW-1R	Total/NA	Water	3010A	
460-231073-12	MW-106	Total/NA	Water	3010A	
MB 460-769317/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-769317/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-231000-D-1-B MS	Matrix Spike	Total/NA	Water	3010A	
460-231000-A-1-A DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 769558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-3	FB-1	Total/NA	Water	6010D	769317
460-231073-4	MW-20S	Total/NA	Water	6010D	769317
460-231073-5	MW-105	Total/NA	Water	6010D	769317
460-231073-6	MW-8S	Total/NA	Water	6010D	769317
460-231073-7	MW-104	Total/NA	Water	6010D	769317
460-231073-8	RW-1R	Total/NA	Water	6010D	769317
460-231073-12	MW-106	Total/NA	Water	6010D	769317
MB 460-769317/1-A	Method Blank	Total/NA	Water	6010D	769317
LCS 460-769317/2-A	Lab Control Sample	Total/NA	Water	6010D	769317
460-231000-D-1-B MS	Matrix Spike	Total/NA	Water	6010D	769317
460-231000-A-1-A DU	Duplicate	Total/NA	Water	6010D	769317

General Chemistry

Analysis Batch: 768801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-3	FB-1	Total/NA	Water	SM 4500 NO3 F	
460-231073-4	MW-20S	Total/NA	Water	SM 4500 NO3 F	
460-231073-5	MW-105	Total/NA	Water	SM 4500 NO3 F	
460-231073-6	MW-8S	Total/NA	Water	SM 4500 NO3 F	
460-231073-7	MW-104	Total/NA	Water	SM 4500 NO3 F	
460-231073-8	RW-1R	Total/NA	Water	SM 4500 NO3 F	
460-231073-12	MW-106	Total/NA	Water	SM 4500 NO3 F	
MB 460-768801/14	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCSSRM 460-768801/16	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MRL 460-768801/11	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
460-231073-6 MS	MW-8S	Total/NA	Water	SM 4500 NO3 F	
460-231073-6 MSD	MW-8S	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 769799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231073-3	FB-1	Total/NA	Water	350.1	
460-231073-4	MW-20S	Total/NA	Water	350.1	
460-231073-5	MW-105	Total/NA	Water	350.1	
460-231073-6	MW-8S	Total/NA	Water	350.1	
460-231073-7	MW-104	Total/NA	Water	350.1	
460-231073-8	RW-1R	Total/NA	Water	350.1	
460-231073-12	MW-106	Total/NA	Water	350.1	
MB 460-769799/84	Method Blank	Total/NA	Water	350.1	
LCS 460-769799/85	Lab Control Sample	Total/NA	Water	350.1	
MRL 460-769799/12	Lab Control Sample	Total/NA	Water	350.1	
460-231073-7 MS	MW-104	Total/NA	Water	350.1	
460-231073-7 MSD	MW-104	Total/NA	Water	350.1	

Client Sample ID: TB-2
Date Collected: 03/30/21 00:00
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769244	04/03/21 09:43	SZD	TAL EDI

Client Sample ID: MW-20DR
Date Collected: 03/30/21 08:25
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	768923	04/02/21 03:30	VBP	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 15:45	JMM	TAL BUF

Client Sample ID: FB-1
Date Collected: 03/30/21 08:30
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769244	04/03/21 10:04	SZD	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 16:14	JMM	TAL BUF
Total/NA	Analysis	300.0		1	768884	04/01/21 13:46	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 15:18	YZH	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 15:27	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768801	04/01/21 06:57	VBG	TAL EDI

Client Sample ID: MW-20S
Date Collected: 03/30/21 08:50
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	768923	04/02/21 03:50	VBP	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 16:43	JMM	TAL BUF
Total/NA	Analysis	300.0		1	768884	04/01/21 14:02	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 15:22	YZH	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 15:28	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768801	04/01/21 06:56	VBG	TAL EDI

Client Sample ID: MW-105
Date Collected: 03/30/21 09:15
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	768923	04/02/21 04:11	VBP	TAL EDI

Client Sample ID: MW-105

Lab Sample ID: 460-231073-5

Date Collected: 03/30/21 09:15

Matrix: Water

Date Received: 03/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 17:13	JMM	TAL BUF
Total/NA	Analysis	300.0		1	768884	04/01/21 14:17	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 15:26	YZH	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 15:30	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768801	04/01/21 06:56	VBG	TAL EDI

Client Sample ID: MW-8S

Lab Sample ID: 460-231073-6

Date Collected: 03/30/21 09:40

Matrix: Water

Date Received: 03/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	768923	04/02/21 04:32	VBP	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 17:42	JMM	TAL BUF
Total/NA	Analysis	300.0		1	768884	04/01/21 14:33	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 15:38	YZH	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 15:31	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768801	04/01/21 06:55	VBG	TAL EDI

Client Sample ID: MW-104

Lab Sample ID: 460-231073-7

Date Collected: 03/30/21 10:10

Matrix: Water

Date Received: 03/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	768923	04/02/21 04:52	VBP	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		5	575051	04/05/21 18:11	JMM	TAL BUF
Total/NA	Analysis	300.0		1	768884	04/01/21 14:49	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 15:42	YZH	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 15:33	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768801	04/01/21 07:01	VBG	TAL EDI

Client Sample ID: RW-1R

Lab Sample ID: 460-231073-8

Date Collected: 03/30/21 10:35

Matrix: Water

Date Received: 03/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	768923	04/02/21 05:13	VBP	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 18:40	JMM	TAL BUF

Client Sample ID: RW-1R
Date Collected: 03/30/21 10:35
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	768884	04/01/21 18:01	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 15:46	YZH	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 15:38	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768801	04/01/21 07:02	VBG	TAL EDI

Client Sample ID: MW-5S
Date Collected: 03/30/21 11:05
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769244	04/03/21 10:45	SZD	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 19:09	JMM	TAL BUF

Client Sample ID: MW-27D
Date Collected: 03/30/21 11:30
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769244	04/03/21 11:06	SZD	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 19:39	JMM	TAL BUF

Client Sample ID: MW-26D
Date Collected: 03/30/21 12:10
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769244	04/03/21 11:26	SZD	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 20:08	JMM	TAL BUF

Client Sample ID: MW-106
Date Collected: 03/30/21 12:35
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769244	04/03/21 11:47	SZD	TAL EDI
Total/NA	Prep	3510C			574834	04/02/21 08:42	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575051	04/05/21 20:38	JMM	TAL BUF
Total/NA	Analysis	300.0		1	768884	04/01/21 15:21	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 15:50	YZH	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 15:49	DLE	TAL EDI

Lab Chronicle

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231073-1

Client Sample ID: MW-106
Date Collected: 03/30/21 12:35
Date Received: 03/30/21 19:30

Lab Sample ID: 460-231073-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO3 F		5	768801	04/01/21 07:07	VBG	TAL EDI

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RNC Environmental Geology PC
Job ID: 460-231073-1
Project/Site: NEPERA - HARRIMAN, NY

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 NO3 F		Water	Nitrate as N

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	2-Picoline

Method Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231073-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
6010D	Metals (ICP)	SW846	TAL EDI
350.1	Nitrogen, Ammonia	MCAWW	TAL EDI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231073-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-231073-1	TB-2	Water	03/30/21 00:00	03/30/21 19:30	
460-231073-2	MW-20DR	Water	03/30/21 08:25	03/30/21 19:30	
460-231073-3	FB-1	Water	03/30/21 08:30	03/30/21 19:30	
460-231073-4	MW-20S	Water	03/30/21 08:50	03/30/21 19:30	
460-231073-5	MW-105	Water	03/30/21 09:15	03/30/21 19:30	
460-231073-6	MW-8S	Water	03/30/21 09:40	03/30/21 19:30	
460-231073-7	MW-104	Water	03/30/21 10:10	03/30/21 19:30	
460-231073-8	RW-1R	Water	03/30/21 10:35	03/30/21 19:30	
460-231073-9	MW-5S	Water	03/30/21 11:05	03/30/21 19:30	
460-231073-10	MW-27D	Water	03/30/21 11:30	03/30/21 19:30	
460-231073-11	MW-26D	Water	03/30/21 12:10	03/30/21 19:30	
460-231073-12	MW-106	Water	03/30/21 12:35	03/30/21 19:30	

Chain of Custody Record 500069

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: RNC ENV. GEOLOGY, P.C	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address: 72 BELLEROSE AVE	Analysis Turnaround Time			Sampler:
City/State/Zip: E. NORTHPORT NY 11731	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 631-482-9590	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: HEPENA				Job / SDG No.: 231073
Site: HANNIMAN				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX	SVOC *	GEN CHEM **	Sample Specific Notes:
~~FB-2~~ TB-2	3/30/21	—		AQ				X	~~X~~		-1
MW-20DR		0825						X	X		-2
FB-1		0830						X	X	X	-3
MW-20S		0850						X	X	X	-4
MW-10S		0915						X	X	X	-5
MW-8S		0940						X	X	X	-6
MW-104		1010						X	X	X	-7
RW-1R		1035						X	X	X	-8
MW-5S		1105						X	X		-9
MW-27D		1130						X	X		-10
MW-26D		1210						X	X		-11
MW-106	↓	1235		↓				X	X	X	-12

460-231073 Chain of Custody

SHORT HOLD

ELMSFORD 272

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
* PYRIDINE, ALPHA PICOLINE, 2-AMINOPHENOL ** IRON, MANGANESE, SULFATE, NITRATE, AMMONIA

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	RNC ENV GEOLOGY, PC	3/30/21 1515		ETA	3/30/21 1515
Relinquished by:	ETA	3/30/21 1600			3/30/21 1600
Relinquished by:		3/30/21 1830	Received in Laboratory by:	TA601	3/30/21 1930

2.2 6 2 2 FRG

4/7/2021

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 231073

Number of Coolers: 1 IR Gun #: 11

Cooler Temperatures

	Raw	Corrected		Raw	Corrected		Raw	Corrected
Cooler #1:	2.7°C	2.4°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
3	<2			<2											
4	<2			<2											
5	<2			<2											
6	<2			<2											
7	<2			<2											
9	<2			<2											
12	<2			<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: NA

Preservative Name/Conc.: NA

Lot # of Preservative(s): NA

Volume of Preservative used (ml): NA

Expiration Date: NA

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: [signature]

Date: 3/30/21

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-61136.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Melissa.Haas@Eurofinset.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-231073-1
Address: 10 Hazelwood Drive,	Due Date Requested: 4/5/2021			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: NEPERA - HARRIMAN, NY	Project #: 46009639			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3510C_LVI SVOC - Client Specific List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-20DR (460-231073-2)	3/30/21	08:25 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
FB-1 (460-231073-3)	3/30/21	08:30 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-20S (460-231073-4)	3/30/21	08:50 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-105 (460-231073-5)	3/30/21	09:15 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-8S (460-231073-6)	3/30/21	09:40 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-104 (460-231073-7)	3/30/21	10:10 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
RW-1R (460-231073-8)	3/30/21	10:35 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-5S (460-231073-9)	3/30/21	11:05 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-27D (460-231073-10)	3/30/21	11:30 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/31/21 1900	FEDEX			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/1/21 1000	Company DA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8 #1

Ver: 11/01/2020

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-61136.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Melissa.Haas@Eurofinset.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-231073-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 4/5/2021			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298	PO #:			
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	WO #:			
Email:	Project #: 46009639			
Project Name: NEPERA - HARRIMAN, NY	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3510C_LVI SVOC - Client Specific List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-26D (460-231073-11)	3/30/21	12:10 Eastern		Water			X		2-Aminopyridine is a targeted TIC.
MW-106 (460-231073-12)	3/30/21	12:35 Eastern		Water			X		2-Aminopyridine is a targeted TIC.

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/31/21 1900	Company ETAEL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/1/21 1000	Company TA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8 #1

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: RNC Environmental Geology PC

Job Number: 460-231073-1

Login Number: 231073
List Number: 1
Creator: Lysy, Susan

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: RNC Environmental Geology PC

Job Number: 460-231073-1

Login Number: 231073
List Number: 2
Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo
List Creation: 04/01/21 04:40 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-231154-1
Client Project/Site: NEPERA - HARRIMAN, NY

For:
RNC Environmental Geology PC
72 Bellerose Ave
East Northport, New York 11731

Attn: Mr. Robert Casson

Melissa Haas

Authorized for release by:
4/9/2021 8:13:15 AM

Melissa Haas, Senior Project Manager
(203)308-0880
Melissa.Haas@Eurofinset.com

LINKS

Review your project results through TotalAccess

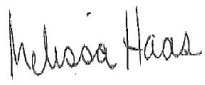
Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Melissa Haas
Senior Project Manager
4/9/2021 8:13:15 AM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-231154-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: RNC Environmental Geology PC

Project: NEPERA - HARRIMAN, NY

Report Number: 460-231154-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 3/31/2021 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 2.5º C.

Receipt Exceptions

Received 4 unpreserved 250ml amber containers for MW-12S (sample #4) and none for MW-16S (sample #9). Sample time matches the COC for MW-16S. Logged in for sample #9.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples TB-3 (460-231154-1), DUP (460-231154-2), MW-103 (460-231154-3), MW-12S (460-231154-4), MW-33S (460-231154-5), MW-20D (460-231154-6), MW-53D (460-231154-7), MW-37S (460-231154-8), MW-16S (460-231154-9), MW-25S (460-231154-10), OW-7 (460-231154-11) and OW-6 (460-231154-12) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 04/03/2021 and 04/06/2021.

The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP (460-231154-2) and OW-6 (460-231154-12). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples DUP (460-231154-2), MW-103 (460-231154-3), MW-12S (460-231154-4), MW-33S (460-231154-5), MW-20D (460-231154-6), MW-53D (460-231154-7), MW-37S (460-231154-8), MW-16S (460-231154-9), MW-25S (460-231154-10), OW-7 (460-231154-11) and OW-6 (460-231154-12) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The

Job ID: 460-231154-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

samples were prepared on 04/06/2021 and analyzed on 04/07/2021 and 04/08/2021.

The following sample was diluted due to color, appearance, and viscosity: MW-53D (460-231154-7). Elevated reporting limits (RL) are provided.

The following sample was diluted to bring the concentration of target analytes within the calibration range: DUP (460-231154-2). Elevated reporting limits (RLs) are provided.

The following sample was diluted due to color, appearance, and viscosity: OW-6 (460-231154-12). Elevated reporting limits (RL) are provided.

Pyridine failed the recovery criteria low for the MS of sample 480-182761-1 in batch 480-575352.

Pyridine failed the recovery criteria low for the MSD of sample 480-182761-1 in batch 480-575352.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples DUP (460-231154-2), MW-103 (460-231154-3), MW-33S (460-231154-5), MW-53D (460-231154-7), MW-37S (460-231154-8), MW-16S (460-231154-9), MW-25S (460-231154-10), OW-7 (460-231154-11) and OW-6 (460-231154-12) were analyzed for Metals in accordance with 6010D. The samples were prepared on 04/03/2021 and 04/06/2021 and analyzed on 04/05/2021 and 04/06/2021.

No difficulties were encountered during the Metals analysis.

All quality control parameters were within the acceptance limits.

ANIONS

Samples DUP (460-231154-2), MW-103 (460-231154-3), MW-33S (460-231154-5), MW-53D (460-231154-7), MW-37S (460-231154-8), MW-16S (460-231154-9), MW-25S (460-231154-10), OW-7 (460-231154-11) and OW-6 (460-231154-12) were analyzed for anions in accordance with EPA Method 300_ORGFM_28D Anions by Ion Chromatograph. The samples were analyzed on 04/01/2021 and 04/02/2021.

Sample MW-37S (460-231154-8)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples DUP (460-231154-2), MW-103 (460-231154-3), MW-33S (460-231154-5), MW-53D (460-231154-7), MW-37S (460-231154-8), MW-16S (460-231154-9), MW-25S (460-231154-10), OW-7 (460-231154-11) and OW-6 (460-231154-12) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 04/06/2021.

Samples MW-33S (460-231154-5)[20X], MW-53D (460-231154-7)[2X] and MW-16S (460-231154-9)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the ammonia analysis.

All quality control parameters were within the acceptance limits.

NITROGEN-NITRATE

Samples DUP (460-231154-2), MW-103 (460-231154-3), MW-33S (460-231154-5), MW-53D (460-231154-7), MW-37S (460-231154-8), MW-16S (460-231154-9), MW-25S (460-231154-10), OW-7 (460-231154-11) and OW-6 (460-231154-12) were analyzed for

Job ID: 460-231154-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

Nitrogen-Nitrate in accordance with SM 4500 NO3 F. The samples were analyzed on 04/01/2021.

Nitrate as N failed the recovery criteria high for MRL 460-768945/11.

No other difficulties were encountered during the nitrate analysis.

All other quality control parameters were within the acceptance limits.

Detection Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231154-1

Client Sample ID: TB-3 — Lab Sample ID: 460-231154-1

No Detections.

Client Sample ID: DUP — Lab Sample ID: 460-231154-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1300		5.0	1.0	ug/L	5		8260D	Total/NA
Pyridine	0.50	J	26	0.43	ug/L	1		8270D	Total/NA
2-Picoline - DL	190	J	830	15	ug/L	10		8270D	Total/NA
Sulfate	54.3		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	44700		150	80.8	ug/L	1		6010D	Total/NA
Manganese	3550		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	18.6		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.021	J	0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: MW-103 — Lab Sample ID: 460-231154-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	18.9		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	379		150	80.8	ug/L	1		6010D	Total/NA
Manganese	64.7		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	0.089	J	0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.57		0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: MW-12S — Lab Sample ID: 460-231154-4

No Detections.

Client Sample ID: MW-33S — Lab Sample ID: 460-231154-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.2		1.0	0.20	ug/L	1		8260D	Total/NA
Xylenes, Total	0.65	J	2.0	0.65	ug/L	1		8260D	Total/NA
Sulfate	24.7		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	32800		150	80.8	ug/L	1		6010D	Total/NA
Manganese	880		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	194		2.0	1.0	mg/L	20		350.1	Total/NA

Client Sample ID: MW-20D — Lab Sample ID: 460-231154-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0	0.20	ug/L	1		8260D	Total/NA
Ethylbenzene	0.48	J	1.0	0.30	ug/L	1		8260D	Total/NA
2-Picoline	9.6	J	80	1.4	ug/L	1		8270D	Total/NA
Pyridine	0.55	J	25	0.41	ug/L	1		8270D	Total/NA

Client Sample ID: MW-53D — Lab Sample ID: 460-231154-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		1.0	0.20	ug/L	1		8260D	Total/NA
Sulfate	8.37		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	4620		150	80.8	ug/L	1		6010D	Total/NA
Manganese	457		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	26.8		0.20	0.10	mg/L	2		350.1	Total/NA
Nitrate as N	0.051	J	0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231154-1

Client Sample ID: MW-37S — Lab Sample ID: 460-231154-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	198		1.92	0.63	mg/L	4		300.0	Total/NA
Iron	9400		150	80.8	ug/L	1		6010D	Total/NA
Manganese	1840		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	7.7		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.039	J	0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: MW-16S — Lab Sample ID: 460-231154-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	97		1.0	0.20	ug/L	1		8260D	Total/NA
Toluene	0.45	J	1.0	0.38	ug/L	1		8260D	Total/NA
Xylenes, Total	1.3	J	2.0	0.65	ug/L	1		8260D	Total/NA
2-Picoline	53	J	80	1.4	ug/L	1		8270D	Total/NA
Sulfate	1.15		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	6710		150	80.8	ug/L	1		6010D	Total/NA
Manganese	387		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	22.2		0.20	0.10	mg/L	2		350.1	Total/NA

Client Sample ID: MW-25S — Lab Sample ID: 460-231154-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4		1.0	0.20	ug/L	1		8260D	Total/NA
Sulfate	12.5		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	5830		150	80.8	ug/L	1		6010D	Total/NA
Manganese	1650		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	3.8		0.10	0.050	mg/L	1		350.1	Total/NA

Client Sample ID: OW-7 — Lab Sample ID: 460-231154-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.1		1.0	0.20	ug/L	1		8260D	Total/NA
Sulfate	9.64		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	30200		150	80.8	ug/L	1		6010D	Total/NA
Manganese	1130		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	0.66		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.32		0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

Client Sample ID: OW-6 — Lab Sample ID: 460-231154-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1300		5.0	1.0	ug/L	5		8260D	Total/NA
2-Picoline	140	J	910	16	ug/L	10		8270D	Total/NA
Sulfate	53.4		0.48	0.16	mg/L	1		300.0	Total/NA
Iron	58900		150	80.8	ug/L	1		6010D	Total/NA
Manganese	3250		15.0	0.76	ug/L	1		6010D	Total/NA
Ammonia	17.5		0.10	0.050	mg/L	1		350.1	Total/NA
Nitrate as N	0.037	J	0.10	0.021	mg/L	1		SM 4500 NO3 F	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB-3

Date Collected: 03/31/21 00:00
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-1
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 03:50	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 03:50	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 03:50	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 123*		*04/03/21 03:50*	*1*
Bromofluorobenzene	*107*		*76 - 120*		*04/03/21 03:50*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*04/03/21 03:50*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/03/21 03:50*	*1*

Client Sample ID: DUP

Date Collected: 03/31/21 00:00
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-2
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1300**		5.0	1.0	ug/L			04/06/21 17:49	5
Ethylbenzene	5.0	U	5.0	1.5	ug/L			04/06/21 17:49	5
Toluene	5.0	U	5.0	1.9	ug/L			04/06/21 17:49	5
Xylenes, Total	10	U	10	3.3	ug/L			04/06/21 17:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*04/06/21 17:49*	*5*
Bromofluorobenzene	*108*		*76 - 120*		*04/06/21 17:49*	*5*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*04/06/21 17:49*	*5*
Toluene-d8 (Surr)	*105*		*80 - 120*		*04/06/21 17:49*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	**0.50**	**J**	26	0.43	ug/L		04/06/21 08:37	04/07/21 19:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/07/21 19:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*87*		*46 - 120*	*04/06/21 08:37*	*04/07/21 19:30*	*1*
2-Fluorobiphenyl	*95*		*48 - 120*	*04/06/21 08:37*	*04/07/21 19:30*	*1*
p-Terphenyl-d14	*80*		*60 - 148*	*04/06/21 08:37*	*04/07/21 19:30*	*1*
Phenol-d5	*57*		*22 - 120*	*04/06/21 08:37*	*04/07/21 19:30*	*1*
2-Fluorophenol	*75*		*35 - 120*	*04/06/21 08:37*	*04/07/21 19:30*	*1*
2,4,6-Tribromophenol	*90*		*41 - 120*	*04/06/21 08:37*	*04/07/21 19:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	**190**	**J**	830	15	ug/L		04/06/21 08:37	04/08/21 13:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*04/06/21 08:37*	*04/08/21 13:26*	*10*
2-Fluorobiphenyl	*97*		*48 - 120*	*04/06/21 08:37*	*04/08/21 13:26*	*10*
p-Terphenyl-d14	*83*		*60 - 148*	*04/06/21 08:37*	*04/08/21 13:26*	*10*
Phenol-d5	*56*		*22 - 120*	*04/06/21 08:37*	*04/08/21 13:26*	*10*

Client Sample ID: DUP

Date Collected: 03/31/21 00:00
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*76*		*35 - 120*	*04/06/21 08:37*	*04/08/21 13:26*	*10*
2,4,6-Tribromophenol	*99*		*41 - 120*	*04/06/21 08:37*	*04/08/21 13:26*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**54.3**		0.48	0.16	mg/L			04/01/21 19:05	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**44700**		150	80.8	ug/L		04/03/21 18:30	04/05/21 15:54	1
Manganese	**3550**		15.0	0.76	ug/L		04/03/21 18:30	04/05/21 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**18.6**		0.10	0.050	mg/L			04/06/21 18:34	1
Nitrate as N	**0.021**	**J**	0.10	0.021	mg/L			04/01/21 17:35	1

Client Sample ID: MW-103

Date Collected: 03/31/21 08:20
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 05:58	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 05:58	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 05:58	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 123*		*04/03/21 05:58*	*1*
Bromofluorobenzene	*108*		*76 - 120*		*04/03/21 05:58*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*04/03/21 05:58*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*04/03/21 05:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/06/21 08:37	04/07/21 20:00	1
Pyridine	25	U	25	0.41	ug/L		04/06/21 08:37	04/07/21 20:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/07/21 20:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*88*		*46 - 120*	*04/06/21 08:37*	*04/07/21 20:00*	*1*
2-Fluorobiphenyl	*94*		*48 - 120*	*04/06/21 08:37*	*04/07/21 20:00*	*1*
p-Terphenyl-d14	*84*		*60 - 148*	*04/06/21 08:37*	*04/07/21 20:00*	*1*
Phenol-d5	*56*		*22 - 120*	*04/06/21 08:37*	*04/07/21 20:00*	*1*
2-Fluorophenol	*72*		*35 - 120*	*04/06/21 08:37*	*04/07/21 20:00*	*1*
2,4,6-Tribromophenol	*58*		*41 - 120*	*04/06/21 08:37*	*04/07/21 20:00*	*1*

Client Sample ID: MW-103

Date Collected: 03/31/21 08:20
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-3
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	18.9		0.48	0.16	mg/L			04/01/21 19:21	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	379		150	80.8	ug/L		04/03/21 18:30	04/05/21 15:58	1
Manganese	64.7		15.0	0.76	ug/L		04/03/21 18:30	04/05/21 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.089	J	0.10	0.050	mg/L			04/06/21 18:46	1
Nitrate as N	0.57		0.10	0.021	mg/L			04/01/21 17:36	1

Client Sample ID: MW-12S

Date Collected: 03/31/21 08:50
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-4
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 06:24	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 06:24	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 06:24	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*04/03/21 06:24*	*1*
Bromofluorobenzene	*107*		*76 - 120*		*04/03/21 06:24*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*04/03/21 06:24*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/03/21 06:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/06/21 08:37	04/07/21 20:28	1
Pyridine	25	U	25	0.41	ug/L		04/06/21 08:37	04/07/21 20:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/07/21 20:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*46 - 120*	*04/06/21 08:37*	*04/07/21 20:28*	*1*
2-Fluorobiphenyl	*93*		*48 - 120*	*04/06/21 08:37*	*04/07/21 20:28*	*1*
p-Terphenyl-d14	*78*		*60 - 148*	*04/06/21 08:37*	*04/07/21 20:28*	*1*
Phenol-d5	*51*		*22 - 120*	*04/06/21 08:37*	*04/07/21 20:28*	*1*
2-Fluorophenol	*65*		*35 - 120*	*04/06/21 08:37*	*04/07/21 20:28*	*1*
2,4,6-Tribromophenol	*69*		*41 - 120*	*04/06/21 08:37*	*04/07/21 20:28*	*1*

Client Sample ID: MW-33S

Date Collected: 03/31/21 09:15
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-5
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.2		1.0	0.20	ug/L			04/03/21 06:49	1

Client Sample ID: MW-33S

Date Collected: 03/31/21 09:15
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 06:49	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 06:49	1
Xylenes, Total	**0.65**	**J**	2.0	0.65	ug/L			04/03/21 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 123*		*04/03/21 06:49*	*1*
Bromofluorobenzene	*110*		*76 - 120*		*04/03/21 06:49*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*04/03/21 06:49*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/03/21 06:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/06/21 08:37	04/07/21 20:57	1
Pyridine	25	U	25	0.41	ug/L		04/06/21 08:37	04/07/21 20:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/07/21 20:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*04/06/21 08:37*	*04/07/21 20:57*	*1*
2-Fluorobiphenyl	*92*		*48 - 120*	*04/06/21 08:37*	*04/07/21 20:57*	*1*
p-Terphenyl-d14	*70*		*60 - 148*	*04/06/21 08:37*	*04/07/21 20:57*	*1*
Phenol-d5	*56*		*22 - 120*	*04/06/21 08:37*	*04/07/21 20:57*	*1*
2-Fluorophenol	*74*		*35 - 120*	*04/06/21 08:37*	*04/07/21 20:57*	*1*
2,4,6-Tribromophenol	*86*		*41 - 120*	*04/06/21 08:37*	*04/07/21 20:57*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**24.7**		0.48	0.16	mg/L			04/01/21 19:37	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**32800**		150	80.8	ug/L		04/03/21 18:30	04/05/21 16:02	1
Manganese	**880**		15.0	0.76	ug/L		04/03/21 18:30	04/05/21 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**194**		2.0	1.0	mg/L			04/06/21 19:22	20
Nitrate as N	0.10	U	0.10	0.021	mg/L			04/01/21 17:36	1

Client Sample ID: MW-20D

Date Collected: 03/31/21 09:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**11**		1.0	0.20	ug/L			04/03/21 07:15	1
Ethylbenzene	**0.48**	**J**	1.0	0.30	ug/L			04/03/21 07:15	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 07:15	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 07:15	1

Client Sample ID: MW-20D

Date Collected: 03/31/21 09:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*04/03/21 07:15*	*1*
Bromofluorobenzene	*105*		*76 - 120*		*04/03/21 07:15*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*04/03/21 07:15*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/03/21 07:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	**9.6**	**J**	80	1.4	ug/L		04/06/21 08:37	04/07/21 21:26	1
Pyridine	**0.55**	**J**	25	0.41	ug/L		04/06/21 08:37	04/07/21 21:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/07/21 21:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*88*		*46 - 120*	*04/06/21 08:37*	*04/07/21 21:26*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*04/06/21 08:37*	*04/07/21 21:26*	*1*
p-Terphenyl-d14	*65*		*60 - 148*	*04/06/21 08:37*	*04/07/21 21:26*	*1*
Phenol-d5	*42*		*22 - 120*	*04/06/21 08:37*	*04/07/21 21:26*	*1*
2-Fluorophenol	*74*		*35 - 120*	*04/06/21 08:37*	*04/07/21 21:26*	*1*
2,4,6-Tribromophenol	*95*		*41 - 120*	*04/06/21 08:37*	*04/07/21 21:26*	*1*

Client Sample ID: MW-53D

Date Collected: 03/31/21 10:10
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-7
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.3**		1.0	0.20	ug/L			04/03/21 07:41	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 07:41	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 07:41	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*04/03/21 07:41*	*1*
Bromofluorobenzene	*107*		*76 - 120*		*04/03/21 07:41*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 124*		*04/03/21 07:41*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/03/21 07:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	400	U	400	7.0	ug/L		04/06/21 08:37	04/07/21 21:55	5
Pyridine	130	U	130	2.1	ug/L		04/06/21 08:37	04/07/21 21:55	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*50*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/07/21 21:55*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*84*		*46 - 120*	*04/06/21 08:37*	*04/07/21 21:55*	*5*
2-Fluorobiphenyl	*98*		*48 - 120*	*04/06/21 08:37*	*04/07/21 21:55*	*5*
p-Terphenyl-d14	*81*		*60 - 148*	*04/06/21 08:37*	*04/07/21 21:55*	*5*
Phenol-d5	*48*		*22 - 120*	*04/06/21 08:37*	*04/07/21 21:55*	*5*
2-Fluorophenol	*69*		*35 - 120*	*04/06/21 08:37*	*04/07/21 21:55*	*5*

Client Sample ID: MW-53D

Date Collected: 03/31/21 10:10
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*41 - 120*	*04/06/21 08:37*	*04/07/21 21:55*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**8.37**		0.48	0.16	mg/L			04/01/21 19:53	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4620**		150	80.8	ug/L		04/06/21 03:58	04/06/21 16:03	1
Manganese	**457**		15.0	0.76	ug/L		04/06/21 03:58	04/06/21 16:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**26.8**		0.20	0.10	mg/L			04/06/21 19:23	2
Nitrate as N	**0.051**	**J**	0.10	0.021	mg/L			04/01/21 17:37	1

Client Sample ID: MW-37S

Date Collected: 03/31/21 10:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-8
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 08:06	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 08:06	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 08:06	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 123*		*04/03/21 08:06*	*1*
Bromofluorobenzene	*109*		*76 - 120*		*04/03/21 08:06*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 124*		*04/03/21 08:06*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/03/21 08:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/06/21 08:37	04/07/21 22:24	1
Pyridine	25	U	25	0.41	ug/L		04/06/21 08:37	04/07/21 22:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/07/21 22:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*87*		*46 - 120*	*04/06/21 08:37*	*04/07/21 22:24*	*1*
2-Fluorobiphenyl	*95*		*48 - 120*	*04/06/21 08:37*	*04/07/21 22:24*	*1*
p-Terphenyl-d14	*75*		*60 - 148*	*04/06/21 08:37*	*04/07/21 22:24*	*1*
Phenol-d5	*56*		*22 - 120*	*04/06/21 08:37*	*04/07/21 22:24*	*1*
2-Fluorophenol	*73*		*35 - 120*	*04/06/21 08:37*	*04/07/21 22:24*	*1*
2,4,6-Tribromophenol	*71*		*41 - 120*	*04/06/21 08:37*	*04/07/21 22:24*	*1*

Client Sample ID: MW-37S

Date Collected: 03/31/21 10:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-8
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	198		1.92	0.63	mg/L			04/02/21 01:44	4

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9400		150	80.8	ug/L		04/06/21 03:58	04/06/21 16:07	1
Manganese	1840		15.0	0.76	ug/L		04/06/21 03:58	04/06/21 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	7.7		0.10	0.050	mg/L			04/06/21 18:50	1
Nitrate as N	0.039	J	0.10	0.021	mg/L			04/01/21 17:41	1

Client Sample ID: MW-16S

Date Collected: 03/31/21 11:10
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	97		1.0	0.20	ug/L			04/03/21 08:32	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 08:32	1
Toluene	0.45	J	1.0	0.38	ug/L			04/03/21 08:32	1
Xylenes, Total	1.3	J	2.0	0.65	ug/L			04/03/21 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*04/03/21 08:32*	*1*
Bromofluorobenzene	*107*		*76 - 120*		*04/03/21 08:32*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 124*		*04/03/21 08:32*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/03/21 08:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	53	J	80	1.4	ug/L		04/06/21 08:37	04/07/21 22:54	1
Pyridine	25	U	25	0.41	ug/L		04/06/21 08:37	04/07/21 22:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/07/21 22:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*85*		*46 - 120*	*04/06/21 08:37*	*04/07/21 22:54*	*1*
2-Fluorobiphenyl	*92*		*48 - 120*	*04/06/21 08:37*	*04/07/21 22:54*	*1*
p-Terphenyl-d14	*75*		*60 - 148*	*04/06/21 08:37*	*04/07/21 22:54*	*1*
Phenol-d5	*52*		*22 - 120*	*04/06/21 08:37*	*04/07/21 22:54*	*1*
2-Fluorophenol	*66*		*35 - 120*	*04/06/21 08:37*	*04/07/21 22:54*	*1*
2,4,6-Tribromophenol	*95*		*41 - 120*	*04/06/21 08:37*	*04/07/21 22:54*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.15		0.48	0.16	mg/L			04/01/21 20:25	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6710		150	80.8	ug/L		04/06/21 03:58	04/06/21 16:11	1

Client Sample ID: MW-16S

Date Collected: 03/31/21 11:10
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**387**		15.0	0.76	ug/L		04/06/21 03:58	04/06/21 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**22.2**		0.20	0.10	mg/L			04/06/21 19:25	2
Nitrate as N	0.10	U	0.10	0.021	mg/L			04/01/21 17:42	1

Client Sample ID: MW-25S

Date Collected: 03/31/21 11:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-10
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.4**		1.0	0.20	ug/L			04/03/21 08:57	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 08:57	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 08:57	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*04/03/21 08:57*	*1*
Bromofluorobenzene	*106*		*76 - 120*		*04/03/21 08:57*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*04/03/21 08:57*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/03/21 08:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	95	U	95	1.7	ug/L		04/06/21 08:37	04/07/21 23:23	1
Pyridine	30	U	30	0.49	ug/L		04/06/21 08:37	04/07/21 23:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*12*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/07/21 23:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*69*		*46 - 120*	*04/06/21 08:37*	*04/07/21 23:23*	*1*
2-Fluorobiphenyl	*77*		*48 - 120*	*04/06/21 08:37*	*04/07/21 23:23*	*1*
p-Terphenyl-d14	*66*		*60 - 148*	*04/06/21 08:37*	*04/07/21 23:23*	*1*
Phenol-d5	*49*		*22 - 120*	*04/06/21 08:37*	*04/07/21 23:23*	*1*
2-Fluorophenol	*59*		*35 - 120*	*04/06/21 08:37*	*04/07/21 23:23*	*1*
2,4,6-Tribromophenol	*66*		*41 - 120*	*04/06/21 08:37*	*04/07/21 23:23*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**12.5**		0.48	0.16	mg/L			04/01/21 20:41	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5830**		150	80.8	ug/L		04/06/21 03:58	04/06/21 16:15	1
Manganese	**1650**		15.0	0.76	ug/L		04/06/21 03:58	04/06/21 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**3.8**		0.10	0.050	mg/L			04/06/21 18:53	1

Client Sample ID: MW-25S

Date Collected: 03/31/21 11:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-10
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.10	0.021	mg/L			04/01/21 17:42	1

Client Sample ID: OW-7

Date Collected: 03/31/21 12:05
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-11
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**5.1**		1.0	0.20	ug/L			04/03/21 09:23	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 09:23	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 09:23	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*		*04/03/21 09:23*	*1*
Bromofluorobenzene	*109*		*76 - 120*		*04/03/21 09:23*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 124*		*04/03/21 09:23*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*04/03/21 09:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/06/21 08:37	04/08/21 02:45	1
Pyridine	25	U	25	0.41	ug/L		04/06/21 08:37	04/08/21 02:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*10*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/08/21 02:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*46 - 120*	*04/06/21 08:37*	*04/08/21 02:45*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*04/06/21 08:37*	*04/08/21 02:45*	*1*
p-Terphenyl-d14	*76*		*60 - 148*	*04/06/21 08:37*	*04/08/21 02:45*	*1*
Phenol-d5	*49*		*22 - 120*	*04/06/21 08:37*	*04/08/21 02:45*	*1*
2-Fluorophenol	*64*		*35 - 120*	*04/06/21 08:37*	*04/08/21 02:45*	*1*
2,4,6-Tribromophenol	*66*		*41 - 120*	*04/06/21 08:37*	*04/08/21 02:45*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**9.64**		0.48	0.16	mg/L			04/01/21 20:57	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**30200**		150	80.8	ug/L		04/06/21 03:58	04/06/21 16:19	1
Manganese	**1130**		15.0	0.76	ug/L		04/06/21 03:58	04/06/21 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.66**		0.10	0.050	mg/L			04/06/21 18:55	1
Nitrate as N	**0.32**		0.10	0.021	mg/L			04/01/21 17:43	1

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231154-1

Client Sample ID: OW-6

Date Collected: 03/31/21 12:30
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-12

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1300**		5.0	1.0	ug/L			04/06/21 17:24	5
Ethylbenzene	5.0	U	5.0	1.5	ug/L			04/06/21 17:24	5
Toluene	5.0	U	5.0	1.9	ug/L			04/06/21 17:24	5
Xylenes, Total	10	U	10	3.3	ug/L			04/06/21 17:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*		*04/06/21 17:24*	*5*
Bromofluorobenzene	*107*		*76 - 120*		*04/06/21 17:24*	*5*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*04/06/21 17:24*	*5*
Toluene-d8 (Surr)	*105*		*80 - 120*		*04/06/21 17:24*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	**140**	**J**	910	16	ug/L		04/06/21 08:37	04/08/21 13:55	10
Pyridine	280	U	280	4.7	ug/L		04/06/21 08:37	04/08/21 13:55	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Aminopyridine TIC	*110*	*U*	*ug/L*			*504-29-0*	*04/06/21 08:37*	*04/08/21 13:55*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*46 - 120*	*04/06/21 08:37*	*04/08/21 13:55*	*10*
2-Fluorobiphenyl	*94*		*48 - 120*	*04/06/21 08:37*	*04/08/21 13:55*	*10*
p-Terphenyl-d14	*83*		*60 - 148*	*04/06/21 08:37*	*04/08/21 13:55*	*10*
Phenol-d5	*56*		*22 - 120*	*04/06/21 08:37*	*04/08/21 13:55*	*10*
2-Fluorophenol	*71*		*35 - 120*	*04/06/21 08:37*	*04/08/21 13:55*	*10*
2,4,6-Tribromophenol	*87*		*41 - 120*	*04/06/21 08:37*	*04/08/21 13:55*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**53.4**		0.48	0.16	mg/L			04/01/21 21:13	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**58900**		150	80.8	ug/L		04/06/21 03:58	04/06/21 16:23	1
Manganese	**3250**		15.0	0.76	ug/L		04/06/21 03:58	04/06/21 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**17.5**		0.10	0.050	mg/L			04/06/21 18:56	1
Nitrate as N	**0.037**	**J**	0.10	0.021	mg/L			04/01/21 17:45	1

Surrogate Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231154-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (75-123)	BFB (76-120)	DBFM (77-124)	TOL (80-120)
460-231154-1	TB-3	100	107	102	106
460-231154-2	DUP	99	108	101	105
460-231154-3	MW-103	100	108	100	105
460-231154-4	MW-12S	95	107	96	106
460-231154-5	MW-33S	102	110	99	106
460-231154-6	MW-20D	95	105	96	106
460-231154-7	MW-53D	96	107	97	106
460-231154-8	MW-37S	98	109	98	107
460-231154-9	MW-16S	97	107	98	107
460-231154-10	MW-25S	97	106	99	106
460-231154-11	OW-7	97	109	97	108
460-231154-12	OW-6	101	107	103	105
LCS 460-769220/5	Lab Control Sample	88	104	86	104
LCS 460-769715/4	Lab Control Sample	84	104	84	103
LCSD 460-769220/27	Lab Control Sample Dup	83	105	82	103
LCSD 460-769715/5	Lab Control Sample Dup	89	105	87	103
MB 460-769220/9	Method Blank	98	108	101	106
MB 460-769715/9	Method Blank	104	110	107	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	NBZ (46-120)	FBP (48-120)	TPHd14 (60-148)	PHL (22-120)	2FP (35-120)	TBP (41-120)
460-231154-2	DUP	87	95	80	57	75	90
460-231154-2 - DL	DUP	86	97	83	56	76	99
460-231154-3	MW-103	88	94	84	56	72	58
460-231154-4	MW-12S	83	93	78	51	65	69
460-231154-5	MW-33S	86	92	70	56	74	86
460-231154-6	MW-20D	88	90	65	42	74	95
460-231154-7	MW-53D	84	98	81	48	69	78
460-231154-8	MW-37S	87	95	75	56	73	71
460-231154-9	MW-16S	85	92	75	52	66	95
460-231154-10	MW-25S	69	77	66	49	59	66
460-231154-11	OW-7	83	91	76	49	64	66
460-231154-12	OW-6	82	94	83	56	71	87
480-182761-A-1-A MS	Matrix Spike	79	82	69	54	67	83
480-182761-A-1-B MSD	Matrix Spike Duplicate	90	97	70	61	75	97
LCS 480-575161/2-A	Lab Control Sample	94	94	104	60	77	94
MB 480-575161/1-A	Method Blank	86	93	102	55	69	68

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl

Surrogate Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231154-1

TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-769220/9
Matrix: Water
Analysis Batch: 769220

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/03/21 02:33	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/03/21 02:33	1
Toluene	1.0	U	1.0	0.38	ug/L			04/03/21 02:33	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/03/21 02:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 123*		*04/03/21 02:33*	*1*
Bromofluorobenzene	*108*		*76 - 120*		*04/03/21 02:33*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*04/03/21 02:33*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/03/21 02:33*	*1*

Lab Sample ID: LCS 460-769220/5
Matrix: Water
Analysis Batch: 769220

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	20.4		ug/L		102	78 - 126		
Ethylbenzene			20.0	19.5		ug/L		97	78 - 120		
Toluene			20.0	20.1		ug/L		100	78 - 119		
Xylenes, Total			40.0	40.7		ug/L		102	78 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 123*
Bromofluorobenzene	*104*		*76 - 120*
Dibromofluoromethane (Surr)	*86*		*77 - 124*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 460-769220/27
Matrix: Water
Analysis Batch: 769220

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	20.7		ug/L		103	78 - 126	1	30
Ethylbenzene			20.0	20.3		ug/L		101	78 - 120	4	30
Toluene			20.0	20.2		ug/L		101	78 - 119	1	30
Xylenes, Total			40.0	40.1		ug/L		100	78 - 122	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 123*
Bromofluorobenzene	*105*		*76 - 120*
Dibromofluoromethane (Surr)	*82*		*77 - 124*
Toluene-d8 (Surr)	*103*		*80 - 120*

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

Lab Sample ID: MB 460-769715/9
Matrix: Water
Analysis Batch: 769715

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.20	ug/L			04/06/21 12:16	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/06/21 12:16	1
Toluene	1.0	U	1.0	0.38	ug/L			04/06/21 12:16	1
Xylenes, Total	2.0	U	2.0	0.65	ug/L			04/06/21 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 123*		*04/06/21 12:16*	*1*
Bromofluorobenzene	*110*		*76 - 120*		*04/06/21 12:16*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 124*		*04/06/21 12:16*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/06/21 12:16*	*1*

Lab Sample ID: LCS 460-769715/4
Matrix: Water
Analysis Batch: 769715

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.2		ug/L		96	78 - 126
Ethylbenzene	20.0	18.9		ug/L		94	78 - 120
Toluene	20.0	19.0		ug/L		95	78 - 119
Xylenes, Total	40.0	38.1		ug/L		95	78 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 123*
Bromofluorobenzene	*104*		*76 - 120*
Dibromofluoromethane (Surr)	*84*		*77 - 124*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 460-769715/5
Matrix: Water
Analysis Batch: 769715

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.8		ug/L		104	78 - 126	8	30
Ethylbenzene	20.0	20.5		ug/L		102	78 - 120	8	30
Toluene	20.0	20.4		ug/L		102	78 - 119	7	30
Xylenes, Total	40.0	40.9		ug/L		102	78 - 122	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 123*
Bromofluorobenzene	*105*		*76 - 120*
Dibromofluoromethane (Surr)	*87*		*77 - 124*
Toluene-d8 (Surr)	*103*		*80 - 120*

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

Lab Sample ID: MB 480-575161/1-A
Matrix: Water
Analysis Batch: 575352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	80	U	80	1.4	ug/L		04/06/21 08:37	04/07/21 17:04	1
Pyridine	25	U	25	0.41	ug/L		04/06/21 08:37	04/07/21 17:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*46 - 120*	*04/06/21 08:37*	*04/07/21 17:04*	*1*
2-Fluorobiphenyl	*93*		*48 - 120*	*04/06/21 08:37*	*04/07/21 17:04*	*1*
p-Terphenyl-d14	*102*		*60 - 148*	*04/06/21 08:37*	*04/07/21 17:04*	*1*
Phenol-d5	*55*		*22 - 120*	*04/06/21 08:37*	*04/07/21 17:04*	*1*
2-Fluorophenol	*69*		*35 - 120*	*04/06/21 08:37*	*04/07/21 17:04*	*1*
2,4,6-Tribromophenol	*68*		*41 - 120*	*04/06/21 08:37*	*04/07/21 17:04*	*1*

Lab Sample ID: LCS 480-575161/2-A
Matrix: Water
Analysis Batch: 575352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	64.0	28.6		ug/L		45	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*94*		*46 - 120*
2-Fluorobiphenyl	*94*		*48 - 120*
p-Terphenyl-d14	*104*		*60 - 148*
Phenol-d5	*60*		*22 - 120*
2-Fluorophenol	*77*		*35 - 120*
2,4,6-Tribromophenol	*94*		*41 - 120*

Lab Sample ID: 480-182761-A-1-A MS
Matrix: Water
Analysis Batch: 575352

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 575161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	25	U	64.0	40.2	*	ug/L		63	79 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*79*		*46 - 120*
2-Fluorobiphenyl	*82*		*48 - 120*
p-Terphenyl-d14	*69*		*60 - 148*
Phenol-d5	*54*		*22 - 120*
2-Fluorophenol	*67*		*35 - 120*
2,4,6-Tribromophenol	*83*		*41 - 120*

Lab Sample ID: 480-182761-A-1-B MSD
Matrix: Water
Analysis Batch: 575352

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 575161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyridine	25	U	64.0	43.7	*	ug/L		68	79 - 120	8	49

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

Lab Sample ID: 480-182761-A-1-B MSD
Matrix: Water
Analysis Batch: 575352

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 575161

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*90*		*46 - 120*
2-Fluorobiphenyl	*97*		*48 - 120*
p-Terphenyl-d14	*70*		*60 - 148*
Phenol-d5	*61*		*22 - 120*
2-Fluorophenol	*75*		*35 - 120*
2,4,6-Tribromophenol	*97*		*41 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-769125/18
Matrix: Water
Analysis Batch: 769125

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.48	U	0.48	0.16	mg/L			04/01/21 23:53	1

Lab Sample ID: LCS 460-769125/20
Matrix: Water
Analysis Batch: 769125

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	4.80	5.097		mg/L		106	90 - 110

Lab Sample ID: LCSD 460-769125/21
Matrix: Water
Analysis Batch: 769125

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	4.80	5.029		mg/L		105	90 - 110	1	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 460-769317/1-A
Matrix: Water
Analysis Batch: 769558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 769317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	80.8	ug/L		04/03/21 18:30	04/05/21 14:06	1
Manganese	15.0	U	15.0	0.76	ug/L		04/03/21 18:30	04/05/21 14:06	1

Lab Sample ID: LCS 460-769317/2-A
Matrix: Water
Analysis Batch: 769558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 769317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	1053		ug/L		105	80 - 120
Manganese	500	512.3		ug/L		102	80 - 120

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

Lab Sample ID: 460-231000-D-1-B MS
Matrix: Water
Analysis Batch: 769558

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 769317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	4390		1000	5332	4	ug/L		95	75 - 125
Manganese	3530		500	4006	4	ug/L		96	75 - 125

Lab Sample ID: 460-231000-A-1-A DU
Matrix: Water
Analysis Batch: 769558

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 769317

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	4390		4360		ug/L		0.6	20
Manganese	3530		3534		ug/L		0.2	20

Lab Sample ID: MB 460-769656/1-A
Matrix: Water
Analysis Batch: 769757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 769656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	150	U	150	80.8	ug/L		04/06/21 03:58	04/06/21 15:51	1
Manganese	15.0	U	15.0	0.76	ug/L		04/06/21 03:58	04/06/21 15:51	1

Lab Sample ID: LCS 460-769656/2-A
Matrix: Water
Analysis Batch: 769757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 769656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	995.2		ug/L		100	80 - 120
Manganese	500	488.4		ug/L		98	80 - 120

Lab Sample ID: 460-231158-I-1-C MS
Matrix: Water
Analysis Batch: 769757

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 769656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	150	U	1000	1009		ug/L		101	75 - 125
Manganese	456		500	928.2		ug/L		94	75 - 125

Lab Sample ID: 460-231158-I-1-B DU
Matrix: Water
Analysis Batch: 769757

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 769656

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	150	U	150	U	ug/L		NC	20
Manganese	456		439.2		ug/L		4	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 460-769799/157
Matrix: Water
Analysis Batch: 769799

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.10	0.050	mg/L			04/06/21 18:06	1

Lab Sample ID: LCS 460-769799/156
Matrix: Water
Analysis Batch: 769799

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.16		mg/L		108	89 - 113

Lab Sample ID: MRL 460-769799/12
Matrix: Water
Analysis Batch: 769799

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.100	0.127		mg/L		127	50 - 150

Lab Sample ID: 460-230996-E-5 MS
Matrix: Water
Analysis Batch: 769799

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	7.2		2.00	9.29		mg/L		107	89 - 113

Lab Sample ID: 460-230996-E-5 MSD
Matrix: Water
Analysis Batch: 769799

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	7.2		2.00	9.24		mg/L		104	89 - 113	1	10

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 460-768945/14
Matrix: Water
Analysis Batch: 768945

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.10	0.021	mg/L			04/01/21 17:33	1

Lab Sample ID: LCSSRM 460-768945/15
Matrix: Water
Analysis Batch: 768945

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.16	1.14		mg/L		98.5	81.6 - 117.5

Method: SM 4500 NO3 F - Nitrogen, Nitrate (Continued)

Lab Sample ID: MRL 460-768945/11
Matrix: Water
Analysis Batch: 768945

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			0.0500	0.0939	J	mg/L		188	50 - 150		

Lab Sample ID: 460-231154-2 MS
Matrix: Water
Analysis Batch: 768945

Client Sample ID: DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.021	J	0.500	0.498		mg/L		95	85 - 115		

Lab Sample ID: 460-231154-2 MSD
Matrix: Water
Analysis Batch: 768945

Client Sample ID: DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.021	J	0.500	0.500		mg/L		96	85 - 115	0	18

GC/MS VOA

Analysis Batch: 769220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-1	TB-3	Total/NA	Water	8260D	
460-231154-3	MW-103	Total/NA	Water	8260D	
460-231154-4	MW-12S	Total/NA	Water	8260D	
460-231154-5	MW-33S	Total/NA	Water	8260D	
460-231154-6	MW-20D	Total/NA	Water	8260D	
460-231154-7	MW-53D	Total/NA	Water	8260D	
460-231154-8	MW-37S	Total/NA	Water	8260D	
460-231154-9	MW-16S	Total/NA	Water	8260D	
460-231154-10	MW-25S	Total/NA	Water	8260D	
460-231154-11	OW-7	Total/NA	Water	8260D	
MB 460-769220/9	Method Blank	Total/NA	Water	8260D	
LCS 460-769220/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-769220/27	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 769715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-2	DUP	Total/NA	Water	8260D	
460-231154-12	OW-6	Total/NA	Water	8260D	
MB 460-769715/9	Method Blank	Total/NA	Water	8260D	
LCS 460-769715/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-769715/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 575161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-2	DUP	Total/NA	Water	3510C	
460-231154-2 - DL	DUP	Total/NA	Water	3510C	
460-231154-3	MW-103	Total/NA	Water	3510C	
460-231154-4	MW-12S	Total/NA	Water	3510C	
460-231154-5	MW-33S	Total/NA	Water	3510C	
460-231154-6	MW-20D	Total/NA	Water	3510C	
460-231154-7	MW-53D	Total/NA	Water	3510C	
460-231154-8	MW-37S	Total/NA	Water	3510C	
460-231154-9	MW-16S	Total/NA	Water	3510C	
460-231154-10	MW-25S	Total/NA	Water	3510C	
460-231154-11	OW-7	Total/NA	Water	3510C	
460-231154-12	OW-6	Total/NA	Water	3510C	
MB 480-575161/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-575161/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-182761-A-1-A MS	Matrix Spike	Total/NA	Water	3510C	
480-182761-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 575352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-2	DUP	Total/NA	Water	8270D	575161
460-231154-3	MW-103	Total/NA	Water	8270D	575161
460-231154-4	MW-12S	Total/NA	Water	8270D	575161
460-231154-5	MW-33S	Total/NA	Water	8270D	575161
460-231154-6	MW-20D	Total/NA	Water	8270D	575161
460-231154-7	MW-53D	Total/NA	Water	8270D	575161

GC/MS Semi VOA (Continued)

Analysis Batch: 575352 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-8	MW-37S	Total/NA	Water	8270D	575161
460-231154-9	MW-16S	Total/NA	Water	8270D	575161
460-231154-10	MW-25S	Total/NA	Water	8270D	575161
MB 480-575161/1-A	Method Blank	Total/NA	Water	8270D	575161
LCS 480-575161/2-A	Lab Control Sample	Total/NA	Water	8270D	575161
480-182761-A-1-A MS	Matrix Spike	Total/NA	Water	8270D	575161
480-182761-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	575161

Analysis Batch: 575357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-11	OW-7	Total/NA	Water	8270D	575161

Analysis Batch: 575552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-2 - DL	DUP	Total/NA	Water	8270D	575161
460-231154-12	OW-6	Total/NA	Water	8270D	575161

HPLC/IC

Analysis Batch: 769125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-2	DUP	Total/NA	Water	300.0	
460-231154-3	MW-103	Total/NA	Water	300.0	
460-231154-5	MW-33S	Total/NA	Water	300.0	
460-231154-7	MW-53D	Total/NA	Water	300.0	
460-231154-8	MW-37S	Total/NA	Water	300.0	
460-231154-9	MW-16S	Total/NA	Water	300.0	
460-231154-10	MW-25S	Total/NA	Water	300.0	
460-231154-11	OW-7	Total/NA	Water	300.0	
460-231154-12	OW-6	Total/NA	Water	300.0	
MB 460-769125/18	Method Blank	Total/NA	Water	300.0	
LCS 460-769125/20	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-769125/21	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 769317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-2	DUP	Total/NA	Water	3010A	
460-231154-3	MW-103	Total/NA	Water	3010A	
460-231154-5	MW-33S	Total/NA	Water	3010A	
MB 460-769317/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-769317/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-231000-D-1-B MS	Matrix Spike	Total/NA	Water	3010A	
460-231000-A-1-A DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 769558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-2	DUP	Total/NA	Water	6010D	769317
460-231154-3	MW-103	Total/NA	Water	6010D	769317
460-231154-5	MW-33S	Total/NA	Water	6010D	769317
MB 460-769317/1-A	Method Blank	Total/NA	Water	6010D	769317

Metals (Continued)

Analysis Batch: 769558 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-769317/2-A	Lab Control Sample	Total/NA	Water	6010D	769317
460-231000-D-1-B MS	Matrix Spike	Total/NA	Water	6010D	769317
460-231000-A-1-A DU	Duplicate	Total/NA	Water	6010D	769317

Prep Batch: 769656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-7	MW-53D	Total/NA	Water	3010A	
460-231154-8	MW-37S	Total/NA	Water	3010A	
460-231154-9	MW-16S	Total/NA	Water	3010A	
460-231154-10	MW-25S	Total/NA	Water	3010A	
460-231154-11	OW-7	Total/NA	Water	3010A	
460-231154-12	OW-6	Total/NA	Water	3010A	
MB 460-769656/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-769656/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-231158-I-1-C MS	Matrix Spike	Total/NA	Water	3010A	
460-231158-I-1-B DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 769757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-7	MW-53D	Total/NA	Water	6010D	769656
460-231154-8	MW-37S	Total/NA	Water	6010D	769656
460-231154-9	MW-16S	Total/NA	Water	6010D	769656
460-231154-10	MW-25S	Total/NA	Water	6010D	769656
460-231154-11	OW-7	Total/NA	Water	6010D	769656
460-231154-12	OW-6	Total/NA	Water	6010D	769656
MB 460-769656/1-A	Method Blank	Total/NA	Water	6010D	769656
LCS 460-769656/2-A	Lab Control Sample	Total/NA	Water	6010D	769656
460-231158-I-1-C MS	Matrix Spike	Total/NA	Water	6010D	769656
460-231158-I-1-B DU	Duplicate	Total/NA	Water	6010D	769656

General Chemistry

Analysis Batch: 768945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-2	DUP	Total/NA	Water	SM 4500 NO3 F	
460-231154-3	MW-103	Total/NA	Water	SM 4500 NO3 F	
460-231154-5	MW-33S	Total/NA	Water	SM 4500 NO3 F	
460-231154-7	MW-53D	Total/NA	Water	SM 4500 NO3 F	
460-231154-8	MW-37S	Total/NA	Water	SM 4500 NO3 F	
460-231154-9	MW-16S	Total/NA	Water	SM 4500 NO3 F	
460-231154-10	MW-25S	Total/NA	Water	SM 4500 NO3 F	
460-231154-11	OW-7	Total/NA	Water	SM 4500 NO3 F	
460-231154-12	OW-6	Total/NA	Water	SM 4500 NO3 F	
MB 460-768945/14	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCSSRM 460-768945/15	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
LCSSRM 460-768945/16	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MRL 460-768945/11	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
460-231154-2 MS	DUP	Total/NA	Water	SM 4500 NO3 F	
460-231154-2 MSD	DUP	Total/NA	Water	SM 4500 NO3 F	

General Chemistry

Analysis Batch: 769799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231154-2	DUP	Total/NA	Water	350.1	
460-231154-3	MW-103	Total/NA	Water	350.1	
460-231154-5	MW-33S	Total/NA	Water	350.1	
460-231154-7	MW-53D	Total/NA	Water	350.1	
460-231154-8	MW-37S	Total/NA	Water	350.1	
460-231154-9	MW-16S	Total/NA	Water	350.1	
460-231154-10	MW-25S	Total/NA	Water	350.1	
460-231154-11	OW-7	Total/NA	Water	350.1	
460-231154-12	OW-6	Total/NA	Water	350.1	
MB 460-769799/157	Method Blank	Total/NA	Water	350.1	
LCS 460-769799/156	Lab Control Sample	Total/NA	Water	350.1	
MRL 460-769799/12	Lab Control Sample	Total/NA	Water	350.1	
460-230996-E-5 MS	Matrix Spike	Total/NA	Water	350.1	
460-230996-E-5 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Lab Chronicle

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231154-1

Client Sample ID: TB-3
Date Collected: 03/31/21 00:00
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 03:50	KLB	TAL EDI

Client Sample ID: DUP
Date Collected: 03/31/21 00:00
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			769715	04/06/21 17:49	EMM	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575352	04/07/21 19:30	JMM	TAL BUF
Total/NA	Prep	3510C	DL		575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D	DL	10	575552	04/08/21 13:26	JMM	TAL BUF
Total/NA	Analysis	300.0		1	769125	04/01/21 19:05	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 15:54	YZH	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 18:34	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768945	04/01/21 17:35	VBG	TAL EDI

Client Sample ID: MW-103
Date Collected: 03/31/21 08:20
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 05:58	KLB	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575352	04/07/21 20:00	JMM	TAL BUF
Total/NA	Analysis	300.0		1	769125	04/01/21 19:21	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 15:58	YZH	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 18:46	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768945	04/01/21 17:36	VBG	TAL EDI

Client Sample ID: MW-12S
Date Collected: 03/31/21 08:50
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 06:24	KLB	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575352	04/07/21 20:28	JMM	TAL BUF

Client Sample ID: MW-33S
Date Collected: 03/31/21 09:15
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 06:49	KLB	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575352	04/07/21 20:57	JMM	TAL BUF
Total/NA	Analysis	300.0		1	769125	04/01/21 19:37	VMI	TAL EDI
Total/NA	Prep	3010A			769317	04/03/21 18:30	GAE	TAL EDI
Total/NA	Analysis	6010D		1	769558	04/05/21 16:02	YZH	TAL EDI
Total/NA	Analysis	350.1		20	769799	04/06/21 19:22	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768945	04/01/21 17:36	VBG	TAL EDI

Client Sample ID: MW-20D
Date Collected: 03/31/21 09:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 07:15	KLB	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575352	04/07/21 21:26	JMM	TAL BUF

Client Sample ID: MW-53D
Date Collected: 03/31/21 10:10
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 07:41	KLB	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D			575352	04/07/21 21:55	JMM	TAL BUF
Total/NA	Analysis	300.0		1	769125	04/01/21 19:53	VMI	TAL EDI
Total/NA	Prep	3010A			769656	04/06/21 03:58	GMC	TAL EDI
Total/NA	Analysis	6010D		1	769757	04/06/21 16:03	CDC	TAL EDI
Total/NA	Analysis	350.1		2	769799	04/06/21 19:23	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768945	04/01/21 17:37	VBG	TAL EDI

Client Sample ID: MW-37S
Date Collected: 03/31/21 10:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 08:06	KLB	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575352	04/07/21 22:24	JMM	TAL BUF
Total/NA	Analysis	300.0		4	769125	04/02/21 01:44	VMI	TAL EDI
Total/NA	Prep	3010A			769656	04/06/21 03:58	GMC	TAL EDI
Total/NA	Analysis	6010D		1	769757	04/06/21 16:07	CDC	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 18:50	DLE	TAL EDI

Client Sample ID: MW-37S
Date Collected: 03/31/21 10:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NO3 F		1	768945	04/01/21 17:41	VBG	TAL EDI

Client Sample ID: MW-16S
Date Collected: 03/31/21 11:10
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 08:32	KLB	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575352	04/07/21 22:54	JMM	TAL BUF
Total/NA	Analysis	300.0		1	769125	04/01/21 20:25	VMI	TAL EDI
Total/NA	Prep	3010A			769656	04/06/21 03:58	GMC	TAL EDI
Total/NA	Analysis	6010D		1	769757	04/06/21 16:11	CDC	TAL EDI
Total/NA	Analysis	350.1		2	769799	04/06/21 19:25	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768945	04/01/21 17:42	VBG	TAL EDI

Client Sample ID: MW-25S
Date Collected: 03/31/21 11:40
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 08:57	KLB	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575352	04/07/21 23:23	JMM	TAL BUF
Total/NA	Analysis	300.0		1	769125	04/01/21 20:41	VMI	TAL EDI
Total/NA	Prep	3010A			769656	04/06/21 03:58	GMC	TAL EDI
Total/NA	Analysis	6010D		1	769757	04/06/21 16:15	CDC	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 18:53	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768945	04/01/21 17:42	VBG	TAL EDI

Client Sample ID: OW-7
Date Collected: 03/31/21 12:05
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	769220	04/03/21 09:23	KLB	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		1	575357	04/08/21 02:45	JMM	TAL BUF
Total/NA	Analysis	300.0		1	769125	04/01/21 20:57	VMI	TAL EDI
Total/NA	Prep	3010A			769656	04/06/21 03:58	GMC	TAL EDI
Total/NA	Analysis	6010D		1	769757	04/06/21 16:19	CDC	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 18:55	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768945	04/01/21 17:43	VBG	TAL EDI

Lab Chronicle

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231154-1

Client Sample ID: OW-6

Date Collected: 03/31/21 12:30
Date Received: 03/31/21 19:00

Lab Sample ID: 460-231154-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D			769715	04/06/21 17:24	EMM	TAL EDI
Total/NA	Prep	3510C			575161	04/06/21 08:37	JMP	TAL BUF
Total/NA	Analysis	8270D		10	575552	04/08/21 13:55	JMM	TAL BUF
Total/NA	Analysis	300.0		1	769125	04/01/21 21:13	VMI	TAL EDI
Total/NA	Prep	3010A			769656	04/06/21 03:58	GMC	TAL EDI
Total/NA	Analysis	6010D		1	769757	04/06/21 16:23	CDC	TAL EDI
Total/NA	Analysis	350.1		1	769799	04/06/21 18:56	DLE	TAL EDI
Total/NA	Analysis	SM 4500 NO3 F		1	768945	04/01/21 17:45	VBG	TAL EDI

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: RNC Environmental Geology PC
Job ID: 460-231154-1
Project/Site: NEPERA - HARRIMAN, NY

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 NO3 F		Water	Nitrate as N

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	2-Picoline

Method Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231154-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
6010D	Metals (ICP)	SW846	TAL EDI
350.1	Nitrogen, Ammonia	MCAWW	TAL EDI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RNC Environmental Geology PC
Project/Site: NEPERA - HARRIMAN, NY

Job ID: 460-231154-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-231154-1	TB-3	Water	03/31/21 00:00	03/31/21 19:00	
460-231154-2	DUP	Water	03/31/21 00:00	03/31/21 19:00	
460-231154-3	MW-103	Water	03/31/21 08:20	03/31/21 19:00	
460-231154-4	MW-12S	Water	03/31/21 08:50	03/31/21 19:00	
460-231154-5	MW-33S	Water	03/31/21 09:15	03/31/21 19:00	
460-231154-6	MW-20D	Water	03/31/21 09:40	03/31/21 19:00	
460-231154-7	MW-53D	Water	03/31/21 10:10	03/31/21 19:00	
460-231154-8	MW-37S	Water	03/31/21 10:40	03/31/21 19:00	
460-231154-9	MW-16S	Water	03/31/21 11:10	03/31/21 19:00	
460-231154-10	MW-25S	Water	03/31/21 11:40	03/31/21 19:00	
460-231154-11	OW-7	Water	03/31/21 12:05	03/31/21 19:00	
460-231154-12	OW-6	Water	03/31/21 12:30	03/31/21 19:00	

Chain of Custody Record 450951

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: J. CASSON	Site Contact:	Date:	COC No:
Company Name: RNC ENV. GEOLOGY, P.C.	Tel/Email: RCASSON@RNCENVIRONMENTAL.COM	Lab Contact:	Carrier:	____ of ____ COCs
Address: 72 BELLEROSE AVE	Analysis Turnaround Time			Sampler:
City/State/Zip: E. NORTHPORT, NY 11731	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 631-482-9590	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks STANDARD			Lab Sampling:
Project Name: NEPENA	☐ 1 week			
Site: HANNIMAN	☐ 2 days			/ SDG No.: 231154
P O #	☐ 1 day			

460-231154 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX	SVOC*	GEN CHEM**	Sample Specific Notes:
TB-3	3/31/21	—	G	AQ	2			X			-1
DUP	3/31/21	—			9			X	X	X	-2
MW-103		0820			9			X	X	X	-3
MW-12S		0850			5			X	X		-4
MW-33S		0915			9			X	X	X	-5
MW-20D		0940			5			X	X		-6
MW-53D		1010			9			X	X	X	-7
MW-37S		1040			9			X	X	X	-8
MW-16S		1110			9			X	X	X	-9
MW-25S		1140			9			X	X	X	-10
OW-7		1205			9			X	X	X	-11
OW-6		1230			9			X	X	X	-12

SHORT HOLD

ELMSFORD 272

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

* PYRIDINE, ALPHA-PICOLINE, 2-AMINOPYRIDINE ** Fe, MANGANESE, SULFATE, NITRATE, AMMONIA

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: RNC ENV GEO, PC	Date/Time: 3/31/21 1400	Received by:	Company: ETA	Date/Time: 3/31/21 14:30
Relinquished by:	Company: ETA	Date/Time: 3/31/21 1700	Received by:	Company:	Date/Time: 3/31/21 16:00
Relinquished by:	Company:	Date/Time: 3/31/21 1900	Received in Laboratory by:	Company: TAL	Date/Time: 3/31/21 1900

2.5/2.2 2.8/2.5 TAL

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 231154

Number of Coolers: 2 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.5 °C	2.2 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	2.8 °C	2.5 °C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
2	<2			<2											
3	<2			<2											
5	<2			<2											
7	<2			<2											
8	<2			<2											
9	<2			<2											
10	<2			<2											
11	<2			<2											
12	<2			<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: NA

Preservative Name/Conc.: NA Volume of Preservative used (ml): NA

Lot # of Preservative(s): NA Expiration Date: NA

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: _____ Date: 3/31/21

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-61148.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Melissa.Haas@Eurofinset.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-231154-1
Address: 10 Hazelwood Drive,	Due Date Requested: 4/6/2021			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298	PO #			
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	WO #			
Email:	Project #: 46009639			
Project Name: NEPERA - HARRIMAN, NY	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3510C_LVI SVOC - Client Specific List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DUP (460-231154-2)	3/31/21	Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-103 (460-231154-3)	3/31/21	08:20 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-12S (460-231154-4)	3/31/21	08:50 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-33S (460-231154-5)	3/31/21	09:15 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-20D (460-231154-6)	3/31/21	09:40 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-53D (460-231154-7)	3/31/21	10:10 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-37S (460-231154-8)	3/31/21	10:40 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-16S (460-231154-9)	3/31/21	11:10 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
MW-25S (460-231154-10)	3/31/21	11:40 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	4/1/21 1400	EAEL			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 4/2/21 1045	Company EAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8 #1

Ver: 11/01/2020

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Haas, Melissa	Carrier Tracking No(s):	COC No: 460-61148.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Melissa.Haas@Eurofinset.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-231154-1
Address: 10 Hazelwood Drive,	Due Date Requested: 4/6/2021			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: NEPERA - HARRIMAN, NY	Project #: 46009639			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3510C_LVI SVOC - Client Specific List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
OW-7 (460-231154-11)	3/31/21	12:05 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.
OW-6 (460-231154-12)	3/31/21	12:30 Eastern		Water			X	2	2-Aminopyridine is a targeted TIC.

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/1/21 1900	EAL			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/2/21 1045	Company EAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8 #1

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: RNC Environmental Geology PC

Job Number: 460-231154-1

Login Number: 231154
List Number: 1
Creator: Lysy, Susan

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: RNC Environmental Geology PC

Job Number: 460-231154-1

Login Number: 231154
List Number: 2
Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo
List Creation: 04/02/21 03:57 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

cornerstone
PLLC

100 Crystal Run Road, Suite 101, Middletown, NY 10941
T 877.294.9070 | F 845.692.5894 | W www.cornerstoneeg.com

October 15, 2021

Parag Amin, P.E.
Project Manager, Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014

Re: Quarterly Progress Report – 3rd Quarter 2021
Harriman Inactive Waste Disposal Site #336006

Dear Mr. Amin:

On behalf of Warner Lambert LLC and Cambrex Corporation (Parties), this letter and inspection reports provide the third quarter of 2021 project progress report for the Harriman Site, located in Harriman, New York (Harriman Site). Due to the presence of other remediation programs and voluntary investigative work being performed at the site, this report includes activities that are beyond the scope of the Parties' obligations under the Consent Decree.

Site Remediation Activities Performed (April – June 2021)

- The biosparging system was shut down on September 10, 2008 in accordance with the Supplemental Remedial Action Work Plan approved by the New York State Department of Environmental Conservation (NYSDEC) on June 18, 2008, and remained offline through the third quarter of 2021, per recommendations in prior quarterly reports to the NYSDEC. Because the system was offline, no routine operation and maintenance was necessary during the reporting period. The building housing the biosparge system remains locked and in generally good condition. As reported in the first quarter of 2016 progress report, the biosparge system sustained limited damage during the site demolition activities and with some repairs operation of the system could be restored in the future, if there were a need for the system to be brought back on line.

- The interim cover along the West Branch of the Ramapo River was evaluated as a part of a site inspections performed on August 25, 2021. The interim cover remains in good condition. The cover vegetation is stable, well vegetated, and there are no signs of erosion. Representative photos are attached.

- The parking lot pavement remains generally intact and functioning as a cover. Pothole repairs were last made by ELT-Harriman, LLC in late March 2021. During the August 25, 2021 inspection the parking area was observed to be in generally good condition with more potholes than were observed during the second quarter. A total of 20 small,

medium and a few larger potholes were observed at random locations across the parking lot. Representative photos of the observed potholes are attached for reference.

- The quarterly well inspection report is also attached for reference. The monitoring well network in the routine five-quarter monitoring program remains in good condition and functional as noted in the attached summary tabulation from the August 25, 2021 inspection. New wells installed in August 2020, while not part of the five-quarter monitoring program, have been added to the inspection checklist.

- As described in the second quarter 2016 progress report, product was not observed on the absorbent socks in wells SVE-1, SVE-3, SVE-4, and VER-2 during the December 2015 and March 2016 inspections; therefore, the absorbent socks were removed during the June 2016 inspection, with the intent of checking the wells for sheen or product without the absorbent socks present. Since removal of the absorbent socks in June 2016, the wells have been checked during each inspection for evidence of product or sheen, both visually and with an interface probe, and during the April 2017 inspection, an absorbent sock was placed in VER-2 based on an observed sheen, and an absorbent sock remains in this well as noted in the attached inspection report. The sock in VER-2 was replaced during the June 30th 2020 inspection. Wells SVE-1, SVE-3, and SVE-4 continue to not have any evidence of product or sheen and, therefore, the Parties have discontinued the use of absorbent socks in these wells. During the August 25, 2021 inspection, neither product nor sheen was observed in any of the SVE or VER wells. Cornerstone, on behalf of the Parties, previously sent a separate letter to the NYSDEC documenting the request to modify the use of absorbent socks. The request to discontinue use of the adsorbent socks and quarterly inspections of all SVE and VER wells except for VER-2 was subsequently approved via email dated July 17, 2020.

- In the first quarter of 2012 progress report, the Parties requested that following the April 2012 groundwater sampling event the sampling program be modified to an annual frequency, based on the consistency of the groundwater monitoring data since 2008 when the biosparge system was shut down. Following this request in the April 2012 quarterly progress report, the NYSDEC approved modifying the groundwater monitoring frequency to every five quarters. This approval was provided in an electronic mail message from the NYSDEC to Cornerstone dated May 10, 2012. The NYSDEC approved a frequency of every five quarters, in lieu of annually, so that the groundwater monitoring would occur at different times throughout the year. The list of monitoring wells to be sampled and analytical parameters remain unchanged. The seventh five-quarter routine sampling event was completed during the period of March 29-31, 2021 and results of this sampling were provided within the 2nd quarter 2021 report. As indicated in that report, data from the most recent sampling event continued to show that site-specific compounds were not detected at the downgradient property boundary at concentrations above groundwater quality standards. The next sampling event will be scheduled during the second quarter of 2022.

- The IRM groundwater extraction system components remain off-line on standby per the NYSDEC's approval pending the completion of the Supplemental Remedial Action Work Plan, including continued groundwater monitoring, and evaluation of the appropriateness of an ESD. Because of the ELT Harriman, LLC demolition work, the groundwater extraction system components have been dismantled, but the system can be restored, if necessary.

Parking Lot and Other

As of May 14, 2010, the Parties had concluded all work and information transfer requested by the NYSDEC in connection with sampling and delineation of the calcium sulfate material in the Area B parking lot. The Parties, in conjunction with ELT-Harriman, LLC submitted a *Site-Wide Characterization Summary Report* on March 7, 2011. The Parties conduct both quarterly parking lot and riverbank inspections.

Separately, Nepera, Inc. and Warner-Lambert Company entered into a Stipulation and Order with the NYSDEC for a supplemental remedial investigation and feasibility study for portions of the Harriman Site, which was filed with the Court on December 17, 2013 and so-ordered by the Court on January 24, 2014.

Representatives of the Parties and ELT-Harriman met with representatives of NYSDEC in Albany on October 22, 2019 to provide an overview of the various investigations and reports completed for the site to date and discuss the next steps required to progress with completion of Feasibility Study Report and closure of the site. Copies of the presentation made by the Parties and ELT-Harriman, as well as a reference list of completed reports and a summary of the site chronology were provided to the Department for future reference.

In November 2019, through a series of conference calls and emails, NYSDEC requested the completion of summary tables of analytical data by media, for samples collected to date. An outline of anticipated tables was provided by email dated December 19, 2019, with additional clarification provided by NYSDEC by email dated December 20, 2019. The Parties and ELT-Harriman completed the requested tables and figures and a link to download the files was sent via email dated May 6, 2020. A total of 22 tables and 4 figures were provided.

By letter dated December 6, 2019, NYSDEC provided comments on certain submissions, including matters relevant to the Parking Lot Feasibility Study. The Parties and ELT-Harriman jointly responded to the comments by letter from Brown & Caldwell Associates on January 17, 2020. In the May 6, 2020 email from Jeff Caputi of Brown & Caldwell transmitting the requested summary tables and figures (see above), a web-meeting was requested by the parties to discuss the outstanding issues and next steps needed to move forward with completing both the Parking Lot and Lagoon FS Reports. In response to this request, a web-meeting was held on June 18, 2020 and copies of the presentation and requested supporting information were sent via email dated June 19, 2020. The Department agreed to review the presented information and organized a web-meeting for September 24, 2020 during which the Department shared its position on several outstanding Site matters and heard the Parties' responses. The Department

provided a draft meeting summary via email dated October 30, 2020 in which they summarized the discussion, collective agreement (where applicable) and remaining concerns or points of disagreement. The Parties responded to the draft meeting summary by letter dated January 29, 2021. The Department requested a consolidated figure of soil and sediment mercury results adjacent to the stream on June 28, 2021 indicating the request was to support their efforts to resolve some of the remaining questions with respect to the Parking Lot and Lagoon FS Reports. A figure with the requested information was provided to the NYSDEC on June 29, 2021.

As a supplemental effort outside the scope of the Consent Decree and the Stipulation and Order, the Parties and ELT-Harriman are coordinating with the NYSDEC on the preparation and implementation of a sampling work plan for emerging contaminants. A site meeting was held with representatives of the Parties, ELT-Harriman and NYSDEC to tour the site, observe current conditions and answer questions as applicable. A draft work plan was submitted to NYSDEC on August 1, 2019 and the NYSDEC provided comments via letter dated September 3, 2019. A revised Work Plan was submitted on October 2, 2019 and was subsequently approved by the NYSDEC by letter dated October 15, 2019. A schedule for implementation of the approved work plan was submitted on October 21, 2019 and field work associated with collection of soil samples for emerging contaminant analysis was completed January 8 through 10, 2020. In accordance with the approved Work Plan, a Work Plan Addendum was submitted on March 10, 2020. The Work Plan Addendum presented the results of the soil sampling and a proposed work plan for the investigation of emerging contaminants in groundwater. The NYSDEC provided comments on the Work Plan Addendum by letter dated May 19, 2020 and the Parties and ELT-Harriman responded to the comments by letter dated June 2, 2020. A revised Work Plan Addendum was submitted on June 19, 2020 and subsequently approved by NYSDEC by letter dated June 23, 2020. The additional work called for in the Work Plan Addendum was implemented during the third quarter of 2020 and a report was submitted to NYSDEC on January 29, 2021. The NYSDEC responded with questions/comments on the proposed additional investigation work by letter dated March 8, 2021. The Parties and ELT responded to these comments and submitted a revised report on April 12, 2021, which was subsequently approved by NYSDEC for implementation by letter dated May 17, 2021. During the period from February 2021 through August 2021 the Parties obtained access to the off-Site properties (Mary Harriman Park and 2 Commerce Drive) for monitoring well installation, and submitted a proposed schedule for well installation activities to the NYSDEC on September 3, 2021.

Cornerstone mobilized to the Site to begin well installation activities on September 20, 2021. Soft-dig activities were completed for all well locations during the period from September 20 – 23, 2021 and well installation began on September 24, 2021. The following monitoring wells were installed during the period from September 24 – 30, 2021:

Well	Completion Depth (ft bgs)	Well Screen Interval (ft bgs)
BP-101	47	42-47
AP-101	50	30-50
MH-103D	49	39-49
MH-101	16	11-16
MH-105D	34	24-34
MH-105S	18	13-18

Well installation activities will continue into the 4th quarter, with an anticipated completion date of October 15, 2021.

Activities for the 4th Quarter 2021 (October - December 2021)

- Complete the Emerging Contaminants Groundwater Investigation.
- Perform the regularly scheduled, quarterly monitoring well, parking lot, and riverbank inspections.
- Perform parking lot maintenance as needed.

Please do not hesitate to contact us should you have questions or comments on any aspect of this progress report.

Sincerely,

Cornerstone Engineering and Geology, PLLC

Erich Zimmerman, P.E.
Client Manager

Enclosures: Inspection Reports

cc: S. Levine
C. Clark
J. Jones
M. Robinson
K. Carpenter

Representative Stream Bank Photos – August 25, 2021





Representative Photos of Potholes in Parking Lot – August 25, 2021





Representative Photos of Potholes in Parking Lot



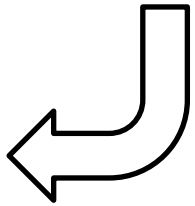


SVE/VER Product Measurement Checklist

Recorded By: Dan Wheeler
Date: 8/25/2021

DTP	DTW		
0	0.16		SVE-1
0	1.62		SVE-2
0	1.13		SVE-3
0	1.78		**SVE-4

		DTP	DTW
	VER-1	0	4.86
	*VER-2	0	4.82
	VER-3	0	4.92
	VER-4	0	3.47



To Entrance/Exit



N

NOTE: SVE wells are closer to the side of the road.
VER-1 and SVE-1 are both 4" wells. All others are 2" diameter.
Indicates absorbent sock in well.

Comments:

Wells checked for potential presence of product after absorbent socks removed.
*Absorbent sock at 50% capacity at VER-2. Absorbent sock not replaced.
Presence of product or sheen not observed in remaining wells.
* *Botton of SVE-4 partially filled in during prior demolition work. (Bottom at 2.65 ft)

From:	Zimmerman, Erich
To:	Jeff Caputi; Amin, Parag B (DEC)
Cc:	Roeper, Tim
Subject:	RE: Harriman Site #336006 - Fourth Quarter 2021 Progress Report
Date:	Tuesday, January 18, 2022 10:30:35 AM
Attachments:	image003.png image004.png image005.png image007.png image008.png image009.png image018.png image019.png image020.png image021.png image022.png

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Thanks for confirming Jeff.

Regards,

Erich

Erich Zimmerman, P.E. (NY, NJ, PA) | Senior Project Manager |Client Services Manager
Direct: +1 (845) 695-0214 | Mobile +1 (716) 864-0093 | Erich.zimmerman@tetratech.com

---

From: Jeff Caputi <JCaputi@Brwncald.com>
Sent: Tuesday, January 18, 2022 10:21 AM
To: Amin, Parag B (DEC) <parag.amin@dec.ny.gov>; Zimmerman, Erich <ERICH.ZIMMERMAN@tetratech.com>
Cc: Roeper, Tim <Tim.Roeper@tetratech.com>
Subject: RE: Harriman Site #336006 - Fourth Quarter 2021 Progress Report

Will do

Jeffrey R Caputi, P.E.
Vice President / Managing Director
Brown and Caldwell
500 North Franklin Turnpike
Suite 306
Ramsey, NJ 07446
JCaputi@brwncald.com
T 201.574.4742 | **C** 201.819.4330

Professional Registration in Specific States

From: Amin, Parag B (DEC) <parag.amin@dec.ny.gov>

Sent: Tuesday, January 18, 2022 10:20 AM
To: Jeff Caputi <JCaputi@Brwncald.com>; Zimmerman, Erich <ERICH.ZIMMERMAN@tetratech.com>
Cc: Roeper, Tim <tim.roeper@tetratech.com>
Subject: RE: Harriman Site #336006 - Fourth Quarter 2021 Progress Report
Importance: High

I have no problem. Make sure the title of the workplan reflects that it also includes benzene source investigation.

Parag Amin P.E.
Pronouns: He/Him/His
Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: (518) 402-9648 | F: (518) 402-9679 | parag.amin@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Jeff Caputi <JCaputi@Brwncald.com>
Sent: Tuesday, January 18, 2022 10:14 AM
To: Zimmerman, Erich <ERICH.ZIMMERMAN@tetratech.com>; Amin, Parag B (DEC) <parag.amin@dec.ny.gov>
Cc: Roeper, Tim <tim.roeper@tetratech.com>
Subject: RE: Harriman Site #336006 - Fourth Quarter 2021 Progress Report

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Confirming our plan is to submit a work plan for additional emerging contaminants soil sampling concurrently with the groundwater investigation report. The work plan will also address investigation of the residual benzene and alpha-picoline sources. So, it will be one work plan addressing both PFAS and VOCs. Parag, please advise if this approach and schedule is acceptable to the Department.

Regards,

Jeffrey R Caputi, P.E.
Vice President / Managing Director
Brown and Caldwell
500 North Franklin Turnpike
Suite 306
Ramsey, NJ 07446
JCaputi@brwncald.com
T 201.574.4742 | **C** 201.819.4330

Brown AND Caldwell

From: Zimmerman, Erich <ERICH.ZIMMERMAN@tetratech.com>
Sent: Tuesday, January 18, 2022 9:46 AM
To: Amin, Parag B (DEC) <parag.amin@dec.ny.gov>
Cc: Jeff Caputi <JCaputi@Brwncald.com>; Roeper, Tim <tim.roeper@tetratech.com>
Subject: RE: Harriman Site #336006 - Fourth Quarter 2021 Progress Report

Hi Parag,

It is my understanding that ELT (via Brown and Caldwell) will be submitting the workplan for EC soil sampling concurrent with our submittal of the EC groundwater report. Jeff – please confirm/clarify. The schedule for this is dependent upon our gaining access to the Mary Harriman Park property for additional groundwater elevation monitoring.

After discussions with Brown and Caldwell, it is my understanding that they will be submitting the workplan separately for delineating benzene within the interior of the plant by the end of February.

I also noticed two small holes remaining within the parking lot after the last round of repairs. I have reached out to ELT for clarification and am awaiting a response. The two holes are mentioned in the second sentence of the third bullet on page one of the Progress Report.

Please don't hesitate to contact me if you have any further questions.

Regards,

Erich

Erich Zimmerman, P.E. (NY, NJ, PA) | Senior Project Manager |Client Services Manager
Direct: +1 (845) 695-0214 | Mobile +1 (716) 864-0093 | Erich.zimmerman@tetratech.com

From: Amin, Parag B (DEC) <parag.amin@dec.ny.gov>
Sent: Tuesday, January 18, 2022 9:36 AM
To: Zimmerman, Erich <ERICH.ZIMMERMAN@tetratech.com>
Subject: RE: Harriman Site #336006 - Fourth Quarter 2021 Progress Report
Importance: High

Hi Erich,
The report indicates that the a work plan for the performance of additional emerging contaminant soil sampling will be submitted in 1st quarter of 2022. I assume that the workplan will also include investigation to delineate the benzene source area.

Couple of potholes in the parking is observed which I don't see being mentioned in the report but regardless, I assume will be fixed under the standby contract ELT has.

Please correct, me if I have misspoken or misunderstood.

Parag Amin P.E.
Pronouns: He/Him/His
Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: (518) 402-9648 | F: (518) 402-9679 | parag.amin@dec.ny.gov
www.dec.ny.gov |

From: Zimmerman, Erich <ERICH.ZIMMERMAN@tetratech.com>
Sent: Friday, January 14, 2022 11:40 AM
To: Amin, Parag B (DEC) <parag.amin@dec.ny.gov>; Carpenter, Kevin J (DEC) <kevin.carpenter@dec.ny.gov>
Cc: Levine, Seth <seth.levine@cambrex.com>; Christopher.J.Clark@pfizer.com; mrobinson@eltransfer.com; jjones@vertellus.com; Jeff Caputi <jcaputi@brwncald.com>; Roeper, Tim <Tim.Roeper@tetratech.com>
Subject: RE: Harriman Site #336006 - Fourth Quarter 2021 Progress Report

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good Morning Parag:

Attached for your review is the third quarter 2021 Progress Report for the Harriman Site. Please contact us if you have any questions or comments.

Regards,

Erich

Erich Zimmerman, P.E. | Senior Engineer |Client Services Manager
Direct: +1 (845) 695-0214 | Mobile +1 (716) 864-0093 | Erich.zimmerman@tetratech.com

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TETRA TECH

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PLLC

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January 14, 2022

Parag Amin, P.E.
Project Manager, Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014

Re: Quarterly Progress Report – 4th Quarter 2021
Harriman Inactive Waste Disposal Site #336006

Dear Mr. Amin:

On behalf of Warner Lambert LLC and Cambrex Corporation (Parties), this letter and inspection reports provide the fourth quarter of 2021 project progress report for the Harriman Site, located in Harriman, New York (Harriman Site). Due to the presence of other remediation programs and voluntary investigative work being performed at the site, this report includes activities that are beyond the scope of the Parties' obligations under the Consent Decree.

Site Remediation Activities Performed (October - December 2021)

- The biosparging system was shut down on September 10, 2008 in accordance with the Supplemental Remedial Action Work Plan approved by the New York State Department of Environmental Conservation (NYSDEC) on June 18, 2008, and remained offline through the fourth quarter of 2021, per recommendations in prior quarterly reports to the NYSDEC. Because the system was offline, no routine operation and maintenance was necessary during the reporting period. The building housing the biosparge system remains locked and in generally good condition. As reported in the first quarter 2016 progress report, the biosparge system sustained limited damage during site demolition activities; but with some repairs system operation could be restored in the future if needed.

- The interim cover along the West Branch of the Ramapo River was evaluated as a part of a site inspection performed on December 9, 2021. The interim cover remains in good condition. The cover vegetation is stable, well vegetated, and there are no signs of erosion. Representative photos are attached.

- The parking lot pavement remains generally intact and functioning as a cover. Pothole repairs were made by ELT-Harriman, LLC on November 23, 2021. During the subsequent December 9, 2021 inspection, the parking area was observed to be in generally good condition with two small holes in the cover. Additional pothole repairs were subsequently made by ELT-Harriman, LLC on December 16, 2021. Representative photos of the repairs made and observed holes are attached for reference.

- The quarterly well inspection report is also attached for reference. The monitoring well network in the routine five-quarter monitoring program remains in good condition and functional as noted in the attached summary tabulation from the November 12, 2021 inspection. New wells installed in August 2020 and October 2021, while not part of the five-quarter monitoring program, have been added to the inspection checklist.

- As described in the second quarter 2016 progress report, product was not observed on the absorbent socks in wells SVE-1, SVE-3, SVE-4, and VER-2 during the December 2015 and March 2016 inspections; therefore, the absorbent socks were removed during the June 2016 inspection, with the intent of checking the wells for sheen or product without the absorbent socks present. Since removal of the absorbent socks in June 2016, the wells have been checked during each inspection for evidence of product or sheen, both visually and with an interface probe, and during the April 2017 inspection, an absorbent sock was placed in VER-2 based on an observed sheen, and an absorbent sock remains in this well as noted in the attached inspection report. The sock in VER-2 was replaced during the November 12, 2021 inspection and a product sheen and odor were observed in this well. Wells SVE-1, SVE-3, and SVE-4 continue to not have any evidence of product or sheen and, therefore, the Parties have discontinued the use of absorbent socks in these wells. During the August 25, 2021 inspection, neither product nor sheen was observed in any of the SVE or VER wells. Cornerstone, on behalf of the Parties, previously sent a separate letter to the NYSDEC documenting the request to modify the use of absorbent socks. The request to discontinue use of the absorbent socks and quarterly inspections of all SVE and VER wells except for VER-2 was subsequently approved via email dated July 17, 2020.

- In the first quarter of 2012 progress report, the Parties requested that following the April 2012 groundwater sampling event the sampling program be modified to an annual frequency, based on the consistency of the groundwater monitoring data since 2008 when the biosparge system was shut down. Following this request in the April 2012 quarterly progress report, the NYSDEC approved modifying the groundwater monitoring frequency to every five quarters. This approval was provided in an electronic mail message from the NYSDEC to Cornerstone dated May 10, 2012. The NYSDEC approved a frequency of every five quarters, in lieu of annually, so that the groundwater monitoring would occur at different times throughout the year. The list of monitoring wells to be sampled and analytical parameters remain unchanged. The seventh five-quarter routine sampling event was completed during the period of March 29-31, 2021 and results of this sampling were provided within the 2nd quarter 2021 report. As indicated in that report, data from the most recent sampling event continued to show that site-specific compounds were not detected at the downgradient property boundary at concentrations above groundwater quality standards. The next sampling event will be scheduled during the second quarter of 2022.

- The IRM groundwater extraction system components remain off-line on standby per the NYSDEC's approval pending the completion of the Supplemental Remedial Action Work Plan, including continued groundwater monitoring, and evaluation of the

appropriateness of an ESD. Because of the ELT Harriman, LLC demolition work, the groundwater extraction system components have been dismantled, but the system can be restored, if necessary.

Parking Lot and Other

As of May 14, 2010, the Parties had concluded all work and information transfer requested by the NYSDEC in connection with sampling and delineation of the calcium sulfate material in the Area B parking lot. The Parties, in conjunction with ELT-Harriman, LLC submitted a *Site-Wide Characterization Summary Report* on March 7, 2011. The Parties conduct both quarterly parking lot and riverbank inspections.

Separately, Nepera, Inc. and Warner-Lambert Company entered into a Stipulation and Order with the NYSDEC for a supplemental remedial investigation and feasibility study for portions of the Harriman Site, which was filed with the Court on December 17, 2013 and so-ordered by the Court on January 24, 2014.

Representatives of the Parties and ELT-Harriman met with representatives of the NYSDEC in Albany on October 22, 2019 to provide an overview of the various investigations and reports completed for the site to date and discuss the next steps required to complete the Feasibility Study (FS) reports and advance work at the site. Copies of the presentation made by the Parties and ELT-Harriman, as well as a reference list of completed reports and a summary of the site chronology were provided to the Department for future reference.

In November 2019, through a series of conference calls and emails, the NYSDEC requested the completion of summary tables of analytical data by media, for samples collected to date. An outline of anticipated tables was provided by email dated December 19, 2019, with additional clarification provided by the NYSDEC by email dated December 20, 2019. The Parties and ELT-Harriman completed the requested tables and figures and a link to download the files was sent via email dated May 6, 2020. A total of 22 tables and 4 figures were provided.

By letter dated December 6, 2019, the NYSDEC provided comments on certain submissions, including matters relevant to the Parking Lot Feasibility Study. The Parties and ELT-Harriman jointly responded to the comments by letter from Brown & Caldwell Associates on January 17, 2020. In the May 6, 2020 email from Jeff Caputi of Brown & Caldwell transmitting the requested summary tables and figures (see above), a web-meeting was requested by the parties to discuss the outstanding issues and next steps needed to move forward with completing both the Parking Lot and Lagoon FS Reports. In response to this request, a web-meeting was held on June 18, 2020 and copies of the presentation and requested supporting information were sent via email dated June 19, 2020. The Department agreed to review the presented information and organized a web-meeting for September 24, 2020 during which the Department shared its position on several outstanding Site matters and heard the Parties' responses. The Department provided a draft meeting summary via email dated October 30, 2020 in which they summarized the discussion, collective agreement (where applicable) and remaining concerns or points of disagreement. The Parties responded to the draft meeting summary by letter dated January 29,

2021. The Department requested a consolidated figure of soil and sediment mercury results adjacent to the Ramapo River on June 28, 2021 indicating the request was to support their efforts to resolve some of the remaining questions with respect to the Parking Lot and Lagoon FS Reports. A figure with the requested information was provided to the NYSDEC on June 29, 2021. The NYSDEC provided a summary document outlining their position regarding outstanding issues via email on August 11, 2021. A conference call was held between the NYSDEC, the Parties and ELT to discuss and resolve outstanding issues, and the Parties and ELT have committed to providing a formal response to the outstanding issues identified in the NYSDEC's August 11, 2021 email by January 14, 2022. In response to several issues discussed during the December 6, 2021 joint conference call, the Parties propose to perform additional soil sampling along the south bank of the Ramapo River, including the floodplain, to better delineate the horizontal and vertical extent of potential impacts. The results of this sampling will be used to inform the lagoon and parking lot feasibility studies. A work plan for the performance of this additional soil sampling will be submitted by the end of January 2022, with implementation of this work proposed for the Spring of 2022.

As a supplemental effort outside the scope of the Consent Decree and the Stipulation and Order, the Parties and ELT-Harriman are coordinating with the NYSDEC on the preparation and implementation of a sampling work plan for emerging contaminants. A site meeting was held with representatives of the Parties, ELT-Harriman and NYSDEC to tour the site, observe current conditions and answer questions as applicable. A draft work plan was submitted to NYSDEC on August 1, 2019 and the NYSDEC provided comments via letter dated September 3, 2019. A revised work plan was submitted on October 2, 2019 and subsequently approved by the NYSDEC by letter dated October 15, 2019. A schedule for implementing the approved work plan was submitted on October 21, 2019 and field work associated with collection of soil samples for emerging contaminant analysis was completed January 8 through 10, 2020. In accordance with the approved work plan, a work plan addendum was submitted on March 10, 2020. The work plan addendum presented the results of the soil sampling as well as a proposed work plan for the investigation of emerging contaminants in groundwater. The NYSDEC provided comments on the work plan addendum by letter dated May 19, 2020 and the Parties and ELT-Harriman responded to the comments by letter dated June 2, 2020. A revised work plan addendum was submitted on June 19, 2020 and subsequently approved by NYSDEC by letter dated June 23, 2020. The additional work called for in the addendum was implemented during the third quarter of 2020 and a report was submitted to NYSDEC on January 29, 2021. The NYSDEC responded with questions/comments on the proposed additional investigation work by letter dated March 8, 2021. The Parties and ELT responded to these comments and submitted a revised report on April 12, 2021, which was subsequently approved by NYSDEC for implementation by letter dated May 17, 2021. During the period from February 2021 through August 2021 the Parties obtained access to the off-Site properties (Mary Harriman Park and 2 Commerce Drive) for monitoring well installation and submitted a proposed schedule for well installation activities to the NYSDEC on September 3, 2021.

Cornerstone mobilized to the Site to begin well installation activities on September 20, 2021. Soft-dig activities were completed for all well locations during the period from September 20 –

23, 2021 and well installation took place during the period from September 24 through October 7, 2021. The following monitoring wells were installed during this period:

WELL ID		COMPLETION DEPTH (FT BGS)		WELL SCREEN INTERVAL (FT BGS)
BP-101		47		42-47
AP-101		50		30-50
MH-101		16		11-16
MH-102		38		28-38
MH-103S		20		15-20
MH-103D		49		39-49
MH-104		26		21-26
MH-105S		18		13-18
MH-105D		34		24-34
AMW-1		20		10-20
AMW-2		25		20-25
AMW-3		14		9-14
AMW-4		24		14-24
AMW-5		18		8-18
AMW-8		20		10-20
AMW-9		20		10-20
AMW-10		20		10-20
AMW-11		20		10-20

All newly installed wells were developed during the period from October 11-15, 2021 and groundwater sampling took place from October 25 -29, 2021. A synoptic round of groundwater elevations was obtained, and all wells were subsequently sampled for per-and polyfluoroalkyl substances (PFAS) by USEPA method 537 (modified).

As discussed during the joint conference call of December 6, 2021, the Parties and ELT have requested access to additional wells on the Mary Harriman Park property for the purpose of collecting additional groundwater elevation and monitoring data. Discussions regarding the sampling scope are ongoing, and the schedule for submission of the results report and work plan for supplemental PFAS soil sampling is dependent upon access to the Mary Harriman Park property and the performance of this additional sampling.

Activities for the 1st Quarter 2022 (January - March 2022)

- Submit a letter formally responding to the issues raised in the Department's August 2021 communication.
- Submit a work plan for the performance of soil sampling within the south Ramapo Riverbank.
- Coordinate access with the Village of Harriman and submit results of emerging contaminant groundwater sampling contingent upon timing of the access agreement.
- Submit a work plan for the performance of additional emerging contaminant soil sampling.
- Perform the regularly scheduled, quarterly monitoring well, parking lot, and riverbank inspections.
- Perform parking lot maintenance as needed.

Please do not hesitate to contact us should you have questions or comments on any aspect of this progress report.

Sincerely,

Cornerstone Engineering and Geology, PLLC

Erich Zimmerman, P.E.
Client Services Manager

Enclosures: Inspection Reports

cc: S. Levine
C. Clark
J. Caputi
J. Jones
M. Robinson
K. Carpenter

Representative Stream Bank Photos – December 9, 2021





Representative Photos of November 23, 2021 Parking Lot Repairs





Representative Photos of Minor Holes in Parking Lot – December 9, 2021





Representative Photos of December 16, 2021 Parking Lot Repairs





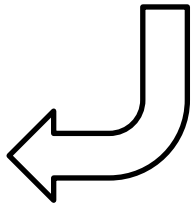
SVE/VER Product Measurement Checklist

Recorded By: Dan Wheeler

Date: 11/12/2021

DTP	DTW		
0	0.25		SVE-1
0	2.94		SVE-2
0	3.07		SVE-3
0	2.65		**SVE-4

		DTP	DTW
	VER-1	0	3.42
	*VER-2	3.72	3.73
	VER-3	0	2.97
	VER-4	0	2.99



To Entrance/Exit



NOTE: SVE wells are closer to the side of the road.

VER-1 and SVE-1 are both 4" wells. All others are 2" diameter.

Indicates absorbent sock in well.

Comments:

Wells checked for potential presence of product after absorbent socks removed.

*Absorbent sock at 75% capacity at VER-2. Absorbent sock replaced. Sheen and odor present

Presence of product or sheen not observed in remaining 7 wells.

* *Botton of SVE-4 partially filled in during prior demolition work. (Bottom at 2.65 ft)

_____

_____