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ENVIRONMENT

Subject:
Groundwater Investigation Report and Proposed RAS Expansion Plan
General Electric Company Hickory Facility
EPA ID# - NCD003237948
Conover, North Carolina

Date:
July 22, 2021

Contact:
Matthew Pelton

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Our ref:
ARC11015

Dear Ms. Bari:

This letter has been prepared by Arcadis G&M of North Carolina, Inc. (Arcadis) on behalf of the General Electric Company (GE) to provide details of the recent voluntary groundwater investigative activities conducted at GE's Hickory facility in Conover, North Carolina (the Site, **Figure 1**). The activities were conducted to further evaluate the distribution of dissolved volatile organic compounds (VOCs) in groundwater at the Site that may be discharging to the unnamed creek on the western boundary of the Site (western creek). The objective of the investigation was to identify areas of higher mass distribution to support an expansion to the groundwater remedial action system (RAS), namely, the design of additional extraction wells. Design details and a plan for installation of additional extraction wells is also provided.

Elevated VOC concentrations in surface water downgradient of recovery wells installed in 2010 (R-21, R-22, and R-23) suggests insufficient volatile organic compounds (VOC) plume capture in that area of the Site. The 2010 expansion recovery wells have limited productivity and are also spaced further apart than the remaining recovery well network (R-1 through R-19). Therefore, additional recovery wells in that area are proposed to reduce VOC flux into the stream.

A pre-design investigation was completed between January and March of 2021 for preliminary plume definition to select locations and screen intervals for additional wells along the northern portion of western creek. Residuum/saprolite investigation activities were completed between January and February 2021 using a

combination of direct-push technology (DPT) Geoprobe® screen-point sampling and solid-stem auger drilling for the installation of temporary-wells to characterize discrete depth intervals in unconsolidated material and partially weathered rock (PWR). Packer-testing investigation activities were completed in March 2021 to characterize discrete depth intervals in competent bedrock. Supplemental surface water sampling and existing-recovery well sampling was also conducted in January 2021 to correlate current surface water conditions with the groundwater profiling data. **Figure 2** presents the groundwater locations, recovery wells, and surface water locations sampled during investigation activities.

Analytical results and hydrogeologic characterization were used to identify the lateral and vertical extent of the additional proposed recovery points. Drilling, sampling, and evaluation activities are described further below.

Sealed-Screen and Temporary Well Drilling and Sampling Activities

Groundwater sampling and soil-logging activities occurred between January and February 2021 at eleven (11) locations HP-01A and HP-01 through HP-10. The HP locations were hand-cleared to 5 feet (ft) below ground surface (bgs) using a hand auger before being advanced using a combination of DPT and auger drilling methods.

DPT groundwater sampling included the advancement of a sealed-screen sampler (Geoprobe Screen Point 16 Water Sampler). Upon advancing the sealed-screen sampler to the target sampling depth, a protective outer rod-casing was retracted, exposing the 4-foot screen to groundwater. Groundwater was then purged using a stainless-steel check-valve and tubing combination for each sample interval; new tubing was used and the check valve was properly decontaminated between each sample interval. Sealed-screen groundwater samples were collected in consecutive 4-foot intervals spanning from the water-table to DPT termination depth.

DPT drilling activities also included split-spoon soil characterization using a Geoprobe MC5 soil sampler. Split spoon soil-cores were collected and logged for lithologic characterization; noting the color, grainsize, moisture content, etc. Each location was slightly offset between paired sealed-screen locations and lithologic characterization (split-spoon) locations.

All reusable sampling/logging drilling equipment was decontaminated between locations using a combination of steam-cleaning and brushing.

During initial DPT logging and sealed-screen sampling activities, it was noted that DPT termination depths were shallower than the expected PWR and bedrock interface due to the limitation of DPT to unconsolidated soils and very-soft rock. DPT refusal was interpreted as a distinct interface/transition from highly weathered-unconsolidated material (residuum) into PWR.

Each HP location was re-drilled/widened using a four (4) inch solid-stem auger. All HP locations (with the exception of HP-04) were advanced an additional 5-15 ft beyond DPT termination. Termination depth of auger drilling is interpreted as the interface between PWR and competent bedrock. This zone, between DPT and auger terminations, represents the extent of the interpreted PWR. Upon the advancement of augers at each HP location to refusal, the entire auger-string was removed to gain access to the bottom of the borehole and then a temporary 1-inch well was placed, spanning the depth of the PWR. Each 1-inch well was completed using slotted-screen PVC and a combination of traditional sand-filter pack spanning

the length of screen. The remaining column was filled with bentonite and then grouted to ground surface. Temporary wells were developed and sampled the following week using a tubing and check valve assembly with both manual/hand surging and use of a Waterra pump.

The interpreted hydrogeologic zones and drilling approach used to collect samples from the residuum and PWR are presented in **Table 1**, along with their respective extent- and sampling-depth intervals. Soil boring and groundwater sampling logs are contained in **Attachments 1** and **2**, respectively. All samples were submitted for the analysis of select-list VOCs by Environmental Protection Agency (EPA) Method 8260. The most current version of each analytical method was used.

Bedrock Drilling and Packer-Testing Sampling Activities

In March 2021, three (3) bedrock drilling locations BR-01 through BR-03 were advanced using a combination for hollow-stem auger and air-rotary methods to a termination depth of 100 ft, to assess groundwater concentrations flowing through fractures in shallow bedrock. Each location was initially advanced using an 8.25" inner diameter hollow-stem auger to refusal and drilled with 8" air hammer until competent rock was encountered and would sufficiently seat the surface-casing. A PVC surface-casing was placed and grouted and allowed time to cure for at least 24 hours. Each boring was then advanced to a target depth of 100 ft using air-rotary. The well casing, when installed was grouted in place and extended at least 2.5 ft above the ground-surface.

Competent rock was encountered at BR-02 and BR-03 between 36-39 ft, respectively, which was consistent with the interpreted depth to bedrock observed at nearby HP locations. At BR-01, however, material from 30-36 ft bgs was competent (hard) rock. Below that was a deeper, discrete zone of partially weathered (soft) rock encountered between 36-56 ft bgs. Competent bedrock was again encountered at 56 ft bgs and a surface-casing was set at 58 ft bgs. Due to the zone of PWR observed at BR-01, the surface casing was set nearly 20 ft deeper than the other two locations, BR-02 and BR-03.

A downhole camera was utilized to identify apparent-fractures (at depth) at each bedrock location, however, a limited number of fractures were observed. Those that were observed were generally (either) high-angle or horizontal features, potentially-transmissive fractures. The depth and occurrence of features/fractures were noted during downhole camera review. The frequency of observed fractures (or lack thereof) would govern water entering the borehole in competent rock. There were some notable correlations between particular fracture zones and packer test intervals with adequate recharge, meaning that during packer testing, a particular interval produced sufficient water to allow for a three packer interval purge without going dry. Notably, intervals showing good recharge in BR-01 and BR-03 correlated with the observed features and fractures at depth; this was less so in BR-02.

The week following drilling and casing installation activities, samples were collected from bedrock locations using a dual-packer assembly from consecutive/discrete-intervals in bedrock down to 100 ft bgs. Each packer testing interval (between the inflated packers) was about 20 ft; with the exception of the 36-60 foot interval from BR-03. A stainless-steel submersible pump was used to purge each interval of three (3) packer-interval volumes, or until the packer interval was purged dry, whichever occurred first. During purging activities, sufficient continuous flow rates were achieved to allow for a 3-volume purge between BR-01 packer intervals 60-80 and 80-100 ft bgs, BR-02 packer interval 60-80 ft bgs, and BR-03 packer interval 80-100 ft bgs, suggesting productive fracture-flow within these intervals. Packer testing interval for BR-02 from 39-59 ft bgs had little to no recharge and an insufficient amount of water for sample collection.

The remaining packer intervals (BR-02 packer interval 80-100 ft bgs, BR-03 packer intervals 36 – 60 and 60 – 80 ft bgs) were purged dry during packer testing procedures and were sampled following recharge of the test interval.

Reusable drilling and packer testing equipment was decontaminated between locations using a combination of steam cleaning and brushing.

Hydrogeologic depth regimes (the interface between PWR and bedrock) for BR-01 through BR-03 are presented in **Table 2**, along with sample/packer depth intervals, and notable commentary regarding construction, flow, and fractures. Packer testing sampling logs are included in **Attachment 3**. All samples were submitted for the analysis of select-list VOCs by EPA Method 8260.

Sealed-Screen and Temporary Well Hydrogeology and Results

Hydrogeologic zones observed at each location indicated a graded sequence/transition from residuum, to PWR, to BR. The hydrogeologic sequence observed at HP locations HP-01A and HP-01 through HP-09 indicated an undulating bedrock/PWR interface between 23 and 37 ft bgs. A PWR zone was observed at each HP location, with exception of HP-04 due to a termination depth of 23 ft bgs for both DPT and auger drilling methods. PWR (difference between DPT and auger drilling methods) ranged from 0 to 15 ft in thickness, with an average thickness of approximately 10 ft.

The vertical-transition from residuum to PWR to BR observed at the HP locations were generally more shallow compared to those observed in the pre-expansion recovery well network logs for R-1 through R-19. The depth to bedrock at HP-10, in contrast, was nearly 20 ft deeper than the remaining HP locations. HP-10 more-closely resembled the relative depths seen in pre-expansion recovery wells R-1 through R19, where depth to bedrock ranges from 50-80 ft bgs.

Forty-nine samples were collected from sealed-screen (residuum) and temporary well (PWR) sampling intervals amongst the eleven HP locations. One PWR sample was collected from each location. With the exception of HP-03, HP-04, and HP-05, the highest tetrachloroethene (PCE) concentrations at each respective HP location were observed in the PWR. PCE was the primary VOC detected in the groundwater samples, with concentrations higher roughly in the middle of the north-south alignment of the investigation areas and generally declining north of HP-02 and south of HP-05. Daughter/degradation-products trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE) were detected at lesser concentrations compared to the corresponding PCE result. Locations and samples collected further away from the central portion of the investigation area showed variability with respect to PCE or TCE prominence, but were all reflective of a singular plume and indicative of VOC degradation processes affecting the outer extents of the plume.

Analytical data was compared to relevant screening values (NCAC 2L standards for groundwater). A summary of detected constituents for sealed-screen and temporary well investigation locations are provided in **Table 3**, and laboratory analytical reports are included as **Attachment 4**. The transect through the investigation locations is shown in **Figure 3** that is the basis of subsequent geologic cross-section figures. The maximum groundwater concentration at each location for PCE, TCE, and cis-1,2-DCE are presented on **Figures 4A, 5A, and 6A**, respectively. Geologic cross-sections showing the PCE, TCE, and cis-1,2-DCE concentrations at each vertical locations against the interpreted geologic layers are presented in **Figures 4B, 5B, and 6B**, respectively.

The highest concentrations in the residuum and PWR are associated with locations HP-02 through HP-04. PCE concentrations ranged from 10,200 to 17,300 ug/L in the temporary well sampling depth-intervals for HP-02 through HP-04. HP-03 had concentrations of 22,200 ug/L and 22,100 ug/L at the residuum depth-intervals of 13 - 17 and 18 - 22 ft bgs, respectively, which represent the highest concentrations analyzed as part of this investigation. HP-03 is located, laterally, closer to the creek compared to other HP locations and CVOC mass was observed shallower in the hydrogeologic-sequence, which may indicate vertical-upward flow and mass-discharge to the creek in this area.

Location HP-01A represents the northern extent of the investigative borings and was installed based on the results of the initial event that occurred in January 2021. At the time, it was determined that an additional location north of the planned HP-01 through -10 locations would further delineate the extents of PCE in groundwater. It was also noted by field personnel that HP-01A represents the furthest north access available to a drill rig due to the terrain becoming increasingly steep sloping upwards to the site access road north of this location. Detected PCE concentrations observed in HP-01A ranged from 1.1 to 1.2 ug/L in the residuum and was 186 ug/L in the PWR. While this location was not below the groundwater standard, there is significant decrease in concentration versus more southernly borings. Observed surface water locations north of the site access road have historically been non-detect, further confirming that delineation north of the access road is not necessary.

Bedrock Hydrogeology and Results

Bedrock concentrations for PCE measured in the packer test ranged from 97.2 to 3,070 ug/L. The highest concentration in the bedrock was nearly one order of magnitude lower than the (shallower) sealed screen and temporary well sample results. Relative concentration profiles for PCE, TCE, and cis-1,2-DCE were generally similar to the relative profile in the shallower hydrogeologic sequences, with PCE being the major constituent and lower concentrations of daughter products. The nature of purging/recharge observations, magnitude of concentrations, and apparent fractures observed during drilling and downhole camera activities indicate a limited hydraulic connection between groundwater in the shallow bedrock and the overlying PWR.

Analytical data was compared to relevant screening values (NCAC 2L standards for groundwater). A summary of detected constituents for bedrock investigation (packer testing) locations is provided in **Table 3**, and laboratory analytical reports are included as **Attachment 4**.

Surface Water

Surface water samples were collected from select routinely monitored locations A, B, C, D, and E; as well as five additional locations between locations B and D: B-1, B-2, B-3, C-2, C-4 as shown on Figure 2.

The highest VOC concentrations in the creek are potentiometrically down-gradient of HP-02 through HP-04, which suggests a higher discharge rate of VOCs to the creek between locations D and C and (to a potentially lesser extent) between locations C and B. The sharp increase in PCE-prominence and TCE concentrations between surface water samples D through C-2 persists (central-plume discharge is occurring) until down-gradient locations B-3 and B-2, respectively. This suggests that dilution and plume influence of surface water concentrations is occurring between surface water locations B-2 and B-1. Analytical data was compared to relevant screening values (North Carolina (NC) 2B standards.

Concentrations of PCE and TCE gradually diminish (downgradient of this area) to levels close to or below the surface water standards and approaching non-detect near the southwest corner of the GE property. A summary of detected constituents is provided in **Table 4**, and laboratory analytical reports are included as **Attachment 4**.

Recovery Well Network

Each existing recovery well in the network (R-1 through R-19 and R-21 through R-23) was sampled to provide current groundwater quality data to further refine understanding of plume extents and for use in the redistribution of pumping rates across the network with the pending addition of the new recovery wells.

Analytical data was compared to relevant screening values (NCAC 2L standards for groundwater). A summary of detected constituents is provided in **Table 5**, and laboratory analytical reports are included as **Attachment 4**.

Investigative Derived Waste

Investigative derived purge water was treated by the onsite remedial action system. Soil and rock cuttings, and fluids from decontamination of drilling equipment, were stored in 55-gallon drums and staged in a secure location at the Site. Upon confirmation of waste characterization and profiling, HAZ-MAT Environmental Services, LLC picked up forty-one (41) drums of IDW for nonhazardous waste disposal on April 22, 2021.

RAS Expansion

Commissioning and Permitting

The RAS system discharge (effluent) into the western creek is permitted under National Pollutant Discharge Elimination System (NPDES) permit number NC0076643, which expires on July 31, 2025. Once the RAS expansion design has been approved by the NC DEQ Waste Management Division (WMD), GE will submit any needed revisions to the NPDES permit application to the NC DEQ Division of Water Resources (DWR) to incorporate the new wells. A recovery well installation permit will be obtained from the DWR prior to installation of the new wells.

Following approval of the design by DEQ, and issuance of the well permit, GE will contract with a driller for the installation of the wells, as well as mechanical/electrical contractors for the required RAS system installations/connections. All necessary local permits will be obtained prior to starting work. The proposed new wells locations are shown on **Figure 7**. Well construction will include a screen spanning the residuum/PWR and placed with a termination depth approximately 10 ft into competent bedrock. Based on preliminary data collected during the investigation; and the observed yield of similarly constructed extraction wells in this area, it is anticipated that the new wells will yield between 0.5 and 3.0 gallons per minute (gpm) each once they are connected to the RAS, resulting in an additional 1.5 to 9 gpm added to the total RAS inflow. **Figure 8** presents the proposed well construction for the new extraction wells, including the targeted screen extent in relation to the hydrogeologic zones. Preliminary design drawings providing other details of the RAS expansion, specifically tie in of the new wells to the existing RAS, are included in **Attachment 5**.

Startup Monitoring

Testing and performance monitoring will be performed during the start-up phase of the RAS expansion and will include system and individual well flow-rate monitoring; daily for the first week, then weekly to ensure total system flow does not exceed NPDES permit limits. Startup will also include new expansion well analytical (VOC) monitoring; once after installation and development, and again after at least 1 week of continuous operation.

Operation, Inspections, and Monitoring

The expansion wells will be incorporated into the routine operation, inspection, and monitoring currently prescribed by the RCRA Post-Closure Care Permit NCD 003 237 948 (RCRA Permit), for the existing RAS. Because the RAS system components and operation are not changing, and only additional extraction wells are being added, the following requirements listed in Appendix C of the RCRA permit are not expected to require any updates and GE will continue to implement operation, maintenance, inspections and training at the same frequencies currently being performed:

- RAS maintenance plan;
- Training programs related to the operation and monitoring of the RAS system;
- Contingency plan for the RAS system; and
- Abandonment plan for the RAS system

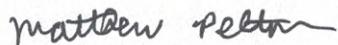
Summary and Recommendations

VOC mass identified in residuum and PWR near the expansion recovery wells (R-21, R-22, and R-23), and elevated concentrations in surface water downgradient of the investigative groundwater sampling locations, suggests ongoing discharge of groundwater containing VOCs into the surface water. GE plans to install three new recovery wells along the existing expansion network, between and in-line with R-21, R-22, and R-23, to improve groundwater plume capture in that area of the Site. Placement of new recovery wells between existing recovery wells and targeting the central-southern extent of the plume will increase mass recovery in this area and reduce VOC discharge to the western creek. GE will continue to monitor surrounding groundwater and the creek during annual sampling events to determine if additional recovery wells are needed.

Please do not hesitate to contact either myself or Bob Witsell (GE) with any questions.

Sincerely,

Arcadis G&M of North Carolina, Inc.



Matthew T. Pelton, P.E.
Principal Environmental Engineer

Ms. Caroline Bari
July 22, 2021

Copies:
Bob Witsell (GE)

Enclosures:

Table 1 – Hydrogeologic Zone, Drilling and Sampling Method Summary
Table 2 – Bedrock (Packer Testing) Drilling, Sampling, and Observations Summary
Table 3 – Concentration of Target VOCs for Groundwater Sampling Locations
Table 4 – Concentration of Target VOCs in Surface Water Samples
Table 5 – Groundwater Analytical Results for Recovery Wells R-1 through R-23

Figure 1 – Site Location Map
Figure 2 – Groundwater and Surface Water Sampling Location Map
Figure 3 – Groundwater and Recovery Well Geologic Cross Section Location Map
Figure 4A – Groundwater and Surface Water Sampling Results for PCE
Figure 4B – Geologic Cross Section A-A' – Groundwater Results for PCE
Figure 5A – Groundwater and Surface Water Sampling Results for TCE
Figure 5B – Geologic Cross Section A-A' – Groundwater Results for TCE
Figure 6A – Groundwater and Surface Water Sampling Results for Cis-1,2-DCE
Figure 6B – Geologic Cross Section A-A' – Groundwater Results for Cis-1,2-DCE
Figure 7 – Proposed Recovery Well Location Map
Figure 8 – Proposed Recovery Well Construction Diagram

Attachment 1 – Soil Boring Logs
Attachment 2 – Groundwater Sampling Logs
Attachment 3 – Bedrock Packer Testing Logs
Attachment 4 – Laboratory Analytical Reports
Attachment 5 – RAS Expansion Design Drawings

TABLES

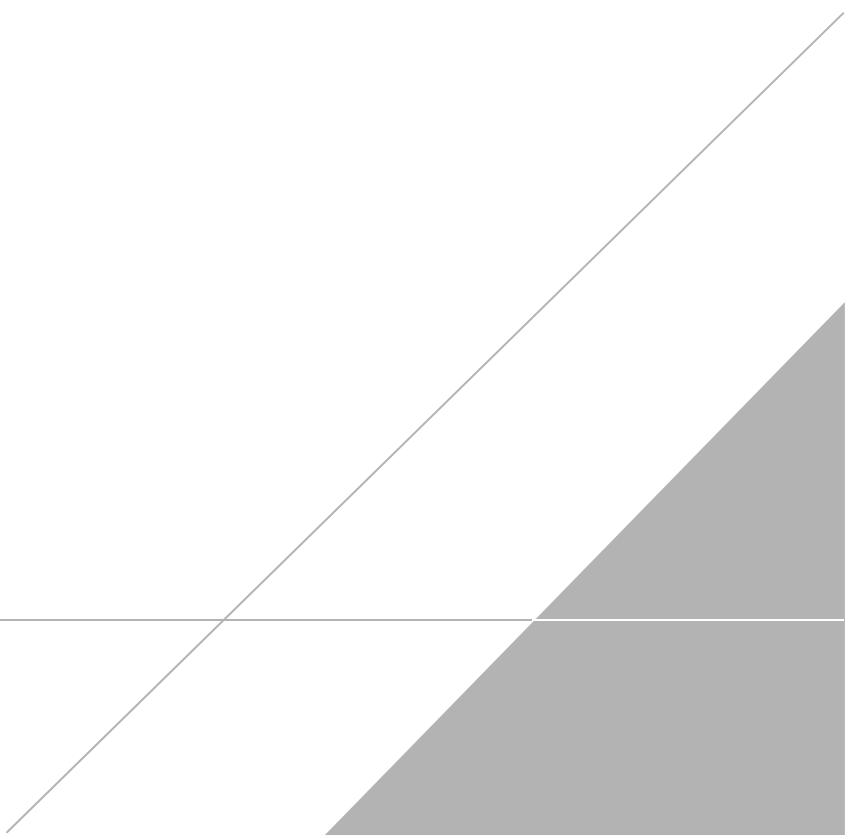


Table 1 - Hydrogeologic Zone, Drilling and Sampling Method Summary

NCD003237948 - General Electric (Conover)

Groundwater Investigation Report



Location ID	Hydrogeologic Zone	Depth Intervals (ft bgs)	Equipment/Method		Sample/Screen Intervals (ft bgs)
			Drilling	Sampling	
Sealed-Screen and Temporary Well Investigation Locations					
HP-01A	Residuum	0 - 26	DPT	Sealed-Screen Sampler	11 - 25
	PWR	26 - 37	Auger	1-inch temp. Well	27 - 37
	BR	37 --	--	--	-- --
HP-01	Residuum	0 - 24	DPT	Sealed-Screen Sampler	5 - 23.5
	PWR	24 - 31	Auger	1-inch temp. Well	21 - 31
	BR	31 --	--	--	-- --
HP-02	Residuum	0 - 15	DPT	Sealed-Screen Sampler	7 - 15
	PWR	15 - 24	Auger	1-inch temp. Well	14 - 24
	BR	24 --	--	--	-- --
HP-03	Residuum	0 - 22	DPT	Sealed-Screen Sampler	8 - 22
	PWR	22 - 27	Auger	1-inch temp. Well	17 - 27
	BR	27 --	--	--	-- --
HP-04	Residuum	0 - 23	DPT ¹	Sealed-Screen Sampler	9 - 23
	PWR	-- --	Auger ¹	1-inch temp. Well	18 - 23
	BR	23 --	--	--	-- --
HP-05	Residuum	0 - 22	DPT	Sealed-Screen Sampler	8 - 22
	PWR	22 - 35	Auger	1-inch temp. Well	20 - 35
	BR	35 --	--	--	-- --
HP-06	Residuum	0 - 18	DPT	Sealed-Screen Sampler	6 - 18
	PWR	18 - 30	Auger	1-inch temp. Well	15 - 30
	BR	30 --	--	--	-- --
HP-07	Residuum	0 - 25	DPT	Sealed-Screen Sampler	7 - 23
	PWR	22 - 37	Auger	1-inch temp. Well	22 - 37
	BR	37 --	--	--	-- --
HP-08	Residuum	0 - 20	DPT	Sealed-Screen Sampler	5 - 19
	PWR	20 - 34	Auger	1-inch temp. Well	19 - 34
	BR	34 --	--	--	-- --
HP-09	Residuum	0 - 17	DPT	Sealed-Screen Sampler	4 - 17
	PWR	17 - 28	Auger	1-inch temp. Well	18 - 28
	BR	28 --	--	--	-- --
HP-10	Residuum	0 - 39	DPT	Sealed-Screen Sampler	6 - 39
	PWR	39 - 54	Auger	1-inch temp. Well	39 - 54
	BR	54 --	--	--	-- --

Notes:

Residuum - unconsolidated material including fill/deposition/regolith/saprolite

PWR - Partially Weathered Rock

BR - Bedrock

DPT - Direct Push Technology

Auger - 4-inch (diameter) solid-stem auger

Sealed-Screen Sampler - 4 foot intervals from water-table to bedrock. One sample was collected per advance of the sample. 1-inch well was installed at each location, screening the PWR; using a combination of 5 foot PVC screen segments;

5, 10, or 15 foot screens. Each location was developed and sampled for select-VOCs (8260)

ft bgs - All depth intervals presented in feet (ft) below ground surface (bgs)

* - Bedrock coordinates are approximate, not surveyed

Table 2 - Bedrock (Packer Testing) Drilling, Sampling, and Observations Summary

NCD003237948 - General Electric (Conover)

Groundwater Investigation Report

Location ID	Hydrogeologic Zone & Rock Type	Depth Intervals (ft bgs)	Equipment/Method		Sampling/Screen/ Packer-Testing Intervals (ft bgs)	Comments		
			Drilling	Sampling		Purging and Sampling	Observations During Drilling	Downhole Camera Review
Bedrock Investigation (Packer Testing) Locations								
BR-01	Rock	30 - 36	Air-Rotary	--	-- --	--	<5 ft of competent rock	--
	PWR	36 - 56		--	-- --	--	PWR-BR transition; soft-gray	--
	BR (Amphibolite)	56 - 100		Packer Testing	60 - 80 80 - 100	Good Recharge Good Recharge	Competent rock at 56' Surface Casing set at 58' Air-hammer/Open-hole 58-100'	70.8 & 75.7 ft bgs: Small fractures ~81.5 ft bgs: Small fractures w/ possible staining ~91 ft bgs: Turbidity increase, poor visibility
BR-02	BR (Amphibolite/Gneiss)	36 - 100	Air-Rotary	Packer Testing	39 - 59 60 - 80 80 - 100	Little to No Recharge (not sampled) Good Recharge Low Recharge	Competent rock at 36' Surface casing set at 39' Air-hammer/Open-hole 39-100'	~42-45 ft bgs: High angle fracture 51.6 ft bgs: Low angle, healed fracture 80 ft bgs: Turbidity increase, poor visibility 91.5 ft bgs: Low angle, tight fracture
BR-03	BR (Amphibolite + Gneissic banding)	32 - 100	Air-Rotary	Packer Testing	36 - 60 60 - 80 80 - 100	Very-Low Recharge Low Recharge Good Recharge	Competent rock at 32' Surface casing set at 35' Air-hammer/Open-hole 35-100'	47-49 & 53-55 ft bgs: High-angle features; do not appear to be open fracture(s) 60-62 ft bgs: High-angle feature, potential fracture set. 77.44 ft bgs: Near-horizontal fracturing 80-83 & 90+ ft bgs: Fracturing

Notes:

Residuum - unconsolidated material including fill/deposition/regolith/saprolite. Material overlying partially-weathered/competent bedrock

PWR - Partially Weathered Rock

BR - Bedrock

sfs - Standard flow system

Waterra Foot Valve – check-valve/tubing inserted at desired pumping depth. The water was purged via manual-oscillation (pulling up and down).

ft bgs - All depth intervals presented in feet (ft) below ground surface (bgs)

Table 3 - Concentration of Target VOCs for Groundwater Sampling Locations

NCD003237948 - General Electric (Conover)

Groundwater Investigation Report

				Volatile Organic Compounds					
				Analyte	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride
NCAC 2L 2013 Groundwater Standard (ug/L)					0.7	3	70	7	0.03
Location ID:	Sample Depth (ft bgs):	Date Collected:	Units						
Sealed-Screen and Temporary Well Investigation Locations									
HP-01A	11 - 15	02/03/21	ug/L	1.2	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
	16 - 20	02/03/21	ug/L	1.1	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
	21 - 25	02/03/21	ug/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
	27 - 37*	02/09/21	ug/L	186	91.3	7.50	2.00 U	2.00 U	2.00 U
HP-01	5 - 9	02/01/21	ug/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
	10 - 14	02/01/21	ug/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
	14 - 19	02/01/21	ug/L	21.6	64.9	22.6	1.00 U	1.00 U	1.00 U
	19 - 23.5	02/01/21	ug/L	36.6 [40.8]	99.7 [116]	29.2 [36.2]	1.00 U [1.00 U]	1.00 U [1.00 U]	1.00 U [1.00 U]
	21 - 31*	02/09/21	ug/L	276	378	58.3	4.00 U	4.00 U	4.00 U
HP-02	7 - 11	02/01/21	ug/L	4,140	1,040	25.0 U	25.0 U	25.0 U	25.0 U
	11 - 15	02/01/21	ug/L	16,700	3,840	100 U	100 U	100 U	100 U
	14 - 24*	02/09/21	ug/L	17,300	4,640	171	100 U	100 U	100 U
HP-03	8 - 12	02/02/21	ug/L	605	105	5.00 U	5.00 U	5.00 U	5.00 U
	13 - 17	02/02/21	ug/L	22,200	5,200	221	200 U	200 U	200 U
	18 - 22	02/02/21	ug/L	22,100	5,210	222	200 U	200 U	200 U
	17 - 27*	01/13/21	ug/L	12,800	2,150	100 U	100 U	100 U	100 U
HP-04	9 - 13	02/02/21	ug/L	586	79.7	5.00 U	5.00 U	5.00 U	5.00 U
	14 - 18	02/02/21	ug/L	2,210	383	20.0 U	20.0 U	20.0 U	20.0 U
	19 - 23	02/02/21	ug/L	15,100 M1	2,710	100 U	100 U	100 U	100 U
	18 - 23*	02/09/21	ug/L	10,200	1,780	100 U	100 U	100 U	100 U
HP-05	8 - 12	02/02/21	ug/L	50.8	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
	13 - 17	02/02/21	ug/L	554	45.6	5.00 U	5.00 U	5.00 U	5.00 U
	18 - 22	02/02/21	ug/L	9,680	1,330	50.0 U	50.0 U	50.0 U	50.0 U
	20 - 35*	01/13/21	ug/L	5,400	350	50.0 U	50.0 U	50.0 U	50.0 U
HP-06	6 - 10	01/06/21	ug/L	3.6	5.20	1.00 U	1.00 U	1.00 U	1.00 U
	10 - 14	01/06/21	ug/L	120	196	1.20	1.00 U	1.00 U	1.00 U
	14 - 18	01/06/21	ug/L	351	498	5.20	5.00 U	5.00 U	5.00 U
	15 - 30*	02/09/21	ug/L	1,600	280	12.5 U	12.5 U	12.5 U	12.5 U
HP-07	7 - 11	01/05/21	ug/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
	11 - 15	01/05/21	ug/L	11	306	2.50 U	2.50 U	2.50 U	2.50 U
	15 - 19	01/05/21	ug/L	154	913 M1	5.00 UM1	5.00 UM1	5.00 UM1	5.00 UM1
	19 - 23	01/05/21	ug/L	324	305	2.50 U	2.50 U	2.50 U	2.50 U
	22 - 37*	01/13/21	ug/L	514	256	5.00 U	5.00 U	5.00 U	5.00 U
HP-08	5 - 9	01/05/21	ug/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
	10 - 14	01/05/21	ug/L	6.8	83.2	1.00 U	1.00 U	1.00 U	1.00 U
	15 - 19	01/05/21	ug/L	18.1 [18.6]	404 [496]	4.00 U [3.80]	4.00 U [2.50 U]	4.00 U [2.50 U]	4.00 U [2.50 U]
	19 - 34*	02/09/21	ug/L	23.7	214	2.00 U	2.00 U	2.00 U	2.00 U

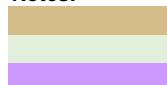
Table 3 - Concentration of Target VOCs for Groundwater Sampling Locations

NCD003237948 - General Electric (Conover)

Groundwater Investigation Report

Sealed-Screen and Temporary Well Investigation Locations cont.							
HP-09	4 - 8	01/05/21	ug/L	1.00 U	1.00 U	1.00 U	1.00 U
	10 - 14	01/05/21	ug/L	3.5	22.6	1.00 U	1.00 U
	14 - 17	01/05/21	ug/L	3.5	17.3	1.00 U	1.00 U
	18 - 28*	02/09/21	ug/L	14	166	2.40	1.00 U
HP-10	6 - 10	01/04/21	ug/L	1.00 U	1.00 U	1.00 U	1.00 U
	10 - 14	01/04/21	ug/L	1.00 U	1.00 U	1.00 U	1.00 U
	16 - 20	01/04/21	ug/L	1.00 U	1.00 U	1.00 U	1.00 U
	20 - 25	01/04/21	ug/L	1.1	2.80	1.00 U	1.00 U
	25 - 30	01/04/21	ug/L	1.5	6.90	1.00 U	1.00 U
	30 - 35	01/04/21	ug/L	3.3	5.30	1.00 U	1.00 U
	35 - 39	01/04/21	ug/L	2.1	3.20	1.00 U	1.00 U
	39 - 54*	01/13/21	ug/L	7.3	1.70	1.00 U	1.00 U
Bedrock Investigation (Packer Testing) Locations							
BR-1	60 - 80	03/18/21	ug/L	97.2	364	2.50	2.50 U
	80 - 100	03/18/21	ug/L	197	535	4.00 U	4.00 U
BR-2	39 - 59	--	ug/L	NA	NA	NA	NA
	60 - 80	03/17/21	ug/L	1,220	110	10.0 U	10.0 U
	80 - 100	03/17/21	ug/L	2,300	203	25.0 U	25.0 U
BR-3	36 - 60	03/16/21	ug/L	1,220	376	28.1	10.0 U
	60 - 84	03/16/21	ug/L	481	148	15.0	4.00 U
	80 - 100	03/17/21	ug/L	3,040 [3,070]	569 [548]	34.8 [32.9]	20.0 U [20.0 U]

Notes:



residuum

partially weathered rock

bedrock

Bolded values indicate concentrations greater than the NCAC 2L 2013 Groundwater Standard

Values in brackets are the result of a duplicate sample analysis

U = The compound was analyzed for, but not detected. The associated value is the compound quantitation limit.

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

µg/L = micrograms per liter

NA - Not Analyzed - Packer testing interval for BR-2 from 39-59 ft bgs had little to no recharge; a sample was not collected

* - 1 inch well installed and screen interval reflects the sample depth range

Table 4 - Concentration of Target VOCs in Surface Water Samples

NCD003237948 - GE Hickory Facility

Conover, North Carolina



Stream Sample Location	Contituent	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl chloride	
	CAS Number	75-35-4	156-59-2	127-18-4	79-01-6	75-01-4	
	NC 2B Standards Freshwater, Class WS (I - V)	--	--	3.3	30	2.4	
	Location ID:	Date Collected:					
Upstream Western Creek	STREAM-E	1/6/2021	1.00 U	1.00 U	11.3	5.7	1.00 U
	STREAM-D	1/6/2021	1.00 U	1.00	56.9	20.3	1.00 U
	STREAM-C-4	1/7/2021	1.00 U	1.70	133	35.5	1.00 U
	STREAM-C-2	1/7/2021	1.00 U	1.90	163	40.2	1.00 U
	STREAM-C	1/7/2021	2.00 U	2.00 U	195	40.3	2.00 U
	STREAM-B-3	1/7/2021	1.00 U	1.80	200	43.5	1.00 U
	STREAM-B-2	1/7/2021	1.00 U	1.90	188	44.7	1.00 U
	STREAM-B-1	1/7/2021	1.00 U	1.80	174	41.8	1.00 U
	STREAM-B	1/7/2021	1.00 U	1.80	176	41.7	1.00 U
	STREAM-A	1/7/2021	1.00 U	1.60	133	31.7	1.00 U

Interval of
R-1 to R-23**Notes:**

Bold/shaded values are above the NC 2B Standard, consumption of fish (and shellfish).

There are no applicable NC 2B Surface Water Quality standards for Class B or Class C waters for the analytes presented.

µg/L = micrograms per liter

- - = No standard available

< 1.0 = Indicates the compound was analyzed for, but not detected above associated reporting limit.

Table 5 - Groundwater Analytical Results for Recovery Wells R-1 through R-23

NCD003237948 - General Electric (Conover)

Groundwater Investigation Report



			Volatile Organic Compounds				
Analyte			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl chloride
NCAC 2L 2013 Groundwater Standard			0.7	3	70	7	0.03
Location ID:	Date Collected:	Units					
R-1	02/10/21	ug/L	14.4	1.00 U	1.00 U	1.00 U	1.00 U
R-2	02/10/21	ug/L	16.6	1.00 U	1.00 U	1.00 U	1.00 U
R-3	02/10/21	ug/L	44.5	6.5	2.10	1.00 U	1.00 U
R-4	02/10/21	ug/L	9.3	40.9	8.80	1.00 U	1.00 U
R-5	02/10/21	ug/L	38.5	90.7	30.3	1.00 U	1.00 U
R-6	02/10/21	ug/L	52.8	106	43.0	1.00 U	1.00 U
R-7	02/10/21	ug/L	215	372	151	4.00 U	4.00 U
R-8	02/10/21	ug/L	946	1060	574	10.00 U	10.00 U
R-9	02/10/21	ug/L	843	345	220	10.00 U	10.00 U
R-10	02/10/21	ug/L	14	7.6	1.40	1.00 U	1.00 U
R-11	02/10/21	ug/L	17.2	10.1	1.80	1.00 U	1.00 U
R-12	02/10/21	ug/L	4.9	2	1.00 U	1.00 U	1.00 U
R-13	02/10/21	ug/L	16.9	1.00 U	1.00 U	1.00 U	1.00 U
R-14	02/10/21	ug/L	5.5	1.00 U	1.00 U	1.00 U	1.00 U
R-15	02/10/21	ug/L	421	48.7	57.4	5.00 U	5.00 U
R-16	02/10/21	ug/L	788	9170	2,000	50.00 U	50.00 U
R-17	02/10/21	ug/L	64.5	936	838	10.00 U	10.00 U
R-18	02/10/21	ug/L	48.7	1630	103	1.00 U	1.00 U
R-19	02/10/21	ug/L	160	30.6	12.4	1.00 U	1.00 U
R-21	02/10/21	ug/L	10.4	128	1.60	1.00 U	1.00 U
R-22	02/10/21	ug/L	1,990	264	20.0 U	20.0 U	20.0 U
R-23	02/10/21	ug/L	3,830	1850	183	40.00 U	40.00 U

Notes:

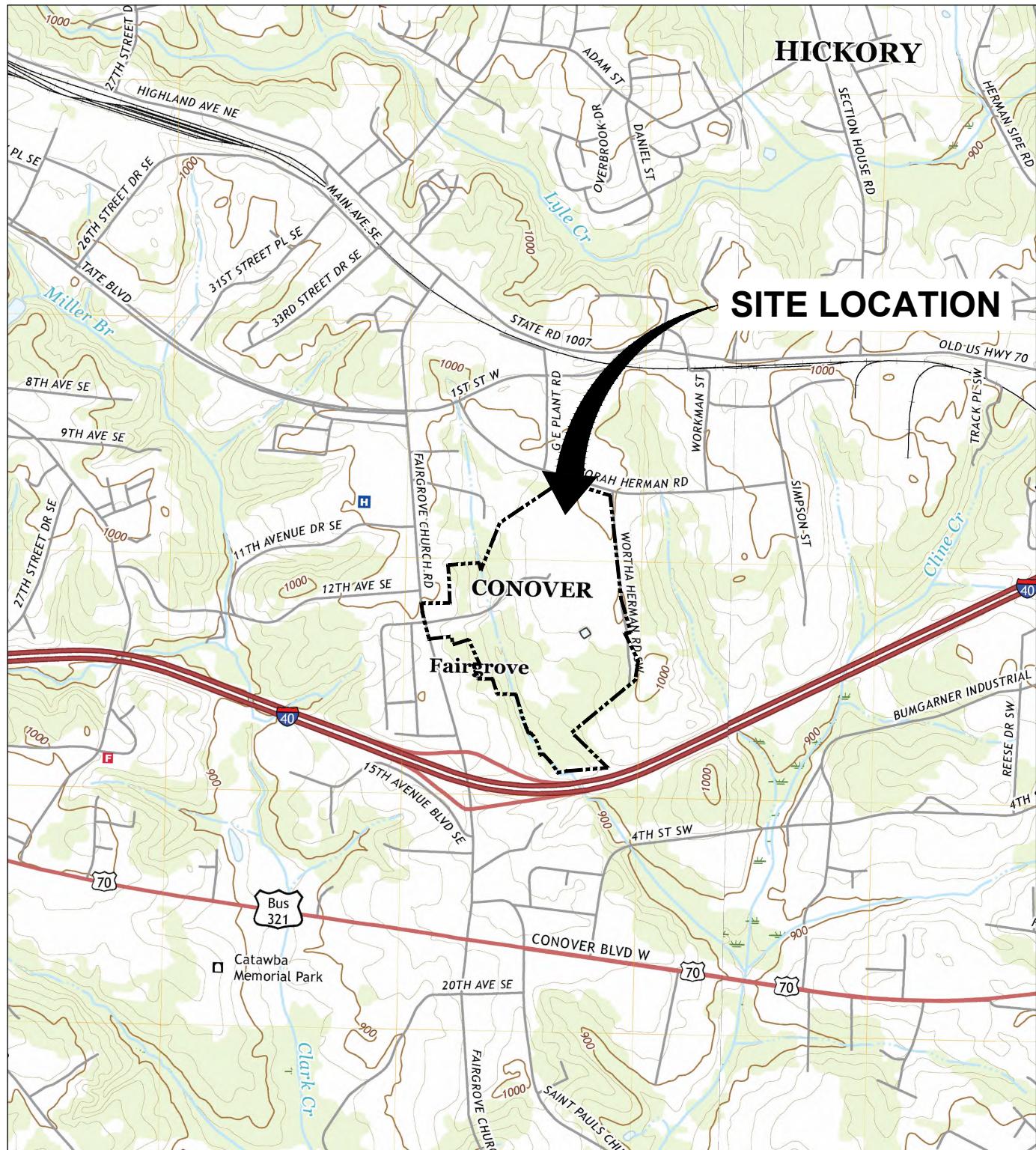
Bolded values indicate concentrations greater than the NCAC 2L 2013 Groundwater Standard

U = The compound was analyzed for, but not detected. The associated value is the compound quantitation limit.

µg/L = micrograms per liter

FIGURES





0 2,000' 4,000'

Approximate Scale: 1 in. = 2,000 ft.

PROJECT NAME: ---
 IMAGES: NC_Hickory_20190803.jpg
 NC_Newton_20190803.jpg

XREFS:

DB (Reqd) DIV/GROUP (Reqd) LD (Opt) PIC (Opt) PM (Read) TM (Opt) Lyr (Opt) Lyr (Opt) *OFF=REF*

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SAVED: 5/19/2021 1:24 PM

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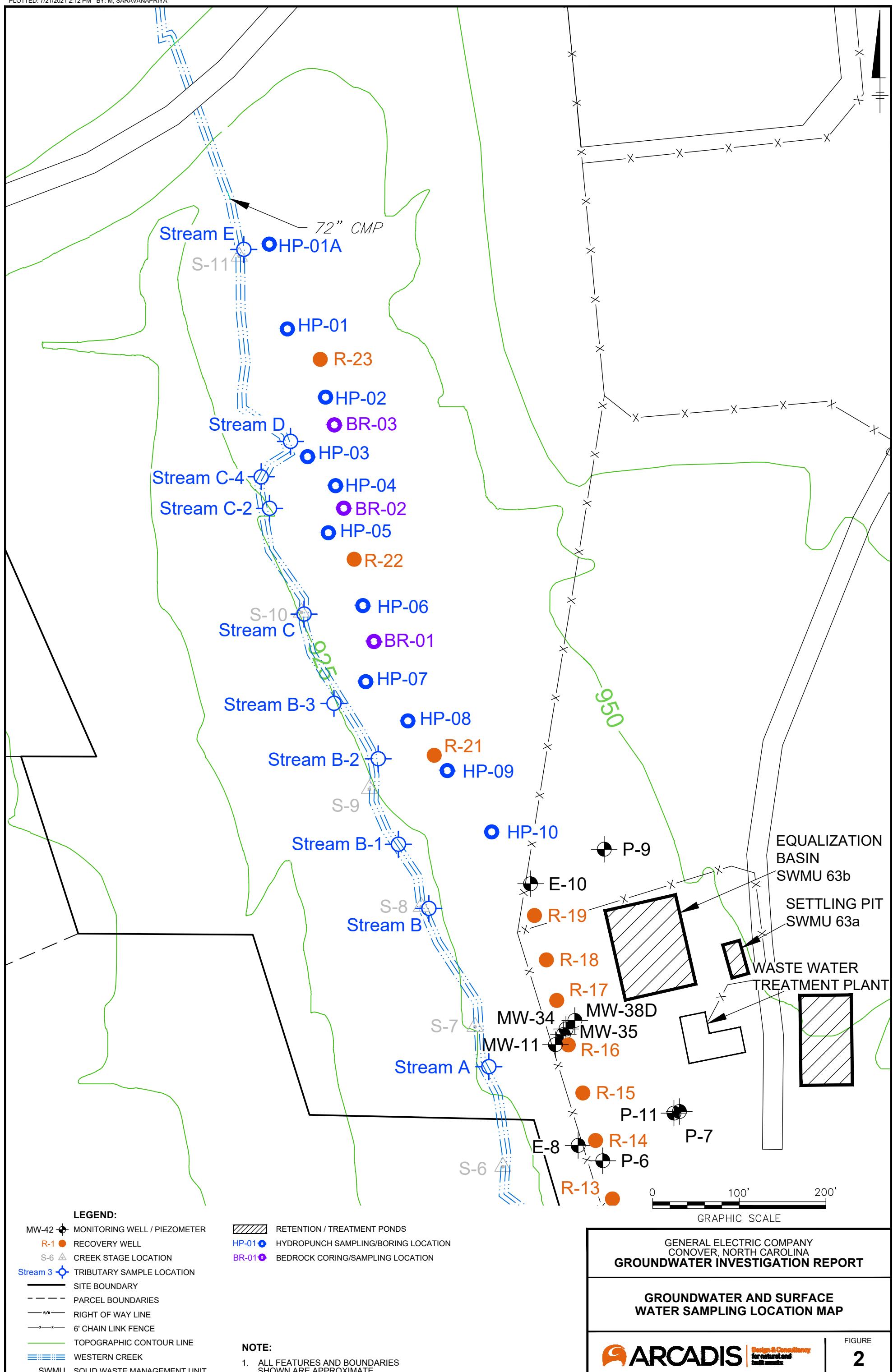
FIGURE

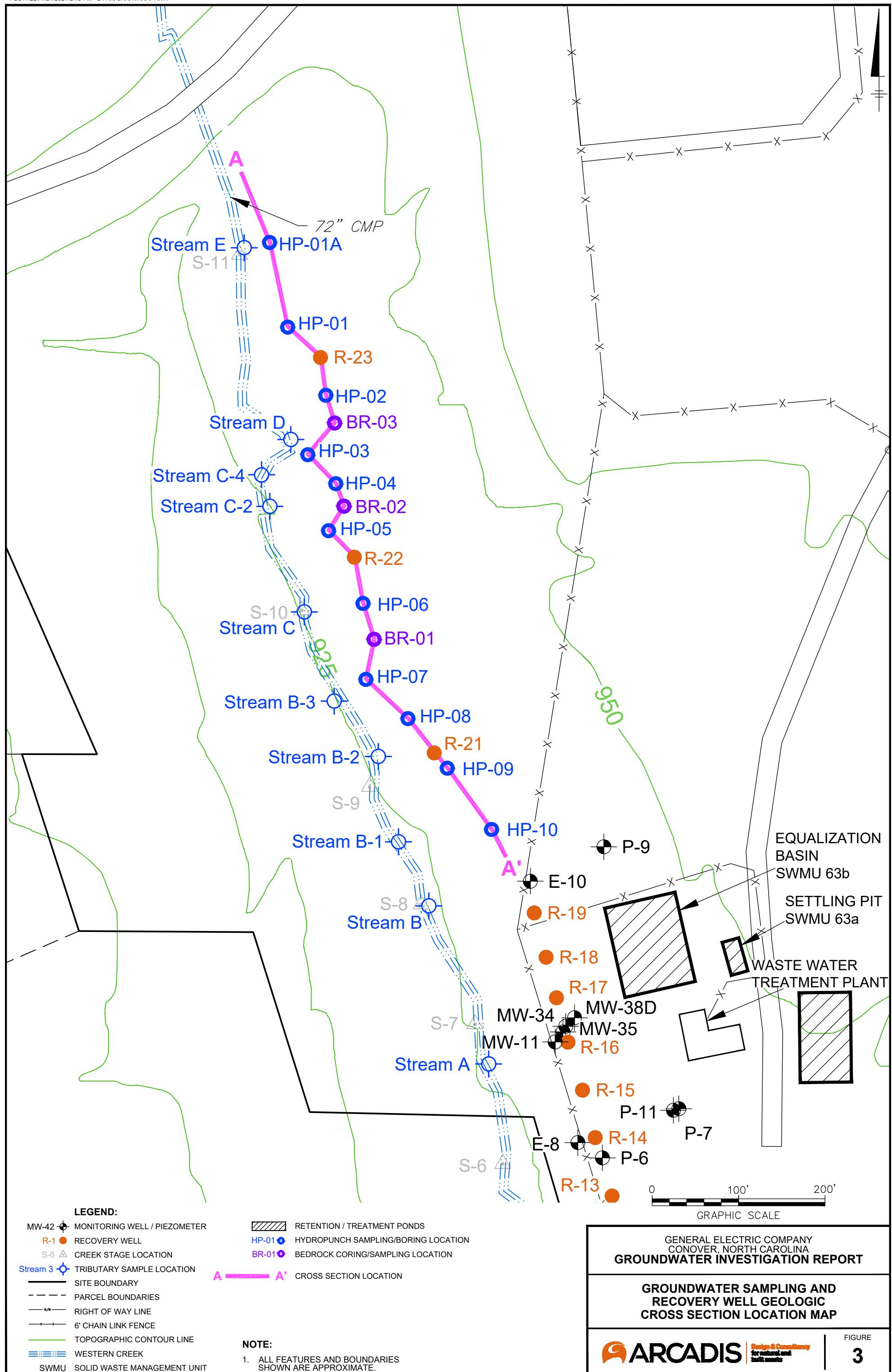
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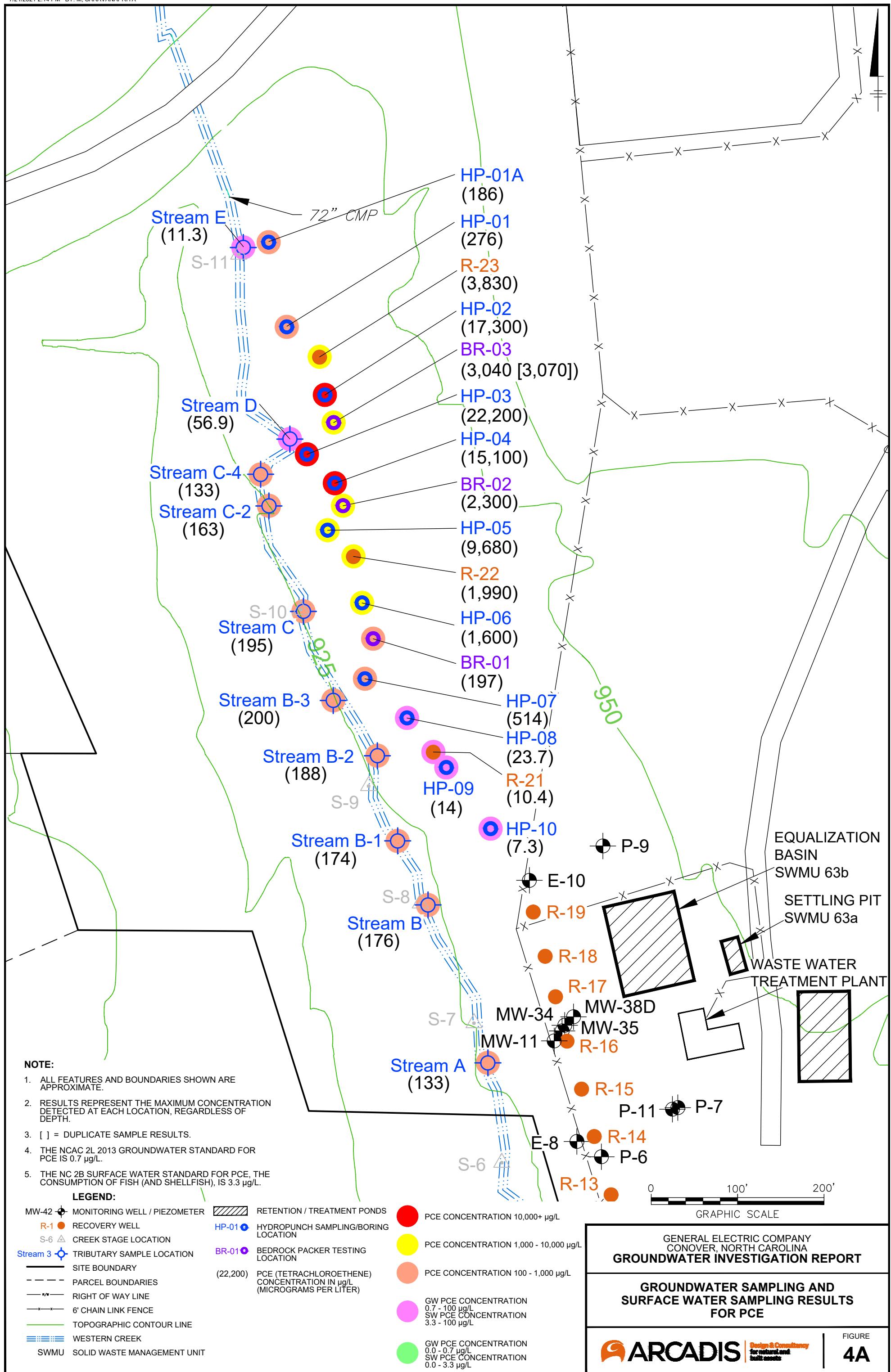
GENERAL ELECTRIC COMPANY CONOVER, NORTH CAROLINA GROUNDWATER INVESTIGATION REPORT

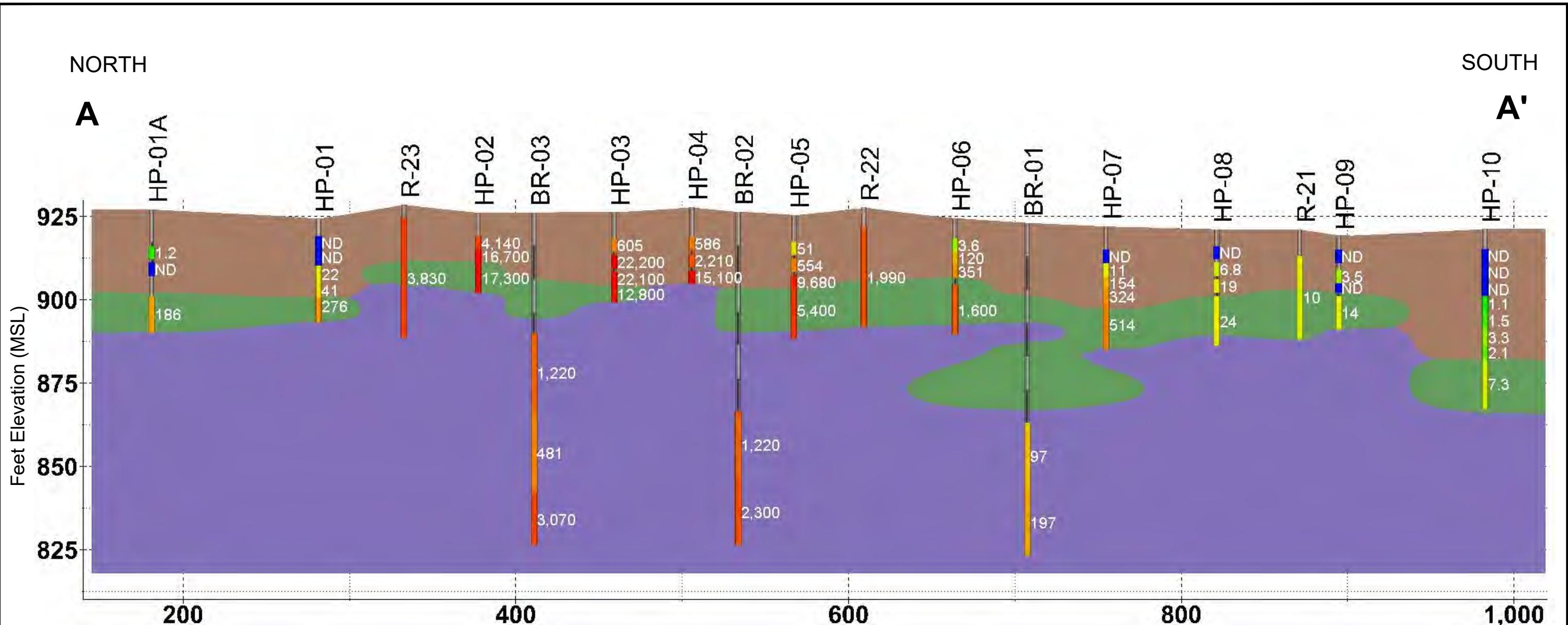
SITE LOCATION MAP

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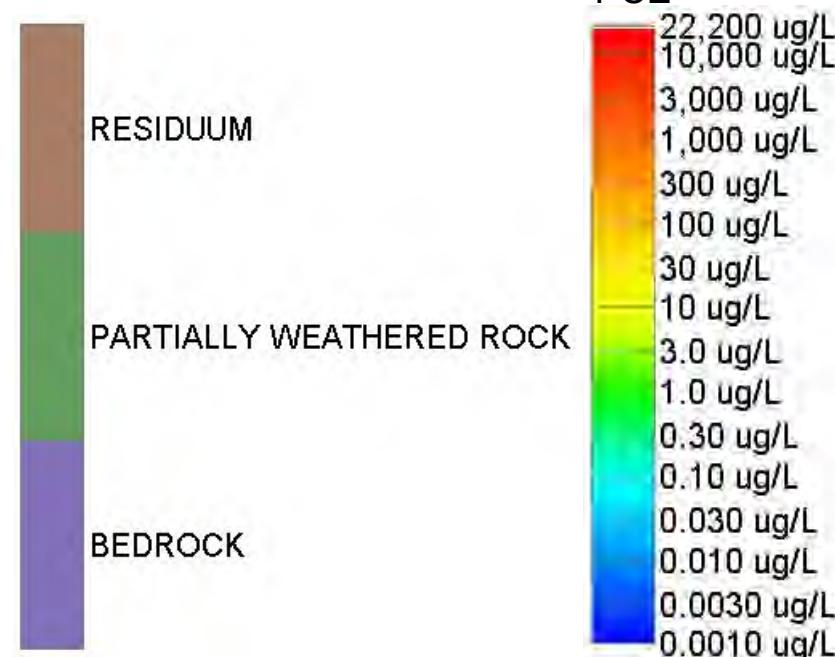








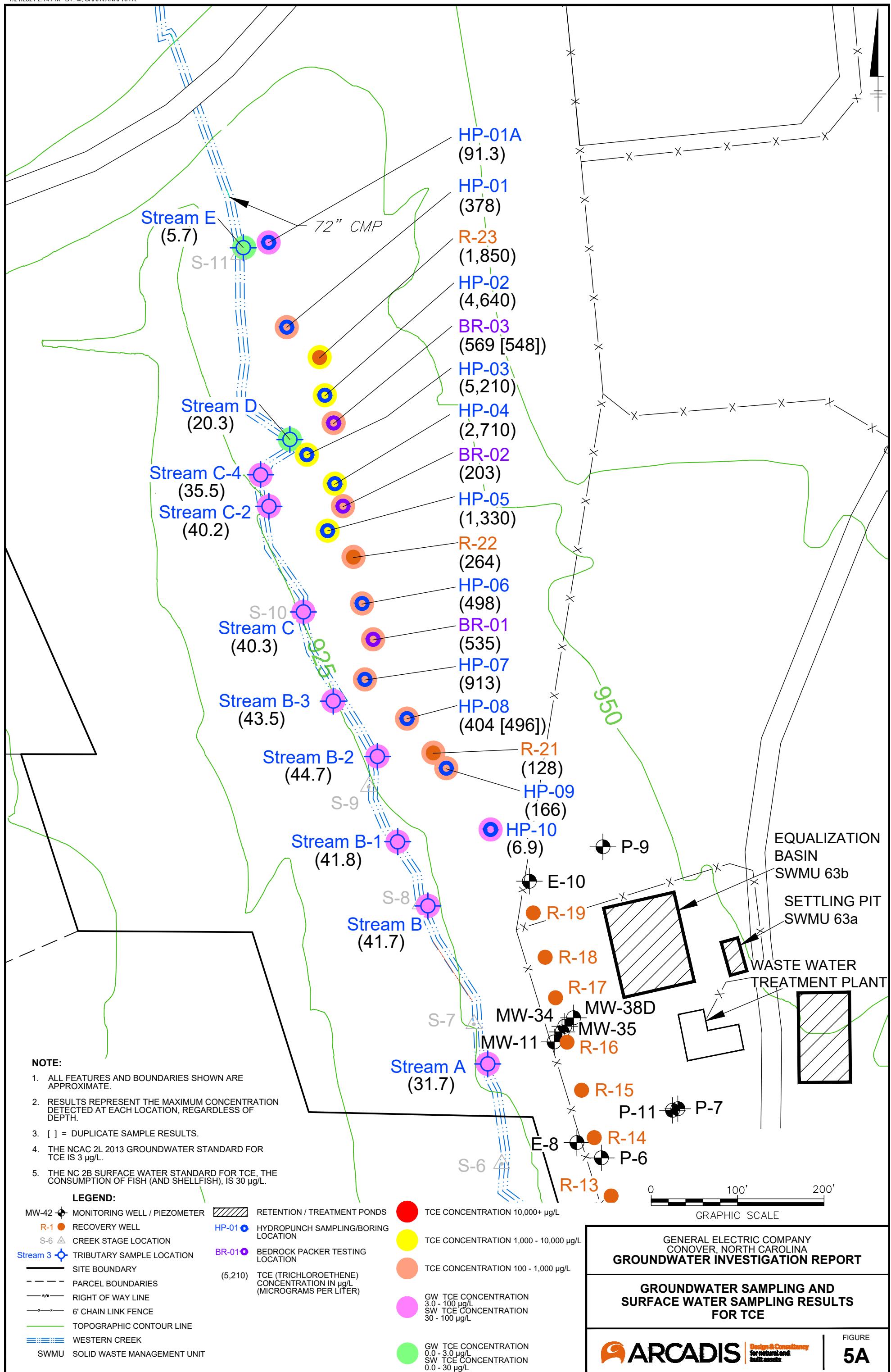
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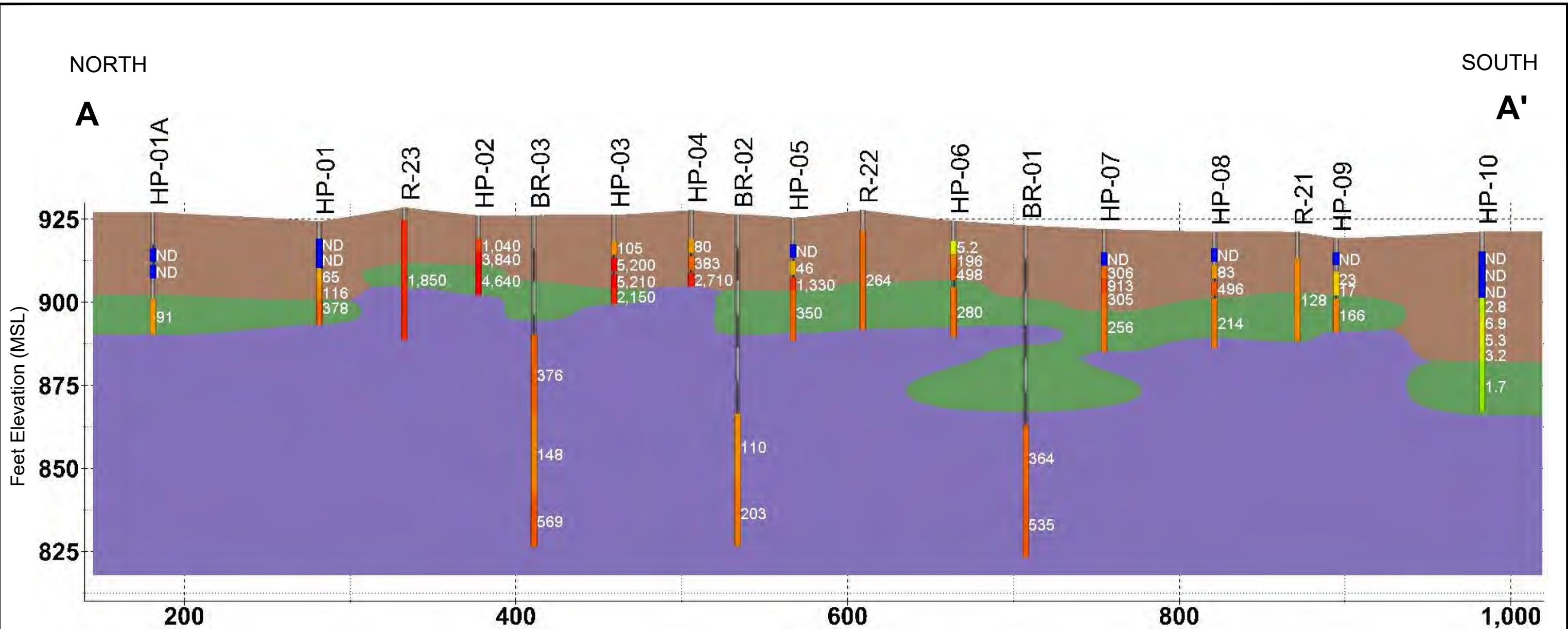


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NORTH CAROLINA

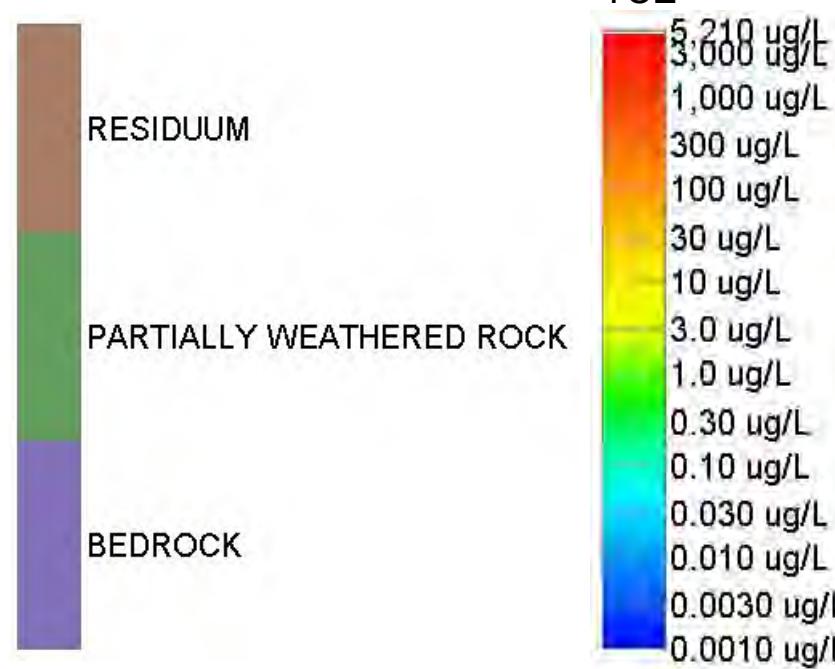
GROUNDWATER INVESTIGATION REPORT

GEOLOGIC CROSS SECTION A-A' GROUNDWATER RESULTS FOR PCE





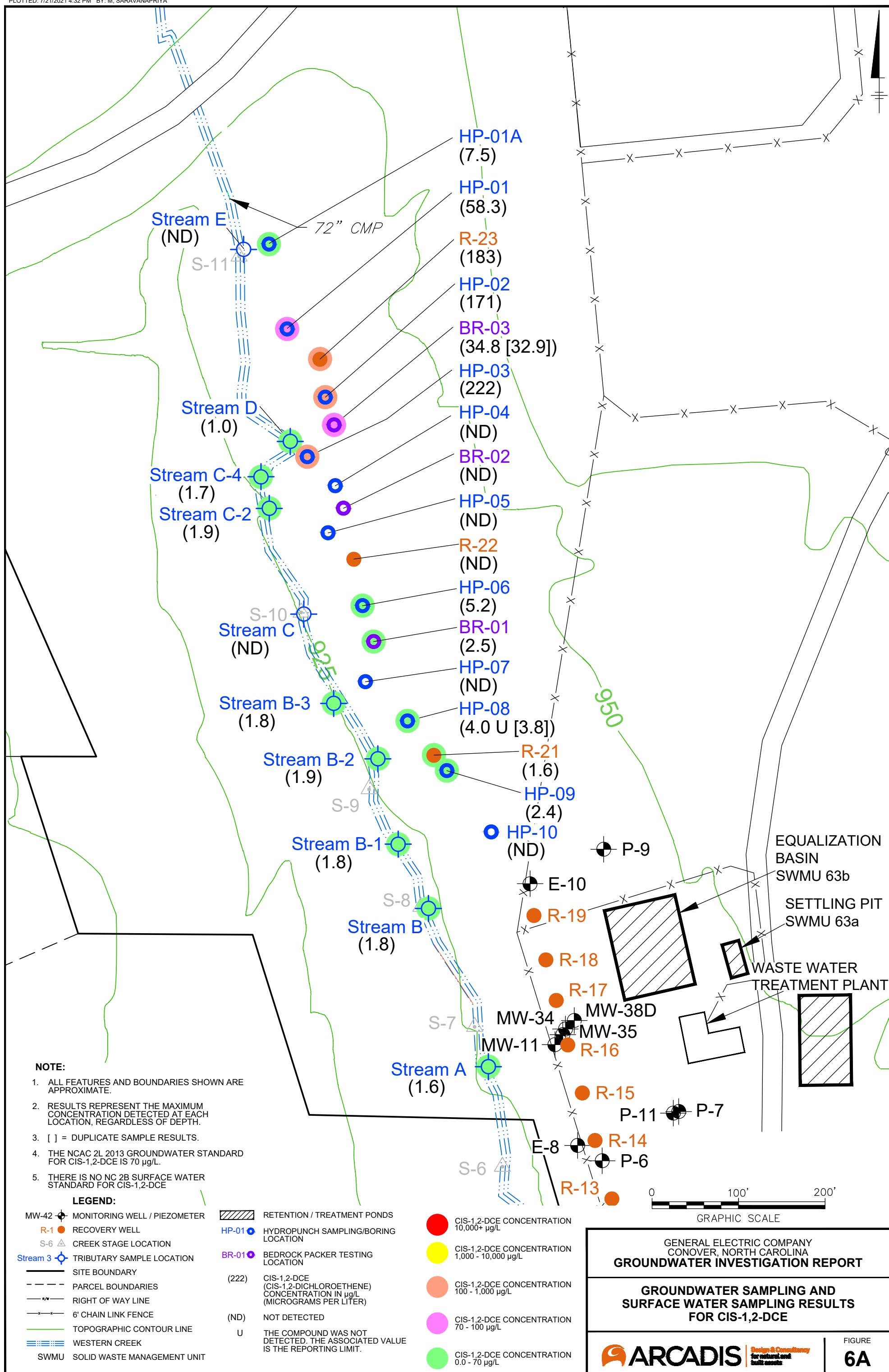
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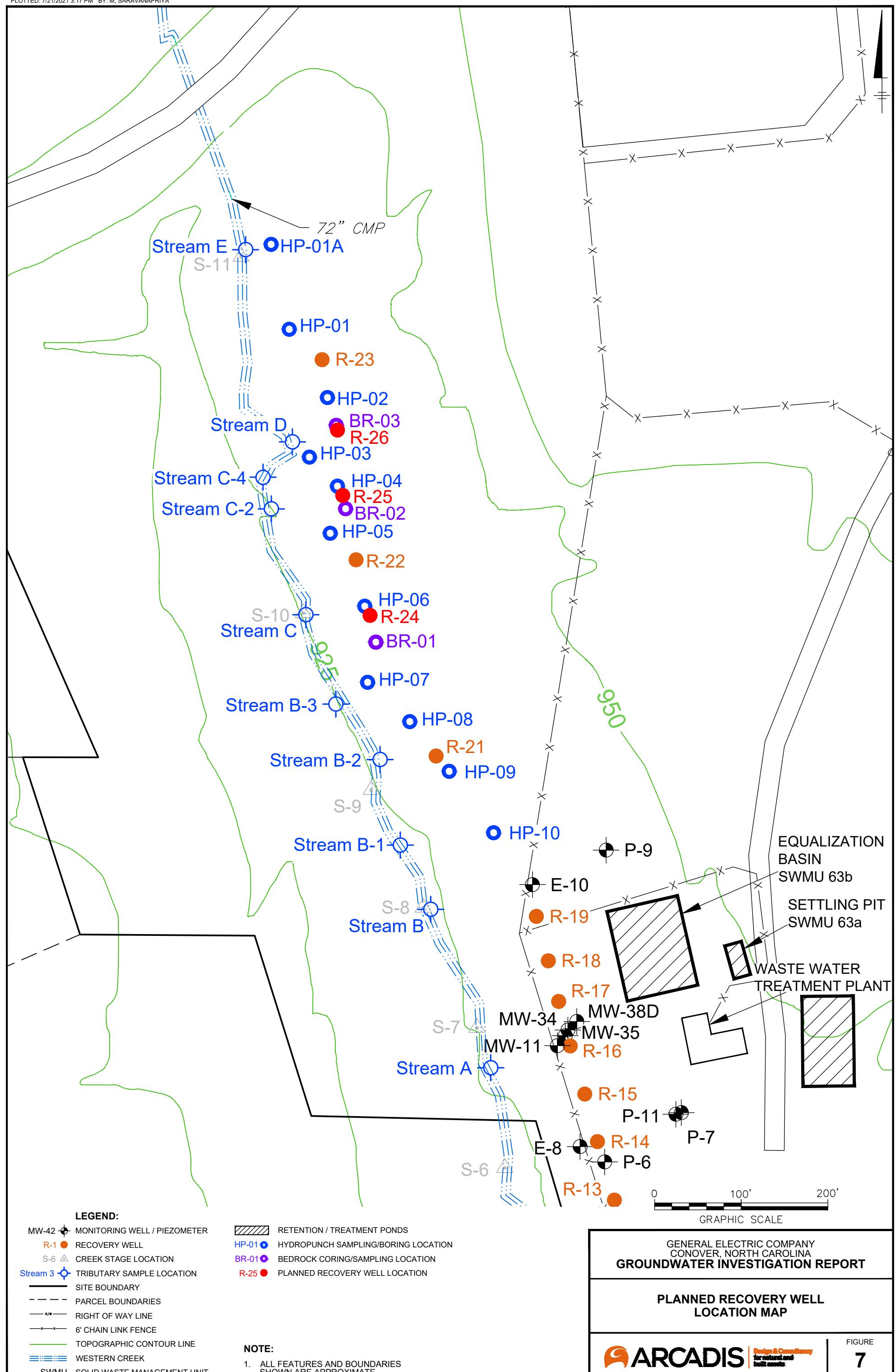


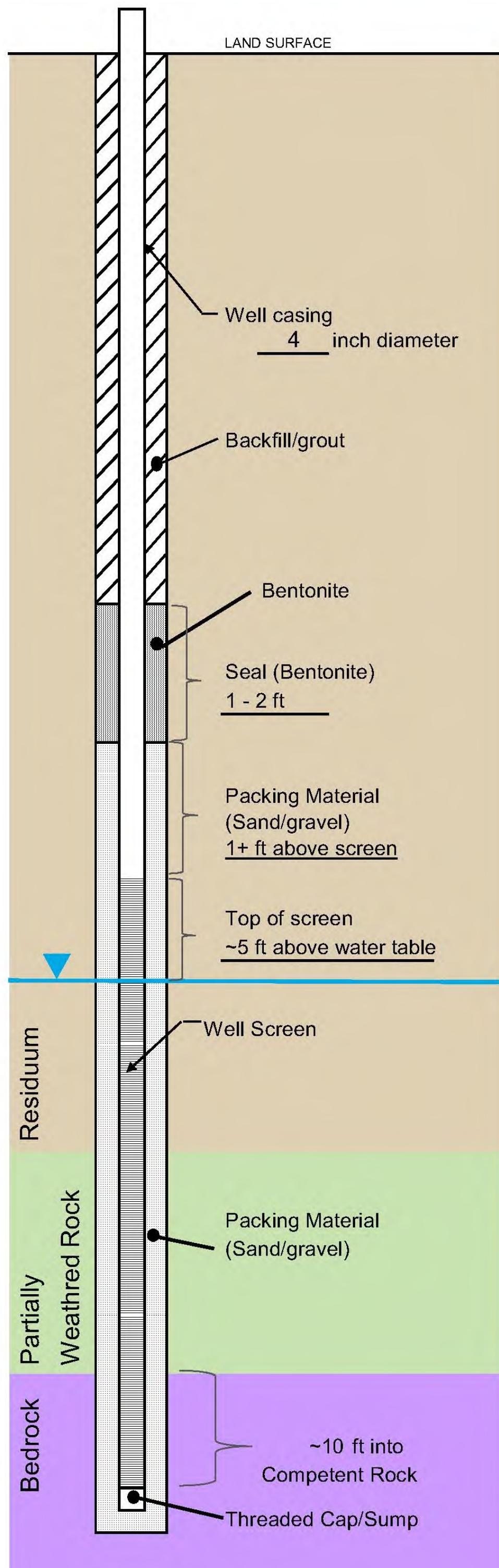
GENERAL ELECTRIC COMPANY CONOVER, NORTH
CAROLINA

GROUNDWATER INVESTIGATION REPORT

GEOLOGIC CROSS SECTION A-A' GROUNDWATER RESULTS FOR TCE







NOTES:

1. RECOVERY WELL CONSTRUCTION SHALL MEET THE STANDARDS OF CONSTRUCTION IN ACCORDANCE WITH NORTH CAROLINA RULES (15A NCAC 02C .0108)
2. IF WATER TABLE IS LESS THAN 5 FT BELOW GROUND SURFACE, PACKER MATERIAL AND SEAL SHALL COMPLY WITH PARAGRAPH (J) OF RULE 02C .0108; PACKER MATERIAL WILL EXTEND 0.5 FT ABOVE SCREEN AND A SIX-INCH OR GREATER THICK SEAL COMPRISED OF CHIP OR PELLET BENTONITE SHALL BE PLACED IN THE ANNULAR SPACE ABOVE AND IN DIRECT CONTACT WITH THE PACKING MATERIAL

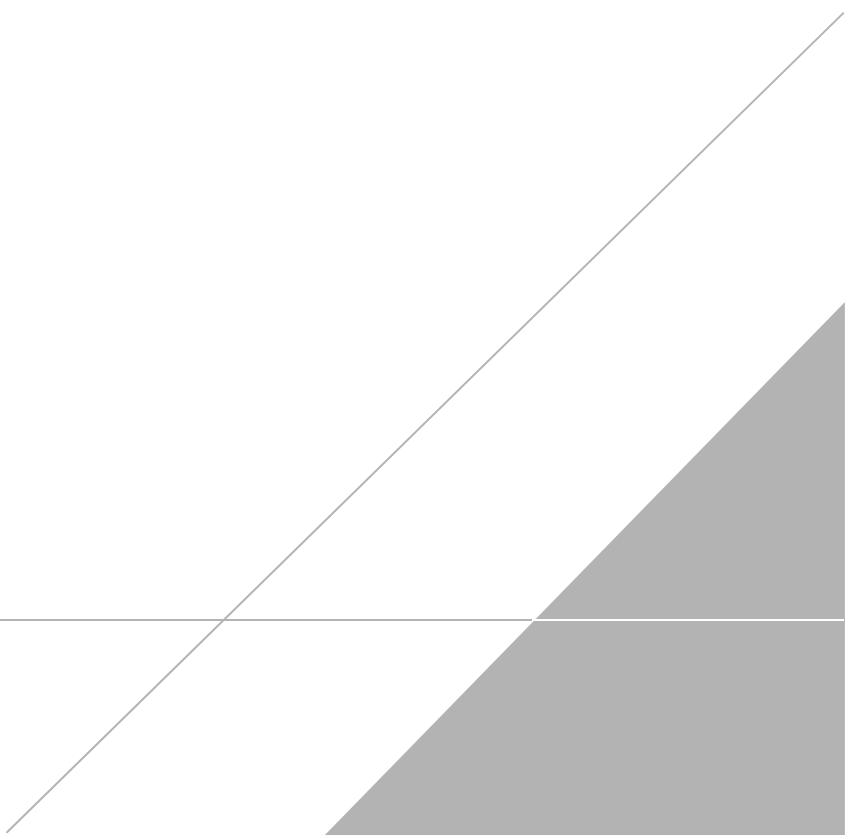
NOT TO SCALE

GENERAL ELECTRIC COMPANY
CONOVER, NORTH CAROLINA
GROUNDWATER INVESTIGATION REPORT

**PROPOSED RECOVERY WELL
CONSTRUCTION DIAGRAM**

Attachment 1

Soil Boring Logs



Sample/Core Log

Boring/Well	<u>HP-01</u>	Project/No.	<u>GE - HICKORY</u>	Page	<u>1</u> of <u>1</u>				
Site Location	<u>HICKORY, NC</u>			Drilling Started	<u>7/1/21</u>				
Total Depth Drilled	<u>31</u>	Feet	Hole Diameter	inches	Type of Sample/ Coring Device	<u>MACRO-CORE</u>			
Length and Diameter of Coring Device						Sampling Interval	<u>5</u> feet		
Land-Surface Elev.	<u>TBD</u>	feet	<input checked="" type="checkbox"/> Surveyed	<input type="checkbox"/> Estimated	Datum				
Drilling Fluid Used	<u>NONE</u>						Drilling Method	<u>DPT / NSR</u>	
Drilling Contractor	<u>GEOLOGIC EXPLORATION</u>							Driller	
Prepared By	<u>Matt Creel</u>								
Depth (ft. bgs.)	PID Reading (PPM)	Core Interval / % Recovery	Sample/Core Description						
1			HEMD AUGER FROM 0-4' BGS						
2	0.6	0-2'	0-2': CLAY w/ SOME SILT, LITTLE VF-F SAND, RED						
3		100%	BROWN TO DARK BROWN, MED. PLASTICITY, MOIST, SOFT						
4	0.0	-	2-4': SILT w/ SOME CLAY, LITTLE VF-F SAND, LIGHT BROWN,						
5		-	MUCROUS, LOW PLASTILITY, MOIST, SOFT						
6	0.0	-	5-10': SILT w/ SOME VF-F SAND, LITTLE CLAY, RED/BROWN,						
7		-	MUCROUS, MOIST, SOFT (COLOR CHANGES TO DARK						
8	0.0	100%	BROWN @ 9.5')						
9		-	10-18.5': SILTY SAND, SLOUCHY, WET						
10	0.0	-	18.5-20': SILT w/ SOME CLAY, SOME F-M SAND, WHITE						
11		-	BROWN / WHITE (SINTEROLITIC), MOIST, FIRME						
12	0.6	5-10'	20-22': WHITE / BLACK HIGHLY METAMORPHIC ROCK, F-M SANDS						
13		80%	FIRME (MACRO CORE LINES CRUSHED DURING DRILLING)						
14	0.0	-	22-22.5': SILTY, SOME F-M SANDS, HIGH SOUCHY, REFL SOIL						
15		-	22.5-23.5': SAND (SAME AS ABOVE)						
16	0.0	-	DPT REFUSAL @ 23.5' BGS						
17		-	AUGER REFUSAL @ 31' BGS						
18		-	SET TEMPORARILY 1" WELL SCREENED FROM 21-31' BGS.						
19		-							
20		-							
21	0.0	-							
22		-							
23	0.0	15-20'							
24		40%							
25	0.0	-							
26		-							
27	0.0	-							
28		-							
29	0.0	-							
30		-							
31		-							
32		-							
33		-							
34		-							
35		-							
36		-							
37		-							
38		-							
39		-							
40		-							

- Soil sample collected

Sample/Core Log

Boring/Well	HP-DIA	Project/No.	GE HICKORY 1 30053008	Page	1	of
Site Location	GE - HICKORY, NC	Drilling Started	7/3/21	Drilling Completed	7/3/21	
Total Depth Drilled	37	Feet	Hole Diameter	inches	Type of Sample/ Coring Device	MACRO CORE
Length and Diameter of Coring Device					Sampling Interval	feet
Land-Surface Elev.	TBD	feet	<input checked="" type="checkbox"/> Surveyed	<input type="checkbox"/> Estimated	Datum	
Drilling Fluid Used	NONE				Drilling Method	DPT / HSBS
Drilling Contractor	GEOLOGIC EXPLORATION				Driller	
Prepared By	Matt Creel					
Depth (ft. bgs.)	PID Reading (PPM)	Core Interval / % Recovery	Sample/Core Description			
1			HAND AUGER FROM 0-5'			
2	0.6		0-2' : CLAY w/ SOME SILT AND SOME VF SAND, DARK IS BROWN			
3			3-5' : SANDY CLAY w/ SOME SILT, LIGHT BROWN, MOIST			
4	0.0		INCREASE SAND CONTENT AND GRAIN SIZE w/ DEPTH			
5			COLOR CHANGES TO GREY			
6	0.0		5-10' : SILTY CLAY, LITTLE VF SAND, BROWN, MOIST,			
7			MOIST, SOFT			
8	0.0		5-8' : SAME AS ABOVE (SAR)			
9			8-10' : SILT w/ SOME F-M SAND, LITTLE CLAY, BROWN,			
10	0.0		SOME BLOCK AND WHITE, SAPROXYLIC			
11			10-15' : SAR			
12	0.0		15-20' : F-M SAND w/ SOME SILT, WHITE w/ SOME BROWN			
13			AND BLACK, THAT SAPROXYLIC / HIGHLY WEATHERED ROCK			
14	0.0		20-23' : SLUFF (WET)			
15			23-25' : SAME AS 18-20'. VERY TIGHT			
16	0.0		25-28' : SAR			
17			DPT REFUSAL @ 26' BGS			
18	0.0		AUGER REFUSAL @ 37' BGS			
19			1" WELL INSTALLED SCREENED FROM 27-37' BGS			
20	0.0					
21						
22	0.0					
23						
24	0.0					
25						
26	0.0					
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

- Soil sample collected

Sample/Core Log

Boring/Well HP-02 Project/No. GE Page 1 of 1
 Site Location HICKORY, NC Drilling Started 2/1/21 Drilling Completed 2/12/21
 Total Depth Drilled 24 Feet Hole Diameter _____ inches Type of Sample/
 Length and Diameter of Coring Device Coring Device MACRO CORER
 Land-Surface Elev. TBD feet Surveyed Estimated Sampling Interval 5 feet
 Drilling Fluid Used None Drilling Method DPT / AUGERS
 Drilling Contractor GEOLOGIC EXPLORATION Driller _____
 Prepared By Matt Creel

Depth (ft. bgs.)	PID Reading (PPM)	Core Interval / % Recovery	Sample/Core Description
1			
2	1.2	0-2 100%	HAND AUGER FROM 0-5' BGS
3			0-2': CLAY w/ SOME SILT, LITTLE FINE SANDS, DARK BROWN
4	0.1		
5			
6	0.0	2-5' 100%	MICACEOUS, MED. PLASTILITY, MOIST, SOFT
7	0.0		
8	0.0		2-5": SILT w/ SOME FINE SAND, LITTLE CLAY, DARK
9	1.2		BROWN, MICACEOUS, LOW PLASTILITY, MOIST, SOFT
10	6.5	5-10' 80%	
11	0.5		5-9": SILT, LITTLE CLAY, BROWN, MICACEOUS, LOW PLASTILITY,
12	0.4		MOIST, SOFT
13	0.3		
14	24.6		9-10": SILT w/ LITTLE CLAY, LITTLE FINE SAND, DARK AND
15	26.2		LIGHT BROWN, MICACEOUS (SAPROLITE),
16			
17			10-15': SILT, BROWN, MICACEOUS, SCOURING
18			
19			12-15": SILT SILT w/ SOME FINE SAND, LITTLE CLAY, BROWN, VERY
20			WHITE, SOME BLACK, SAPROLITE, FIRME WITH SOME HIGHLY WATER-SEPARATED ROCK IN LAST 8" OF RUN
21			
22			DPT REFUGAL @ 15' BGS
23			
24			AUGER REFUSAL @ 24' BGS
25			
26			TEMPORARY 1" WELL INSTALLED SCREENED
27			
28			FROM 14-24' BGS
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

- Soil sample collected

SOIL BORING LOG

ARCADIS

HP-03

Boring No.: HP-03
Sheet : 1 ofProject Name: GE HICKORY NC
Project Number: 30053008
Project Location: HICKORY NCDate Started: 1-7-21
Date Completed: 1-7-21Logger: J. NELSON
Editor:

Weather Conditions: Clear 28°F

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	USCS Class.	Description	Construction Details
0-2			24"	0		Brownish-orange SILTY sandy clay. Slightly moist. Trace mica. Trace organics	HAND Auger
2-4			24"	0		Brown Silty Sandy Clay. Slightly Plastic. Micaceous.	HAND Auger
5-10			36"	0		5-7' TANISH-BROWN SANDY Clay. Some SILTS. 7-8' Sand DARK GRAY. 8-10' TRIATED WEATHERED ROCK, Sand. Micaceous	MARL core.
10-15			29"	0		Black, white, Brown Striated sand, weathered rock. Becoming wet	"
15-17			31"			SAME AS ABOVE. Top 12" OF Interval MUDDY, wet, shaff.	"
17-20			55"			Top 27" OF Interval is MUDDY Shaff. REST OF Interval is DARK-GRAY, Black, white WEATHERED ROCK & Sand.	
20-22			29"			20-21 wet MUDDY Shaff. 21-22 white WEATHERED ROCK, Sand. Trace Quartz.	
						DPT Refusal @ 22 FT. BGS.	
						Auger Refusal @ 27 FT. Install 15' SCREEN 17-27 FT. BGS	

Drilling Co.: Geologic
 Driller: _____
 Drilling Method: Push / ROTARY
 Drilling Fluid: NA
 Remarks: _____

Sampling Method: NA
 Sampling Interval: _____
 Water Level Start: _____
 Water Level Finish: _____
 Converted to Well: Yes No
 Surface Elev: _____
 North Coor: _____
 East Coor: _____

Sample/Core Log

Boring/Well	HP-04	Project/No.	GE HICKORY / 30053008	Page	1	of
Site Location	HICKORY, NC	Drilling Started	2/2/11	Drilling Completed	2/2/11	
Total Depth Drilled	23	Feet	Hole Diameter	inches	Type of Sample/Coring Device	MICRO CORER
Length and Diameter of Coring Device					Sampling Interval	feet
Land-Surface Elev.	TBD	feet	<input checked="" type="checkbox"/> Surveyed	<input type="checkbox"/> Estimated	Datum	
Drilling Fluid Used	None				Drilling Method	DPT / USA
Drilling Contractor	GEOLOGIC EXPLORATION				Driller	
Prepared By	Matt Creel					
Depth (ft. bgs.)	PID Reading (PPM)	Core Interval / % Recovery	Sample/Core Description			
1			HAND AUGER FROM 0-5' BGS			
2	0.0					
3						
4	0.0	0-5'	CLAY WI SOME F-M SANDS, LITTLE SILT, RED/BROWN.			
5		100%				
6	0.0		MED PLASTICITY MOIST, SOFT			
7						
8	0.0	5-10'	2-5': CLAY WI LITTLE F-M SANDS, LITTLE SILT, RED/BROWN.			
9		85%				
10	0.0		MED PLASTICITY, MOIST, SOFT			
11						
12	0.0	5-6.5'	5-6.5': CLAY WI SOME F-M SAND, ORANGISH BROWN, MED			
13		10-15'				
14	0.0	10-15'	PLASTICITY, MOIST			
15		100%	WI SOME CLAY			
16		10-15'	6.5-9': CLAY VE-M SANDS, TAN, MOIST, TIGHT			
17						
18			9-10': SILTY SAND, LITTLE CLAY, SAPROLITE, SOME QUARTZ			
19						
20			FRAGMENTS @ 9.5'			
21	19.3					
22		10-15'	10-15': SILT WI LITTLE CLAY, LITTLE VE-F SANDS, BROWN,			
23	10.2	100%	SOME WHITE, LITTLE OLIVE, IRREGULAR, SAPROLITE			
24		15-20'				
25		0%				
26		15-20'	SAMPLE STUCK IN COKE BARREL			
27						
28		20-22'	20-22': SILT WI SOME F-L SANDS, GREY, BROWN, SOME			
29		100%	WHITE (HIGHLY WEATHERED ROCK)			
30						
31						
32		22-23'	22-23': SAME AS ABOVE			
33		100%				
34						
35						
36			AUGER DPT REFUSAL @ 23' BGS			
37			AUGER REFUSAL @ 23' BGS			
38						
39						
40			1" WELL INSTALLED SCREENED 18-23' BGS			

- Soil sample collected

SOIL BORING LOG

ARCADIS

HP-05

Boring No.: HP-05

Sheet: 1 of

Project Name: GE HICKORY Hydrex punch
 Project Number: 30053008
 Project Location: Hickory NC.

Date Started: 1-6-21
 Date Completed: 1-6-21

Logger: J. NELSON
 Editor:

Weather Conditions: Sunny w/ 10's

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	USCS Class.	Description	Construction Details
0-2			24"	2.0		Brownish-orange SILTY CLAY, Micaeous. Trace organics. Some sand. Slightly plastic. CL	Hand Auger
2-4			24"	Ø		SAME AS ABOVE BUT Brown.	Hand Auger
5-10			32"	Ø		Light Brown SILTY SAND, WET TO Brownish-RED SILTY SANDY CLAY, MICAEOUS.	MACRO CORE
10-15			43"	Ø		0"-19" OF Interval WET SLUFF 19"-43" Poorly SORTED, MICA, STRIATED SILTY SAND, UNATHERED ROCK Black, white, Gray, Brownish Red.	" "
15.20			16"	Ø		SAME AS 19"-43" IN 10-15 Interval.	" "
17-22			33"			TOP TO "SILTY CLAY, WET, MICA. BELOW 20' TIGHT PACKED OL SAND. STRICKED Black, white, some Brown SM refusal Ø 22 FT. BG-S. MOVE TO AUGERS.	
						Auger refusal @ 35 FT. SCREEN from 20-35 FT, 1" well.	
						WELL SET @ 35 FT. 15 FT. SCREEN.	

Drilling Co.: GEOLOGIC

Driller:

Drilling Method: PUSH / ROTARY

Drilling Fluid: ANA

Remarks:

Sampling Method: M4

Sampling Interval:

Water Level Start:

Water Level Finish:

Converted to Well:

 Yes No

Surface Elev:

North Coor:

East Coor:

SOIL BORING LOG

HP-06

Boring No.: HP-06

Sheet : 1 of

Project Name: GE HICKORY NC Hydrosynch
Project Number: 30053008
Project Location: HICKORY NC

Date Started: 1-6-21

Logger: D. NELSON

Date Completed:

Editor:

Weather Conditions: Clear 30° F

Drilling Co.: GEORGE

Driller:

Drilling Method:

Drilling Method: Top Drive
Drilling Fluid: Water

Remarks:

REMARKS.

Sampling Method: W

Sampling Interval: 1/14

Water Level Start:

Water Level Start
Water Level Finish

Water Level Finish: Converted to Wall:

Converted to Well: Yes

Surface Elevation: _____
M.S.L. _____

North Coor: _____

East Coor:

— 1 —

SOIL BORING LOG

HP-07

Boring No.:

Sheet : 1 of 1

Project Name: GE Hickory Hydro punch
 Project Number: 30053008
 Project Location: Hickory NC

Date Started: 1-5-21

Date Completed:

Logger: J. NEISON

Editor:

Weather Conditions: Sunny 50's

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	USCS Class.	Description	Construction Details
0-2			24"	4.8		REDISH-BROWN SILTY Sandy Clay. Trace organics. Trace Small Gravel. MOIST. ML	HARD SUGER
2-4			24"	0		SAME AS ABOVE with Trace medium to small Quartz Gravel. ML	HARD SUGER
4-5			12"	0		QUARTZ Gravel. Trace of SAND Brownish-orange. Poorly sorted.	MACRO CORE
5-10			40"	0		VERY MICAEOUS DARK BROWN Sandy Clay. Very MOIST-WET Trace Quartz.	MACRO CORE
10-15			55"	0		Top 35" of Interval is STUFFY, wet SILTY Sands. 35"-55" of Interval is WEATHERED STONE, Black, Brown Tan and white STRIATION. WET.	" "
15-20						Core stuck in SLEEVE in Barrel.	" "
20-25			57"			20-21' STUFF, MUD. 21-22' SILTY CLAY, Brown, wet. CL. 22-25' STRIATED SANDS, well sorted. BLACK, white, Tan, GRAY VERY MICAEOUS. ML REused Q 25FT. BG5. Some material as HP-08 & HP-09	" "
						1-7-21 * Converted to well	
						Auger refusal @ 37 FT BG5. Screen 37-22 FT. 15' screen	

Drilling Co.: Grey

Driller:

Drilling Method: Push

Drilling Fluid: N/A

Remarks:

Sampling Method: N/A

Sampling Interval: N/A

Water Level Start:

Water Level Finish:

Converted to Well: Yes No

Surface Elev:

North Coor:

East Coor:

SOIL BORING LOG

HP-08

Boring No.:

Sheet: 1 of 1

Project Name: GE Hickory Hydro Ranch
 Project Number: 30053008
 Project Location: Hickory NC

Date Started: 1-5-21 Logger: J. NERSON
 Date Completed: 1-5-21 Editor:
 Weather Conditions: Clearing ↑ 40°

Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	USCS Class.	Description	Construction Details
0-2			JN 78" 24"	0		Brownish Orange SILTY CLAY, MICACEOUS. Slight Plasticity. <u>MH</u>	HAND Auger
2-4			JN X2 24"	0		Brownish Orange SILTY CLAY, MICACEOUS. TRACES OF FINE GRAY SANDS. <u>CL</u>	HAND Auger
4-9			^ 34" ↓	0		0-14" TIGHT PACKED CLAY Brownish Orange. DISTINCT Change from 14-34": STRIATED LAYER OF MOIST white, GRAY, DARK Brown, Brown SILTY SAND. Very MICACEOUS. Very well sorted, VERY FINE. MOIST. <u>SC</u>	MACRO CORE
9-14			54"			0-13" SAME AS ABOVE <u>SC</u> 13-15" white Sand. <u>SM</u> 15-VERY MICACEOUS, very MOIST TO WET Brown SILTY CLAY <u>MH</u>	" "
15-20						Sample STUCK in Core Barrel.	
24-							
						REFusal @ 20 FT BGS Same MATERIAL AS OBSERVED in HP-09.	

Drilling Co.: GEX
 Driller:
 Drilling Method: PUSH
 Drilling Fluid: MA
 Remarks:

Sampling Method: MA
 Sampling Interval: 1A
 Water Level Start:
 Water Level Finish:
 Converted to Well: Yes No
 Surface Elev:
 North Coor:
 East Coor:



SOIL BORING LOG

HP-09

Boring No.:

Sheet : 1 of 1

Drilling Co.: GEOlogic
Driller:
Drilling Method: Direct Push
Drilling Fluid: NA
Remarks:

Sampling Method: Crab
Sampling Interval: NA
Water Level Start:
Water Level Finish:
Converted to Well: Yes No
Surface Elev:
North Coor:
East Coor:

SOIL BORING LOG

Boring No.: HP-10
Sheet: 1 of 2

Project Name: GE HICKORY, NC			Date Started: 1/4/21	Logger: J. NELSON			
Project Number: 30053008			Date Completed: 2-4-21 JN	Editor:			
Project Location: HICKORY, NC.			Weather Conditions: Sunny 44°F 1-5-21				
Depth (feet)	Blow Counts	Sample ID & Time	Recovery (in.)	PID (ppm)	USCS Class.	Description	Construction Details
0-2	NA	NA	24"	Ø		Brownish RED SILTY CLAY. TRACE ORGANICS. ML	HAND CLEAR
2-4			24"	Ø		BROWNISH ORANGE SILTY, SANDY, CLAY. OL MOIST @ 4 FT.	HAND CLEAR
5-7			↑	Ø		LIGHT BROWN-TAN SANDY CLAY. OL	MACRO CORE
7-9			51"	Ø		Brownish GRAY SILTY SANDY CLAY. MOIST. OL	
9-10			↓	Ø		ORANGISH Brown Sandy Clay, LENS OF SAND @ 9 FT. Turning wet @ 10 FT.	MACRO CORE
10-15			↑ Ø ↓	NA		NO RECOVERY. TIP Punch from 1ST Run of water sampling Blocked Macro core	MACRO CORE
15-20			Ø	NA		JAME CONDITION AS 10-15. Continue Push Test for WATER samples.	
						* Refusal @ 39 ft. Bgs.	
10-15	01/05/2021	^ 46 V	" 46 X	Ø		0-25" Brown, Loose, Heavy Sm Saturated Silty Sand. 25-46 Brownish Orange Silty Clay. Whiteish Gray Sandy lenses. CL	
15-20		54	Ø			0-39" Sluff from Open Boring. 39-54" Sand, Clay Brown. Trace Sandstone @ 50" CL	
Drilling Co.:	GEOLOGIC			Sampling Method:	NA		
Driller:				Sampling Interval:	NA		
Drilling Method:	DIRECT Push			Water Level Start:	9 FT.		
Drilling Fluid:	NA			Water Level Finish:			
Remarks:				Converted to Well:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
				Surface Elev:			
				North Coor:			
				East Coor:			

SOIL BORING LOG

HP-10

Boring No.:

Sheet : 2 of 2

Drilling Co.:

Driller

Drilling Method:

Drilling Fluid:

Brining File Remarks:

Sampling Method:

Sampling Method: Sampling Interval:

Sampling Interval:
Water Level Start:

Water Level Start:

Water Level Finish:

Water Level, Insl.
Converted to Well:

Converted to Well: Yes
Surface Elevation:

No

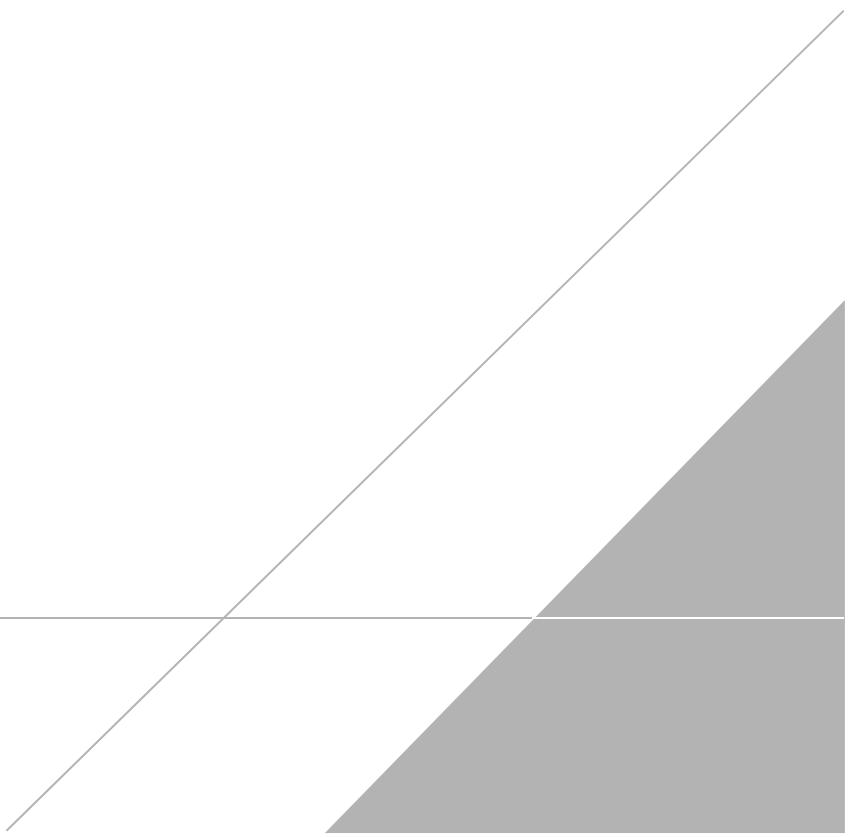
Surface Elev.
North Creek

North Coor:
East Coor:

East Coor:

Attachment 2

Groundwater Sampling Logs





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Groundwater Sample Log

Project # : 30053008

Well ID : HP-D1

Date : 2/1/21

Site Name/Location : GE - HICKORY

Weather : OVERTCAST, 40°F

Well Information

Measuring Point : GROUND
Total Depth (ft-bmp) : _____
Water Level (ft-bmp) : _____

Casing Diameter (in) : 3.5
Water Column (ft) : _____
Well Volume (gal) : _____

Screen Setting (ft-bmp) : _____
Well Completion Type : Flush Mount / Stick-up
Well Material : PVC / SS

Purge Details

Purge Start Time : _____

Purge Intake (ft-bmp) : _____

Sampling Method : GTR&B

Total Purged (gal) : _____

Purge Rate (mL/min) : _____

Pump Type : WATERZRA

Sample Tag/label : _____

Q/C QC Samples : _____

Sampled By : M. CREE

Name	Minutes Elapsed SAMPLE TIME	Volume Purged	Depth to Water (ft. bmp)	Temp. (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)
5-9'	1210	0.1	4.41	10.6	0.062	4.04	7.13	146.7	>1000
5-10'	1214	0.3	4.53	11.0	0.047	2.75	6.30	143.0	>1000
10-14'	1218 (1225)	0.5	4.32	11.3	0.041	2.51	5.41	144.3	>1000
1336	0.1	5.36	12.4	0.041	4.65	5.26	152.7	>1000	
1340	0.3	6.59	12.8	0.048	4.61	5.45	146.2	>1000	
1342 (9550)	0.5		12.9	0.041	4.05	5.47	145.0	>1000	

Sample Description : _____

Color : _____

Odor : _____

Appearance : _____

Constituents Sampled

Container Type

Quantity

Preservative

Well Condition

Damaged : Yes / No

Labeled : Yes / No

Locked : Yes / No

Sealed : Yes / No

Comments : _____

Notes

Conversions :

Well Casing Volumes (gal./ft.)

1" = 0.04 3" = 0.37 6" = 1.47
2" = 0.16 4" = 0.65

1 gal. = 3.785 L

1 L = 0.264 gal.

1 ft. water = 0.433 psi

1 psi = 2.31 ft. water


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Groundwater Sample LogProject #: 30053008 Well ID : HP-01 Date : 7/1/21Site Name/Location : GE - HICKORY Weather : CLEAR, 47°F**Well Information**

Measuring Point :	<u>GROUND</u>	Casing Diameter (in) :	<u>0.5</u>	Screen Setting (ft-bmp) :	<u>-</u>
Total Depth (ft-bmp) :	<u>-</u>	Water Column (ft) :	<u>-</u>	Well Completion Type :	<u>Flush Mount / Stick-up</u>
Water Level (ft-bmp) :	<u>-</u>	Well Volume (gal) :	<u>-</u>	Well Material :	<u>PVC / SS</u>

Purge Details

Purge Start Time :	<u>-</u>	Pump Intake (ft-bmp) :	<u>-</u>	Sampling Method :	<u>GRAB</u>
Volume Purged (gal) :	<u>-</u>	Purge Rate (mL/min) :	<u>-</u>	Pump Type :	<u>WATERRA</u>

Sample Time (label)QA/QC Samples : DUP-02 on 19-23.5 Sampled By : M. CREEK

Time	Minutes Elapsed SAMPLE TIME	Volume Purged	Depth to Water (ft. bmp)	Temp. (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)
14-19									
1400		0.1	4.21	14.0	0.044	5.95	5.94	190.0	>1000
1404		0.3	10.40	11.2	0.060	5.63	5.93	132.3	>1000
1408	1410	0.5		11.3	0.063	5.79	5.91	134.2	>1000
19-23.5									
1421		0.1	8.94	12.0	0.048	5.49	6.05	131.5	>1000
1428		0.3	9.26	15.4	0.082	5.36	6.15	129.0	>1000
1433	1435	0.5		15.3	0.079	41.96	6.26	118.8	>1000

Sample Description :	Color :	Odor :	Appearance :
Constituents Sampled	Container Type	Quantity	Preservative

Well ConditionDamaged : Yes / No Labeled : Yes / No Locked : Yes / No Sealed : Yes / NoComments : **Notes**

Conversions :	Well Casing Volumes (gal./ft.)			1 gal. = 3.785 L	1 ft. water = 0.433 psi
	1" = 0.04	3" = 0.37	6" = 1.47	1 L = 0.264 gal.	1 psi = 2.31 ft. water
	2" = 0.16	4" = 0.65			



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Groundwater Sample Log

Project # : 30053008 Well ID : WP-02 Date : 7/11/21

Site Name/Location : GE - HICKORY Weather : OVERCAST, 42°F

Well Information

Measuring Point :	<u>GROUND</u>	Casing Diameter (in) :	<u>0.5</u>	Screen Setting (ft-bmp) :	<u>-</u>
Total Depth (ft-bmp) :	<u>-</u>	Water Column (ft) :	<u>-</u>	Well Completion Type :	<u>Flush Mount / Stick-up</u>
Water Level (ft-bmp) :	<u>-</u>	Well Volume (gal) :	<u>-</u>	Well Material :	<u>PVC / SS</u>

Purge Details

Purge Start Time :	<u>-</u>	Pump Intake (ft-bmp) :	<u>-</u>	Sampling Method :	<u>GRAB</u>
Volume Purged (gal) :	<u>-</u>	Purge Rate (mL/min) :	<u>-</u>	Pump Type :	<u>WATERZILLA</u>
Sample Time (label) :	<u>-</u>	QA/QC Samples :	<u>-</u>	Sampled By :	<u>M. CIEZEL</u>

Time	Minutes Elapsed <u>SAMPLE TIME</u>	Volume Purged	Depth to Water (ft. bmp)	Temp. (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)
1706		0.1	1.29	10.6	0.122	8.60	5.40	174.3	>1000
1711		0.3	5.76	10.8	0.098	7.59	5.32	174.4	>1000
1716	(1720)	0.5		11.4	0.092	6.14	5.73	176.5	>1000
1727		0.1	6.19	14.1	0.132	5.18	5.44	177.0	>1000
1732		0.3	4.95	14.4	0.127	4.14	5.58	160.6	>1000
1736	(1740)	0.5		14.1	0.121	4.38	5.71	142.7	>1000

Sample Description : Color : _____ Odor : _____ Appearance : _____

Constituents Sampled	Container Type	Quantity	Preservative
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Well Condition

Damaged : Yes / No Labeled : Yes / No Locked : Yes / No Sealed : Yes / No

Comments : _____

Notes

Conversions :

Well Casing Volumes (gal./ft.)			1 gal. = 3.785 L	1 ft. water = 0.433 psi
1" = 0.04	3" = 0.37	6" = 1.47	1 L = 0.264 gal.	1 psi = 2.31 ft. water
2" = 0.16	4" = 0.65			



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Groundwater Sample Log

Project #: 30053006 Well ID : HP-03 Date : 7/2/21

Site Name/Location : GE - HICKORY, NC Weather : CLEAR, 74°F

Well Information

Measuring Point :	<u>GROUND</u>	Casing Diameter (in) :	<u>0.5</u>	Screen Setting (ft-bmp) :	<u>-</u>
Total Depth (ft-bmp) :	<u> </u>	Water Column (ft) :	<u> </u>	Well Completion Type :	<u>Flush Mount / Stick-up</u>
Water Level (ft-bmp) :	<u> </u>	Well Volume (gal) :	<u> </u>	Well Material :	<u>PVC / SS</u>

Purge Details

Purge Start Time :	<u> </u>	Pump Intake (ft-bmp) :	<u> </u>	Sampling Method :	<u>GROUT</u>
Volume Purged (gal) :	<u> </u>	Purge Rate (ml/min) :	<u> </u>	Pump Type :	<u>WATERZU</u>
Sample Time (label) :	<u> </u>	QA/QC Samples :	<u> </u>	Sampled By :	<u>M. CREEEL</u>

Time	Minutes Elapsed <u>SAMPLE TIME</u>	Volume Purged	Depth to Water (ft. bmp)	Temp. (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)
1043		0.1	7.32	10.0	0.175	9.14	7.73	143.3	>1000
1047		0.3	7.95	10.7	0.139	7.01	7.04	129.2	>1000
1052	<u>1055</u>	<u>0.5</u>		10.7	0.121	7.48	6.64	120.0	>1000
1103		0.1	10.13	12.7	0.122	1.74	6.67	97.1	>1000
1107		0.3	9.32	12.9	0.091	4.90	6.84	85.2	>1000
1112	<u>1115</u>	<u>0.5</u>		13.2	0.084	4.25	6.91	81.0	>1000

Sample Description : Color : _____ Odor : _____ Appearance : _____

Constituents Sampled	Container Type	Quantity	Preservative

Well Condition

Damaged : Yes / No Labeled : Yes / No Locked : Yes / No Sealed : Yes / No

Comments : _____

Notes

Conversions :	Well Casing Volume (gal/ft.)	1 gal = 3.785 L	1 ft. water = 0.433 psi
	1" = 0.04 3" = 0.37 4" = 1.47	1 L = 0.264 gal.	1 psi = 0.433 ft. water
	2" = 0.16 4" = 0.65		



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Groundwater Sample Log

Project #: 30053008 Well ID : HP-03 Date : 2/2/21

Site Name/Location GE - HICKORY, NC Weather : CLEAR, ~40°F

Well Information

Measuring Point : GROUND Casing Diameter (in) : 0.5 Screen Setting (ft-bmp) : -
 Total Depth (ft-bmp) : Water Column (ft) : Well Completion Type : Flush Mount / Stick-up
 Water Level (ft-bmp) : Well Volume (gal) : Well Material : PVC / SS

Purge Details

Purge Start Time : Pump Intake (ft-bmp) : Sampling Method : GRAB
 Volume Purged (gal) : Purge Rate (mL/min) : Pump Type : WATERTRA
 Sample Time (label) : QA/QC Samples : Sampled By : M. CIEEL

Time	Minutes Elapsed <u>SAMPLE TIME</u>	Volume Purged	Depth to Water (ft. bmp)	Temp. (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)
1123		0.1	10.64	14.9	0.086	4.72	6.80	89.8	>1000
1127		0.3	9.77	15.1	0.085	3.99	7.01	79.9	>1600
1132	<u>1135</u>	0.5		14.11	0.081	3.98	7.06	77.9	>1000

Sample Description : Color : Odor : Appearance :

Constituents Sampled	Container Type	Quantity	Preservative

Well Condition

Damaged : Yes / No Labeled : Yes / No Locked : Yes / No Sealed : Yes / No

Comments :

Notes

Conversions :

Well Casing Volumes (gal./ft.)			1 gal. = 3.785 L	1 ft. water = 0.433 psi
1" = 0.04	3" = 0.37	6" = 1.47	1 L = 0.264 gal.	1 psi = 2.31 ft. water
2" = 0.16	4" = 0.65			

GROUNDWATER SAMPLING LOG

Project No. _____

Well ID HP-03 (17-27)

Page 4 of 4

Date 1-13-21

Project Name/Location _____

Measuring Pt. Screen Casing
Description Setting (ft-bmp) 17-27 Diameter (in.) 1"

Static Water Level (ft-bmp) 16.3 **Total Depth (ft-bmp)** _____ **Water Column/Gallons in Well**

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: Water
Centrifugal

Pump On/Off _____ Volumes Purged _____, 25 Submersible _____
Sample Time: Label 1369 Replicate/ Other

Start _____ Code No. _____
End _____

Sample
Method Gra&

Sampled by RayCity

Well Casing Volumes

Gallons/Foot 1" = 0.04

$$1.5'' = 0.09$$

$$2.5' = 0.26$$

$$3.5'' = 0.50$$

$$\theta'' = 1.47$$

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ **Well Locked at Departure:** _____

Well Completion: Flush Mount / Stick Up **Key Number To Well:**



Groundwater Sample Log

Project #: 37053008 Well ID : HP-04 Date : 2/2/21

Site Name/Location : GE - HICKORY, NC Weather :

Well Information

Measuring Point : GROUND Casing Diameter (in) : 0.5 Screen Setting (ft-bmp) : -
 Total Depth (ft-bmp) : Water Column (ft) : Well Completion Type : Flush Mount / Stick-up
 Water Level (ft-bmp) : Well Volume (gal) : Well Material : PVC / SS

Purge Details

Purge Start Time : Pump Intake (ft-bmp) : Sampling Method : GRAB

Volume Purged (gal) : Purge Rate (mL/min) : Pump Type : METERED

Sample Time (label) : QA/QC Samples : Sampled By : M. CREEK

Time	Screen Interval	Volume Purged	Depth to Water (ft. bmp)	Temp. (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)
1357	9-13	0.1	8.44	11.8	0.091	7.05	6.15	110.5	>1000
1359	9-13	0.3	8.60	12.6	0.091	4.81	6.01	106.3	>1000
1403	9-13	0.5		12.4	0.089	4.97	5.96	109.8	>1000
1411	14-18	0.1	12.68	13.3	0.143	7.56	5.91	113.2	>1000
1416	14-18	0.2	17.5	13.1	0.138	5.54	6.08	105.2	>1000
1422	14-18	0.5		13.8	0.136	5.60	6.11	103.1	>1000
1433	19-23	0.1	7.17	16.4	0.107	7.44	6.60	107.4	>1000
1438	19-23	0.3	15.43	17.2	0.102	5.66	7.07	91.4	>1000
1447	19-23	0.5		16.5	0.107	4.65	7.19	83.5	>1000

Sample Description : Color : Odor : Appearance :

Sample ID	Time	Analysis	Preservative	Quantity	QA/QC
HP-04 (9-13)	1405	VOL ₃	HCl	3	
HP-04 (14-18)	1425	VOL ₃	HCl	3	
HP-04 (19-23)	1445	VOL ₃	HCl	9	MS/MSD

Well Condition

Damaged : Yes / No Labeled : Yes / No Locked : Yes / No Sealed : Yes / No

Comments :

Notes

Conversions :	Well Casing Volumes (gal./ft.)			1 gal. = 3.785 L	1 ft. water = 0.433 psi
	1" = 0.04	3" = 0.37	6" = 1.47	1 L = 0.264 gal.	1 psi = 2.31 ft. water
	2" = 0.16	4" = 0.65			



Groundwater Sample Log

Project #: 30053008 Well ID : HP-05 Date : 2/2/21

Site Name/Location : GE - HICKORY, NC Weather :

Well Information

Measuring Point : <u>GROUND</u>	Casing Diameter (in) : <u>0.5</u>	Screen Setting (ft-bmp) : _____
Total Depth (ft-bmp) : _____	Water Column (ft) : _____	Well Completion Type : <u>Flush Mount / Stick-up</u>
Water Level (ft-bmp) : _____	Well Volume (gal) : _____	Well Material : <u>PVC / SS</u>

Purge Details

Purge Start Time : _____	Pump Intake (ft-bmp) : _____	Sampling Method : <u>GPIB</u>
Volume Purged (gal) : _____	Purge Rate (mL/min) : _____	Pump Type : <u>WATERRA</u>
Sample Time (label) : _____	QA/QC Samples : _____	Sampled By : <u>A.CREEL</u>

Time	Screen Interval	Volume Purged	Depth to Water (ft. bmp)	Temp. (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTU)
1607	8-12	0.1	6.77	11.5	0.075	7.43	6.1L	124.0	>1000
1607	8-12	0.3	7.59	12.1	0.066	6.27	5.82	128.1	>1000
1613	8-12	0.5		11.6	0.069	6.08	5.80	121.3	>1000
1619	13-17	0.1	11.77	14.1	0.118	5.13	5.7L	115.5	>1000
1623	13-17	0.3	11.51	14.4	0.122	5.33	5.91	109.0	>1000
1627	13-17	0.5		13.6	0.118	4.48	5.99	104.4	>1000
1636	18-22	0.1	15.74	18.2	0.088	4.99	6.27	106.6	>1000
1640	18-22	0.3	13.46	18.1	0.096	4.33	6.06	88.2	>1000
1644	18-22	0.5		16.0	0.091	5.09	6.87	81.5	>1000

Sample Description : Color : _____ Odor : _____ Appearance : _____

Sample ID	Time	Analysis	Preservative	Quantity	QA/QC
HP-05 (8-12)	1615	VOLS	HCl	3	-
HP-05 (13-17)	1630	VOL1	HCl	3	-
NP-05 (18-22)	1645	VOLS	HCl	3	-

Well Condition

Damaged : Yes / No Labeled : Yes / No Locked : Yes / No Sealed : Yes / No

Comments : _____

Notes

Conversions :	Well Casing Volumes (gal./ft.)			1 gal. = 3.785 L	1 ft. water = 0.433 psi
	1" = 0.04	3" = 0.37	6" = 1.47	1 L = 0.264 gal.	1 psi = 2.31 ft. water
	2" = 0.16	4" = 0.65			

GROUNDWATER SAMPLING LOG

Page 3 of 4

Project No. _____

Well ID

HP-05 (20-35)

Date

1-13-21

Project Name/Location _____

Weather _____

Measuring Pt. Screen _____ Casing _____ Well Material PVC
Description Setting (ft-bmp) 20-35 Diameter (in.) 1 1/2 SS

Static Water Level (ft-bmp) 9.9 Total Depth (ft-bmp) _____ Water Column/
Gallons in Well _____

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: Wet Test Sample Method _____
 Centrifugal
 Submersible
 Other ✓

Pump On/Off _____ Volumes Purged .5 gal Sample Time: Label 1351 Replicate/
Start _____ Code No. _____

Grab

Sampled by Ray Parker

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Appearance	
										Color	Odor
1351			9.9	.5	7.09	91	3.97	35	12.72C 33.65	9.4-7	

Constituents Sampled	Container	Number	Preservative

Well Casing Volumes

Gallons/Foot
 $1'' = 0.04$
 $1.25'' = 0.06$

$1.5'' = 0.09$
 $2'' = 0.18$
 $2.5'' = 0.26$
 $3'' = 0.37$
 $3.5'' = 0.50$
 $4'' = 0.65$
 $6'' = 1.47$

Well Information

Well Location: _____	Well Locked at Arrival: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
Condition of Well: _____	Well Locked at Departure: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
Well Completion: <input type="checkbox"/> Flush Mount / <input checked="" type="checkbox"/> Stick Up	Key Number To Well: <u>P150</u>

GROUNDWATER SAMPLING LOG

Project No.	<u>30-53008</u>	Well ID	<u>HP-06</u>	Page <u>1</u> of <u>1</u>					
Project Name/Location	<u>GE Hickory NC Hydropower</u>			Date <u>1-6-21</u>					
Measuring Pt. Description	<u>Ground</u>	Screen Setting (ft-bmp)	<u> </u>	Weather <u>Clear 35°F</u>					
Static Water Level (ft-bmp)	<u>7.85</u>	Total Depth (ft-bmp)	<u>18'</u>	Well Material <u>PVC</u> <u>SS</u>					
MP Elevation	<u> </u>			Purge Method: <u>Centrifugal Submersible</u>					
Pump On/Off	<u> </u>			Sample Method <u>Cras</u>					
Sample Time: Label Start End	<u>SAMPLE TIME</u>	Replicate/ Code No.	Other <u>X</u>						
Sampled by <u>JN</u>									

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mMhos) <u>NSC</u>	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance	
											Color	Odor
1022			7.85	0.1	6.85	58	0.04	8.39	10.32	150.4	Brown	none
1026			7.85	0.2	6.23	53	OVER	9.58	11.24	168.2	"	"
1030	1031		7.20	0.5	5.87	54	OVER	9.47	12.36	178.4	"	"
1040			8.05	0.1	5.51	80	OVER	5.57	11.50	188.2	Brown	none
1044			7.90	0.2	5.63	84	OVER	5.47	13.98	162.0	"	"
1048	1050		7.85	0.5	5.69	88	OVER	3.93	13.13	118.5	"	"
1103			9.90	0.1	5.66	81	OVER	7.64	14.61	146.6	Brown	none
1107			8.01	0.2	5.74	85	OVER	4.54	15.48	113.8	"	"
1111	1112		8.10	0.5	5.72	92	OVER	2.49	14.29	112.8	"	"

Constituents Sampled	Container	Number	Preservative
<u>8260</u>	<u>40 ME VON</u>	<u>3</u>	<u>HCL</u>

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	Well Locked at Arrival:	Yes / No
Condition of Well:	Well Locked at Departure:	Yes / No
Well Completion:	Flush Mount / Stick Up	Key Number To Well:

GROUNDWATER SAMPLING LOG

Project No. 30053008 Well ID HP-07
 Project Name/Location GE HICKORY NC - Hydro punch

Measuring Pt. Screen Casing Diameter (in.) 0.5
 Description Ground Surf. Setting (ft-bmp) Well Material PVC
SS

Static Water Level (ft-bmp) 7.40 Total Depth (ft-bmp) 24' Water Column/
 Gallons in Well

MP Elevation Pump Intake (ft-bmp) Purge Method:
 Pump On/Off Volumes Purged Centrifugal
 Submersible
 Other

Sample Time: Label MS/MSD Sample Method CRA B
 Start 15-19
 End SAMPLE TIME Sampled by JN

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance	
											Color	Odor
(7-11)	-1554			0.1	6.36	56	over	5.91	13.98	135	Brown	none
	-1558			0.2	5.73	56	over	6.52	14.39	145.5	"	"
	-1601		1602	0.5	5.95	56	over	4.94	13.90	154.9	"	"
								7.31				
(11-15)	-1606			0.1	5.67	84	over	5.74	14.40	150.2	Brown	none
	-1609			0.2	5.64	78	over	5.64	13.05	128.0	"	"
	-1612		1613	0.5	5.65	78	over	5.44	15.19	126.0	"	"
(15-19)	-1619			0.1	5.88	71	over	3.99	15.01	117.5	Brown	none
	-1623			0.2	5.81	82	over	5.04	14.84	121.5	"	"
	-1625		1626	0.5			over				"	"
(19-21)	-1640			0.1	6.25	98	over	6.93	17.63	142.9	"	"
↓	-1644			0.2	6.34	100	over	6.70	17.62	128.6	"	"
	-1649		1650	0.5								

Constituents Sampled 8260 Container 40 ml USA Number 3 Preservative HCL

MS/MSD collected @ HP-07 (15-19) Interval / 9 VRSAS

Well Casing Volumes
 Gallons/Foot $1'' = 0.04$ $1.5'' = 0.09$ $2.5'' = 0.26$ $3.5'' = 0.50$ $6'' = 1.47$
 $1.25'' = 0.06$ $2'' = 0.16$ $3'' = 0.37$ $4'' = 0.65$

Well Information

Well Location:	Well Locked at Arrival:	Yes	/	No
Condition of Well:	Well Locked at Departure:	Yes	/	No
Well Completion:	Key Number To Well:			

GROUNDWATER SAMPLING LOG

Project No.	<u>30053008</u>	Well ID	<u>HP-08</u>	Date	<u>1-5-21</u>
Project Name/Location	<u>GE HICKORY NC - Hydropunch</u>			Weather	<u>OVERCAST 50's</u>
Measuring Pt. Description	Screen <u>Ground Surf.</u> Setting (ft-bmp)	Casing Diameter (in.)	<u>0.5</u>	Well Material	PVC SS
Static Water Level (ft-bmp)	<u>5.5</u>	Total Depth (ft-bmp)	<u>20</u>	Water Column/ Gallons in Well	
MP Elevation		Pump Intake (ft-bmp)		Purge Method:	
Pump On/Off		Volumes Purged		Centrifugal Submersible	
Sample Time:	Label	Replicate/		Other	X
	Start	Code No.	DUP-01	Sample Method	<u>Grab</u>
	End	SAMPLE TIME		Sampled by	JN

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance	Color	Odor
1320			NM	0.1	6.89	54	OVER	7.61	14°F 51°F	114.5	Brown	none	
1324				0.2	6.36	34	OVER	8.23	14.10	129.0	"	"	
1329			1330	0.5	6.02	34	OVER	7.41	13.86	153.9	"	"	
(5-9)													
(10-14)	1341			0.1	5.90	128	over	4.85	15.68	140.2	Brown	none	
	1343			0.2	6.01	133	over	7.50	15.89	139.1	"	"	
	1346		1347	0.5	6.07	135	"	6.72	16.33	135.2	"	"	
(15-19)	1358			0.1	6.43	110	over	6.10	17.14	131.8	Brown	none	
	1401			0.25	6.27	125	over	4.96	17.74	103.0	"	"	
	1404		1405	0.50	6.22	123	over	4.71	17.31	100.9	"	"	

Constituents Sampled	Container	Number	Preservative
8260	40 mL vols	3	HCL

* Dup-01 Collected - Timed @ 1201
From HP-08 (15-19) interval.

Well Casing Volumes

Gallons/Foot	1" = 0.04 1.25" = 0.06	1.5" = 0.09 2" = 0.16	2.5" = 0.26 3" = 0.37	3.5" = 0.50 4" = 0.65	6" = 1.47
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Well Information

Well Location:		Well Locked at Arrival:	Yes / No
Condition of Well:		Well Locked at Departure:	Yes / No
Well Completion:	Flush Mount / Stick Up	Key Number To Well:	

GROUNDWATER SAMPLING LOG

Project No.	<u>300 53 8008</u>	Well ID	<u>HP-09</u>	Date	<u>1-3-21</u>
Project Name/Location	<u>GE Hickory NC Hydro punch</u>			Weather	<u>RAIN 140's</u>
Measuring Pt. Description	Screen <u>Ground Surface</u>	Setting (ft-bmp)	<u>4' interval</u>	Casing Diameter (in.)	<u>0.5"</u>
Well Material	PVC	SS			
Static Water Level (ft-bmp)	<u>4.10' bgs.</u>	Total Depth (ft-bmp)	<u>17'</u>	Water Column/ Gallons in Well	
MP Elevation		Pump Intake (ft-bmp)		Purge Method:	
Pump On/Off		Volumes Purged		Centrifugal Submersible Other	<u>X</u>
Sample Time: Label Start End	Replicate/ Code No.	<u>SAMPLE TIME</u>		Sample Method	<u>GRAB</u>
				Sampled by	<u>JN</u>

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mMhos) (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C) (°F)	Redox (mV)	Appearance	
											Color	Odor
1000			NA	0.1	6.27	95	OVER	5.95	12.85	122.2	Brown	None
1004				0.2	6.00	71	"	7.52	13.52	122.8	Brown/grey	None
1009			1010	0.5	5.71	71	"	7.36	13.28	123.9	"	"
1021			NA	0.1	5.84	122	over	5.55	15.18	144	Brown	None
1025				0.2	5.86	116	"	5.15	14.80	116.3	"	"
1029			1030	0.5	5.88	129	"	5.60	14.71	100.9	"	"
1042				0.1	5.99	148	over	7.29	17.08	129.9	Brown	None
1045				0.25	6.08	143	"	6.16	17.77	106.5	Grey	None
1050			1051	0.5			"				Grey	None

Constituents Sampled	Container	Number	Preservative
<u>8260</u>	<u>40 MC VSP</u>	<u>3</u>	<u>HCl</u>

Well Casing Volumes
 Gallons/Foot 1" = 0.04 1.5" = 0.09 2.5" = 0.26 3.5" = 0.50 6" = 1.47
 1.25" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65

Well Information	Well Locked at Arrival:	Yes / No
Well Location:	Well Locked at Departure:	Yes / No
Condition of Well:	Key Number To Well:	
Well Completion:	Flush Mount / Stick Up	

GROUNDWATER SAMPLING LOG

Project No. 30053008Well ID BORING HP-10Page 1 of 2Date 1/4/21Weather Sunny 45° FMeasuring Pt.
Description Ground
surfaceScreen
Setting (ft-bmp) 4 FTCasing
Diameter (in.) 8" ~0.5"Well Material PVC
SSStatic Water
Level (ft-bmp)Total Depth (ft-bmp) NAWater Column/
Gallons in Well

MP Elevation

Pump Intake (ft-bmp) NA

Purge Method:

Sample
Method GRA B

Pump On/Off

Volumes Purged

Centrifugal
Submersible

Sample Time: Label

Replicate/

Other X

Start _____

Code No. _____

Sampled by SAN

End _____

TIME
SAMPLE

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C) (°F)	Redox (mV)	Appearance	
											Color	Odor
HP-10 (6-10)	1440			1	3.68	58	OVER	6.15	14.19	268.9	Orange	none
	1445		1446	1.25	3.28	53	"	4.10	13.98	282.6	"	"
(10-14)	1500			0.10	3.85	35	OVER	5.11	15.06	233.0	Orange	none
	1505			0.5	3.98	47	OVER	4.80	15.11	208.3	"	"
	1509		1510	0.75	4.09	43		4.56	15.36	189.7	"	"
(16-20)	1530			0.20	5.48	260	OVER	7.03	15.24	133.7	Brown	none
	1535			0.40	4.87	92	OVER	5.0	15.49	48.1	"	"
	1545		1545	0.75	4.72	67	OVER	4.99	15.23	33.8	"	"
(20-25)	1555			0.10	4.89	109	OVER	5.51	15.57	138.1	Brown	none
	1600			0.25	5.11	115	OVER	4.51	16.14	74.5	"	"
	1606		1609	0.75	5.12	115	OVER	7.64	15.78	60.5	"	"

Constituents Sampled

8260

Container

40 ML VIALNumber 3Preservative HCl

Well Casing Volumes

Gallons/Foot
1" = 0.04
1.25" = 0.061.5" = 0.09
2" = 0.162.5" = 0.26
3" = 0.373.5" = 0.50
4" = 0.65

6" = 1.47

Well Information

Well Location: _____

Well Locked at Arrival: Yes / No

Condition of Well: _____

Well Locked at Departure: Yes / No

Well Completion: _____

Flush Mount / Stick Up

Key Number To Well: _____

GROUNDWATER SAMPLING LOG

Project No. 30053008 Well ID HP-10 Page 2 of 2
 Project Name/Location GE Hickory NC Hydro punch proj. Date 1-4-2021
 Measuring Pt. Screen Casing
 Description Setting (ft-bmp) Diameter (in.) 0.5 Weather Sunny 50°F
 Static Water Level (ft-bmp) Total Depth (ft-bmp) 39' Well Material PVC
 MP Elevation Pump Intake (ft-bmp) Purge Method: Centrifugal
 Pump On/Off Volumes Purged Submersible
 Sample Time: Label Replicate/
 Start _____ Code No. _____ Other _____ Sample Method GRAB
 End _____
 Sampled by JW

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mMhos) (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance	
											Color	Odor
1622				0.1	5.32	135	OVER	2.22	15.82	20.4	Brown	none
1626				0.25	5.27	122	OVER	3.85	16.05	16.1	"	"
1630			1631	0.50	5.28	123	OVER	4.05	15.76	-6.5	"	"
(25-30)												
1645				0.1	5.59	191	OVER	1.09	15.28	39.3	DARKBROWN	/none
1655				0.25	5.58	165	OVER	3.85	15.58	67.9	"	"
1700			1701	0.75	5.61	175	OVER	2.50	15.88	24.5	"	"
(30-35)												
1710				0.1	5.77	201	OVER	1.40	14.97	25.6	DARKBROWN	/none
1715				0.25	5.77	186	OVER	1.73	16.48	-5.9	"	"
1720			1721	0.50	5.79	164	OVER	3.50	14.80	-2.3	"	"
(35-39)												
<i>TERMINATE BORING @ 39 FT BGS, Refusal.</i>												

Constituents Sampled	Container	Number	Preservative
8260	40 ml vials	3	HCL

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	Well Locked at Arrival:	Yes / No
Condition of Well:	Well Locked at Departure:	Yes / No
Well Completion: Flush Mount / Stick Up	Key Number To Well:	

Attachment 3

Bedrock Packer Testing Logs



Appendix - Bedrock Packer Testing Logs
 NCD003237948 - General Electric (Conover)
 Groundwater Investigation Report



Well ID:	BR-1							
Date Sampled:	3/18/21							
Screen Interval (ft bgs):	60 - 80'							
Casing Stick-up:	3.5'							
Field Parameters:	Depth to Water (ft btoc)	Volume Purged (gallons)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)
Time								
9:00	Began Purging							
9:15	64.75	28	14.9	0.18	1.57	211.9	29.5	10.73
9:38	65.57	48	14.9	0.181	0.99	170.7	30.9	10.73
9:45	71.81	71	14.9	0.18	0.88	150	30.6	10.7
10:00	73.81	90	14.9	0.178	1.32	146.1	26.5	10.68
10:05	Sample Collected BR-1 (60-80)							

*Over casing water levels (Above Packer)

8:57 2.78
 9:35 2.79

Notes:

°C Degrees Celcius.
 ft bgs Feet below ground surface.
 ft btoc Feet below top of casing.
 mg/L Milligrams per liter.
 mS/cm Microsiemens per centimeter.
 mV Millivolts.
 NTU Nephelometric Turbidity Units.
 mg/L Micrograms per liter.

Sample collected using disposable bailer

Appendix - Bedrock Packer Testing Logs
 NCD003237948 - General Electric (Conover)
 Groundwater Investigation Report



Well ID:	BR-1							
Date Sampled:	3/18/21							
Screen Interval (ft bgs):	80 - 100'							
Casing Stick-up:	3.5'							
Field Parameters:	Depth to Water (ft btoc)	Volume Purged (gallons)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)
Time								
10:45								Began Purging
10:55	61.25	20	14.3	0.154	2.09	152.6	26.1	10.52
11:05	66.54	38	14.6	0.14	4.48	144.1	26.5	10.25
11:15	69.85	54	14.6	0.125	3.27	142.9	15.1	9.91
11:35	78.02	84	14.5	0.122	2.87	139.7	16.2	9.89
11:45	78.35	99	15	0.111	3.81	142.2	18.4	9.44
11:50								Sample Collected BR-1 (80-100)

*Over casing water levels (Above Packer)

10:40	20.7
11:00	20.05
11:20	19.28
11:40	18.59

Notes:

°C Degrees Celcius.
 ft bgs Feet below ground surface.
 ft btoc Feet below top of casing.
 mg/L Milligrams per liter.
 mS/cm Microsiemens per centimeter.
 mV Millivolts.
 NR Not recorded.
 NTU Nephelometric Turbidity Units.
 mg/L Micrograms per liter.

Sample collected using disposable bailer

Appendix - Bedrock Packer Testing Logs
 NCD003237948 - General Electric (Conover)
 Groundwater Investigation Report



Well ID:	BR-2							
Date Sampled:	3/17/21							
Screen Interval (ft bgs):	39 - 59'							
Casing Stick-up:	3.1'							
Field Parameters:	Depth to Water (ft btoc)	Volume Purged (gallons)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)
Time								
11:03								Began Purging
11:06	40.25	6	14.7	0.212	2.3	109.8	30.4	10.89
11:15	50.75	26	14.8	0.224	2.77	97.5	41.7	10.94
11:25	58.35	41	14.9	0.245	1.07	97.8	42.2	11.04
11:28	Dry	45						Stoppped Pumping / Interval Purged DRY
11:55								no recharge, no sample collected

*Over casing water levels (Above Packer)

11:00	2.75
11:08	2.7
11:27	2.73

Notes:

°C Degrees Celcius.
 ft bgs Feet below ground surface.
 ft btoc Feet below top of casing.
 mg/L Milligrams per liter.
 mS/cm Microsiemens per centimeter.
 mV Millivolts.
 NTU Nephelometric Turbidity Units.
 mg/L Micrograms per liter.

Appendix - Bedrock Packer Testing Logs
 NCD003237948 - General Electric (Conover)
 Groundwater Investigation Report



Well ID:	BR-2							
Date Sampled:	3/17/21							
Screen Interval (ft bgs):	60 - 80'							
Casing Stick-up:	3.1'							
Field Parameters:	Depth to Water (ft btoc)	Volume Purged (gallons)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)
Time								
12:06								
					Began Purging			
12:15	63.88	20	14.6	0.207	3.41	87.5	38.8	10.8
12:30	70.88	43	14.9	0.201	0.97	90.3	42.4	10.76
12:40	75.04	58	14.9	0.194	0.99	90.8	35.3	10.71
12:50	78.08	71	15.1	0.188	1.39	90.8	31.2	10.65
12:55	79.3	77	15.1	0.182	0.91	92.3	31.1	10.59
13:00					Sample Collected BR-2 (60-80')			

*Over casing water levels (Above Packer)

12:05	26.02
12:20	25.67
12:47	25.02

Notes:

°C	Degrees Celcius.
ft bgs	Feet below ground surface.
ft btoc	Feet below top of casing.
mg/L	Milligrams per liter.
mS/cm	Microsiemens per centimeter.
mV	Millivolts.
NTU	Nephelometric Turbidity Units.
µg/L	Micrograms per liter.

Sample collected using disposable bailer

Well ID:	BR-2							
Date Sampled:	3/17/21							
Screen Interval (ft bgs):	80 - 100'							
Casing Stick-up:	3.0'							
Field Parameters:	Depth to Water (ft btoc)	Volume Purged (gallons)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)
Time								
13:34								Began Purging
13:45	84.15	16	15.1	0.209	5.18	120.2	21.3	10.74
14:05	91.15	46	15.3	0.213	5.15	113.9	23.6	10.81
14:15	94.51	61	15.3	0.211	4.36	119.1	21.9	10.79
14:25	96.36	75	15.5	0.212	4.21	113.4	23.9	10.79
14:33	Dry	82						Stoppped Pumping / Interval Purged DRY
14:40	97.08	NR	NR	NR	NR	NR	NR	NR
14:50	96.95	NR	NR	NR	NR	NR	NR	NR
14:55								Sample Collected BR-2 (80-100)

*Over casing water levels (Above Packer)

13:32	44.9
14:08	41.68
14:20	40.64
14:30	39.94
14:48	38.32

Notes:

°C	Degrees Celcius.
ft bgs	Feet below ground surface.
ft btoc	Feet below top of casing.
mg/L	Milligrams per liter.
mS/cm	Microsiemens per centimeter.
mV	Millivolts.
NR	Not recorded.
NTU	Nephelometric Turbidity Units.
mg/L	Micrograms per liter.

Sample collected using disposable bailer

Appendix - Bedrock Packer Testing Logs
 NCD003237948 - General Electric (Conover)
 Groundwater Investigation Report



Well ID:	BR-3							
Date Sampled:	3/16/21							
Screen Interval (ft bgs):	36 - 60'							
Casing Stick-up:	6.7'							
Field Parameters:	Depth to Water (ft btoc)	Volume Purged (gallons)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)
Time								
15:15								
	Began Purging							
	44.56	6	14.7	1.15	2.95	128.4	147	12
15:30	Dry	15			--			
15:50								
	Continued Purging							
	--	16	9.3	1.17	8.82	283.5	144	12.16
15:52	Dry	17			--			
15:55								
	Removed Pump to Monitor Recharge							
16:05	50.35	--			--			
16:15	50.23	--			--			
16:25	50.16	--			--			
16:30	Sample Collected BR-3 (36-60')							

Notes:

- °C Degrees Celcius.
- ft bgs Feet below ground surface.
- ft btoc Feet below top of casing.
- mg/L Milligrams per liter.
- mS/cm Microsiemens per centimeter.
- mV Millivolts.
- NR Not recorded.
- NTU Nephelometric Turbidity Units.
- µg/L Micrograms per liter.

Sample collected using disposable bailer

Well ID:	BR-3							
Date Sampled:	3/16/21							
Screen Interval (ft bgs):	60 - 84'							
Casing Stick-up:	6.7'							
Field Parameters:	Depth to Water (ft btoc)	Volume Purged (gallons)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)
Time								
16:45	Began Purging							
16:53	NR	2	Shut off pump - Due to Malfunctioning					
17:04	<i>Malfunction Resolved -- Continued Purging</i>							12
17:06	55.28	8	14.6	1.49	0.73	-289.2	35.9	12.17
17:11	65.25	15	14.8	1.45	1.13	-288.6	63	12.15
17:20	70.69	25	15	1.5	1.47	-288.4	64.4	12.16
17:30	76.28	39	15	1.44	0.75	-289.2	55.9	12.16
17:40	79.91	51	15.1	1.44	0.83	-289.1	54.7	12.16
17:44	Stoppped Pumping / Interval Purged DRY							
17:52	80.82	NR	NR	NR	NR	NR	NR	NR
17:55	80.83	NR	NR	NR	NR	NR	NR	NR
18:00	80.8	NR	NR	NR	NR	NR	NR	NR
18:05	Sample Collected BR-3 (60-84')							

*Over casing water levels (Above Packer)

16:40	32.96
17:26	32.42
17:47	32.14

Notes:

°C	Degrees Celcius.
ft bgs	Feet below ground surface.
ft btoc	Feet below top of casing.
mg/L	Milligrams per liter.
mS/cm	Microsiemens per centimeter.
mV	Millivolts.
NR	Not recorded.
NTU	Nephelometric Turbidity Units.
µg/L	Micrograms per liter.

Sample collected using disposable bailer

Appendix - Bedrock Packer Testing Logs
 NCD003237948 - General Electric (Conover)
 Groundwater Investigation Report



Well ID:	BR-3							
Date Sampled:	3/17/21							
Screen Interval (ft bgs):	80 - 100'							
Casing Stick-up:	4.0'							
Field Parameters:	Depth to Water (ft btoc)	Volume Purged (gallons)	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	pH (standard units)
Time								
8:20	Began Purging							
8:22	65.81	12	14.6	1.22	3.39	-277.2	13.6	11.94
8:35	83.99	30	14.7	1.48	3.72	-288.9	14.4	12.15
8:45	86.45	45	14	1.49	3.57	-289.9	16	12.18
8:55	88.82	60	14.5	1.24	3.38	-286.9	14	12.13
9:10	91.08	78	14.3	1.23	3.5	-287.1	13.6	12.13
9:20	91.92	88	14.4	1.23	3.6	-286.9	12.6	12.13
9:35	92.6	98	13.9	1.23	3.81	-287	10.7	12.14
9:40	93.36	105	13.5	1.22	3.52	-287.6	11.5	12.16
9:46	Shut off pump							
9:45	Sample Collected BR-3 (80-100') (Dup-1 031721)							

*Over casing water levels (Above Packer)

8:15	39.44
8:50	39.04
9:17	28.6
9:42	38.22

Notes:

°C	Degrees Celcius.
ft bgs	Feet below ground surface.
ft btoc	Feet below top of casing.
mg/L	Milligrams per liter.
mS/cm	Microsiemens per centimeter.
mV	Millivolts.
NTU	Nephelometric Turbidity Units.
mg/L	Micrograms per liter.

Sample collected using disposable bailer

100

Location HICKORY, NC Date 3/16/71

Project / Client GE - HICKORY

PALMER TEST:

WELL ID: BR-3

CASING STICK-UP = ~~3.90~~,
6.7'

SCREEN INTERVAL: 36-60'

TIME	DIA (ft. BBL.)	VOLUME PURGED	TEMP. (°C)	SP. COND. (μmho)	D.O. (mg/l)	DOZP (MV)	TURB. (NTU)	PH
1515	BEGIN	PURGING						
1516	44.56	6 GAL, 14.7	1.15	2.95	126.4	147	12.00	
1530	DRY	~15gal						
1550	CONTINUE PURG.		10	9.3	1.17	8.82	83.5	12.16
1552	DRY	~17						
1605	50.75							
1615	50.73							
1635	50.16							
1630	COLLECT SAMPLE UP 3 (36-60)							

1555 - REMOVED PUMP TO MONITORIC REC

* SAMPLE COLLECTED VIA NEW DISPOSABLE
ISPAK

Location Hickory, NC

101

Date 3/16/12

Project / Client G-E - Hickory

WELL ID = BTR-3

CASING STICK-UP = 6.7'

SCREEN INTERVAL = 60-84

TUBB.

TIME	DRW	HONORTE TEMP SP. COND. PURPLE	CRP
------	-----	----------------------------------	-----

1245 - BEGIN PURGING

1253 - ~2 - SHUT OFF PUMP / INC FUNCTIONING

1200 1204 - CONTINUE PURGING

1205 55.78 ~8 14.6 1.49 0.73 -289.7 12.12 35.9

1211 65.25 ~15 14.8 1.45 1.13 -288.6 12.15 63.0

12.16 1220 70.29 ~25 15.0 1.51 1.47 -288.4 17.14 64.4

1230 76.28 ~39 15.0 1.41 0.75 -289.7 17.12 55.9

1240 79.91 ~51 15.1 1.44 0.83 -289.1 12.16 59.7

1244 - STOP PURGING / WELL GOING DRY

1250 - 80.88

1255 - 80.83

1300 - 80.80

1245 - REMOVE PUMP

* SAMPLE COLLECTED VIA NEW DISPOSABLE BOTTLE

1805 - COLLECT SAMPLE BTR-3 (60-84)

OUTER CASING WATER LEVELS (ABOVE PURPLE)

1648 = 32.96

1726 = 32.42

1747 = 32.14

104

Location HICKORY, NC

Date 3/17/21

Project / Client G-E - HICKORY

WELL ID = BR-3

CASING STACK-UP: 4'

SCREEN INTERVAL: 80-100'

TIME	DTW (FT. TWD)	VOLUME PUMPED	TEMP (°C)	SP. COND. (μS/cm)	pH	T.D. (mg/l)	ORP (mV)	TURB. (NTU)
0820	→ BEGIN PUMPING							
0828	65.81	~12cm	14.6	1.22	11.94	3.39	-277.7	13.6
0835	83.99	~30cm	14.7	1.48	12.15	3.72	-288.5	14.1
0845	86.45	~45	14.0	1.49	12.18	3.57	-289.9	12.0
0855	88.82	~60	14.5	1.24	12.13	3.38	-286.9	14.0
0910	91.08	~78	14.3	1.23	12.13	3.50	-287.1	13.6
0920	91.92	~88	14.4	1.23	12.13	3.60	-286.9	12.6
0930	92.60	~98	13.9	1.23	12.14	3.51	-287.0	10.7
0940	93.36	~105	13.5	1.22	12.16	3.52	-287.6	11.5

0946 - SHUT OFF PUMP

0945 - COLLECT SAMPLE BR-3 (80-100')→ DVP-1 (03/22/)

NOTE: CROSSING WATER LEVELS (ABOVE PACKER)

0815 = 39.44

0942 = 38.72

0850 = 39.04

1917 28.60

Location Hickory, NCDate 3/17/21Project / Client GE - Hickory

WELL ID: BTR-2

29-59'

CASING STICK-UP = 3.1'

SCREEN INTERVAL = ~~40'-60'~~

TIME	STW (Fr. Brdg)	VOLUME POTGFT	TEMP °F	ST. CONC. PPM	pH	T.D.	ORP (mV)	TURB. (NTU)
1103 - BEGIN PUMPING								
1106	40.25	~6	14.2	0.212	10.89	2.30	109.8	30.4
1115	50.75	~26	14.8	0.224	10.94	2.77	97.5	41.7
1125	58.35	~41	14.9	0.245	11.04	1.07	97.5	47.2
1128	DRY	~45	+ STOP PUMPING					

1155 - INTERVAL DRY, NO RECHARGE

*

NO SAMPLE COLLECTED

OUTER CASING WATER LEVELS: (CLEAR PACKER)

1100 = 2.75' ~~1127~~

1108 = 2.70

1122 = 2.73

Location HICKORY, NC Date 3/17/71Project / Client GE - HICKORY

WELL ID: BD-2

CASING STICK-SP = 3.1'

SCREEN INTERVAL = 60-80'

TIME	DTW (ft. BTL)	VOLUME PURGED	TEMP. (°C)	SP. COND. (mS/cm)	pH	D.O. (mg/L)	ORP (mV)	TURB. (NTU)
1206	-	BEGIN PURGING						
1215	63.85	~20	14.6	0.207	10.80	3.41	87.5	38.8
1230	70.88	~43	14.9	0.201	10.76	0.97	90.3	42.4
1240	75.04	~58	14.9	0.194	10.71	0.99	90.8	35.3
1250	78.08	~71	15.1	0.188	10.65	1.39	90.8	31.2
1255	79.30	~77	15.1	0.182	10.59	0.91	92.3	31.1

1300 - COLLECT SAMPLE BD-2 (60-80)

OUTER CASING CAVITY LEVELS (ABOVE PACKER)

1205 = 76.62

1220 = 75.17

1242 = 75.02

Location Nicola, NL Date 3/17/21 107Project / Client GE - Nicola

WELL ID: BTR-7

CASING STICK-UP = 3'

SCREEN INTERVAL = 80-100

TIME (FT. BTRC)	DRAW FORCED	VOLUME FORCED	TEMP. (°C)	SP. COND. (mS/cm)	pH	D.O. (mg/L)	C.E.P. (mV)	TURB. (NTU)
1334	+ BEGUN TO PUMP							
1345	84.15	~16	15.1	0.209	10.74	5.18	120.2	21.3
1405	91.15	~46	15.3	0.213	10.81	5.15	113.9	23.2
1415	94.51	~61	15.3	0.211	10.79	4.30	119.1	21.9
1475	96.36	~75	15.5	0.212	10.79	4.71	113.4	23.9
1433	1224	~82	+ PUMPED DRAW	1	STAB PUMPING			
1440	97.05							
1450	96.95							

1455 - COLLECT SAMPLE BTR-7 (80-100)

OUTER CASING WATER LEVELS (ABOUT FEET)

1332 = 44.90

1430 = 39.94

1408 = 41.68

1448 = 38.37

1420 = 40.64

108

Location HICKORY, NCDate 3/16/21Project / Client CF - HICKORY, NC

WELL IT: 1STC-1

CASING STICK UP: 3.5

SCREEN INTERVAL: (0-80)

TIME	DRAW	VOLUME FILLED	TEMP.	SP.GRD.	PH	D.O.	DRP	TOTAL DRP
900	BEG	IND	45					
905	64.75	~28	14.9	0.180	10.72	1.57	211.4	29.5
920	65.77	~8	14.9	0.181	10.73	0.99	170.7	30.9
945	71.81	~71	14.9	0.180	10.70	0.98	157.0	30.6
1000	73.81	~90	14.9	0.178	10.68	1.32	166.1	26.5

1005 - CORRECT SAMPLE 1STC-1 (0-80)
LS MS/med

CURRENT CASING WIRELINE LEVELS (ABOVE FANTZ?)

0832 - 7.74

0935 - 7.23

Location HICKORY, NC Date 3/18/21 109Project / Client GE-HICKORYTEST ID: BTR-1CASING STICK-UP: 7.5'SCREEN INTERVAL: 80-100

TIME	ITW PURGED	VOLUME HEM. (SP. DNP.)	P.D.	DO.	DNP	TURB.
1645	- Begin Purging					
1055	61.20 ~20	14.3	0.107	10.82 ± 3.8	142.6	76.5
1105	62.54 ~38	14.6	0.102	10.75 ± 4.7	144.1	76.5
1115	69.85 ~54	14.6	0.105	9.91 ± 3.72	142.9	76.1
1135	78.02 ~84	14.8	0.102	9.89 ± 2.82	139.7	76.1
1145	98.35 ~99	15.0	0.101	9.41 ± 3.81	142.5	76.1

1150 - Correct Sample BTR-1 180-100WATER FLOWING FROM THE Casing (ABOVE FLOOR)~~26.45 ± 2.00~~

$$1040 = 20.20$$

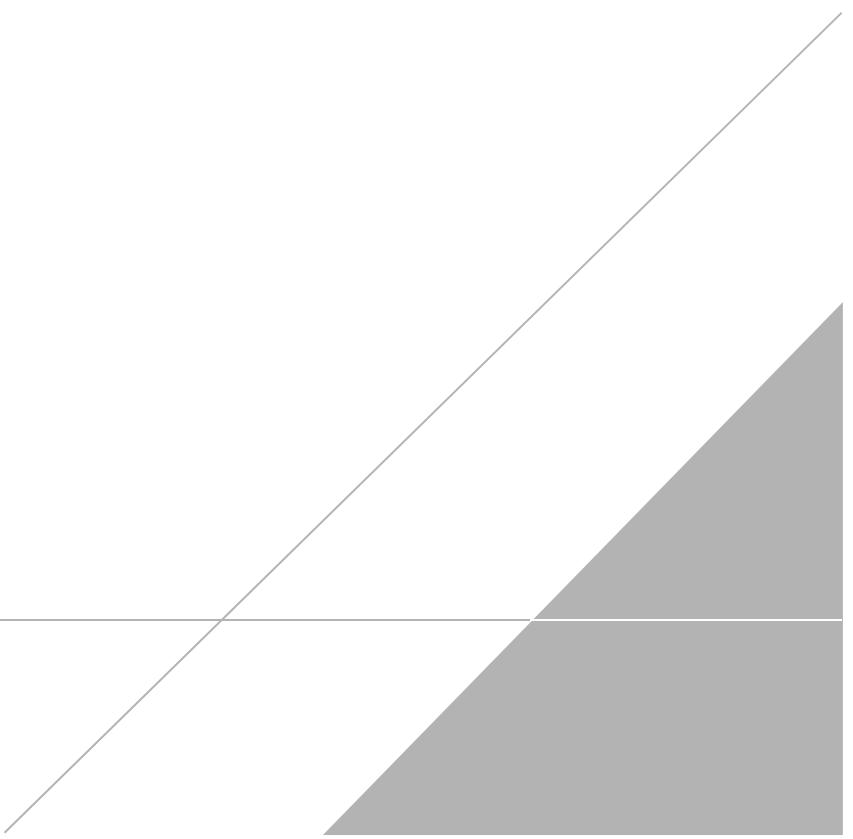
$$1170 = 19.78$$

$$1100 = 20.05$$

$$1121A = 18.59$$

Attachment 4

Laboratory Analytical Reports



January 13, 2021

Matthew Pelton
ARCADIS
5420 Wade Park Blvd
Suite 350
Raleigh, NC 27607

RE: Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Dear Matthew Pelton:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Chris Bagley, Arcadis
Kristen Lowder, Arcadis
Ray Penley, General Electric
Bob Witsell



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515436001	STREAM A	EPA 8260D	CL	8	PASI-C
92515436002	STREAM B	EPA 8260D	CL	8	PASI-C
92515436003	STREAM B-1	EPA 8260D	CL	8	PASI-C
92515436004	STREAM B-2	EPA 8260D	CL	8	PASI-C
92515436005	STREAM B-3	EPA 8260D	CL	8	PASI-C
92515436006	STREAM C	EPA 8260D	CL	8	PASI-C
92515436007	STREAM C-2	EPA 8260D	CL	8	PASI-C
92515436008	STREAM C-4	EPA 8260D	CL	8	PASI-C
92515436009	STREAM D	EPA 8260D	CL	8	PASI-C
92515436010	STREAM E	EPA 8260D	CL	8	PASI-C
92515436011	HP-07 (7-11)	EPA 8260D	CL	8	PASI-C
92515436012	HP-07 (11-15)	EPA 8260D	CL	8	PASI-C
92515436013	HP-07 (15-19)	EPA 8260D	CL	8	PASI-C
92515436014	HP-07 (19-23)	EPA 8260D	CL	8	PASI-C
92515436015	HP-08 (5-9)	EPA 8260D	CL	8	PASI-C
92515436016	HP-08 (10-14)	EPA 8260D	CL	8	PASI-C
92515436017	HP-08 (15-19)	EPA 8260D	CL	8	PASI-C
92515436018	HP-09 (4-8)	EPA 8260D	CL	8	PASI-C
92515436019	HP-09 (10-14)	EPA 8260D	CL	8	PASI-C
92515436020	HP-09 (14-17)	EPA 8260D	CL	8	PASI-C
92515436021	HP-10 (6-10)	EPA 8260D	BSH	8	PASI-C
92515436022	HP-10 (10-14)	EPA 8260D	BSH	8	PASI-C
92515436023	HP-10 (16-20)	EPA 8260D	BSH	8	PASI-C
92515436024	HP-10 (20-25)	EPA 8260D	BSH	8	PASI-C
92515436025	DUP-01	EPA 8260D	CL	8	PASI-C
92515436026	EB-01	EPA 8260D	BSH	8	PASI-C
92515436027	HP-06 (6-10)	EPA 8260D	CL	8	PASI-C
92515436028	HP-06 (10-14)	EPA 8260D	BSH	8	PASI-C
92515436029	HP-06 (14-18)	EPA 8260D	CL	8	PASI-C
92515436030	TB	EPA 8260D	BSH	8	PASI-C
92515436031	HP-10 (25-30)	EPA 8260D	CL	8	PASI-C
92515436032	HP-10 (30-35)	EPA 8260D	BSH	8	PASI-C
92515436033	HP-10 (35-39)	EPA 8260D	CL	8	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: STREAM A		Lab ID: 92515436001	Collected: 01/07/21 12:50	Received: 01/07/21 14:14	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill								
Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
1,1-Dichloroethene	ND	ug/L	1.0	1		01/08/21 13:53	75-35-4	
cis-1,2-Dichloroethene	1.6	ug/L	1.0	1		01/08/21 13:53	156-59-2	
Tetrachloroethene	133	ug/L	1.0	1		01/08/21 13:53	127-18-4	
Trichloroethene	31.7	ug/L	1.0	1		01/08/21 13:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 13:53	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		01/08/21 13:53	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/08/21 13:53	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		01/08/21 13:53	2037-26-5	
Sample: STREAM B		Lab ID: 92515436002	Collected: 01/07/21 12:40	Received: 01/07/21 14:14	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill								
Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
1,1-Dichloroethene	ND	ug/L	1.0	1		01/08/21 14:11	75-35-4	
cis-1,2-Dichloroethene	1.8	ug/L	1.0	1		01/08/21 14:11	156-59-2	
Tetrachloroethene	176	ug/L	1.0	1		01/08/21 14:11	127-18-4	
Trichloroethene	41.7	ug/L	1.0	1		01/08/21 14:11	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 14:11	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		01/08/21 14:11	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/08/21 14:11	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		01/08/21 14:11	2037-26-5	
Sample: STREAM B-1		Lab ID: 92515436003	Collected: 01/07/21 12:30	Received: 01/07/21 14:14	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill								
Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
1,1-Dichloroethene	ND	ug/L	1.0	1		01/08/21 14:47	75-35-4	
cis-1,2-Dichloroethene	1.8	ug/L	1.0	1		01/08/21 14:47	156-59-2	
Tetrachloroethene	174	ug/L	1.0	1		01/08/21 14:47	127-18-4	
Trichloroethene	41.8	ug/L	1.0	1		01/08/21 14:47	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 14:47	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		01/08/21 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/08/21 14:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		01/08/21 14:47	2037-26-5	

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: STREAM B-2	Lab ID: 92515436004	Collected: 01/07/21 11:45	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 15:05	75-35-4
cis-1,2-Dichloroethene	1.9	ug/L	1.0	1			01/08/21 15:05	156-59-2
Tetrachloroethene	188	ug/L	1.0	1			01/08/21 15:05	127-18-4
Trichloroethene	44.7	ug/L	1.0	1			01/08/21 15:05	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 15:05	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			01/08/21 15:05	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	1			01/08/21 15:05	17060-07-0
Toluene-d8 (S)	97	%	70-130	1			01/08/21 15:05	2037-26-5
Sample: STREAM B-3	Lab ID: 92515436005	Collected: 01/07/21 11:30	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 15:23	75-35-4
cis-1,2-Dichloroethene	1.8	ug/L	1.0	1			01/08/21 15:23	156-59-2
Tetrachloroethene	200	ug/L	1.0	1			01/08/21 15:23	127-18-4
Trichloroethene	43.5	ug/L	1.0	1			01/08/21 15:23	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 15:23	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			01/08/21 15:23	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	1			01/08/21 15:23	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/08/21 15:23	2037-26-5
Sample: STREAM C	Lab ID: 92515436006	Collected: 01/07/21 11:20	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	2.0	2			01/08/21 14:29	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	2.0	2			01/08/21 14:29	156-59-2
Tetrachloroethene	195	ug/L	2.0	2			01/08/21 14:29	127-18-4
Trichloroethene	40.3	ug/L	2.0	2			01/08/21 14:29	79-01-6
Vinyl chloride	ND	ug/L	2.0	2			01/08/21 14:29	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	2			01/08/21 14:29	460-00-4
1,2-Dichloroethane-d4 (S)	95	%	70-130	2			01/08/21 14:29	17060-07-0
Toluene-d8 (S)	99	%	70-130	2			01/08/21 14:29	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: STREAM C-2	Lab ID: 92515436007	Collected: 01/07/21 11:05	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 15:41	75-35-4
cis-1,2-Dichloroethene	1.9	ug/L	1.0	1			01/08/21 15:41	156-59-2
Tetrachloroethene	163	ug/L	1.0	1			01/08/21 15:41	127-18-4
Trichloroethene	40.2	ug/L	1.0	1			01/08/21 15:41	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 15:41	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			01/08/21 15:41	460-00-4
1,2-Dichloroethane-d4 (S)	96	%	70-130	1			01/08/21 15:41	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/08/21 15:41	2037-26-5
Sample: STREAM C-4	Lab ID: 92515436008	Collected: 01/07/21 10:55	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 15:59	75-35-4
cis-1,2-Dichloroethene	1.7	ug/L	1.0	1			01/08/21 15:59	156-59-2
Tetrachloroethene	133	ug/L	1.0	1			01/08/21 15:59	127-18-4
Trichloroethene	35.5	ug/L	1.0	1			01/08/21 15:59	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 15:59	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1			01/08/21 15:59	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	1			01/08/21 15:59	17060-07-0
Toluene-d8 (S)	99	%	70-130	1			01/08/21 15:59	2037-26-5
Sample: STREAM D	Lab ID: 92515436009	Collected: 01/06/21 14:58	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 13:17	75-35-4
cis-1,2-Dichloroethene	1.0	ug/L	1.0	1			01/08/21 13:17	156-59-2
Tetrachloroethene	56.9	ug/L	1.0	1			01/08/21 13:17	127-18-4
Trichloroethene	20.3	ug/L	1.0	1			01/08/21 13:17	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 13:17	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			01/08/21 13:17	460-00-4
1,2-Dichloroethane-d4 (S)	99	%	70-130	1			01/08/21 13:17	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/08/21 13:17	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: STREAM E	Lab ID: 92515436010	Collected: 01/06/21 14:50	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1		01/08/21 13:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/08/21 13:35	156-59-2	
Tetrachloroethene	11.3	ug/L	1.0	1		01/08/21 13:35	127-18-4	
Trichloroethene	5.7	ug/L	1.0	1		01/08/21 13:35	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 13:35	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		01/08/21 13:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/08/21 13:35	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		01/08/21 13:35	2037-26-5	
Sample: HP-07 (7-11)	Lab ID: 92515436011	Collected: 01/05/21 16:02	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1		01/08/21 16:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/08/21 16:17	156-59-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/08/21 16:17	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		01/08/21 16:17	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 16:17	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		01/08/21 16:17	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/08/21 16:17	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		01/08/21 16:17	2037-26-5	
Sample: HP-07 (11-15)	Lab ID: 92515436012	Collected: 01/05/21 16:13	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	2.5	2.5		01/12/21 07:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	2.5		01/12/21 07:48	156-59-2	
Tetrachloroethene	11.0	ug/L	2.5	2.5		01/12/21 07:48	127-18-4	
Trichloroethene	306	ug/L	2.5	2.5		01/12/21 07:48	79-01-6	
Vinyl chloride	ND	ug/L	2.5	2.5		01/12/21 07:48	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	2.5		01/12/21 07:48	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	2.5		01/12/21 07:48	17060-07-0	
Toluene-d8 (S)	98	%	70-130	2.5		01/12/21 07:48	2037-26-5	

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: HP-07 (15-19)	Lab ID: 92515436013	Collected: 01/05/21 16:26	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	5.0	5		01/12/21 09:18	75-35-4	M1
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		01/12/21 09:18	156-59-2	M1
Tetrachloroethene	154	ug/L	5.0	5		01/12/21 09:18	127-18-4	
Trichloroethene	913	ug/L	5.0	5		01/12/21 09:18	79-01-6	M1
Vinyl chloride	ND	ug/L	5.0	5		01/12/21 09:18	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	5		01/12/21 09:18	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	5		01/12/21 09:18	17060-07-0	
Toluene-d8 (S)	98	%	70-130	5		01/12/21 09:18	2037-26-5	
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Sample: HP-07 (19-23)	Lab ID: 92515436014	Collected: 01/05/21 16:50	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	2.5	2.5		01/12/21 08:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	2.5		01/12/21 08:06	156-59-2	
Tetrachloroethene	324	ug/L	2.5	2.5		01/12/21 08:06	127-18-4	
Trichloroethene	305	ug/L	2.5	2.5		01/12/21 08:06	79-01-6	
Vinyl chloride	ND	ug/L	2.5	2.5		01/12/21 08:06	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	2.5		01/12/21 08:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	2.5		01/12/21 08:06	17060-07-0	
Toluene-d8 (S)	97	%	70-130	2.5		01/12/21 08:06	2037-26-5	
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Sample: HP-08 (5-9)	Lab ID: 92515436015	Collected: 01/05/21 13:30	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1		01/08/21 17:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/08/21 17:30	156-59-2	
Tetrachloroethene	ND	ug/L	1.0	1		01/08/21 17:30	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		01/08/21 17:30	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 17:30	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		01/08/21 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/08/21 17:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/08/21 17:30	2037-26-5	

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: HP-08 (10-14)	Lab ID: 92515436016	Collected: 01/05/21 13:47	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 17:48	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 17:48	156-59-2
Tetrachloroethene	6.8	ug/L	1.0	1			01/08/21 17:48	127-18-4
Trichloroethene	83.2	ug/L	1.0	1			01/08/21 17:48	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 17:48	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			01/08/21 17:48	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	1			01/08/21 17:48	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/08/21 17:48	2037-26-5
Sample: HP-08 (15-19)	Lab ID: 92515436017	Collected: 01/05/21 14:05	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	4.0	4			01/12/21 08:24	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	4.0	4			01/12/21 08:24	156-59-2
Tetrachloroethene	18.1	ug/L	4.0	4			01/12/21 08:24	127-18-4
Trichloroethene	404	ug/L	4.0	4			01/12/21 08:24	79-01-6
Vinyl chloride	ND	ug/L	4.0	4			01/12/21 08:24	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	4			01/12/21 08:24	460-00-4
1,2-Dichloroethane-d4 (S)	100	%	70-130	4			01/12/21 08:24	17060-07-0
Toluene-d8 (S)	98	%	70-130	4			01/12/21 08:24	2037-26-5
Sample: HP-09 (4-8)	Lab ID: 92515436018	Collected: 01/05/21 10:10	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:24	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:24	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			01/08/21 18:24	127-18-4
Trichloroethene	ND	ug/L	1.0	1			01/08/21 18:24	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 18:24	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			01/08/21 18:24	460-00-4
1,2-Dichloroethane-d4 (S)	96	%	70-130	1			01/08/21 18:24	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/08/21 18:24	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: HP-09 (10-14)	Lab ID: 92515436019	Collected: 01/05/21 10:30	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:42	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:42	156-59-2
Tetrachloroethene	3.5	ug/L	1.0	1			01/08/21 18:42	127-18-4
Trichloroethene	22.6	ug/L	1.0	1			01/08/21 18:42	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 18:42	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			01/08/21 18:42	460-00-4
1,2-Dichloroethane-d4 (S)	95	%	70-130	1			01/08/21 18:42	17060-07-0
Toluene-d8 (S)	99	%	70-130	1			01/08/21 18:42	2037-26-5
Sample: HP-09 (14-17)	Lab ID: 92515436020	Collected: 01/05/21 10:51	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 19:00	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 19:00	156-59-2
Tetrachloroethene	3.5	ug/L	1.0	1			01/08/21 19:00	127-18-4
Trichloroethene	17.3	ug/L	1.0	1			01/08/21 19:00	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 19:00	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			01/08/21 19:00	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	1			01/08/21 19:00	17060-07-0
Toluene-d8 (S)	99	%	70-130	1			01/08/21 19:00	2037-26-5
Sample: HP-10 (6-10)	Lab ID: 92515436021	Collected: 01/04/21 14:46	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:45	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:45	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			01/08/21 18:45	127-18-4
Trichloroethene	ND	ug/L	1.0	1			01/08/21 18:45	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 18:45	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1			01/08/21 18:45	460-00-4
1,2-Dichloroethane-d4 (S)	92	%	70-130	1			01/08/21 18:45	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/08/21 18:45	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: HP-10 (10-14)	Lab ID: 92515436022	Collected: 01/04/21 15:10	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 19:04	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 19:04	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			01/08/21 19:04	127-18-4
Trichloroethene	ND	ug/L	1.0	1			01/08/21 19:04	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 19:04	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			01/08/21 19:04	460-00-4
1,2-Dichloroethane-d4 (S)	94	%	70-130	1			01/08/21 19:04	17060-07-0
Toluene-d8 (S)	97	%	70-130	1			01/08/21 19:04	2037-26-5
Sample: HP-10 (16-20)	Lab ID: 92515436023	Collected: 01/04/21 15:45	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 19:22	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 19:22	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			01/08/21 19:22	127-18-4
Trichloroethene	ND	ug/L	1.0	1			01/08/21 19:22	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 19:22	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			01/08/21 19:22	460-00-4
1,2-Dichloroethane-d4 (S)	93	%	70-130	1			01/08/21 19:22	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/08/21 19:22	2037-26-5
Sample: HP-10 (20-25)	Lab ID: 92515436024	Collected: 01/04/21 16:09	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 19:40	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 19:40	156-59-2
Tetrachloroethene	1.1	ug/L	1.0	1			01/08/21 19:40	127-18-4
Trichloroethene	2.8	ug/L	1.0	1			01/08/21 19:40	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 19:40	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			01/08/21 19:40	460-00-4
1,2-Dichloroethane-d4 (S)	94	%	70-130	1			01/08/21 19:40	17060-07-0
Toluene-d8 (S)	97	%	70-130	1			01/08/21 19:40	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: DUP-01	Lab ID: 92515436025	Collected: 01/05/21 12:01	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	2.5	2.5			01/12/21 14:36	75-35-4
cis-1,2-Dichloroethene	3.8	ug/L	2.5	2.5			01/12/21 14:36	156-59-2
Tetrachloroethene	18.6	ug/L	2.5	2.5			01/12/21 14:36	127-18-4
Trichloroethene	496	ug/L	2.5	2.5			01/12/21 14:36	79-01-6
Vinyl chloride	ND	ug/L	2.5	2.5			01/12/21 14:36	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	2.5			01/12/21 14:36	460-00-4
1,2-Dichloroethane-d4 (S)	109	%	70-130	2.5			01/12/21 14:36	17060-07-0
Toluene-d8 (S)	101	%	70-130	2.5			01/12/21 14:36	2037-26-5
Sample: EB-01	Lab ID: 92515436026	Collected: 01/05/21 11:25	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:09	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:09	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			01/08/21 18:09	127-18-4
Trichloroethene	ND	ug/L	1.0	1			01/08/21 18:09	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 18:09	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			01/08/21 18:09	460-00-4
1,2-Dichloroethane-d4 (S)	94	%	70-130	1			01/08/21 18:09	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/08/21 18:09	2037-26-5
Sample: HP-06 (6-10)	Lab ID: 92515436027	Collected: 01/06/21 10:31	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/12/21 03:52	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/12/21 03:52	156-59-2
Tetrachloroethene	3.6	ug/L	1.0	1			01/12/21 03:52	127-18-4
Trichloroethene	5.2	ug/L	1.0	1			01/12/21 03:52	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/12/21 03:52	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1			01/12/21 03:52	460-00-4
1,2-Dichloroethane-d4 (S)	101	%	70-130	1			01/12/21 03:52	17060-07-0
Toluene-d8 (S)	97	%	70-130	1			01/12/21 03:52	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: HP-06 (10-14)	Lab ID: 92515436028	Collected: 01/06/21 10:50	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 20:35	75-35-4
cis-1,2-Dichloroethene	1.2	ug/L	1.0	1			01/08/21 20:35	156-59-2
Tetrachloroethene	120	ug/L	1.0	1			01/08/21 20:35	127-18-4
Trichloroethene	196	ug/L	1.0	1			01/08/21 20:35	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 20:35	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			01/08/21 20:35	460-00-4
1,2-Dichloroethane-d4 (S)	93	%	70-130	1			01/08/21 20:35	17060-07-0
Toluene-d8 (S)	96	%	70-130	1			01/08/21 20:35	2037-26-5
Sample: HP-06 (14-18)	Lab ID: 92515436029	Collected: 01/06/21 11:12	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	5.0	5			01/12/21 09:00	75-35-4
cis-1,2-Dichloroethene	5.2	ug/L	5.0	5			01/12/21 09:00	156-59-2
Tetrachloroethene	351	ug/L	5.0	5			01/12/21 09:00	127-18-4
Trichloroethene	498	ug/L	5.0	5			01/12/21 09:00	79-01-6
Vinyl chloride	ND	ug/L	5.0	5			01/12/21 09:00	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	5			01/12/21 09:00	460-00-4
1,2-Dichloroethane-d4 (S)	99	%	70-130	5			01/12/21 09:00	17060-07-0
Toluene-d8 (S)	97	%	70-130	5			01/12/21 09:00	2037-26-5
Sample: TB	Lab ID: 92515436030	Collected: 01/07/21 00:00	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:27	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 18:27	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			01/08/21 18:27	127-18-4
Trichloroethene	ND	ug/L	1.0	1			01/08/21 18:27	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 18:27	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			01/08/21 18:27	460-00-4
1,2-Dichloroethane-d4 (S)	93	%	70-130	1			01/08/21 18:27	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/08/21 18:27	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Sample: HP-10 (25-30)	Lab ID: 92515436031	Collected: 01/04/21 16:31	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/12/21 04:10	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/12/21 04:10	156-59-2
Tetrachloroethene	1.5	ug/L	1.0	1			01/12/21 04:10	127-18-4
Trichloroethene	6.9	ug/L	1.0	1			01/12/21 04:10	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/12/21 04:10	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			01/12/21 04:10	460-00-4
1,2-Dichloroethane-d4 (S)	100	%	70-130	1			01/12/21 04:10	17060-07-0
Toluene-d8 (S)	99	%	70-130	1			01/12/21 04:10	2037-26-5
Sample: HP-10 (30-35)	Lab ID: 92515436032	Collected: 01/04/21 17:01	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/08/21 21:29	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/08/21 21:29	156-59-2
Tetrachloroethene	3.3	ug/L	1.0	1			01/08/21 21:29	127-18-4
Trichloroethene	5.3	ug/L	1.0	1			01/08/21 21:29	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/08/21 21:29	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1			01/08/21 21:29	460-00-4
1,2-Dichloroethane-d4 (S)	93	%	70-130	1			01/08/21 21:29	17060-07-0
Toluene-d8 (S)	97	%	70-130	1			01/08/21 21:29	2037-26-5
Sample: HP-10 (35-39)	Lab ID: 92515436033	Collected: 01/04/21 17:21	Received: 01/07/21 14:14	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/12/21 04:28	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/12/21 04:28	156-59-2
Tetrachloroethene	2.1	ug/L	1.0	1			01/12/21 04:28	127-18-4
Trichloroethene	3.2	ug/L	1.0	1			01/12/21 04:28	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/12/21 04:28	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1			01/12/21 04:28	460-00-4
1,2-Dichloroethane-d4 (S)	100	%	70-130	1			01/12/21 04:28	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			01/12/21 04:28	2037-26-5

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH

Pace Project No.: 92515436

QC Batch: 591520 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515436001, 92515436002, 92515436003, 92515436004, 92515436005, 92515436006, 92515436007,
92515436008, 92515436009, 92515436010, 92515436011, 92515436015, 92515436016, 92515436018,
92515436019, 92515436020

METHOD BLANK: 3122840

Matrix: Water

Associated Lab Samples: 92515436001, 92515436002, 92515436003, 92515436004, 92515436005, 92515436006, 92515436007,
92515436008, 92515436009, 92515436010, 92515436011, 92515436015, 92515436016, 92515436018,
92515436019, 92515436020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	01/08/21 12:59	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/08/21 12:59	
Tetrachloroethene	ug/L	ND	1.0	01/08/21 12:59	
Trichloroethene	ug/L	ND	1.0	01/08/21 12:59	
Vinyl chloride	ug/L	ND	1.0	01/08/21 12:59	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/08/21 12:59	
4-Bromofluorobenzene (S)	%	96	70-130	01/08/21 12:59	
Toluene-d8 (S)	%	98	70-130	01/08/21 12:59	

LABORATORY CONTROL SAMPLE: 3122841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	48.3	97	70-132	
cis-1,2-Dichloroethene	ug/L	50	48.5	97	70-130	
Tetrachloroethene	ug/L	50	49.4	99	70-130	
Trichloroethene	ug/L	50	50.3	101	70-130	
Vinyl chloride	ug/L	50	39.2	78	59-142	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122842 3122843

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		92515436009	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1-Dichloroethene	ug/L	ND	20	20	25.8	24.3	129	121	70-158	6		
cis-1,2-Dichloroethene	ug/L	1.0	20	20	24.1	24.8	115	119	67-148	3		
Tetrachloroethene	ug/L	56.9	20	20	81.3	82.7	122	129	70-139	2		
Trichloroethene	ug/L	20.3	20	20	44.8	45.3	122	125	70-149	1		
Vinyl chloride	ug/L	ND	20	20	19.5	19.9	98	99	55-172	2		
1,2-Dichloroethane-d4 (S)	%						107	107	70-130			
4-Bromofluorobenzene (S)	%						102	99	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

QC Batch:	591521	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV Low Level Landfill
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92515436021, 92515436022, 92515436023, 92515436024, 92515436026, 92515436028, 92515436030, 92515436032		

METHOD BLANK: 3122854 Matrix: Water

Associated Lab Samples: 92515436021, 92515436022, 92515436023, 92515436024, 92515436026, 92515436028, 92515436030,
92515436032

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
1,1-Dichloroethene	ug/L	ND	1.0	01/08/21 17:51	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/08/21 17:51	
Tetrachloroethene	ug/L	ND	1.0	01/08/21 17:51	
Trichloroethene	ug/L	ND	1.0	01/08/21 17:51	
Vinyl chloride	ug/L	ND	1.0	01/08/21 17:51	
1,2-Dichloroethane-d4 (S)	%	91	70-130	01/08/21 17:51	
4-Bromofluorobenzene (S)	%	96	70-130	01/08/21 17:51	
Toluene-d8 (S)	%	98	70-130	01/08/21 17:51	

LABORATORY CONTROL SAMPLE: 3122855

Parameter	Units	Spike	LCS		% Rec		Qualifiers
		Conc.	Result	% Rec	Limits		
1,1-Dichloroethene	ug/L	50	45.4	91	70-132		
cis-1,2-Dichloroethene	ug/L	50	45.6	91	70-130		
Tetrachloroethene	ug/L	50	49.7	99	70-130		
Trichloroethene	ug/L	50	50.5	101	70-130		
Vinyl chloride	ug/L	50	36.2	72	59-142		
1,2-Dichloroethane-d4 (S)	%			93	70-130		
4-Bromofluorobenzene (S)	%			99	70-130		
Toluene-d8 (S)	%			100	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122856 3122857

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92515436022	Spiked Result	Spike Conc.	MS Result					
1,1-Dichloroethene	ug/L	ND	20	20	23.2	22.7	116	114	70-158	2
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.2	21.5	106	108	67-148	2
Tetrachloroethene	ug/L	ND	20	20	23.1	22.4	116	112	70-139	3
Trichloroethene	ug/L	ND	20	20	23.5	22.8	118	114	70-149	3
Vinyl chloride	ug/L	ND	20	20	18.7	18.7	93	93	55-172	0
1,2-Dichloroethane-d4 (S)	%						100	101	70-130	
4-Bromofluorobenzene (S)	%						99	99	70-130	
Toluene-d8 (S)	%						98	100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

QC Batch:	591943	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV Low Level Landfill
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92515436012, 92515436013, 92515436014, 92515436017, 92515436027, 92515436029, 92515436031, 92515436033		

METHOD BLANK: 3125032 Matrix: Water

Associated Lab Samples: 92515436012, 92515436013, 92515436014, 92515436017, 92515436027, 92515436029, 92515436031, 92515436033

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
1,1-Dichloroethene	ug/L	ND	1.0	01/12/21 03:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/12/21 03:34	
Tetrachloroethene	ug/L	ND	1.0	01/12/21 03:34	
Trichloroethene	ug/L	ND	1.0	01/12/21 03:34	
Vinyl chloride	ug/L	ND	1.0	01/12/21 03:34	
1,2-Dichloroethane-d4 (S)	%	100	70-130	01/12/21 03:34	
4-Bromofluorobenzene (S)	%	98	70-130	01/12/21 03:34	
Toluene-d8 (S)	%	98	70-130	01/12/21 03:34	

LABORATORY CONTROL SAMPLE: 3125033

Parameter	Units	Spike	LCS		% Rec		Qualifiers
		Conc.	Result	% Rec	Limits		
1,1-Dichloroethene	ug/L	50	48.4	97	70-132		
cis-1,2-Dichloroethene	ug/L	50	50.5	101	70-130		
Tetrachloroethene	ug/L	50	46.2	92	70-130		
Trichloroethene	ug/L	50	50.0	100	70-130		
Vinyl chloride	ug/L	50	37.9	76	59-142		
1,2-Dichloroethane-d4 (S)	%			100	70-130		
4-Bromofluorobenzene (S)	%			102	70-130		
Toluene-d8 (S)	%			101	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125034 3125035

Parameter	Units	92515436013	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	Qual
		Result	Spike	Spike								
1,1-Dichloroethene	ug/L	ND	100	100	159	156	159	156	70-158	2	M1	
cis-1,2-Dichloroethene	ug/L	ND	100	100	161	149	157	145	67-148	8	M1	
Tetrachloroethene	ug/L	154	100	100	278	267	124	112	70-139	4		
Trichloroethene	ug/L	913	100	100	991	962	79	49	70-149	3	M1	
Vinyl chloride	ug/L	ND	100	100	123	109	123	109	55-172	12		
1,2-Dichloroethane-d4 (S)	%						98	97	70-130			
4-Bromofluorobenzene (S)	%						101	101	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH

Pace Project No.: 92515436

QC Batch: 592102

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92515436025

METHOD BLANK: 3125553

Matrix: Water

Associated Lab Samples: 92515436025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	01/12/21 11:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/12/21 11:23	
Tetrachloroethene	ug/L	ND	1.0	01/12/21 11:23	
Trichloroethene	ug/L	ND	1.0	01/12/21 11:23	
Vinyl chloride	ug/L	ND	1.0	01/12/21 11:23	
1,2-Dichloroethane-d4 (S)	%	107	70-130	01/12/21 11:23	
4-Bromofluorobenzene (S)	%	100	70-130	01/12/21 11:23	
Toluene-d8 (S)	%	103	70-130	01/12/21 11:23	

LABORATORY CONTROL SAMPLE: 3125554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	59.2	118	70-132	
cis-1,2-Dichloroethene	ug/L	50	54.5	109	70-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Trichloroethene	ug/L	50	54.6	109	70-130	
Vinyl chloride	ug/L	50	43.1	86	59-142	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125555 3125556

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92515874008	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	20	20	27.6	24.3	138	121	70-158	13		
cis-1,2-Dichloroethene	ug/L	3.3J	20	20	27.2	25.3	120	110	67-148	8		
Tetrachloroethene	ug/L	ND	20	20	24.0	22.2	120	111	70-139	8		
Trichloroethene	ug/L	ND	20	20	24.7	22.6	123	113	70-149	9		
Vinyl chloride	ug/L	ND	20	20	21.6	19.6	108	98	55-172	10		
1,2-Dichloroethane-d4 (S)	%						102	103	70-130			
4-Bromofluorobenzene (S)	%						98	99	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92515436

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515436001	STREAM A	EPA 8260D	591520		
92515436002	STREAM B	EPA 8260D	591520		
92515436003	STREAM B-1	EPA 8260D	591520		
92515436004	STREAM B-2	EPA 8260D	591520		
92515436005	STREAM B-3	EPA 8260D	591520		
92515436006	STREAM C	EPA 8260D	591520		
92515436007	STREAM C-2	EPA 8260D	591520		
92515436008	STREAM C-4	EPA 8260D	591520		
92515436009	STREAM D	EPA 8260D	591520		
92515436010	STREAM E	EPA 8260D	591520		
92515436011	HP-07 (7-11)	EPA 8260D	591520		
92515436012	HP-07 (11-15)	EPA 8260D	591943		
92515436013	HP-07 (15-19)	EPA 8260D	591943		
92515436014	HP-07 (19-23)	EPA 8260D	591943		
92515436015	HP-08 (5-9)	EPA 8260D	591520		
92515436016	HP-08 (10-14)	EPA 8260D	591520		
92515436017	HP-08 (15-19)	EPA 8260D	591943		
92515436018	HP-09 (4-8)	EPA 8260D	591520		
92515436019	HP-09 (10-14)	EPA 8260D	591520		
92515436020	HP-09 (14-17)	EPA 8260D	591520		
92515436021	HP-10 (6-10)	EPA 8260D	591521		
92515436022	HP-10 (10-14)	EPA 8260D	591521		
92515436023	HP-10 (16-20)	EPA 8260D	591521		
92515436024	HP-10 (20-25)	EPA 8260D	591521		
92515436025	DUP-01	EPA 8260D	592102		
92515436026	EB-01	EPA 8260D	591521		
92515436027	HP-06 (6-10)	EPA 8260D	591943		
92515436028	HP-06 (10-14)	EPA 8260D	591521		
92515436029	HP-06 (14-18)	EPA 8260D	591943		
92515436030	TB	EPA 8260D	591521		
92515436031	HP-10 (25-30)	EPA 8260D	591943		
92515436032	HP-10 (30-35)	EPA 8260D	591521		
92515436033	HP-10 (35-39)	EPA 8260D	591943		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Arcadis for GE

Project #

WO# : 92515436

Courier:
 Commercial Fed Ex UPS USPS Client
 Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/17/21 JC

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer:

 IR Gun ID: 92T064

Type of Ice:

 Yes No N/A Wet Blue None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.6

 Samples out of temp criteria. Samples on ice, cooling process has begunUSDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

COMMENTS/SAMPLE DISCREPANCY

HP-10(25-30) 1/4/21 1631
HP-10(30-35) 1/4/21 1701
HP-10(25-30) 1/4/21 1721

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92515436

PM: KLH1 Due Date: 01/14/21

CLIENT: 92-ARCADIS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved
1	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92515436

PM: KLH1

Due Date: 01/14/21

CLIENT: 92-ARCADIS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP2N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) WGFU-Wide-mouthed Glass jar Unpreserved	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit) - SO35 kit (N/A)	V/GK (3 vials per kit) - VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved-vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 2 of 2
Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92515436

PM: KLH1 Due Date: 01/14/21
CLIENT: 92-ARCADIS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP2N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-SO35 kit (N/A)	V/GK (3 vials per kit)-VPH/Ga3 kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2
Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92515436

PM: KLH1 Due Date: 01/14/21
CLIENT: 92-ARCADIS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2ZrO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	VG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-SO35 kit (N/A)	V/GK (3 vials per kit)-VPH/GaS kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

Environmental Analysis Request/Chain of Custody

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PACE ANALYTICAL

Acct. # _____ Group # _____ COC# 20210107-1

Pg 1/3

Client: ARCADIS for GE		PACE Profile # 10403		Matrix		Analyses Requested		For Lab Use Only		
Project Name/#: GE Hickory NC Hydropunch	Site ID #: 	P.O. #: 30053008 (Arcadis)	PWSID #: 	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tissue	SF #: 	SCR #: 	
Project Manager: Matthew Pelton	State where samples were collected: NC	Phone #: 334-308.0830	Quote #: 	For Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>						
Sample Identification		Collection		Composite		Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/>		Preservation Codes		
Date	Time	Grab	Composite	Water	Other:	Total # of Containers			H = HCl	T = Thiosulfate
STREAM A	1-7-21	1250	/	/	/	8260			N = HNO ₃	B = NaOH
STREAM B	1-7-21	1240	/	/	/				S = H ₂ SO ₄	P = H ₃ PO ₄
STREAM B-1	1-7-21	1230	/	/	/				F = Field Filtered	O = Other
STREAM B-2	1-7-21	1145	/	/	/					
STREAM B-3	1-7-21	1130	/	/	/					
STREAM C	1-7-21	1120	/	/	/					
STREAM C-2	1-7-21	1105	/	/	/					
STREAM C-4	1-7-21	1055	/	/	/					
STREAM D	1-6-21	1458	/	/	/					
STREAM E	1-6-21	1450	/	/	/					
Turnaround Time Requested (TAT) (please check):		Standard <input checked="" type="checkbox"/>	Rush <input type="checkbox"/>	Relinquished by: <i>John Nelson</i>	Date 1-7-21	Time 1310	Received by:	Date 1-7-21	Time 14:14	
(Rush TAT is subject to laboratory approval and surcharges.)				Relinquished by: <i>John Nelson</i>	Date 1-7-21	Time 214	Received by: <i>PACE</i>	Date 1-7-21	Time 14:14	
Date results are needed: STANDARD 14 DAY				Relinquished by:	Date	Time	Received by:	Date	Time	
Rush results requested by (please check):		E-Mail <input checked="" type="checkbox"/>	Phone <input type="checkbox"/>	Relinquished by:	Date	Time	Received by:	Date	Time	
E-mail Address: Matthew.Pelton@Arcadis.com				Relinquished by:	Date	Time	Received by:	Date	Time	
Phone: 919-270-9512				Relinquished by:	Date	Time	Received by:	Date	Time	
Data Package Options (please check if required)				Relinquished by:	Date	Time	Received by:	Date	Time	
Type I (Validation/non-CLP) <input type="checkbox"/>	MA MCP <input type="checkbox"/>			Relinquished by:	Date	Time	Received by:	Date	Time	
Type III (Reduced non-CLP) <input type="checkbox"/>	CT RCP <input type="checkbox"/>			Relinquished by:	Date	Time	Received by:	Date	Time	
Type VI (Raw Data Only) <input type="checkbox"/>	TX TRRP-13 <input type="checkbox"/>			Relinquished by:	Date	Time	Received by:	Date	Time	
NJ DKQP <input type="checkbox"/>	NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B			Relinquished by Commercial Carrier: <input checked="" type="checkbox"/>			Temperature upon receipt	3.6	°C	
EDD Required? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____							UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other <input type="checkbox"/>			

NOTES: PACE PM: Kevin.Herring@pacelabs.com // email report to Christopher.Bagley@Arcadis.com, Matthew.Pelton@Arcadis.com.

7045 0717

Environmental Analysis Request/Chain of Custody

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PACE ANALYTICAL

Acct. # _____ Group # _____ coc# 20210107-2

PACE ANALYTICAL

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl T = Thiosulfate

N = HNO₃ B = NaOH

S = H₂SO₄ P = H₃PO₄

F = Field Filtered O = Other

Client: ARCADIS for GE	PACE Profile # 10403	Matrix		Analyses Requested	
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation and Filtration Codes
Project Name#: GE Hickory NC Hydropunch	Site ID #: _____			H	
Project Manager: Matthew Pelton	P.O. #: 30053008 (Arcadis)				
Sampler: John Nelson	PWSID #:				
Phone #: 304.308.0830	Quote #:				
State where samples were collected: NC	For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Sample Identification	Collection	Grab	Composite	Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/>	Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/>
HP-07 (7-11)	Date 1-5-21	Time 1602	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 8260
HP-07 (11-15)	Date 1-5-21	Time 1613	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 3
HP-07 (15-19)	Date 1-5-21	Time 1626	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 9
HP-07 (19-23)	Date 1-5-21	Time 1650	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 3
HP-08 (5-9)	Date 1-5-21	Time 1330	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 3
HP-08 (10-14)	Date 1-5-21	Time 1347	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 3
HP-08 (15-19)	Date 1-5-21	Time 1405	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 3
HP-09 (4-8)	Date 1-5-21	Time 1010	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 3
HP-09 (10-14)	Date 1-5-21	Time 1030	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 3
HP-09 (14-17)	Date 1-5-21	Time 1051	Grab /	Water <input type="checkbox"/>	Other: Total # of Containers 3
Turnaround Time Requested (TAT) (please check):	Standard <input checked="" type="checkbox"/>	Rush <input type="checkbox"/>	Relinquished by: <u>J. Herring</u>	Date 1-7-21	Time 1310
(Rush TAT is subject to laboratory approval and surcharges.)					
Date results are needed: STANDARD 14 DAY	Relinquished by: <u>J. Herring</u>	Date 1-7-21	Time 2144	Received by: <u>K. Herring</u>	Date 1-7-21
Rush results requested by (please check): <input checked="" type="checkbox"/>	E-Mail <input checked="" type="checkbox"/>	Phone <input type="checkbox"/>			
E-mail Address: Matthew.Pelton@Arcadis.com					
Phone: 919-270-9512					
Data Package Options (please check if required)					
Type I (Validation/non-CLP) <input type="checkbox"/>	MA MCP <input type="checkbox"/>				
Type III (Reduced non-CLP) <input type="checkbox"/>	CT RCP <input type="checkbox"/>				
Type VI (Raw Data Only) <input type="checkbox"/>	TX TRRP-13 <input type="checkbox"/>				
NJ DKQP <input type="checkbox"/>	NYSDEC Category <input type="checkbox"/> A or <input checked="" type="checkbox"/> B				
EDD Required?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	If yes, format: _____	Temperature upon receipt 3.6	°C

NOTES: PACE PM: Kevin.Herring@pacelabs.com // email report to Christopher.Bagley@Arcadis.com, Matthew.Pelton@Arcadis.com.	Relinquished by Commercial Carrier: <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other: <input checked="" type="checkbox"/>	Temperature upon receipt 3.6 °C
UPS <input type="checkbox"/>	FedEx <input type="checkbox"/>	Other <input type="checkbox"/>
9045 0717		

Environmental Analysis Request/Chain of Custody

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PACE ANALYTICAL

Acct. # _____ Group # _____ COC# 20210107-3

Client: ARCADIS for GE		PACE Profile # 10403		Matrix		Analyses Requested		For Lab Use Only	
Project Name#: GE Hickory NC Hydropunch	Site ID #:	P.O. #: 30053008 (Arcadis)	PWSID #:	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Sediment	<input type="checkbox"/> Tissue	<input type="checkbox"/> Water	SF #:	SCR #:
Project Manager: Matthew Pelton				<input type="checkbox"/> Grab	<input type="checkbox"/> Composite				
Sampler: John Nelson		Quote #:							
Phone #: 304-308-0830									
State where samples were collected: NC		For Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>							
Collection									
Sample Identification	Date	Time	Grab	Composite		Soil	Sediment	Tissue	Water
HP-10 (10-10)	1-4-21	1446	/			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other: LAB PROVIDED WATER
HP-10 (10-14)	1-4-21	1510	/			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Potable
HP-10 (16-20)	1-4-21	1545	/			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Ground
HP-10 (20-25)	1-4-21	1609	/			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NPDES
DUR-01	1-5-21	1201	/			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Surface
EB-01	1-5-21	1125	-			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HP-06 (10-10)	1-6-21	1031	-			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HP-06 (10-14)	1-6-21	1050	-			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HP-06 (14-18)	1-6-21	1112	-			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HP-09N						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>									
<small>(Rush TAT is subject to laboratory approval and surcharges.)</small>									
Rush results are needed: STANDARD 14 DAY									
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>									
E-mail Address: Matthew.Pelton@Arcadis.com Phone: 919-270-9512									
Data Package Options (please check if required)									
Type I (Validation/non-CLP)	<input type="checkbox"/>	MA MCP	<input type="checkbox"/>						
Type III (Reduced non-CLP)	<input type="checkbox"/>	CT RCP	<input type="checkbox"/>						
Type VI (Raw Data Only)	<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>						
NJ DKOP	<input type="checkbox"/>	NYSDEC Category	<input type="checkbox"/> A or <input type="checkbox"/> B						
EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____									
Relinquished by: <i>John Nelson</i> Date 1-7-21 Time 1310 Received by: _____									
Relinquished by: <i>John Herring</i> Date 1-7-21 Time 1414 Received by: _____									
Relinquished by: _____ Date _____ Time _____ Received by: _____ Date _____ Time _____									
<small>NOTES: PACE PM: Kevin.Herring@pacelabs.com // email report to Christopher.Bagley@Arcadis.com, Matthew.Pelton@Arcadis.com.</small>									
Relinquished by Commercial Carrier: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other Temperature upon receipt: 3.6 °C									

January 21, 2021

Matthew Pelton
ARCADIS
5420 Wade Park Blvd
Suite 350
Raleigh, NC 27607

RE: Project: HYDROPUNCH REMEDIAL
Pace Project No.: 92516618

Dear Matthew Pelton:

Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Chris Bagley, Arcadis
Kristen Lowder, Arcadis
Ray Penley, General Electric
Bob Witsell



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: HYDROPUNCH REMEDIAL
Pace Project No.: 92516618

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HYDROPUNCH REMEDIAL
Pace Project No.: 92516618

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92516618001	HP-03 (17-27)	EPA 8260D	PM1	8	PASI-C
92516618002	HP-05 (20-35)	EPA 8260D	BSH	8	PASI-C
92516618003	HP-07 (22-37)	EPA 8260D	PM1	8	PASI-C
92516618004	HP-10 (39-54)	EPA 8260D	PM1	8	PASI-C
92516618005	TRIP BLANK	EPA 8260D	PM1	8	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92516618

Sample: HP-03 (17-27)		Lab ID: 92516618001	Collected: 01/13/21 13:29	Received: 01/14/21 13:44	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	100	100			01/21/21 11:59	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	100	100			01/21/21 11:59	156-59-2
Tetrachloroethene	12800	ug/L	100	100			01/21/21 11:59	127-18-4
Trichloroethene	2150	ug/L	100	100			01/21/21 11:59	79-01-6
Vinyl chloride	ND	ug/L	100	100			01/21/21 11:59	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	100			01/21/21 11:59	460-00-4
1,2-Dichloroethane-d4 (S)	93	%	70-130	100			01/21/21 11:59	17060-07-0
Toluene-d8 (S)	95	%	70-130	100			01/21/21 11:59	2037-26-5
Sample: HP-05 (20-35)		Lab ID: 92516618002	Collected: 01/13/21 13:51	Received: 01/14/21 13:44	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	50.0	50			01/19/21 20:55	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	50.0	50			01/19/21 20:55	156-59-2
Tetrachloroethene	5400	ug/L	50.0	50			01/19/21 20:55	127-18-4
Trichloroethene	350	ug/L	50.0	50			01/19/21 20:55	79-01-6
Vinyl chloride	ND	ug/L	50.0	50			01/19/21 20:55	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	50			01/19/21 20:55	460-00-4
1,2-Dichloroethane-d4 (S)	94	%	70-130	50			01/19/21 20:55	17060-07-0
Toluene-d8 (S)	94	%	70-130	50			01/19/21 20:55	2037-26-5
Sample: HP-07 (22-37)		Lab ID: 92516618003	Collected: 01/13/21 14:15	Received: 01/14/21 13:44	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	5.0	5			01/21/21 11:23	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	5.0	5			01/21/21 11:23	156-59-2
Tetrachloroethene	514	ug/L	5.0	5			01/21/21 11:23	127-18-4
Trichloroethene	256	ug/L	5.0	5			01/21/21 11:23	79-01-6
Vinyl chloride	ND	ug/L	5.0	5			01/21/21 11:23	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	5			01/21/21 11:23	460-00-4
1,2-Dichloroethane-d4 (S)	93	%	70-130	5			01/21/21 11:23	17060-07-0
Toluene-d8 (S)	96	%	70-130	5			01/21/21 11:23	2037-26-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HYDROPUNCH REMEDIAL
Pace Project No.: 92516618

Sample: HP-10 (39-54)	Lab ID: 92516618004	Collected: 01/13/21 16:20	Received: 01/14/21 13:44	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/18/21 22:29	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/18/21 22:29	156-59-2
Tetrachloroethene	7.3	ug/L	1.0	1			01/18/21 22:29	127-18-4
Trichloroethene	1.7	ug/L	1.0	1			01/18/21 22:29	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/18/21 22:29	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1			01/18/21 22:29	460-00-4
1,2-Dichloroethane-d4 (S)	98	%	70-130	1			01/18/21 22:29	17060-07-0
Toluene-d8 (S)	103	%	70-130	1			01/18/21 22:29	2037-26-5
<hr/>								
Sample: TRIP BLANK	Lab ID: 92516618005	Collected: 01/14/21 00:00	Received: 01/14/21 13:44	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			01/18/21 21:01	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			01/18/21 21:01	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			01/18/21 21:01	127-18-4
Trichloroethene	ND	ug/L	1.0	1			01/18/21 21:01	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			01/18/21 21:01	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	78	%	70-130	1			01/18/21 21:01	460-00-4
1,2-Dichloroethane-d4 (S)	99	%	70-130	1			01/18/21 21:01	17060-07-0
Toluene-d8 (S)	104	%	70-130	1			01/18/21 21:01	2037-26-5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92516618

QC Batch: 593423

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92516618004, 92516618005

METHOD BLANK: 3131752

Matrix: Water

Associated Lab Samples: 92516618004, 92516618005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	01/18/21 16:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/18/21 16:16	
Tetrachloroethene	ug/L	ND	1.0	01/18/21 16:16	
Trichloroethene	ug/L	ND	1.0	01/18/21 16:16	
Vinyl chloride	ug/L	ND	1.0	01/18/21 16:16	
1,2-Dichloroethane-d4 (S)	%	100	70-130	01/18/21 16:16	
4-Bromofluorobenzene (S)	%	103	70-130	01/18/21 16:16	
Toluene-d8 (S)	%	104	70-130	01/18/21 16:16	

LABORATORY CONTROL SAMPLE: 3131753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	46.4	93	70-132	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	47.0	94	70-130	
Trichloroethene	ug/L	50	50.8	102	70-130	
Vinyl chloride	ug/L	50	46.8	94	59-142	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3131754

3131755

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92516484026	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	500	500	585	594	117	119	70-158	2		
cis-1,2-Dichloroethene	ug/L	ND	500	500	535	530	107	106	67-148	1		
Tetrachloroethene	ug/L	ND	500	500	574	562	115	112	70-139	2		
Trichloroethene	ug/L	ND	500	500	598	602	120	120	70-149	1		
Vinyl chloride	ug/L	ND	500	500	446	436	89	87	55-172	2		
1,2-Dichloroethane-d4 (S)	%							94	93	70-130		
4-Bromofluorobenzene (S)	%							97	97	70-130		
Toluene-d8 (S)	%							97	98	70-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92516618

QC Batch: 593501

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92516618002

METHOD BLANK: 3132078

Matrix: Water

Associated Lab Samples: 92516618002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	01/19/21 16:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/19/21 16:41	
Tetrachloroethene	ug/L	ND	1.0	01/19/21 16:41	
Trichloroethene	ug/L	ND	1.0	01/19/21 16:41	
Vinyl chloride	ug/L	ND	1.0	01/19/21 16:41	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/19/21 16:41	
4-Bromofluorobenzene (S)	%	100	70-130	01/19/21 16:41	
Toluene-d8 (S)	%	95	70-130	01/19/21 16:41	

LABORATORY CONTROL SAMPLE: 3132079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	44.1	88	70-132	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	70-130	
Tetrachloroethene	ug/L	50	54.7	109	70-130	
Trichloroethene	ug/L	50	49.7	99	70-130	
Vinyl chloride	ug/L	50	39.2	78	59-142	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3132080 3132081

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92516407001	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	500	500	441	486	88	97	70-158	10		
cis-1,2-Dichloroethene	ug/L	ND	500	500	441	506	88	101	67-148	14 v3		
Tetrachloroethene	ug/L	ND	500	500	532	444	106	89	70-139	18		
Trichloroethene	ug/L	ND	500	500	510	505	102	101	70-149	1		
Vinyl chloride	ug/L	ND	500	500	384	420	77	84	55-172	9		
1,2-Dichloroethane-d4 (S)	%							90	96	70-130		
4-Bromofluorobenzene (S)	%							102	100	70-130		
Toluene-d8 (S)	%							95	93	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92516618

QC Batch: 594145

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92516618001, 92516618003

METHOD BLANK: 3135033

Matrix: Water

Associated Lab Samples: 92516618001, 92516618003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	01/21/21 02:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/21/21 02:37	
Tetrachloroethene	ug/L	ND	1.0	01/21/21 02:37	
Trichloroethene	ug/L	ND	1.0	01/21/21 02:37	
Vinyl chloride	ug/L	ND	1.0	01/21/21 02:37	
1,2-Dichloroethane-d4 (S)	%	91	70-130	01/21/21 02:37	
4-Bromofluorobenzene (S)	%	98	70-130	01/21/21 02:37	
Toluene-d8 (S)	%	96	70-130	01/21/21 02:37	

LABORATORY CONTROL SAMPLE: 3135034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	53.5	107	70-132	
cis-1,2-Dichloroethene	ug/L	50	48.5	97	70-130	
Tetrachloroethene	ug/L	50	52.4	105	70-130	
Trichloroethene	ug/L	50	54.6	109	70-130	
Vinyl chloride	ug/L	50	44.3	89	59-142	
1,2-Dichloroethane-d4 (S)	%			84	70-130	
4-Bromofluorobenzene (S)	%			92	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3135035 3135036

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92517548001	Result	Conc.	Conc.	Result	% Rec	Result	% Rec			
1,1-Dichloroethene	ug/L	ND	20	20	24.2	22.1	121	111	70-158	9		
cis-1,2-Dichloroethene	ug/L	9.2	20	20	30.9	28.9	108	99	67-148	7		
Tetrachloroethene	ug/L	21.3	20	20	46.2	43.7	124	112	70-139	6		
Trichloroethene	ug/L	4.7	20	20	28.8	27.0	121	111	70-149	7		
Vinyl chloride	ug/L	ND	20	20	20.4	18.4	102	92	55-172	11		
1,2-Dichloroethane-d4 (S)	%						92	90	70-130			
4-Bromofluorobenzene (S)	%						95	96	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92516618

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92516618

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92516618001	HP-03 (17-27)	EPA 8260D	594145		
92516618002	HP-05 (20-35)	EPA 8260D	593501		
92516618003	HP-07 (22-37)	EPA 8260D	594145		
92516618004	HP-10 (39-54)	EPA 8260D	593423		
92516618005	TRIP BLANK	EPA 8260D	593423		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Arcadis

Project #:

WO# : 92516618



92516618

Courier:
 Commercial Fed Ex UPS USPS Client
 Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:
 IR Gun ID: 92T064 Type of Ice: Wet Blue None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A 3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A 4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 5.
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 6.
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A 8.
Sample Labels Match COC?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A 9.
-Includes Date/Time/ID/Analysis Matrix:	<u>WT</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A 10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Additional sample not on COC "Trip Blank" 3 DG9H

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 2 of 2
Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

Project #

WO# : 92516618

PM: KLH1 Due Date: 01/21/21

CLIENT: 92-ARCADIS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

February 11, 2021

Matthew Pelton
ARCADIS
5420 Wade Park Blvd
Suite 350
Raleigh, NC 27607

RE: Project: HYDROPUNCH REMEDIAL
Pace Project No.: 92520439

Dear Matthew Pelton:

Enclosed are the analytical results for sample(s) received by the laboratory on February 04, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Chris Bagley, Arcadis
Kristen Lowder, Arcadis
Ray Penley, General Electric
Bob Witsell



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HYDROPUNCH REMEDIAL
Pace Project No.: 92520439

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HYDROPUNCH REMEDIAL
Pace Project No.: 92520439

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92520439001	HP-01 (5-9)	EPA 8260D	BSH	8	PASI-C
92520439002	HP-01 (10-14)	EPA 8260D	BSH	8	PASI-C
92520439003	HP-01 (14-19)	EPA 8260D	BSH	8	PASI-C
92520439004	HP-01 (19-23.5)	EPA 8260D	BSH	8	PASI-C
92520439005	DUP-02	EPA 8260D	BSH	8	PASI-C
92520439006	HP-02 (7-11)	EPA 8260D	NSCQ	8	PASI-C
92520439007	HP-02 (11-15)	EPA 8260D	PM1	8	PASI-C
92520439008	HP-03 (8-12)	EPA 8260D	PM1	8	PASI-C
92520439009	HP-03 (13-17)	EPA 8260D	BSH	8	PASI-C
92520439010	HP-03 (18-22)	EPA 8260D	BSH	8	PASI-C
92520439011	HP-04 (9-13)	EPA 8260D	PM1	8	PASI-C
92520439012	HP-04 (14-18)	EPA 8260D	BSH	8	PASI-C
92520439013	HP-04 (19-23)	EPA 8260D	BSH	8	PASI-C
92520439014	HP-05 (8-12)	EPA 8260D	NSCQ	8	PASI-C
92520439015	HP-05 (13-17)	EPA 8260D	PM1	8	PASI-C
92520439016	HP-05 (18-22)	EPA 8260D	BSH	8	PASI-C
92520439017	TRIP BLANK	EPA 8260D	CL	8	PASI-C
92520439018	HP-01A (11-15)	EPA 8260D	NSCQ	8	PASI-C
92520439019	HP-01A (16-20)	EPA 8260D	NSCQ	8	PASI-C
92520439020	HP-01A (21-25)	EPA 8260D	NSCQ	8	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

Sample: HP-01 (5-9)		Lab ID: 92520439001	Collected: 02/01/21 12:25	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	1.0	1			02/09/21 03:07	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/09/21 03:07	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			02/09/21 03:07	127-18-4
Trichloroethene	ND	ug/L	1.0	1			02/09/21 03:07	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/09/21 03:07	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1			02/09/21 03:07	460-00-4
1,2-Dichloroethane-d4 (S)	103	%	70-130	1			02/09/21 03:07	17060-07-0
Toluene-d8 (S)	99	%	70-130	1			02/09/21 03:07	2037-26-5
Sample: HP-01 (10-14)		Lab ID: 92520439002	Collected: 02/01/21 13:50	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	1.0	1			02/09/21 03:25	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/09/21 03:25	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			02/09/21 03:25	127-18-4
Trichloroethene	ND	ug/L	1.0	1			02/09/21 03:25	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/09/21 03:25	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1			02/09/21 03:25	460-00-4
1,2-Dichloroethane-d4 (S)	103	%	70-130	1			02/09/21 03:25	17060-07-0
Toluene-d8 (S)	98	%	70-130	1			02/09/21 03:25	2037-26-5
Sample: HP-01 (14-19)		Lab ID: 92520439003	Collected: 02/01/21 14:10	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	1.0	1			02/09/21 03:44	75-35-4
cis-1,2-Dichloroethene	22.6	ug/L	1.0	1			02/09/21 03:44	156-59-2
Tetrachloroethene	21.6	ug/L	1.0	1			02/09/21 03:44	127-18-4
Trichloroethene	64.9	ug/L	1.0	1			02/09/21 03:44	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/09/21 03:44	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1			02/09/21 03:44	460-00-4
1,2-Dichloroethane-d4 (S)	103	%	70-130	1			02/09/21 03:44	17060-07-0
Toluene-d8 (S)	97	%	70-130	1			02/09/21 03:44	2037-26-5

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ANALYTICAL RESULTS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

Sample: HP-01 (19-23.5)	Lab ID: 92520439004	Collected: 02/01/21 14:35	Received: 02/04/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/09/21 04:02	75-35-4
cis-1,2-Dichloroethene	29.2	ug/L	1.0	1			02/09/21 04:02	156-59-2
Tetrachloroethene	36.6	ug/L	1.0	1			02/09/21 04:02	127-18-4
Trichloroethene	99.7	ug/L	1.0	1			02/09/21 04:02	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/09/21 04:02	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1			02/09/21 04:02	460-00-4
1,2-Dichloroethane-d4 (S)	103	%	70-130	1			02/09/21 04:02	17060-07-0
Toluene-d8 (S)	96	%	70-130	1			02/09/21 04:02	2037-26-5
Sample: DUP-02	Lab ID: 92520439005	Collected: 02/01/21 00:00	Received: 02/04/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/09/21 04:20	75-35-4
cis-1,2-Dichloroethene	36.2	ug/L	1.0	1			02/09/21 04:20	156-59-2
Tetrachloroethene	40.8	ug/L	1.0	1			02/09/21 04:20	127-18-4
Trichloroethene	116	ug/L	1.0	1			02/09/21 04:20	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/09/21 04:20	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1			02/09/21 04:20	460-00-4
1,2-Dichloroethane-d4 (S)	104	%	70-130	1			02/09/21 04:20	17060-07-0
Toluene-d8 (S)	97	%	70-130	1			02/09/21 04:20	2037-26-5
Sample: HP-02 (7-11)	Lab ID: 92520439006	Collected: 02/01/21 17:20	Received: 02/04/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	25.0	25			02/11/21 15:39	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	25.0	25			02/11/21 15:39	156-59-2
Tetrachloroethene	4140	ug/L	25.0	25			02/11/21 15:39	127-18-4
Trichloroethene	1040	ug/L	25.0	25			02/11/21 15:39	79-01-6
Vinyl chloride	ND	ug/L	25.0	25			02/11/21 15:39	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	118	%	70-130	25			02/11/21 15:39	460-00-4
1,2-Dichloroethane-d4 (S)	108	%	70-130	25			02/11/21 15:39	17060-07-0
Toluene-d8 (S)	101	%	70-130	25			02/11/21 15:39	2037-26-5

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ANALYTICAL RESULTS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

Sample: HP-02 (11-15)		Lab ID: 92520439007	Collected: 02/01/21 17:40	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	100	100			02/11/21 16:02	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	100	100			02/11/21 16:02	156-59-2
Tetrachloroethene	16700	ug/L	100	100			02/11/21 16:02	127-18-4
Trichloroethene	3840	ug/L	100	100			02/11/21 16:02	79-01-6
Vinyl chloride	ND	ug/L	100	100			02/11/21 16:02	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	100			02/11/21 16:02	460-00-4
1,2-Dichloroethane-d4 (S)	100	%	70-130	100			02/11/21 16:02	17060-07-0
Toluene-d8 (S)	97	%	70-130	100			02/11/21 16:02	2037-26-5
Sample: HP-03 (8-12)		Lab ID: 92520439008	Collected: 02/02/21 10:55	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	5.0	5			02/11/21 14:49	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	5.0	5			02/11/21 14:49	156-59-2
Tetrachloroethene	605	ug/L	5.0	5			02/11/21 14:49	127-18-4
Trichloroethene	105	ug/L	5.0	5			02/11/21 14:49	79-01-6
Vinyl chloride	ND	ug/L	5.0	5			02/11/21 14:49	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	5			02/11/21 14:49	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	5			02/11/21 14:49	17060-07-0
Toluene-d8 (S)	98	%	70-130	5			02/11/21 14:49	2037-26-5
Sample: HP-03 (13-17)		Lab ID: 92520439009	Collected: 02/02/21 11:15	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	200	200			02/11/21 05:18	75-35-4
cis-1,2-Dichloroethene	221	ug/L	200	200			02/11/21 05:18	156-59-2
Tetrachloroethene	22200	ug/L	200	200			02/11/21 05:18	127-18-4
Trichloroethene	5200	ug/L	200	200			02/11/21 05:18	79-01-6
Vinyl chloride	ND	ug/L	200	200			02/11/21 05:18	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	200			02/11/21 05:18	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	200			02/11/21 05:18	17060-07-0
Toluene-d8 (S)	98	%	70-130	200			02/11/21 05:18	2037-26-5

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ANALYTICAL RESULTS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

Sample: HP-03 (18-22)		Lab ID: 92520439010	Collected: 02/02/21 11:35	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	200	200		02/11/21 05:54	75-35-4	
cis-1,2-Dichloroethene	222	ug/L	200	200		02/11/21 05:54	156-59-2	
Tetrachloroethene	22100	ug/L	200	200		02/11/21 05:54	127-18-4	
Trichloroethene	5210	ug/L	200	200		02/11/21 05:54	79-01-6	
Vinyl chloride	ND	ug/L	200	200		02/11/21 05:54	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	200		02/11/21 05:54	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	200		02/11/21 05:54	17060-07-0	
Toluene-d8 (S)	97	%	70-130	200		02/11/21 05:54	2037-26-5	
Sample: HP-04 (9-13)		Lab ID: 92520439011	Collected: 02/02/21 14:05	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	5.0	5		02/11/21 15:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		02/11/21 15:07	156-59-2	
Tetrachloroethene	586	ug/L	5.0	5		02/11/21 15:07	127-18-4	
Trichloroethene	79.7	ug/L	5.0	5		02/11/21 15:07	79-01-6	
Vinyl chloride	ND	ug/L	5.0	5		02/11/21 15:07	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	5		02/11/21 15:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	5		02/11/21 15:07	17060-07-0	
Toluene-d8 (S)	98	%	70-130	5		02/11/21 15:07	2037-26-5	
Sample: HP-04 (14-18)		Lab ID: 92520439012	Collected: 02/02/21 14:25	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	20.0	20		02/11/21 03:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	20.0	20		02/11/21 03:29	156-59-2	
Tetrachloroethene	2210	ug/L	20.0	20		02/11/21 03:29	127-18-4	
Trichloroethene	383	ug/L	20.0	20		02/11/21 03:29	79-01-6	
Vinyl chloride	ND	ug/L	20.0	20		02/11/21 03:29	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	20		02/11/21 03:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	20		02/11/21 03:29	17060-07-0	
Toluene-d8 (S)	98	%	70-130	20		02/11/21 03:29	2037-26-5	

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ANALYTICAL RESULTS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

Sample: HP-04 (19-23)		Lab ID: 92520439013	Collected: 02/02/21 14:45	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	100	100		02/11/21 04:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	100	100		02/11/21 04:42	156-59-2	
Tetrachloroethene	15100	ug/L	100	100		02/11/21 04:42	127-18-4	M1
Trichloroethene	2710	ug/L	100	100		02/11/21 04:42	79-01-6	
Vinyl chloride	ND	ug/L	100	100		02/11/21 04:42	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	100		02/11/21 04:42	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	100		02/11/21 04:42	17060-07-0	
Toluene-d8 (S)	96	%	70-130	100		02/11/21 04:42	2037-26-5	
Sample: HP-05 (8-12)		Lab ID: 92520439014	Collected: 02/02/21 16:15	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	1.0	1		02/11/21 14:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/11/21 14:27	156-59-2	
Tetrachloroethene	50.8	ug/L	1.0	1		02/11/21 14:27	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		02/11/21 14:27	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		02/11/21 14:27	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	117	%	70-130	1		02/11/21 14:27	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		02/11/21 14:27	17060-07-0	
Toluene-d8 (S)	111	%	70-130	1		02/11/21 14:27	2037-26-5	
Sample: HP-05 (13-17)		Lab ID: 92520439015	Collected: 02/02/21 16:30	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	5.0	5		02/11/21 15:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		02/11/21 15:26	156-59-2	
Tetrachloroethene	554	ug/L	5.0	5		02/11/21 15:26	127-18-4	
Trichloroethene	45.6	ug/L	5.0	5		02/11/21 15:26	79-01-6	
Vinyl chloride	ND	ug/L	5.0	5		02/11/21 15:26	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	5		02/11/21 15:26	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	5		02/11/21 15:26	17060-07-0	
Toluene-d8 (S)	98	%	70-130	5		02/11/21 15:26	2037-26-5	

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ANALYTICAL RESULTS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

Sample: HP-05 (18-22)		Lab ID: 92520439016	Collected: 02/02/21 16:45	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	50.0	50		02/11/21 04:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		02/11/21 04:06	156-59-2	
Tetrachloroethene	9680	ug/L	50.0	50		02/11/21 04:06	127-18-4	
Trichloroethene	1330	ug/L	50.0	50		02/11/21 04:06	79-01-6	
Vinyl chloride	ND	ug/L	50.0	50		02/11/21 04:06	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	50		02/11/21 04:06	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	50		02/11/21 04:06	17060-07-0	
Toluene-d8 (S)	95	%	70-130	50		02/11/21 04:06	2037-26-5	
Sample: TRIP BLANK		Lab ID: 92520439017	Collected: 02/04/21 00:00	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	1.0	1		02/09/21 01:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/09/21 01:16	156-59-2	
Tetrachloroethene	ND	ug/L	1.0	1		02/09/21 01:16	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		02/09/21 01:16	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		02/09/21 01:16	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		02/09/21 01:16	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		02/09/21 01:16	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		02/09/21 01:16	2037-26-5	
Sample: HP-01A (11-15)		Lab ID: 92520439018	Collected: 02/03/21 14:55	Received: 02/04/21 15:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	1.0	1		02/11/21 14:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/11/21 14:45	156-59-2	
Tetrachloroethene	1.2	ug/L	1.0	1		02/11/21 14:45	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		02/11/21 14:45	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		02/11/21 14:45	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	111	%	70-130	1		02/11/21 14:45	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		02/11/21 14:45	17060-07-0	
Toluene-d8 (S)	115	%	70-130	1		02/11/21 14:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

Sample: HP-01A (16-20)	Lab ID: 92520439019	Collected: 02/03/21 15:10	Received: 02/04/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/11/21 15:03	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/11/21 15:03	156-59-2
Tetrachloroethene	1.1	ug/L	1.0	1			02/11/21 15:03	127-18-4
Trichloroethene	ND	ug/L	1.0	1			02/11/21 15:03	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/11/21 15:03	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	114	%	70-130	1			02/11/21 15:03	460-00-4
1,2-Dichloroethane-d4 (S)	105	%	70-130	1			02/11/21 15:03	17060-07-0
Toluene-d8 (S)	107	%	70-130	1			02/11/21 15:03	2037-26-5
Sample: HP-01A (21-25)	Lab ID: 92520439020	Collected: 02/03/21 15:30	Received: 02/04/21 15:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/11/21 15:21	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/11/21 15:21	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			02/11/21 15:21	127-18-4
Trichloroethene	ND	ug/L	1.0	1			02/11/21 15:21	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/11/21 15:21	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	1			02/11/21 15:21	460-00-4
1,2-Dichloroethane-d4 (S)	107	%	70-130	1			02/11/21 15:21	17060-07-0
Toluene-d8 (S)	107	%	70-130	1			02/11/21 15:21	2037-26-5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

QC Batch: 598106 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92520439001, 92520439002, 92520439003, 92520439004, 92520439005

METHOD BLANK: 3153857 Matrix: Water

Associated Lab Samples: 92520439001, 92520439002, 92520439003, 92520439004, 92520439005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/09/21 00:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/09/21 00:24	
Tetrachloroethene	ug/L	ND	1.0	02/09/21 00:24	
Trichloroethene	ug/L	ND	1.0	02/09/21 00:24	
Vinyl chloride	ug/L	ND	1.0	02/09/21 00:24	
1,2-Dichloroethane-d4 (S)	%	102	70-130	02/09/21 00:24	
4-Bromofluorobenzene (S)	%	103	70-130	02/09/21 00:24	
Toluene-d8 (S)	%	98	70-130	02/09/21 00:24	

LABORATORY CONTROL SAMPLE: 3153858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	58.6	117	70-132	
cis-1,2-Dichloroethene	ug/L	50	55.4	111	70-130	
Tetrachloroethene	ug/L	50	52.7	105	70-130	
Trichloroethene	ug/L	50	55.2	110	70-130	
Vinyl chloride	ug/L	50	53.4	107	59-142	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3153859 3153860

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92520431002	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	20	20	24.6	24.0	123	120	70-158	2		
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.5	110	111	67-148	1		
Tetrachloroethene	ug/L	ND	20	20	22.1	21.4	111	107	70-139	3		
Trichloroethene	ug/L	ND	20	20	22.7	22.5	114	112	70-149	1		
Vinyl chloride	ug/L	ND	20	20	22.1	21.8	110	109	55-172	1		
1,2-Dichloroethane-d4 (S)	%						101	100	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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QUALITY CONTROL DATA

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

QC Batch: 598504

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92520439017

METHOD BLANK: 3155688

Matrix: Water

Associated Lab Samples: 92520439017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/09/21 00:58	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/09/21 00:58	
Tetrachloroethene	ug/L	ND	1.0	02/09/21 00:58	
Trichloroethene	ug/L	ND	1.0	02/09/21 00:58	
Vinyl chloride	ug/L	ND	1.0	02/09/21 00:58	
1,2-Dichloroethane-d4 (S)	%	108	70-130	02/09/21 00:58	
4-Bromofluorobenzene (S)	%	97	70-130	02/09/21 00:58	
Toluene-d8 (S)	%	104	70-130	02/09/21 00:58	

LABORATORY CONTROL SAMPLE: 3155689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	56.3	113	70-132	
cis-1,2-Dichloroethene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	55.0	110	70-130	
Trichloroethene	ug/L	50	49.6	99	70-130	
Vinyl chloride	ug/L	50	48.8	98	59-142	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			91	70-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3155690 3155691

Parameter	Units	MS Spike		MSD Spike		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	RPD	Qual
		92520706016	Result	Conc.	Conc.							
1,1-Dichloroethene	ug/L	ND	20	20	27.3	26.7	136	133	70-158	2		
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.9	23.6	120	118	67-148	1		
Tetrachloroethene	ug/L	ND	20	20	24.5	26.3	123	132	70-139	7		
Trichloroethene	ug/L	ND	20	20	22.8	20.9	114	104	70-149	9		
Vinyl chloride	ug/L	ND	20	20	22.0	22.7	110	113	55-172	3 v1		
1,2-Dichloroethane-d4 (S)	%						106	106	70-130			
4-Bromofluorobenzene (S)	%						101	103	70-130			
Toluene-d8 (S)	%						99	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HYDROPUNCH REMEDIAL
Pace Project No.: 92520439

QC Batch:	599041	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV Low Level Landfill
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92520439009, 92520439010, 92520439012, 92520439013, 92520439016		

METHOD BLANK: 3158007 Matrix: Water

Associated Lab Samples: 92520439009, 92520439010, 92520439012, 92520439013, 92520439016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/10/21 23:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/10/21 23:52	
Tetrachloroethene	ug/L	ND	1.0	02/10/21 23:52	
Trichloroethene	ug/L	ND	1.0	02/10/21 23:52	
Vinyl chloride	ug/L	ND	1.0	02/10/21 23:52	
1,2-Dichloroethane-d4 (S)	%	101	70-130	02/10/21 23:52	
4-Bromofluorobenzene (S)	%	103	70-130	02/10/21 23:52	
Toluene-d8 (S)	%	99	70-130	02/10/21 23:52	

LABORATORY CONTROL SAMPLE: 3158008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	51.4	103	70-132	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	70-130	
Tetrachloroethene	ug/L	50	46.3	93	70-130	
Trichloroethene	ug/L	50	48.2	96	70-130	
Vinyl chloride	ug/L	50	46.8	94	59-142	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3158009 3158010

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92520439013	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	2000	2000	2340	2220	117	111	70-158	5		
cis-1,2-Dichloroethene	ug/L	ND	2000	2000	2190	2080	107	101	67-148	5		
Tetrachloroethene	ug/L	15100	2000	2000	17600	21200	126	305	70-139	18 E,M1		
Trichloroethene	ug/L	2710	2000	2000	4850	5470	107	138	70-149	12		
Vinyl chloride	ug/L	ND	2000	2000	2050	1990	102	99	55-172	3		
1,2-Dichloroethane-d4 (S)	%						102	103	70-130			
4-Bromofluorobenzene (S)	%						100	101	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

QC Batch: 599412 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92520439006, 92520439014, 92520439018, 92520439019, 92520439020

METHOD BLANK: 3160164 Matrix: Water

Associated Lab Samples: 92520439006, 92520439014, 92520439018, 92520439019, 92520439020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/11/21 14:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/11/21 14:10	
Tetrachloroethene	ug/L	ND	1.0	02/11/21 14:10	
Trichloroethene	ug/L	ND	1.0	02/11/21 14:10	
Vinyl chloride	ug/L	ND	1.0	02/11/21 14:10	
1,2-Dichloroethane-d4 (S)	%	104	70-130	02/11/21 14:10	
4-Bromofluorobenzene (S)	%	116	70-130	02/11/21 14:10	
Toluene-d8 (S)	%	117	70-130	02/11/21 14:10	

LABORATORY CONTROL SAMPLE: 3160165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	53.3	107	70-132	
cis-1,2-Dichloroethene	ug/L	50	44.6	89	70-130	
Tetrachloroethene	ug/L	50	48.1	96	70-130	
Trichloroethene	ug/L	50	45.3	91	70-130	
Vinyl chloride	ug/L	50	44.7	89	59-142	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			91	70-130	
Toluene-d8 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3160166 3160167

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92520439006	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	500	500	673	697	135	139	70-158	4		
cis-1,2-Dichloroethene	ug/L	ND	500	500	608	662	120	131	67-148	8		
Tetrachloroethene	ug/L	4140	500	500	4730	4560	117	83	70-139	4		
Trichloroethene	ug/L	1040	500	500	1630	1650	118	123	70-149	2		
Vinyl chloride	ug/L	ND	500	500	525	564	105	113	55-172	7		
1,2-Dichloroethane-d4 (S)	%						108	104	70-130			
4-Bromofluorobenzene (S)	%						108	107	70-130			
Toluene-d8 (S)	%						119	118	70-130			

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QUALITY CONTROL DATA

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

QC Batch: 599416 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92520439007, 92520439008, 92520439011, 92520439015

METHOD BLANK: 3160178

Matrix: Water

Associated Lab Samples: 92520439007, 92520439008, 92520439011, 92520439015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/11/21 14:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/11/21 14:31	
Tetrachloroethene	ug/L	ND	1.0	02/11/21 14:31	
Trichloroethene	ug/L	ND	1.0	02/11/21 14:31	
Vinyl chloride	ug/L	ND	1.0	02/11/21 14:31	
1,2-Dichloroethane-d4 (S)	%	78	70-130	02/11/21 14:31	
4-Bromofluorobenzene (S)	%	107	70-130	02/11/21 14:31	
Toluene-d8 (S)	%	98	70-130	02/11/21 14:31	

LABORATORY CONTROL SAMPLE: 3160179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	53.2	106	70-132	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	70-130	
Tetrachloroethene	ug/L	50	47.6	95	70-130	
Trichloroethene	ug/L	50	50.6	101	70-130	
Vinyl chloride	ug/L	50	50.7	101	59-142	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3160180 3160181

Parameter	Units	MS Spike		MSD Spike		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	RPD	Qual
		92520439007	Result	Conc.	Conc.							
1,1-Dichloroethene	ug/L	ND	2000	2000	2680	2410	134	120	70-158	10		
cis-1,2-Dichloroethene	ug/L	ND	2000	2000	2370	2180	117	107	67-148	9		
Tetrachloroethene	ug/L	16700	2000	2000	19000	18600	117	95	70-139	2		
Trichloroethene	ug/L	3840	2000	2000	6360	6150	126	115	70-149	3		
Vinyl chloride	ug/L	ND	2000	2000	2570	2320	128	116	55-172	10		
1,2-Dichloroethane-d4 (S)	%						100	101	70-130			
4-Bromofluorobenzene (S)	%						101	101	70-130			
Toluene-d8 (S)	%						97	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: HYDROPUNCH REMEDIAL

Pace Project No.: 92520439

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HYDROPUNCH REMEDIAL
Pace Project No.: 92520439

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92520439001	HP-01 (5-9)	EPA 8260D	598106		
92520439002	HP-01 (10-14)	EPA 8260D	598106		
92520439003	HP-01 (14-19)	EPA 8260D	598106		
92520439004	HP-01 (19-23.5)	EPA 8260D	598106		
92520439005	DUP-02	EPA 8260D	598106		
92520439006	HP-02 (7-11)	EPA 8260D	599412		
92520439007	HP-02 (11-15)	EPA 8260D	599416		
92520439008	HP-03 (8-12)	EPA 8260D	599416		
92520439009	HP-03 (13-17)	EPA 8260D	599041		
92520439010	HP-03 (18-22)	EPA 8260D	599041		
92520439011	HP-04 (9-13)	EPA 8260D	599416		
92520439012	HP-04 (14-18)	EPA 8260D	599041		
92520439013	HP-04 (19-23)	EPA 8260D	599041		
92520439014	HP-05 (8-12)	EPA 8260D	599412		
92520439015	HP-05 (13-17)	EPA 8260D	599416		
92520439016	HP-05 (18-22)	EPA 8260D	599041		
92520439017	TRIP BLANK	EPA 8260D	598504		
92520439018	HP-01A (11-15)	EPA 8260D	599412		
92520439019	HP-01A (16-20)	EPA 8260D	599412		
92520439020	HP-01A (21-25)	EPA 8260D	599412		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville Sample Condition
Upon Receipt

Client Name:

Arcabis

Project #:

WO# : 92520439



92520439

Courier:
 Fed Ex UPS USPS Client
 Commercial Pace Other: _____Custody Seal Present? Yes No Seals Intact? Yes NoDate/Initials Person Examining Contents: ZT
02/08/21Packing Material: Bubble Wrap Bubble Bags None OtherBiological Tissue Frozen?
 Yes No N/AThermometer: IR Gun ID: 92T064 Type of Ice: Wet Blue NoneCooler Temp: 2.6 Correction Factor: 2.5 Add/Subtract (°C) -0.1

Temp should be above Freezing to 6°C

 Samples out of temp criteria. Samples on ice, cooling process has begunCooler Temp Corrected (°C): 2.5USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No Yes No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	WT	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

Project #

WO# : 92520439

PM: KLH1 Due Date: 02/11/21

CLIENT: 92-ARCADIS

1	Item #:	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)
2		BP3U-250 mL Plastic Unpreserved (N/A)
3		BP2U-500 mL Plastic Unpreserved (N/A)
4		BP1U-1 liter Plastic Unpreserved (N/A)
5		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)
6		BP3N-250 mL plastic HNO3 (pH < 2)
7		BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)
8		BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)
9		W/GFU-Wide-mouthed Glass jar Unpreserved
10		AG1U-1 liter Amber HCl (pH < 2)
11		AG3U-250 mL Amber Unpreserved (N/A) (Cl-)
12		AG1S-1 liter Amber H2SO4 (pH < 2)
		AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)
		DG9H-40 mL VOA HCl (N/A)
		VG9T-40 mL VOA Na2S2O3 (N/A)
		VG9U-40 mL VOA Unp (N/A)
		DG9P-40 mL VOA H3PO4 (N/A)
		VOAK (5 vials per kit)-5035 kit (N/A)
		V/GK (5 vials per kit)-VPH/GaS kit (N/A)
		SPST-125 mL Sterile Plastic (N/A - lab)
		SP2T-250 mL Sterile Plastic (N/A - lab)
		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)
		AGDU-200 mL Amber Unpreserved vials (N/A)
		VSGU-20 mL Schiltillation vials (N/A)
		DG9U-40 mL Amber Unpreserved vials (N/A)

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2 U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFL-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber HCl (pH < 2)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na252O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DE9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-SO45 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved vials (N/A)	VS6U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Arcadis	Report To:	Copy To: CHEMICAL TANKER TRAILER RECOVERY	Attention:	
Address:	1228 Commerce St	Address:	CHEMICAL TANKER TRAILER RECOVERY	Company Name:	
Conover, NC 28613		Purchase Order #:		Address:	
Email: PA-TRAILER.RECOVERY@RCIADDRESS.COM		Project Name:		Pace Quote:	
Phone: 828-445-2307	Fax	Project #:	Hydropunch Remedial Investigation 30053008	Pace Project Manager:	kevin.herring@pacelabs.com
Requested Due Date:	STANDARD TAT	Pace Profile #:	10403	State / Location:	NC

ITEM #	SAMPLE ID				Preservatives	Analyses Test	Y/N	Requested Analysis Filtered (Y/N)																			
	MATRIX	Drinking Water	Code	Water					Waste water	Product	SL	WP	AR	OT	Ts												
	WATER	DIV	WT	WW	P	Oil	OL	WP	AR	OT	TS	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		
	START	COLLECTED	END																								
1	HP-01 (5-9)	WTG	-	-	2/1/21	1225	3																				
2	HP-01 (10-14)	WTG	-	-	2/1/21	1330	3																				
3	HP-01 (14-19)	WTG	-	-	2/1/21	1410	3																				
4	HP-01 (19-23-5)	WTG	-	-	2/1/21	1435	3																				
5	DUP-02	WTG	-	-	2/1/21	-	3																				
6	HP-02 (7-11)	WTG	-	-	2/1/21	1220	3																				
7	HP-02 (11-15)	WTG	-	-	2/1/21	1240	3																				
8	HP-03 (8-12)	WTG	-	-	2/1/21	1255	3																				
9	HP-03 (13-17)	WTG	-	-	2/1/21	1115	3																				
10	HP-03 (18-22)	WTG	-	-	2/1/21	1135	3																				
11	HP-04 (9-13)	WTG	-	-	2/1/21	1405	3																				
12	HP-04 (14-18)	WTG	-	-	2/1/21	1425	3																				
	ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS																			
		PLANT CREEK	2021-02-01	10:47 AM	PLANT CREEK	2021-02-01	10:50 AM																				
	TEMP in C																										
	Received on Ice (Y/N)																										
	Custody Sealed Cooler (Y/N)																										
	Samples Intact (Y/N)																										

CHAIN-OF-CUSTODY / Analytical Request Document

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

*Pace Analytical**
Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: Arcadis
Address: 1228 Commerce St., Suite 1050
Conover, NC 28613
Email: RayPenkey@arcadis.com
Phone: *Ray Penkey* Fax: *540-232-4420*

Report To: *Herrin@pace-labs.com*
Copy To: *Pace Lab 102*
Purchase Order #: *102*
Project Name: *2000 Annual GWA Monitoring*
Project #: *10403*
Pace Profile #: *10403*

Attention: Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pace-labs.com,
Pace Profile #: 10403

Regulatory Agency

State / Location

NC

Page : *2* Of *2* *100*

ITEM #	SAMPLE ID				MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	Preservatives	Requested Analysis Filtered (Y/N)													
	DATE	TIME	DATE	TIME					SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N		
1	NP-C61	(19-23)			WTG	-	2/2/21	1445	-	?												
2	HP-05	(8-12)			WTG	-	2/2/21	1615	3	3									✓			
3	HP-05	(13-17)			WTG	-	2/2/21	1630	3	3									✓			
4	HP-05	(18-22)			WTG	-	2/2/21	1645	3	3									✓			
5	TRIP BLANK				WTG	-	-	-	2	2									✓			
6	HP-OIA	(11-15)			WTG	-	2/3/21	1455	3	3									✓			
7	HP-OIA	(16-20)			WTG	-	2/3/21	1510	3	3									✓			
8	HP-OIA	(21-25)			WTG	-	2/3/21	1530	3	3									✓			
9																						
10																						
11																						
12																						
ADDITIONAL COMMENTS																						
RELINQUISHED BY / AFFILIATION									DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS								
<i>Ray Penkey</i> Pace Lab 2421/5/20																						
SAMPLE CONDITIONS																						
<i>TRIP BLANK</i>																						
TEMP in C																						
Received on ice (Y/N)																						
Custody Sealed Cooler (Y/N)																						
Samples Intact (Y/N)																						

SAMPLE NAME AND SIGNATURE

Ray Penkey

PRINT Name of SAMPLER:

Ray Penkey

SIGNATURE of SAMPLER:

Ray Penkey

DATE Signed:

2/4/21

February 16, 2021

Matthew Pelton
ARCADIS
5420 Wade Park Blvd
Suite 350
Raleigh, NC 27607

RE: Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521239

Dear Matthew Pelton:

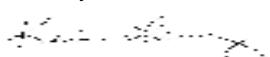
Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Chris Bagley, Arcadis
Kristen Lowder, Arcadis
Ray Penley, General Electric
Bob Witsell



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521239

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521239

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521239001	HP 01A	EPA 8260D	CL	8	PASI-C
92521239002	HP 01	EPA 8260D	CL	8	PASI-C
92521239003	HP 02	EPA 8260D	CL	8	PASI-C
92521239004	HP 04	EPA 8260D	CL	8	PASI-C
92521239005	HP 06	EPA 8260D	CL	8	PASI-C
92521239006	HP 08	EPA 8260D	CL	8	PASI-C
92521239007	HP 09	EPA 8260D	CL	8	PASI-C
92521239008	TRIP BLANK	EPA 8260D	BSH	8	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521239

Sample: HP 01A	Lab ID: 92521239001	Collected: 02/09/21 10:44	Received: 02/09/21 16:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	2.0	2			02/12/21 07:58	75-35-4
cis-1,2-Dichloroethene	7.5	ug/L	2.0	2			02/12/21 07:58	156-59-2
Tetrachloroethene	186	ug/L	2.0	2			02/12/21 07:58	127-18-4
Trichloroethene	91.3	ug/L	2.0	2			02/12/21 07:58	79-01-6
Vinyl chloride	ND	ug/L	2.0	2			02/12/21 07:58	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	2			02/12/21 07:58	460-00-4
1,2-Dichloroethane-d4 (S)	95	%	70-130	2			02/12/21 07:58	17060-07-0
Toluene-d8 (S)	101	%	70-130	2			02/12/21 07:58	2037-26-5
Sample: HP 01	Lab ID: 92521239002	Collected: 02/09/21 10:54	Received: 02/09/21 16:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	4.0	4			02/12/21 08:16	75-35-4
cis-1,2-Dichloroethene	58.3	ug/L	4.0	4			02/12/21 08:16	156-59-2
Tetrachloroethene	276	ug/L	4.0	4			02/12/21 08:16	127-18-4
Trichloroethene	378	ug/L	4.0	4			02/12/21 08:16	79-01-6
Vinyl chloride	ND	ug/L	4.0	4			02/12/21 08:16	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	4			02/12/21 08:16	460-00-4
1,2-Dichloroethane-d4 (S)	100	%	70-130	4			02/12/21 08:16	17060-07-0
Toluene-d8 (S)	99	%	70-130	4			02/12/21 08:16	2037-26-5
Sample: HP 02	Lab ID: 92521239003	Collected: 02/09/21 11:02	Received: 02/09/21 16:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	100	100			02/12/21 09:10	75-35-4
cis-1,2-Dichloroethene	171	ug/L	100	100			02/12/21 09:10	156-59-2
Tetrachloroethene	17300	ug/L	100	100			02/12/21 09:10	127-18-4
Trichloroethene	4640	ug/L	100	100			02/12/21 09:10	79-01-6
Vinyl chloride	ND	ug/L	100	100			02/12/21 09:10	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	100			02/12/21 09:10	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	100			02/12/21 09:10	17060-07-0
Toluene-d8 (S)	99	%	70-130	100			02/12/21 09:10	2037-26-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521239

Sample: HP 04	Lab ID: 92521239004	Collected: 02/09/21 11:20	Received: 02/09/21 16:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	100	100			02/12/21 09:46	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	100	100			02/12/21 09:46	156-59-2
Tetrachloroethene	10200	ug/L	100	100			02/12/21 09:46	127-18-4
Trichloroethene	1780	ug/L	100	100			02/12/21 09:46	79-01-6
Vinyl chloride	ND	ug/L	100	100			02/12/21 09:46	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	100			02/12/21 09:46	460-00-4
1,2-Dichloroethane-d4 (S)	101	%	70-130	100			02/12/21 09:46	17060-07-0
Toluene-d8 (S)	101	%	70-130	100			02/12/21 09:46	2037-26-5
Sample: HP 06	Lab ID: 92521239005	Collected: 02/09/21 13:06	Received: 02/09/21 16:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	12.5	12.5			02/12/21 08:34	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	12.5	12.5			02/12/21 08:34	156-59-2
Tetrachloroethene	1600	ug/L	12.5	12.5			02/12/21 08:34	127-18-4
Trichloroethene	280	ug/L	12.5	12.5			02/12/21 08:34	79-01-6
Vinyl chloride	ND	ug/L	12.5	12.5			02/12/21 08:34	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	12.5			02/12/21 08:34	460-00-4
1,2-Dichloroethane-d4 (S)	100	%	70-130	12.5			02/12/21 08:34	17060-07-0
Toluene-d8 (S)	101	%	70-130	12.5			02/12/21 08:34	2037-26-5
Sample: HP 08	Lab ID: 92521239006	Collected: 02/09/21 13:20	Received: 02/09/21 16:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	2.0	2			02/12/21 07:39	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	2.0	2			02/12/21 07:39	156-59-2
Tetrachloroethene	23.7	ug/L	2.0	2			02/12/21 07:39	127-18-4
Trichloroethene	214	ug/L	2.0	2			02/12/21 07:39	79-01-6
Vinyl chloride	ND	ug/L	2.0	2			02/12/21 07:39	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	2			02/12/21 07:39	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	2			02/12/21 07:39	17060-07-0
Toluene-d8 (S)	101	%	70-130	2			02/12/21 07:39	2037-26-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521239

Sample: HP 09	Lab ID: 92521239007	Collected: 02/09/21 13:30	Received: 02/09/21 16:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 07:21	75-35-4
cis-1,2-Dichloroethene	2.4	ug/L	1.0	1			02/12/21 07:21	156-59-2
Tetrachloroethene	14.0	ug/L	1.0	1			02/12/21 07:21	127-18-4
Trichloroethene	166	ug/L	1.0	1			02/12/21 07:21	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 07:21	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			02/12/21 07:21	460-00-4
1,2-Dichloroethane-d4 (S)	98	%	70-130	1			02/12/21 07:21	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			02/12/21 07:21	2037-26-5
<hr/>								
Sample: TRIP BLANK	Lab ID: 92521239008	Collected: 02/09/21 00:00	Received: 02/09/21 16:48	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/11/21 00:28	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/11/21 00:28	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			02/11/21 00:28	127-18-4
Trichloroethene	ND	ug/L	1.0	1			02/11/21 00:28	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/11/21 00:28	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1			02/11/21 00:28	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	1			02/11/21 00:28	17060-07-0
Toluene-d8 (S)	99	%	70-130	1			02/11/21 00:28	2037-26-5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH

Pace Project No.: 92521239

QC Batch: 599041

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92521239008

METHOD BLANK: 3158007

Matrix: Water

Associated Lab Samples: 92521239008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/10/21 23:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/10/21 23:52	
Tetrachloroethene	ug/L	ND	1.0	02/10/21 23:52	
Trichloroethene	ug/L	ND	1.0	02/10/21 23:52	
Vinyl chloride	ug/L	ND	1.0	02/10/21 23:52	
1,2-Dichloroethane-d4 (S)	%	101	70-130	02/10/21 23:52	
4-Bromofluorobenzene (S)	%	103	70-130	02/10/21 23:52	
Toluene-d8 (S)	%	99	70-130	02/10/21 23:52	

LABORATORY CONTROL SAMPLE: 3158008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	51.4	103	70-132	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	70-130	
Tetrachloroethene	ug/L	50	46.3	93	70-130	
Trichloroethene	ug/L	50	48.2	96	70-130	
Vinyl chloride	ug/L	50	46.8	94	59-142	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3158009 3158010

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92520439013	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	2000	2000	2340	2220	117	111	70-158	5		
cis-1,2-Dichloroethene	ug/L	ND	2000	2000	2190	2080	107	101	67-148	5		
Tetrachloroethene	ug/L	15100	2000	2000	17600	21200	126	305	70-139	18 E,M1		
Trichloroethene	ug/L	2710	2000	2000	4850	5470	107	138	70-149	12		
Vinyl chloride	ug/L	ND	2000	2000	2050	1990	102	99	55-172	3		
1,2-Dichloroethane-d4 (S)	%						102	103	70-130			
4-Bromofluorobenzene (S)	%						100	101	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH

Pace Project No.: 92521239

QC Batch: 599384 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92521239001, 92521239002, 92521239003, 92521239004, 92521239005, 92521239006, 92521239007

METHOD BLANK: 3159950 Matrix: Water

Associated Lab Samples: 92521239001, 92521239002, 92521239003, 92521239004, 92521239005, 92521239006, 92521239007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/11/21 23:48	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/11/21 23:48	
Tetrachloroethene	ug/L	ND	1.0	02/11/21 23:48	
Trichloroethene	ug/L	ND	1.0	02/11/21 23:48	
Vinyl chloride	ug/L	ND	1.0	02/11/21 23:48	
1,2-Dichloroethane-d4 (S)	%	100	70-130	02/11/21 23:48	
4-Bromofluorobenzene (S)	%	96	70-130	02/11/21 23:48	
Toluene-d8 (S)	%	100	70-130	02/11/21 23:48	

LABORATORY CONTROL SAMPLE: 3159951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	55.3	111	70-132	
cis-1,2-Dichloroethene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	48.8	98	70-130	
Trichloroethene	ug/L	50	50.5	101	70-130	
Vinyl chloride	ug/L	50	50.5	101	59-142	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3159952 3159953

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92521239005	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	250	250	322	305	129	122	70-158	5		
cis-1,2-Dichloroethene	ug/L	ND	250	250	293	284	113	110	67-148	3		
Tetrachloroethene	ug/L	1600	250	250	1930	1940	135	138	70-139	0		
Trichloroethene	ug/L	280	250	250	571	556	116	110	70-149	3		
Vinyl chloride	ug/L	ND	250	250	283	272	113	109	55-172	4		
1,2-Dichloroethane-d4 (S)	%						97	94	70-130			
4-Bromofluorobenzene (S)	%						99	99	70-130			
Toluene-d8 (S)	%						102	101	70-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GE HICKORY HYDROPUNCH

Pace Project No.: 92521239

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521239

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521239001	HP 01A	EPA 8260D	599384		
92521239002	HP 01	EPA 8260D	599384		
92521239003	HP 02	EPA 8260D	599384		
92521239004	HP 04	EPA 8260D	599384		
92521239005	HP 06	EPA 8260D	599384		
92521239006	HP 08	EPA 8260D	599384		
92521239007	HP 09	EPA 8260D	599384		
92521239008	TRIP BLANK	EPA 8260D	599041		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta

Sample Condition
Upon Receipt

Client Name:

Accadis

Project

Courier:
 Commercial Fed Ex UPS USPS Client
 Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: 92T064 Type of Ice: Wet Blue None

Correct Factor:
Cooler Temp: 4.7 Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	WT	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

WO# : 92521239



92521239

Date/Initials Person Examining Contents: 2-10-21
AMP



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2
Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92521239

PM: KLH1

Due Date: 02/16/21

CLIENT: 92-ARCADIS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A[DG3A]-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit) SO35 kit (N/A)	V/GK (3 vials per kit) VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

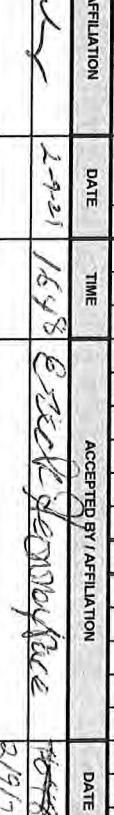
Section A	
Required Client Information:	
Address:	1228 Commerce St
Email:	ray.penley@ge.com
Phone:	Fax
Requested Due Date:	

Section B	
Required Project Information:	
Report To:	HOLD @ FedEx for Ray Penley
Copy To:	
Purchase Order #:	
Project Name:	GE Hickory - 2000 GW Monitoring
Project #:	HYdrO 2002-1

Section C	
Invoice Information:	
Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@pacelabs.com,
Pace Profile #:	10403

ITEM #	SAMPLE ID				Preservatives	Analyses Test	Y/N	Requested Analysis Filtered (Y/N)
	DATE	TIME	DATE	TIME				
SAMPLE TEMP AT COLLECTION								
1	HP 01A	W G 992	1044			# OF CONTAINERS		
2	HP 01	W G 992	1057		3	Unpreserved		
3	HP 02	W G 992	1052		3	H2SO4		
4	HP 04	W G 992	1120		3	HNO3		
5	HP 06	W G 992	1306		3	HCl		
6	HP 08	W G 992	1320		3	NaOH		
7	HP 09	W G 992	1330		3	Na2S2O3		
8	TriP blank	W			3	Methanol		
9					✓	Other		
10								
11								
12								

ITEM #	ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Residual Chlorine (Y/N)
	DATE	TIME	DATE	TIME								
1	Ray Penley	2-9-21	1648	ESTATE OF ROBERT PENLEY	1648	4:06						12521239
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Ray Penley
SIGNATURE of SAMPLER:	

TEMP in C
Received on Ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples Intact (Y/N)

February 17, 2021

Matthew Pelton
ARCADIS
5420 Wade Park Blvd
Suite 350
Raleigh, NC 27607

RE: Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Dear Matthew Pelton:

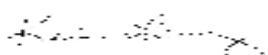
Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Chris Bagley, Arcadis
Kristen Lowder, Arcadis
Ray Penley, General Electric
Bob Witsell



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521527001	RW-1	EPA 8260D	CL	8	PASI-C
92521527002	RW-2	EPA 8260D	CL	8	PASI-C
92521527003	RW-3	EPA 8260D	CL	8	PASI-C
92521527004	RW-4	EPA 8260D	CL	8	PASI-C
92521527005	RW-5	EPA 8260D	CL	8	PASI-C
92521527006	RW-6	EPA 8260D	CL	8	PASI-C
92521527007	RW-7	EPA 8260D	CL	8	PASI-C
92521527008	RW-8	EPA 8260D	CL	8	PASI-C
92521527009	RW-9	EPA 8260D	CL	8	PASI-C
92521527010	RW-10	EPA 8260D	CL	8	PASI-C
92521527011	RW-11	EPA 8260D	CL	8	PASI-C
92521527012	RW-12	EPA 8260D	CL	8	PASI-C
92521527013	RW-13	EPA 8260D	CL	8	PASI-C
92521527014	RW-14	EPA 8260D	CL	8	PASI-C
92521527015	RW-15	EPA 8260D	CL	8	PASI-C
92521527016	RW-16	EPA 8260D	CL	8	PASI-C
92521527017	RW-17	EPA 8260D	CL	8	PASI-C
92521527018	RW-18	EPA 8260D	CL	8	PASI-C
92521527019	RW-19	EPA 8260D	CL	8	PASI-C
92521527020	RW-21	EPA 8260D	CL	8	PASI-C
92521527021	RW-22	EPA 8260D	CL	8	PASI-C
92521527022	RW-23	EPA 8260D	CL	8	PASI-C
92521527023	TRIP BLANK	EPA 8260D	CL	8	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Sample: RW-1	Lab ID: 92521527001	Collected: 02/10/21 11:27	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 00:43	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/12/21 00:43	156-59-2
Tetrachloroethene	14.4	ug/L	1.0	1			02/12/21 00:43	127-18-4
Trichloroethene	ND	ug/L	1.0	1			02/12/21 00:43	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 00:43	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			02/12/21 00:43	460-00-4
1,2-Dichloroethane-d4 (S)	100	%	70-130	1			02/12/21 00:43	17060-07-0
Toluene-d8 (S)	97	%	70-130	1			02/12/21 00:43	2037-26-5
Sample: RW-2	Lab ID: 92521527002	Collected: 02/10/21 11:23	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 01:01	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/12/21 01:01	156-59-2
Tetrachloroethene	16.6	ug/L	1.0	1			02/12/21 01:01	127-18-4
Trichloroethene	ND	ug/L	1.0	1			02/12/21 01:01	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 01:01	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			02/12/21 01:01	460-00-4
1,2-Dichloroethane-d4 (S)	94	%	70-130	1			02/12/21 01:01	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			02/12/21 01:01	2037-26-5
Sample: RW-3	Lab ID: 92521527003	Collected: 02/10/21 11:18	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 01:19	75-35-4
cis-1,2-Dichloroethene	2.1	ug/L	1.0	1			02/12/21 01:19	156-59-2
Tetrachloroethene	44.5	ug/L	1.0	1			02/12/21 01:19	127-18-4
Trichloroethene	6.5	ug/L	1.0	1			02/12/21 01:19	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 01:19	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1			02/12/21 01:19	460-00-4
1,2-Dichloroethane-d4 (S)	96	%	70-130	1			02/12/21 01:19	17060-07-0
Toluene-d8 (S)	100	%	70-130	1			02/12/21 01:19	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Sample: RW-4	Lab ID: 92521527004	Collected: 02/10/21 11:13	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 01:37	75-35-4
cis-1,2-Dichloroethene	8.8	ug/L	1.0	1			02/12/21 01:37	156-59-2
Tetrachloroethene	9.3	ug/L	1.0	1			02/12/21 01:37	127-18-4
Trichloroethene	40.9	ug/L	1.0	1			02/12/21 01:37	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 01:37	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			02/12/21 01:37	460-00-4
1,2-Dichloroethane-d4 (S)	96	%	70-130	1			02/12/21 01:37	17060-07-0
Toluene-d8 (S)	103	%	70-130	1			02/12/21 01:37	2037-26-5
Sample: RW-5	Lab ID: 92521527005	Collected: 02/10/21 11:09	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 01:55	75-35-4
cis-1,2-Dichloroethene	30.3	ug/L	1.0	1			02/12/21 01:55	156-59-2
Tetrachloroethene	38.5	ug/L	1.0	1			02/12/21 01:55	127-18-4
Trichloroethene	90.7	ug/L	1.0	1			02/12/21 01:55	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 01:55	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1			02/12/21 01:55	460-00-4
1,2-Dichloroethane-d4 (S)	94	%	70-130	1			02/12/21 01:55	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			02/12/21 01:55	2037-26-5
Sample: RW-6	Lab ID: 92521527006	Collected: 02/10/21 11:04	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 02:13	75-35-4
cis-1,2-Dichloroethene	43.0	ug/L	1.0	1			02/12/21 02:13	156-59-2
Tetrachloroethene	52.8	ug/L	1.0	1			02/12/21 02:13	127-18-4
Trichloroethene	106	ug/L	1.0	1			02/12/21 02:13	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 02:13	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1			02/12/21 02:13	460-00-4
1,2-Dichloroethane-d4 (S)	101	%	70-130	1			02/12/21 02:13	17060-07-0
Toluene-d8 (S)	100	%	70-130	1			02/12/21 02:13	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Sample: RW-7	Lab ID: 92521527007	Collected: 02/10/21 10:59	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	4.0	4			02/15/21 15:29	75-35-4
cis-1,2-Dichloroethene	151	ug/L	4.0	4			02/15/21 15:29	156-59-2
Tetrachloroethene	215	ug/L	4.0	4			02/15/21 15:29	127-18-4
Trichloroethene	372	ug/L	4.0	4			02/15/21 15:29	79-01-6
Vinyl chloride	ND	ug/L	4.0	4			02/15/21 15:29	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	4			02/15/21 15:29	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	4			02/15/21 15:29	17060-07-0
Toluene-d8 (S)	102	%	70-130	4			02/15/21 15:29	2037-26-5
Sample: RW-8	Lab ID: 92521527008	Collected: 02/10/21 10:55	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	10.0	10			02/15/21 16:41	75-35-4
cis-1,2-Dichloroethene	574	ug/L	10.0	10			02/15/21 16:41	156-59-2
Tetrachloroethene	946	ug/L	10.0	10			02/15/21 16:41	127-18-4
Trichloroethene	1060	ug/L	10.0	10			02/15/21 16:41	79-01-6
Vinyl chloride	ND	ug/L	10.0	10			02/15/21 16:41	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	10			02/15/21 16:41	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	10			02/15/21 16:41	17060-07-0
Toluene-d8 (S)	101	%	70-130	10			02/15/21 16:41	2037-26-5
Sample: RW-9	Lab ID: 92521527009	Collected: 02/10/21 10:50	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	10.0	10			02/16/21 16:17	75-35-4
cis-1,2-Dichloroethene	220	ug/L	10.0	10			02/16/21 16:17	156-59-2
Tetrachloroethene	843	ug/L	10.0	10			02/16/21 16:17	127-18-4
Trichloroethene	345	ug/L	10.0	10			02/16/21 16:17	79-01-6
Vinyl chloride	ND	ug/L	10.0	10			02/16/21 16:17	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	10			02/16/21 16:17	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	10			02/16/21 16:17	17060-07-0
Toluene-d8 (S)	100	%	70-130	10			02/16/21 16:17	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Sample: RW-10	Lab ID: 92521527010	Collected: 02/10/21 10:43	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 03:26	75-35-4
cis-1,2-Dichloroethene	1.4	ug/L	1.0	1			02/12/21 03:26	156-59-2
Tetrachloroethene	14.0	ug/L	1.0	1			02/12/21 03:26	127-18-4
Trichloroethene	7.6	ug/L	1.0	1			02/12/21 03:26	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 03:26	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			02/12/21 03:26	460-00-4
1,2-Dichloroethane-d4 (S)	98	%	70-130	1			02/12/21 03:26	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			02/12/21 03:26	2037-26-5
Sample: RW-11	Lab ID: 92521527011	Collected: 02/10/21 10:39	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 03:44	75-35-4
cis-1,2-Dichloroethene	1.8	ug/L	1.0	1			02/12/21 03:44	156-59-2
Tetrachloroethene	17.2	ug/L	1.0	1			02/12/21 03:44	127-18-4
Trichloroethene	10.1	ug/L	1.0	1			02/12/21 03:44	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 03:44	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1			02/12/21 03:44	460-00-4
1,2-Dichloroethane-d4 (S)	98	%	70-130	1			02/12/21 03:44	17060-07-0
Toluene-d8 (S)	100	%	70-130	1			02/12/21 03:44	2037-26-5
Sample: RW-12	Lab ID: 92521527012	Collected: 02/10/21 10:35	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 04:02	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/12/21 04:02	156-59-2
Tetrachloroethene	4.9	ug/L	1.0	1			02/12/21 04:02	127-18-4
Trichloroethene	2.0	ug/L	1.0	1			02/12/21 04:02	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 04:02	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1			02/12/21 04:02	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	1			02/12/21 04:02	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			02/12/21 04:02	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Sample: RW-13	Lab ID: 92521527013	Collected: 02/10/21 10:29	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 04:20	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/12/21 04:20	156-59-2
Tetrachloroethene	16.9	ug/L	1.0	1			02/12/21 04:20	127-18-4
Trichloroethene	ND	ug/L	1.0	1			02/12/21 04:20	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 04:20	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			02/12/21 04:20	460-00-4
1,2-Dichloroethane-d4 (S)	98	%	70-130	1			02/12/21 04:20	17060-07-0
Toluene-d8 (S)	100	%	70-130	1			02/12/21 04:20	2037-26-5
Sample: RW-14	Lab ID: 92521527014	Collected: 02/10/21 10:24	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 04:38	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			02/12/21 04:38	156-59-2
Tetrachloroethene	5.5	ug/L	1.0	1			02/12/21 04:38	127-18-4
Trichloroethene	ND	ug/L	1.0	1			02/12/21 04:38	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 04:38	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1			02/12/21 04:38	460-00-4
1,2-Dichloroethane-d4 (S)	98	%	70-130	1			02/12/21 04:38	17060-07-0
Toluene-d8 (S)	99	%	70-130	1			02/12/21 04:38	2037-26-5
Sample: RW-15	Lab ID: 92521527015	Collected: 02/10/21 10:16	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	5.0	5			02/15/21 15:47	75-35-4
cis-1,2-Dichloroethene	57.4	ug/L	5.0	5			02/15/21 15:47	156-59-2
Tetrachloroethene	421	ug/L	5.0	5			02/15/21 15:47	127-18-4
Trichloroethene	48.7	ug/L	5.0	5			02/15/21 15:47	79-01-6
Vinyl chloride	ND	ug/L	5.0	5			02/15/21 15:47	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	5			02/15/21 15:47	460-00-4
1,2-Dichloroethane-d4 (S)	95	%	70-130	5			02/15/21 15:47	17060-07-0
Toluene-d8 (S)	104	%	70-130	5			02/15/21 15:47	2037-26-5

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Sample: RW-16	Lab ID: 92521527016	Collected: 02/10/21 10:11	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	50.0	50			02/16/21 17:29	75-35-4
cis-1,2-Dichloroethene	2000	ug/L	50.0	50			02/16/21 17:29	156-59-2
Tetrachloroethene	788	ug/L	50.0	50			02/16/21 17:29	127-18-4
Trichloroethene	9170	ug/L	50.0	50			02/16/21 17:29	79-01-6
Vinyl chloride	ND	ug/L	50.0	50			02/16/21 17:29	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	50			02/16/21 17:29	460-00-4
1,2-Dichloroethane-d4 (S)	100	%	70-130	50			02/16/21 17:29	17060-07-0
Toluene-d8 (S)	100	%	70-130	50			02/16/21 17:29	2037-26-5
Sample: RW-17	Lab ID: 92521527017	Collected: 02/10/21 10:07	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	10.0	10			02/15/21 16:23	75-35-4
cis-1,2-Dichloroethene	838	ug/L	10.0	10			02/15/21 16:23	156-59-2
Tetrachloroethene	64.5	ug/L	10.0	10			02/15/21 16:23	127-18-4
Trichloroethene	936	ug/L	10.0	10			02/15/21 16:23	79-01-6
Vinyl chloride	ND	ug/L	10.0	10			02/15/21 16:23	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	10			02/15/21 16:23	460-00-4
1,2-Dichloroethane-d4 (S)	99	%	70-130	10			02/15/21 16:23	17060-07-0
Toluene-d8 (S)	107	%	70-130	10			02/15/21 16:23	2037-26-5
Sample: RW-18	Lab ID: 92521527018	Collected: 02/10/21 10:02	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	12.5	12.5			02/16/21 16:35	75-35-4
cis-1,2-Dichloroethene	103	ug/L	12.5	12.5			02/16/21 16:35	156-59-2
Tetrachloroethene	48.7	ug/L	12.5	12.5			02/16/21 16:35	127-18-4
Trichloroethene	1630	ug/L	12.5	12.5			02/16/21 16:35	79-01-6
Vinyl chloride	ND	ug/L	12.5	12.5			02/16/21 16:35	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	12.5			02/16/21 16:35	460-00-4
1,2-Dichloroethane-d4 (S)	100	%	70-130	12.5			02/16/21 16:35	17060-07-0
Toluene-d8 (S)	100	%	70-130	12.5			02/16/21 16:35	2037-26-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Sample: RW-19	Lab ID: 92521527019	Collected: 02/10/21 10:00	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 06:09	75-35-4
cis-1,2-Dichloroethene	12.4	ug/L	1.0	1			02/12/21 06:09	156-59-2
Tetrachloroethene	160	ug/L	1.0	1			02/12/21 06:09	127-18-4
Trichloroethene	30.6	ug/L	1.0	1			02/12/21 06:09	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 06:09	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			02/12/21 06:09	460-00-4
1,2-Dichloroethane-d4 (S)	96	%	70-130	1			02/12/21 06:09	17060-07-0
Toluene-d8 (S)	102	%	70-130	1			02/12/21 06:09	2037-26-5
Sample: RW-21	Lab ID: 92521527020	Collected: 02/10/21 13:10	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1			02/12/21 06:27	75-35-4
cis-1,2-Dichloroethene	1.6	ug/L	1.0	1			02/12/21 06:27	156-59-2
Tetrachloroethene	10.4	ug/L	1.0	1			02/12/21 06:27	127-18-4
Trichloroethene	128	ug/L	1.0	1			02/12/21 06:27	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			02/12/21 06:27	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1			02/12/21 06:27	460-00-4
1,2-Dichloroethane-d4 (S)	99	%	70-130	1			02/12/21 06:27	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			02/12/21 06:27	2037-26-5
Sample: RW-22	Lab ID: 92521527021	Collected: 02/10/21 13:16	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	20.0	20			02/16/21 16:53	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	20.0	20			02/16/21 16:53	156-59-2
Tetrachloroethene	1990	ug/L	20.0	20			02/16/21 16:53	127-18-4
Trichloroethene	264	ug/L	20.0	20			02/16/21 16:53	79-01-6
Vinyl chloride	ND	ug/L	20.0	20			02/16/21 16:53	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	20			02/16/21 16:53	460-00-4
1,2-Dichloroethane-d4 (S)	101	%	70-130	20			02/16/21 16:53	17060-07-0
Toluene-d8 (S)	100	%	70-130	20			02/16/21 16:53	2037-26-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Sample: RW-23	Lab ID: 92521527022	Collected: 02/10/21 13:25	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	40.0	40		02/16/21 17:11	75-35-4	
cis-1,2-Dichloroethene	183	ug/L	40.0	40		02/16/21 17:11	156-59-2	
Tetrachloroethene	3830	ug/L	40.0	40		02/16/21 17:11	127-18-4	
Trichloroethene	1850	ug/L	40.0	40		02/16/21 17:11	79-01-6	
Vinyl chloride	ND	ug/L	40.0	40		02/16/21 17:11	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	40		02/16/21 17:11	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	40		02/16/21 17:11	17060-07-0	
Toluene-d8 (S)	100	%	70-130	40		02/16/21 17:11	2037-26-5	
Sample: TRIP BLANK	Lab ID: 92521527023	Collected: 02/10/21 00:00	Received: 02/10/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	1.0	1		02/12/21 00:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/12/21 00:25	156-59-2	
Tetrachloroethene	ND	ug/L	1.0	1		02/12/21 00:25	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		02/12/21 00:25	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		02/12/21 00:25	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/12/21 00:25	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		02/12/21 00:25	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		02/12/21 00:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH

Pace Project No.: 92521527

QC Batch: 599383 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92521527001, 92521527002, 92521527003, 92521527004, 92521527005, 92521527006, 92521527010,
92521527011, 92521527012, 92521527013, 92521527014, 92521527019, 92521527023

METHOD BLANK: 3159945

Matrix: Water

Associated Lab Samples: 92521527001, 92521527002, 92521527003, 92521527004, 92521527005, 92521527006, 92521527010,
92521527011, 92521527012, 92521527013, 92521527014, 92521527019, 92521527023

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,1-Dichloroethene	ug/L	ND	1.0	02/12/21 00:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/12/21 00:07	
Tetrachloroethene	ug/L	ND	1.0	02/12/21 00:07	
Trichloroethene	ug/L	ND	1.0	02/12/21 00:07	
Vinyl chloride	ug/L	ND	1.0	02/12/21 00:07	
1,2-Dichloroethane-d4 (S)	%	94	70-130	02/12/21 00:07	
4-Bromofluorobenzene (S)	%	95	70-130	02/12/21 00:07	
Toluene-d8 (S)	%	102	70-130	02/12/21 00:07	

LABORATORY CONTROL SAMPLE: 3159946

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
1,1-Dichloroethene	ug/L	50	54.1	108	70-132	
cis-1,2-Dichloroethene	ug/L	50	48.2	96	70-130	
Tetrachloroethene	ug/L	50	49.3	99	70-130	
Trichloroethene	ug/L	50	49.8	100	70-130	
Vinyl chloride	ug/L	50	48.2	96	59-142	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3159947 3159948

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	Qual
		92521527001	Spike	Spike	Spike	Result	Result	% Rec	% Rec		
1,1-Dichloroethene	ug/L	ND	20	20	23.3	24.2	117	121	70-158	4	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.7	21.3	104	106	67-148	3	
Tetrachloroethene	ug/L	14.4	20	20	36.1	35.1	109	103	70-139	3	
Trichloroethene	ug/L	ND	20	20	22.4	22.0	109	107	70-149	2	
Vinyl chloride	ug/L	ND	20	20	19.3	19.8	96	99	55-172	2	
1,2-Dichloroethane-d4 (S)	%						105	108	70-130		
4-Bromofluorobenzene (S)	%						104	104	70-130		
Toluene-d8 (S)	%						101	100	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH

Pace Project No.: 92521527

QC Batch: 599384

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92521527020

METHOD BLANK: 3159950

Matrix: Water

Associated Lab Samples: 92521527020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/11/21 23:48	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/11/21 23:48	
Tetrachloroethene	ug/L	ND	1.0	02/11/21 23:48	
Trichloroethene	ug/L	ND	1.0	02/11/21 23:48	
Vinyl chloride	ug/L	ND	1.0	02/11/21 23:48	
1,2-Dichloroethane-d4 (S)	%	100	70-130	02/11/21 23:48	
4-Bromofluorobenzene (S)	%	96	70-130	02/11/21 23:48	
Toluene-d8 (S)	%	100	70-130	02/11/21 23:48	

LABORATORY CONTROL SAMPLE: 3159951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	55.3	111	70-132	
cis-1,2-Dichloroethene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	48.8	98	70-130	
Trichloroethene	ug/L	50	50.5	101	70-130	
Vinyl chloride	ug/L	50	50.5	101	59-142	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3159952 3159953

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92521239005	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	250	250	322	305	129	122	70-158	5		
cis-1,2-Dichloroethene	ug/L	ND	250	250	293	284	113	110	67-148	3		
Tetrachloroethene	ug/L	1600	250	250	1930	1940	135	138	70-139	0		
Trichloroethene	ug/L	280	250	250	571	556	116	110	70-149	3		
Vinyl chloride	ug/L	ND	250	250	283	272	113	109	55-172	4		
1,2-Dichloroethane-d4 (S)	%						97	94	70-130			
4-Bromofluorobenzene (S)	%						99	99	70-130			
Toluene-d8 (S)	%						102	101	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH

Pace Project No.: 92521527

QC Batch: 599806 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92521527007, 92521527008, 92521527015, 92521527017

METHOD BLANK: 3162171

Matrix: Water

Associated Lab Samples: 92521527007, 92521527008, 92521527015, 92521527017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/15/21 11:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/15/21 11:53	
Tetrachloroethene	ug/L	ND	1.0	02/15/21 11:53	
Trichloroethene	ug/L	ND	1.0	02/15/21 11:53	
Vinyl chloride	ug/L	ND	1.0	02/15/21 11:53	
1,2-Dichloroethane-d4 (S)	%	98	70-130	02/15/21 11:53	
4-Bromofluorobenzene (S)	%	99	70-130	02/15/21 11:53	
Toluene-d8 (S)	%	105	70-130	02/15/21 11:53	

LABORATORY CONTROL SAMPLE: 3162172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	47.6	95	70-132	
cis-1,2-Dichloroethene	ug/L	50	44.3	89	70-130	
Tetrachloroethene	ug/L	50	48.4	97	70-130	
Trichloroethene	ug/L	50	48.0	96	70-130	
Vinyl chloride	ug/L	50	39.7	79	59-142	
1,2-Dichloroethane-d4 (S)	%			87	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3162173 3162174

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92521875005	Result	Conc.	Conc.	Result	% Rec	Result	% Rec			
1,1-Dichloroethene	ug/L	ND	20	20	26.8	23.8	134	119	70-158	12		
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.4	22.1	122	110	67-148	10		
Tetrachloroethene	ug/L	ND	20	20	22.1	19.3	110	96	70-139	13		
Trichloroethene	ug/L	ND	20	20	24.3	20.2	122	101	70-149	18		
Vinyl chloride	ug/L	ND	20	20	22.3	20.3	111	102	55-172	9		
1,2-Dichloroethane-d4 (S)	%						120	115	70-130			
4-Bromofluorobenzene (S)	%						104	104	70-130			
Toluene-d8 (S)	%						101	103	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY HYDROPUNCH

Pace Project No.: 92521527

QC Batch: 600340 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92521527009, 92521527016, 92521527018, 92521527021, 92521527022

METHOD BLANK: 3164546

Matrix: Water

Associated Lab Samples: 92521527009, 92521527016, 92521527018, 92521527021, 92521527022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	02/16/21 15:58	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/16/21 15:58	
Tetrachloroethene	ug/L	ND	1.0	02/16/21 15:58	
Trichloroethene	ug/L	ND	1.0	02/16/21 15:58	
Vinyl chloride	ug/L	ND	1.0	02/16/21 15:58	
1,2-Dichloroethane-d4 (S)	%	101	70-130	02/16/21 15:58	
4-Bromofluorobenzene (S)	%	97	70-130	02/16/21 15:58	
Toluene-d8 (S)	%	100	70-130	02/16/21 15:58	

LABORATORY CONTROL SAMPLE: 3164547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	52.5	105	70-132	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Trichloroethene	ug/L	50	53.9	108	70-130	
Vinyl chloride	ug/L	50	46.1	92	59-142	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164548 3164549

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92521527016	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1-Dichloroethene	ug/L	ND	1000	1000	1040	1080	104	108	70-158	3		
cis-1,2-Dichloroethene	ug/L	2000	1000	1000	2920	2940	92	94	67-148	1		
Tetrachloroethene	ug/L	788	1000	1000	1730	1780	94	100	70-139	3		
Trichloroethene	ug/L	9170	1000	1000	10100	10400	97	124	70-149	3 E		
Vinyl chloride	ug/L	ND	1000	1000	858	890	86	89	55-172	4		
1,2-Dichloroethane-d4 (S)	%						97	96	70-130			
4-Bromofluorobenzene (S)	%						95	96	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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QUALIFIERS

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GE HICKORY HYDROPUNCH
Pace Project No.: 92521527

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521527001	RW-1	EPA 8260D	599383		
92521527002	RW-2	EPA 8260D	599383		
92521527003	RW-3	EPA 8260D	599383		
92521527004	RW-4	EPA 8260D	599383		
92521527005	RW-5	EPA 8260D	599383		
92521527006	RW-6	EPA 8260D	599383		
92521527007	RW-7	EPA 8260D	599806		
92521527008	RW-8	EPA 8260D	599806		
92521527009	RW-9	EPA 8260D	600340		
92521527010	RW-10	EPA 8260D	599383		
92521527011	RW-11	EPA 8260D	599383		
92521527012	RW-12	EPA 8260D	599383		
92521527013	RW-13	EPA 8260D	599383		
92521527014	RW-14	EPA 8260D	599383		
92521527015	RW-15	EPA 8260D	599806		
92521527016	RW-16	EPA 8260D	600340		
92521527017	RW-17	EPA 8260D	599806		
92521527018	RW-18	EPA 8260D	600340		
92521527019	RW-19	EPA 8260D	599383		
92521527020	RW-21	EPA 8260D	599384		
92521527021	RW-22	EPA 8260D	600340		
92521527022	RW-23	EPA 8260D	600340		
92521527023	TRIP BLANK	EPA 8260D	599383		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

CE (Arcadis)

Project #:

WO# : 92521527

Courier:
 Commercial FedEx UPS USPS Client
 Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No



92521527

Date/Initials Person Examining Contents: L-10/11 LD

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 92T064 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 5.3 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 5.2

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A 3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A 4.
Sufficient Volume?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 5.
Correct Containers Used? -Pace Containers Used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 6.
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A 8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 9. RW-10 has headspace in one vial. RW-18 has headspace in one vial. WT
Headspace in VOA Vials (>5-6mm)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A 11.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2
Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg.

**Bottom half of box is to list number of bottles

Project #

WO# : 92521527

PM: KLH1 Due Date: 02/17/21
CLIENT: 92-ARCADIS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit) S035 kit (N/A)	V/GK (3 vials per kit) VPH/Gas Kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
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4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92521527

PM: KLH1

Due Date: 02/17/21

CLIENT: 92-ARCADIS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN/Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit) S035 kit (N/A)	V/GK (3 vials per kit) VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																											
2																											
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10																											
11																											
12																											

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: GE (Arcadis)
Address: 1611 Indian Springs Dr
Conover, NC 28613
Email:
Phone: Fax
Requested Due Date:

Page : 1 Of 3

Section B

Required Project Information:

Report To: Ray Penley
Copy To:
Purchase Order #:
Project Name: TerraCore/VOC's
Project #: stock

Page : 1 Of 3

Section C

Invoice Information:

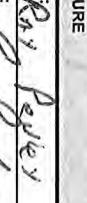
Attention: Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: stock

Page : 1 Of 3

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, -,)</small>	COLLECTED				Preservatives	Y/N	Requested Analysis Filtered (Y/N)	
		START	END	DATE	TIME			Analyses Test	Y/N
1	RW - 1	WT G	1027	10/27	11:27	3	✓	VOC's	8360
2	RW - 2	WT G	1123	10/27	11:23	3	✓	VOC's	
3	RW - 3	WT G	115	10/27	11:5	3	✓	VOC's	
4	RW - 4	WT G	1113	10/27	11:13	3	✓	VOC's	
5	RW - 5	WT G	1107	10/27	11:07	3	✓	VOC's	
6	RW - 6	WT G	1104	10/27	11:04	3	✓	VOC's	
7	RW - 7	WT G	1059	10/27	10:59	3	✓	VOC's	
8	RW - 8	WT G	1055	10/27	10:55	3	✓	VOC's	
9	RW - 9	WT G	1050	10/27	10:50	3	✓	VOC's	
10	RW - 10	WT G	1043	10/27	10:43	3	✓	VOC's	
11	RW - 11	WT G	1039	10/27	10:39	3	✓	VOC's	
12	RW - 12	WT G	1035	10/27	10:35	3	✓	VOC's	
ADDITIONAL COMMENTS									
Ray Penley 6/21 16:55 21 NOV 2016 2-1021 16:55 5.2 Y N Y									
TEMP in C									
Received on Ice (Y/N)									
Custody Sealed Cooler (Y/N)									
Samples Intact (Y/N)									

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ray Penley

SIGNATURE of SAMPLER: 

DATE Signed: 10-21-16

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: GE (Arcadis)	Address: 1611 Indian Springs Dr	Report To: Ray Penley		Attention: Company Name:	
Conover, NC 28613		Copy To:		Address:	
				Page Quote:	
Email: Fax:		Purchase Order #:		Page Project Manager:	kevin.herring@pacelabs.com,
Phone:		Project Name:	TerraCore/NOC's	Page Profile #:	stock
Requested Due Date:		Project #:		State / Location	NC
SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique					
ITEM #	MATRIX Drinking Water Water Waste Water Product Soil/Ground Oil Wipe Air Other Tissue	CODE DW WT WW P SL WP AR OT TS	COLLECTED DATE TIME START END	Preservatives SAMPLE TEMP AT COLLECTION # OF CONTAINERS	Requested Analysis Filtered (Y/N)
1	RW-13	WT	1021	3	
2	RW-14	WT	1024	3	
3	RW-15	WT	1016	3	
4	RW-16	WT	1011	3	
5	RW-17	WT	1007	3	
6	RW-18	WT	1002	3	
7	RW-19	WT	1000	3	
8	RW-21	WT	1310	3	
9	RW-22	WT	1316	3	
10	RW-23	WT	1325	3	
11	TRIP BLANK	WT	✓	2	
12					
ADDITIONAL COMMENTS RELINQUISHED BY AFFILIATION ACCEPTED BY AFFILIATION					
		DATE TIME	DATE TIME	SAMPLE CONDITIONS	Residual Chlorine (Y/N)
					92521527
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: DATE Signed: 2-10-21					
TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		

March 25, 2021

Matthew Pelton
ARCADIS
5420 Wade Park Blvd
Suite 350
Raleigh, NC 27607

RE: Project: GE HICKORY BEDROCK
Pace Project No.: 92528626

Dear Matthew Pelton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 18, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Chris Bagley, Arcadis
Kristen Lowder, Arcadis
Ray Penley, General Electric
Bob Witsell



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GE HICKORY BEDROCK
Pace Project No.: 92528626

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GE HICKORY BEDROCK
Pace Project No.: 92528626

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92528626001	BR-3 (36-60)	EPA 8260D	BSH	8	PASI-C
92528626002	BR-3 (60-84)	EPA 8260D	BSH	8	PASI-C
92528626003	BR-3 (80-100)	EPA 8260D	SAS	8	PASI-C
92528626004	BR-2 (60-80)	EPA 8260D	BSH	8	PASI-C
92528626005	BR-2 (80-100)	EPA 8260D	SAS	8	PASI-C
92528626006	DUP-1 (031721)	EPA 8260D	SAS	8	PASI-C
92528626007	BR-1 (60-80)	EPA 8260D	SAS	8	PASI-C
92528626008	BR-1 (80-100)	EPA 8260D	SAS	8	PASI-C
92528626009	TB-1 (031821)	EPA 8260D	CL	8	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE HICKORY BEDROCK

Pace Project No.: 92528626

Sample: BR-3 (36-60)		Lab ID: 92528626001	Collected: 03/16/21 16:30	Received: 03/18/21 16:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	10.0	10			03/24/21 03:25	75-35-4
cis-1,2-Dichloroethene	28.1	ug/L	10.0	10			03/24/21 03:25	156-59-2
Tetrachloroethene	1220	ug/L	10.0	10			03/24/21 03:25	127-18-4
Trichloroethene	376	ug/L	10.0	10			03/24/21 03:25	79-01-6
Vinyl chloride	ND	ug/L	10.0	10			03/24/21 03:25	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	10			03/24/21 03:25	460-00-4
1,2-Dichloroethane-d4 (S)	86	%	70-130	10			03/24/21 03:25	17060-07-0
Toluene-d8 (S)	97	%	70-130	10			03/24/21 03:25	2037-26-5
Sample: BR-3 (60-84)		Lab ID: 92528626002	Collected: 03/16/21 18:05	Received: 03/18/21 16:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	4.0	4			03/24/21 03:43	75-35-4
cis-1,2-Dichloroethene	15.0	ug/L	4.0	4			03/24/21 03:43	156-59-2
Tetrachloroethene	481	ug/L	4.0	4			03/24/21 03:43	127-18-4
Trichloroethene	148	ug/L	4.0	4			03/24/21 03:43	79-01-6
Vinyl chloride	ND	ug/L	4.0	4			03/24/21 03:43	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	4			03/24/21 03:43	460-00-4
1,2-Dichloroethane-d4 (S)	85	%	70-130	4			03/24/21 03:43	17060-07-0
Toluene-d8 (S)	97	%	70-130	4			03/24/21 03:43	2037-26-5
Sample: BR-3 (80-100)		Lab ID: 92528626003	Collected: 03/17/21 09:45	Received: 03/18/21 16:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	20.0	20			03/25/21 13:50	75-35-4
cis-1,2-Dichloroethene	34.8	ug/L	20.0	20			03/25/21 13:50	156-59-2
Tetrachloroethene	3040	ug/L	20.0	20			03/25/21 13:50	127-18-4
Trichloroethene	569	ug/L	20.0	20			03/25/21 13:50	79-01-6
Vinyl chloride	ND	ug/L	20.0	20			03/25/21 13:50	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	20			03/25/21 13:50	460-00-4
1,2-Dichloroethane-d4 (S)	108	%	70-130	20			03/25/21 13:50	17060-07-0
Toluene-d8 (S)	102	%	70-130	20			03/25/21 13:50	2037-26-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE HICKORY BEDROCK

Pace Project No.: 92528626

Sample: BR-2 (60-80)	Lab ID: 92528626004	Collected: 03/17/21 13:00	Received: 03/18/21 16:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	10.0	10		03/24/21 04:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		03/24/21 04:19	156-59-2	
Tetrachloroethene	1220	ug/L	10.0	10		03/24/21 04:19	127-18-4	
Trichloroethene	110	ug/L	10.0	10		03/24/21 04:19	79-01-6	
Vinyl chloride	ND	ug/L	10.0	10		03/24/21 04:19	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	10		03/24/21 04:19	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	10		03/24/21 04:19	17060-07-0	
Toluene-d8 (S)	97	%	70-130	10		03/24/21 04:19	2037-26-5	
Sample: BR-2 (80-100)	Lab ID: 92528626005	Collected: 03/17/21 14:55	Received: 03/18/21 16:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	25.0	25		03/25/21 14:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	25		03/25/21 14:26	156-59-2	
Tetrachloroethene	2300	ug/L	25.0	25		03/25/21 14:26	127-18-4	
Trichloroethene	203	ug/L	25.0	25		03/25/21 14:26	79-01-6	
Vinyl chloride	ND	ug/L	25.0	25		03/25/21 14:26	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	25		03/25/21 14:26	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	25		03/25/21 14:26	17060-07-0	
Toluene-d8 (S)	101	%	70-130	25		03/25/21 14:26	2037-26-5	
Sample: DUP-1 (031721)	Lab ID: 92528626006	Collected: 03/17/21 00:00	Received: 03/18/21 16:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
1,1-Dichloroethene	ND	ug/L	20.0	20		03/25/21 14:08	75-35-4	
cis-1,2-Dichloroethene	32.9	ug/L	20.0	20		03/25/21 14:08	156-59-2	
Tetrachloroethene	3070	ug/L	20.0	20		03/25/21 14:08	127-18-4	
Trichloroethene	548	ug/L	20.0	20		03/25/21 14:08	79-01-6	
Vinyl chloride	ND	ug/L	20.0	20		03/25/21 14:08	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	20		03/25/21 14:08	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	20		03/25/21 14:08	17060-07-0	
Toluene-d8 (S)	100	%	70-130	20		03/25/21 14:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE HICKORY BEDROCK

Pace Project No.: 92528626

Sample: BR-1 (60-80)		Lab ID: 92528626007	Collected: 03/18/21 10:05	Received: 03/18/21 16:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	2.5	2.5			03/25/21 13:14	75-35-4
cis-1,2-Dichloroethene	2.5	ug/L	2.5	2.5			03/25/21 13:14	156-59-2
Tetrachloroethene	97.2	ug/L	2.5	2.5			03/25/21 13:14	127-18-4
Trichloroethene	364	ug/L	2.5	2.5			03/25/21 13:14	79-01-6
Vinyl chloride	ND	ug/L	2.5	2.5			03/25/21 13:14	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	2.5			03/25/21 13:14	460-00-4
1,2-Dichloroethane-d4 (S)	109	%	70-130	2.5			03/25/21 13:14	17060-07-0
Toluene-d8 (S)	99	%	70-130	2.5			03/25/21 13:14	2037-26-5
Sample: BR-1 (80-100)		Lab ID: 92528626008	Collected: 03/18/21 11:50	Received: 03/18/21 16:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	4.0	4			03/24/21 05:49	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	4.0	4			03/24/21 05:49	156-59-2
Tetrachloroethene	197	ug/L	4.0	4			03/24/21 05:49	127-18-4
Trichloroethene	535	ug/L	4.0	4			03/24/21 05:49	79-01-6
Vinyl chloride	ND	ug/L	4.0	4			03/24/21 05:49	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	4			03/24/21 05:49	460-00-4
1,2-Dichloroethane-d4 (S)	85	%	70-130	4			03/24/21 05:49	17060-07-0
Toluene-d8 (S)	106	%	70-130	4			03/24/21 05:49	2037-26-5
Sample: TB-1 (031821)		Lab ID: 92528626009	Collected: 03/18/21 00:00	Received: 03/18/21 16:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level Landfill		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
1,1-Dichloroethene	ND	ug/L	1.0	1			03/23/21 01:39	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			03/23/21 01:39	156-59-2
Tetrachloroethene	ND	ug/L	1.0	1			03/23/21 01:39	127-18-4
Trichloroethene	ND	ug/L	1.0	1			03/23/21 01:39	79-01-6
Vinyl chloride	ND	ug/L	1.0	1			03/23/21 01:39	75-01-4
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1			03/23/21 01:39	460-00-4
1,2-Dichloroethane-d4 (S)	94	%	70-130	1			03/23/21 01:39	17060-07-0
Toluene-d8 (S)	107	%	70-130	1			03/23/21 01:39	2037-26-5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY BEDROCK

Pace Project No.: 92528626

QC Batch: 608289

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92528626009

METHOD BLANK: 3204534

Matrix: Water

Associated Lab Samples: 92528626009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	03/23/21 01:21	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/23/21 01:21	
Tetrachloroethene	ug/L	ND	1.0	03/23/21 01:21	
Trichloroethene	ug/L	ND	1.0	03/23/21 01:21	
Vinyl chloride	ug/L	ND	1.0	03/23/21 01:21	
1,2-Dichloroethane-d4 (S)	%	92	70-130	03/23/21 01:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/23/21 01:21	
Toluene-d8 (S)	%	107	70-130	03/23/21 01:21	

LABORATORY CONTROL SAMPLE: 3204535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	48.2	96	70-132	
cis-1,2-Dichloroethene	ug/L	50	44.0	88	70-130	
Tetrachloroethene	ug/L	50	49.0	98	70-130	
Trichloroethene	ug/L	50	49.5	99	70-130	
Vinyl chloride	ug/L	50	37.7	75	59-142	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 3205098

Parameter	Units	92526962027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	20	21.6	108	70-158	
cis-1,2-Dichloroethene	ug/L	ND	20	17.9	90	67-148	
Tetrachloroethene	ug/L	ND	20	17.0	85	70-139	
Trichloroethene	ug/L	ND	20	20.0	100	70-149	
Vinyl chloride	ug/L	ND	20	16.9	84	55-172	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				99	70-130	

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QUALITY CONTROL DATA

Project: GE HICKORY BEDROCK
Pace Project No.: 92528626

SAMPLE DUPLICATE: 3205097

Parameter	Units	92526962018 Result	Dup Result	RPD	Qualifiers
1,1-Dichloroethene	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	97	94		
4-Bromofluorobenzene (S)	%	99	100		
Toluene-d8 (S)	%	106	102		

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QUALITY CONTROL DATA

Project: GE HICKORY BEDROCK

Pace Project No.: 92528626

QC Batch: 608597 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92528626001, 92528626002, 92528626004

METHOD BLANK: 3205756 Matrix: Water

Associated Lab Samples: 92528626001, 92528626002, 92528626004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	03/23/21 22:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/23/21 22:52	
Tetrachloroethene	ug/L	ND	1.0	03/23/21 22:52	
Trichloroethene	ug/L	ND	1.0	03/23/21 22:52	
Vinyl chloride	ug/L	ND	1.0	03/23/21 22:52	
1,2-Dichloroethane-d4 (S)	%	81	70-130	03/23/21 22:52	
4-Bromofluorobenzene (S)	%	98	70-130	03/23/21 22:52	
Toluene-d8 (S)	%	99	70-130	03/23/21 22:52	

LABORATORY CONTROL SAMPLE: 3205757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	46.0	92	70-132	
cis-1,2-Dichloroethene	ug/L	50	45.9	92	70-130	
Tetrachloroethene	ug/L	50	57.7	115	70-130	
Trichloroethene	ug/L	50	56.9	114	70-130	
Vinyl chloride	ug/L	50	40.6	81	59-142	
1,2-Dichloroethane-d4 (S)	%			83	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3205758 3205759

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92528822006	Result	Conc.	Conc.	Result	% Rec	Result	% Rec			
1,1-Dichloroethene	ug/L	ND	20	20	18.6	18.9	93	94	70-158	2		
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.2	18.7	91	93	67-148	2		
Tetrachloroethene	ug/L	ND	20	20	25.5	25.6	118	119	70-139	0		
Trichloroethene	ug/L	ND	20	20	22.6	23.4	113	117	70-149	3		
Vinyl chloride	ug/L	ND	20	20	16.1	16.6	81	83	55-172	3		
1,2-Dichloroethane-d4 (S)	%						81	81	70-130			
4-Bromofluorobenzene (S)	%						98	97	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY BEDROCK

Pace Project No.: 92528626

QC Batch: 608600

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level Landfill

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92528626008

METHOD BLANK: 3205777

Matrix: Water

Associated Lab Samples: 92528626008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	03/23/21 23:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/23/21 23:23	
Tetrachloroethene	ug/L	ND	1.0	03/23/21 23:23	
Trichloroethene	ug/L	ND	1.0	03/23/21 23:23	
Vinyl chloride	ug/L	ND	1.0	03/23/21 23:23	
1,2-Dichloroethane-d4 (S)	%	83	70-130	03/23/21 23:23	
4-Bromofluorobenzene (S)	%	100	70-130	03/23/21 23:23	
Toluene-d8 (S)	%	107	70-130	03/23/21 23:23	

LABORATORY CONTROL SAMPLE: 3205778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	50.7	101	70-132	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
Tetrachloroethene	ug/L	50	58.0	116	70-130	
Trichloroethene	ug/L	50	61.8	124	70-130	
Vinyl chloride	ug/L	50	47.6	95	59-142	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3205779 3205780

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	Qual
		92528634009	Result	Conc.	Conc.	Result	% Rec	Result	% Rec			
1,1-Dichloroethene	ug/L	ND	50	50	59.5	57.9	119	116	70-158	3		
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.7	55.7	101	109	67-148	7		
Tetrachloroethene	ug/L	340	50	50	409	406	138	131	70-139	1		
Trichloroethene	ug/L	ND	50	50	58.5	60.4	117	121	70-149	3		
Vinyl chloride	ug/L	ND	50	50	51.5	53.9	103	108	55-172	5		
1,2-Dichloroethane-d4 (S)	%						100	93	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						102	95	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE HICKORY BEDROCK

Pace Project No.: 92528626

QC Batch: 609196 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level Landfill

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92528626003, 92528626005, 92528626006, 92528626007

METHOD BLANK: 3208630 Matrix: Water

Associated Lab Samples: 92528626003, 92528626005, 92528626006, 92528626007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	03/25/21 12:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/25/21 12:56	
Tetrachloroethene	ug/L	ND	1.0	03/25/21 12:56	
Trichloroethene	ug/L	ND	1.0	03/25/21 12:56	
Vinyl chloride	ug/L	ND	1.0	03/25/21 12:56	
1,2-Dichloroethane-d4 (S)	%	108	70-130	03/25/21 12:56	
4-Bromofluorobenzene (S)	%	98	70-130	03/25/21 12:56	
Toluene-d8 (S)	%	101	70-130	03/25/21 12:56	

LABORATORY CONTROL SAMPLE: 3208631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	47.6	95	70-132	
cis-1,2-Dichloroethene	ug/L	50	49.2	98	70-130	
Tetrachloroethene	ug/L	50	46.1	92	70-130	
Trichloroethene	ug/L	50	47.5	95	70-130	
Vinyl chloride	ug/L	50	43.6	87	59-142	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3208632 3208633

Parameter	Units	MS Spike		MSD Spike		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	RPD	Qual
		92528626007	Result	Conc.	Conc.							
1,1-Dichloroethene	ug/L	ND	50	50	60.9	54.6	122	109	70-158	11		
cis-1,2-Dichloroethene	ug/L	2.5	50	50	62.2	56.6	119	108	67-148	9		
Tetrachloroethene	ug/L	97.2	50	50	157	148	120	102	70-139	6		
Trichloroethene	ug/L	364	50	50	429	405	130	83	70-149	6		
Vinyl chloride	ug/L	ND	50	50	55.6	51.3	111	103	55-172	8		
1,2-Dichloroethane-d4 (S)	%						106	104	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GE HICKORY BEDROCK

Pace Project No.: 92528626

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GE HICKORY BEDROCK
 Pace Project No.: 92528626

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92528626001	BR-3 (36-60)	EPA 8260D	608597		
92528626002	BR-3 (60-84)	EPA 8260D	608597		
92528626003	BR-3 (80-100)	EPA 8260D	609196		
92528626004	BR-2 (60-80)	EPA 8260D	608597		
92528626005	BR-2 (80-100)	EPA 8260D	609196		
92528626006	DUP-1 (031721)	EPA 8260D	609196		
92528626007	BR-1 (60-80)	EPA 8260D	609196		
92528626008	BR-1 (80-100)	EPA 8260D	608600		
92528626009	TB-1 (031821)	EPA 8260D	608289		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Arcadis

Project #:

WO# : 92528626

Courier:
 Commercial FedEx UPS USPS Client
 Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 92T064 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 3.6 Add/Subtract (°C) 0.0°C Correction Factor: 3.6

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.6

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No N/A

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
-Includes Date/Time/ID/Analysis Matrix:	WT		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 2 of 2
Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92528626

PM: KLH1

Due Date: 03/25/21

CLIENT: 92-ARCADIS

1	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WG FU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2ZnO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-SO3S kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
2																										
3																										
4																										
5																										
6																										
7																										
8																										
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12																										

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company: Arcadis
 Address: 14 Lowell Street
 Travelers Rest, SC 29650
 Phone: 828-602-2529 | Fax: 828-602-2529
 Requested Due Date: STANDARD

Section B
Required Project Information:

Report To: Matt Creel | CHARIS BABLEY
 Copy To: CARCSTORPER-BABLEY@ARCADIS.COM
 Purchase Order #:

Project Name: GE Hickory Bedrock
 Project #: 30053006

Section C
Invoice Information:

Attention: Matt Creel
 Company Name:
 Address:
 Page Duplex:

Regulatory Agency

Page Project Manager: kevin.herring@pacelabs.com.
 Page Profile #: 10403
 State / Location: SC

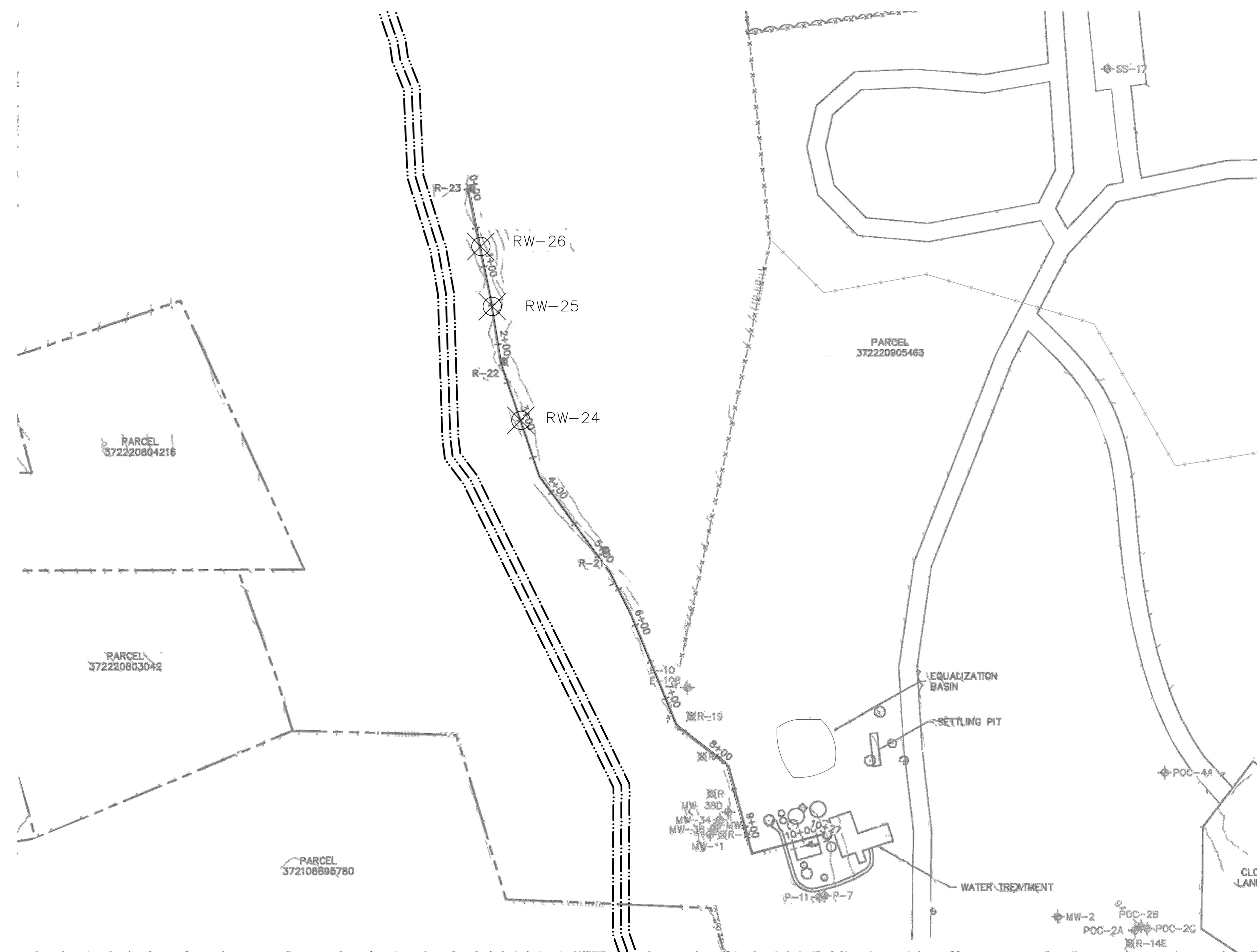
Page : 1 **Of** 1

ITEM #	SAMPLE ID <small>(A-Z, 0-9 / , -)</small> Sample IDs must be unique	COLLECTED				Preservatives												Requested Analysis Filtered (Y/N)													
		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	START	END	SAMPLE TEMP AT COLLECTION												# OF CONTAINERS													
						DATE	TIME	DATE	TIME	Unpreserved												Preservatives									
1	BR-3 (36-60)	-	-	3/16/21	1630	3	3	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N																
2	BR-3 (60-84)	-	-	3/16/21	1805	3	3																								
3	BR-3 (80-100)	-	-	3/17/21	0945	3	3																								
4	BR-2 (60-80)	-	-	3/17/21	1300	3	3																								
5	BR-2 (80-100)	-	-	3/17/21	1455	3	3																								
6	DUP-1 (031721)	-	-	3/17/21	-	3	3																								
7	BR-1 (60-80)	-	-	3/18/21	1005	9	9																								
8	BR-1 (80-100)	-	-	3/18/21	1150	3	3																								
9	TR-1 (031821)	-	-	-	-	2	2																								
10																															
11																															
12																															
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS																							
		MATT CREEL / PACELABS	3/18/21	1200	RECEIVED	3/18/21	1650	36	4	N	V																				
SAMPLE NAME AND SIGNATURE																															
PRINT Name of SAMPLER:		MATT CREEL																													
SIGNATURE of SAMPLER:		MATT CREEL																													
DATE Signed:		3/18/21																													

Attachment 5

RAS Expansion Design Drawings





LEGEND

- | | |
|-------------|---|
| — | PROPERTY LINE |
| — | PARCEL BOUNDARY |
| — * — * | EXISTING FENCE |
| — | EXISTING CONVEYANCE PIPING |
| — · · · · — | CREEK ALIGNMENT |
| | MW-11 EXISTING MONITORING WELL LOCATION |
| | RW-21 EXISTING RECOVERY WELL LOCATION |
| | RW-24 PROPOSED RECOVERY WELL LOCATION |
| | C-5 EXISTING STREAM SAMPLE LOCATION |
| | S-8 EXISTING STREAM GAUGE LOCATION |
| | R-22 EXISTING WELL LOCATION |

\Users\NPawlowski\ARCADIS\Bagley, Chris - GE Hickory_RAS System Files\

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Prof
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NC
Des
AT

Professional Engineer's Name	
MATTHEW T. PE	
Professional Engineer's No.	
9382	
Initials	Date Signed
	07/20/2022
Signed by	Drawn by
Z	NAP

LTON
Project Mgr. MTP

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ARCADIS

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HICKORY FACILITY PROPOSED **DEVELOPMENT**

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ARCADIS Project
30006303

Date
MAY 27, 2021

ARCADIS
5420 WADE PARK
RALEIGH, NC 27617
TEL. 919.854.1283

Unit No.

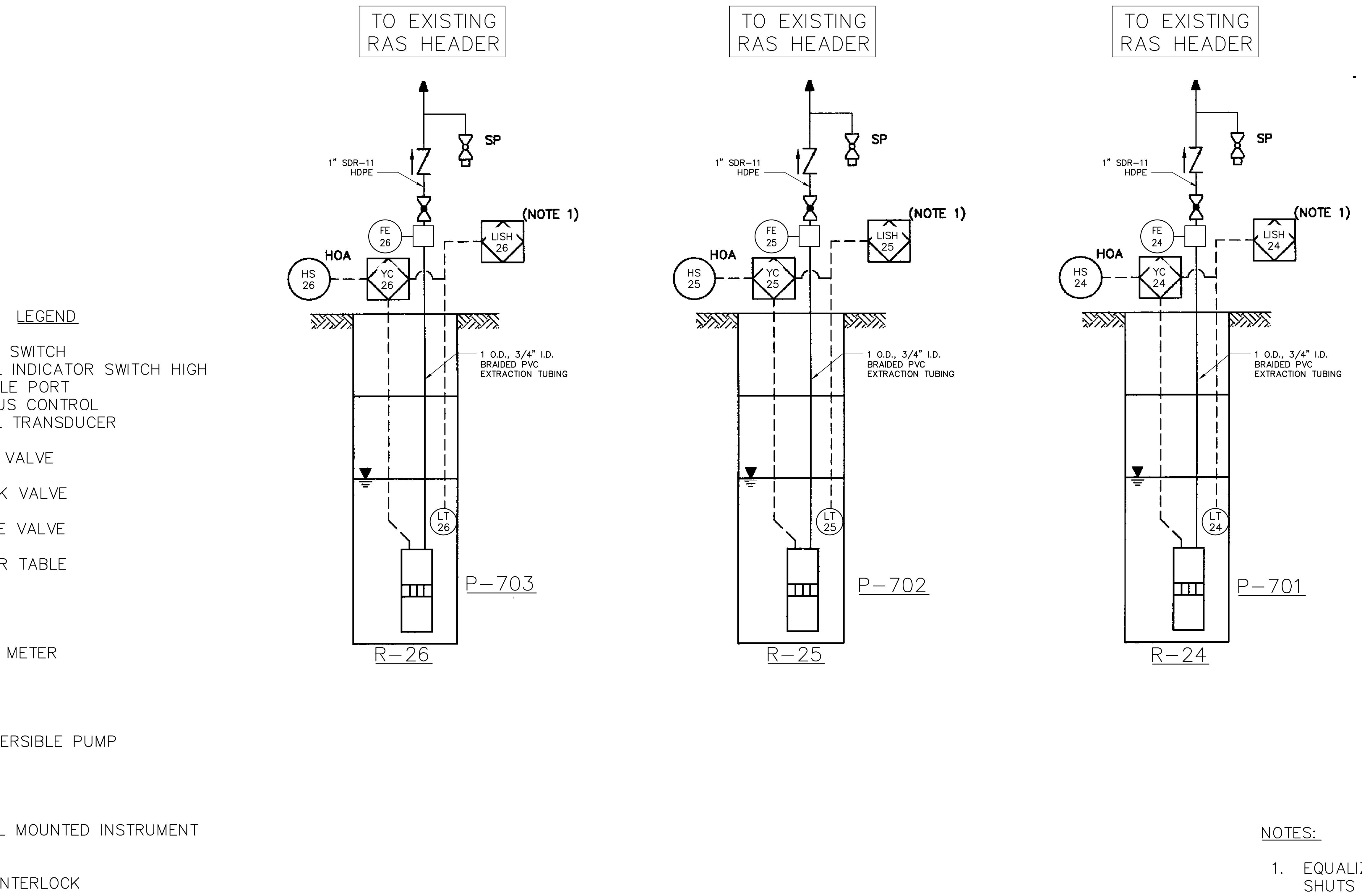


ARCADIS G&M OF NORTH CAROLINA
INC.

GE HICKORY FACILITY, CONOVER, NORTH CAROLINA PROPOSED RAS EXPANSION PLAN

SITE DEVELOPMENT PLAN

CIVIL



			Professional Engineer's Name MATTHEW T. PEL
			Professional Engineer's No. 029382
			Date Signed 07/20/2021
	By	Ckd	Designed by ATZ
IN THE TITLE BLOCK WITHOUT THE			Drawn by NAP



ARCADIS G&M OF NORTH CAROLIN
INC.

GE HICKORY FACILITY, CONOVER, NORTH CAROLINA
PROPOSED RAS EXPANSION PLAN

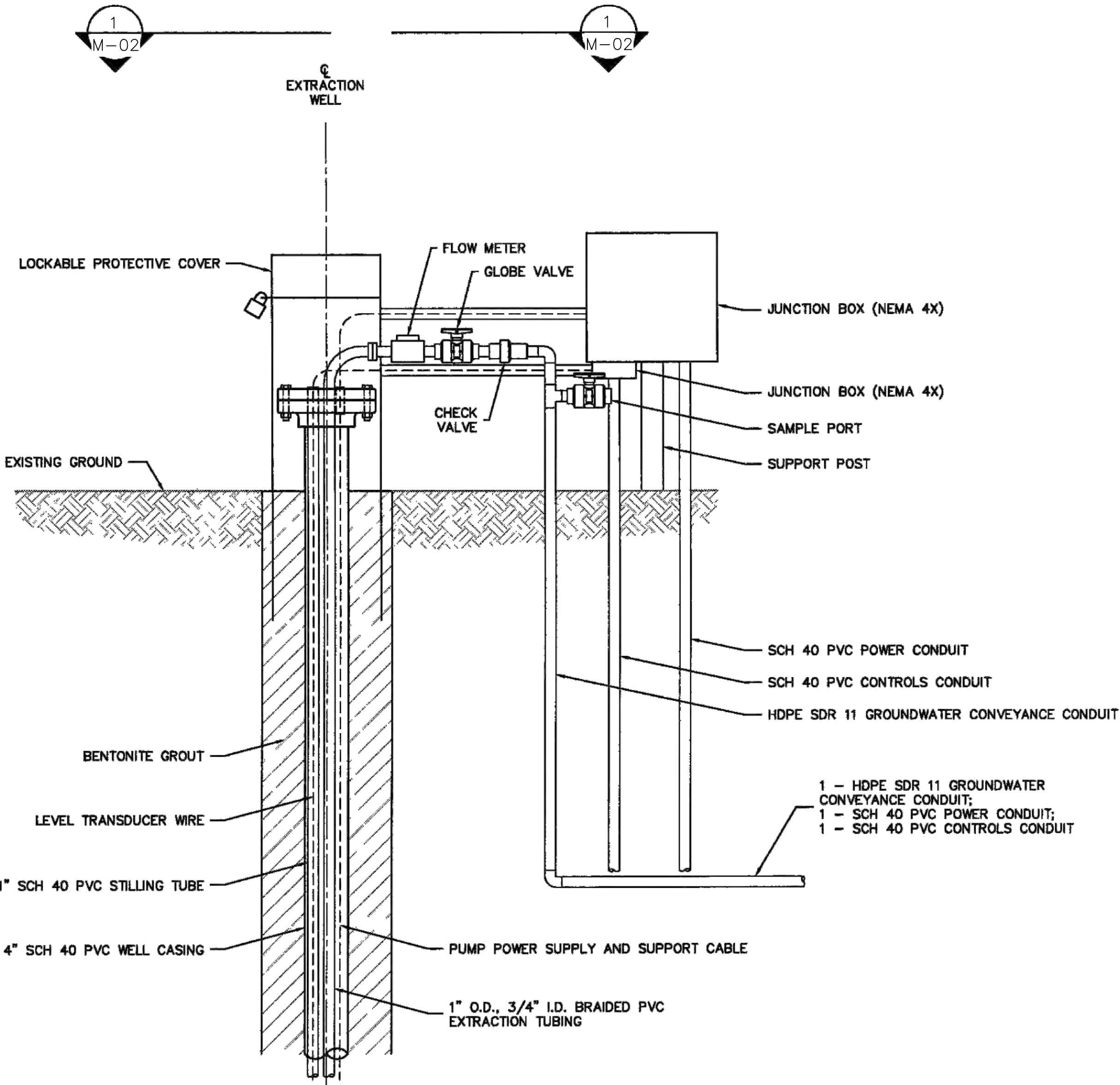
PIPING AND INSTRUMENTATION DIAGRAMS

ARCADIS Project No.
30006303

Date
MAY 27, 2021

ARCADIS
5420 WADE PARK BLVD #350
RALEIGH, NC 27607
TEL. 919.854.1282

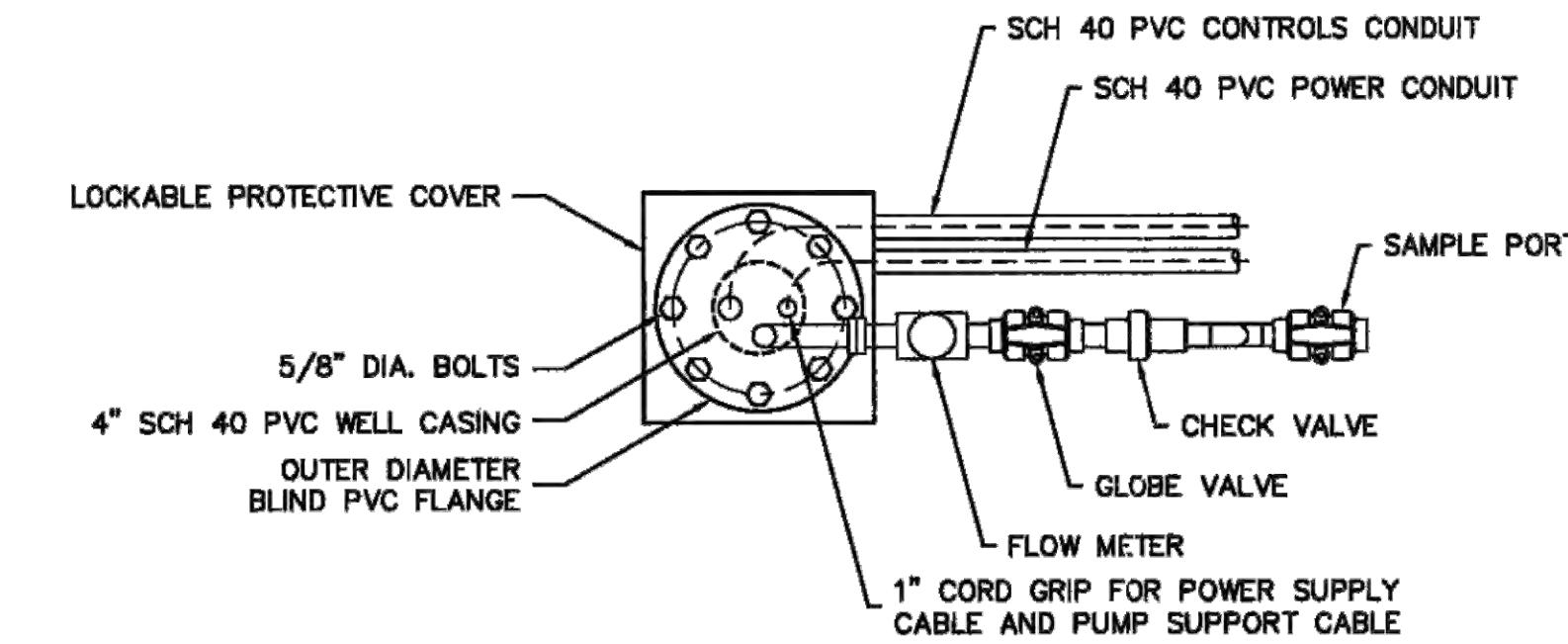
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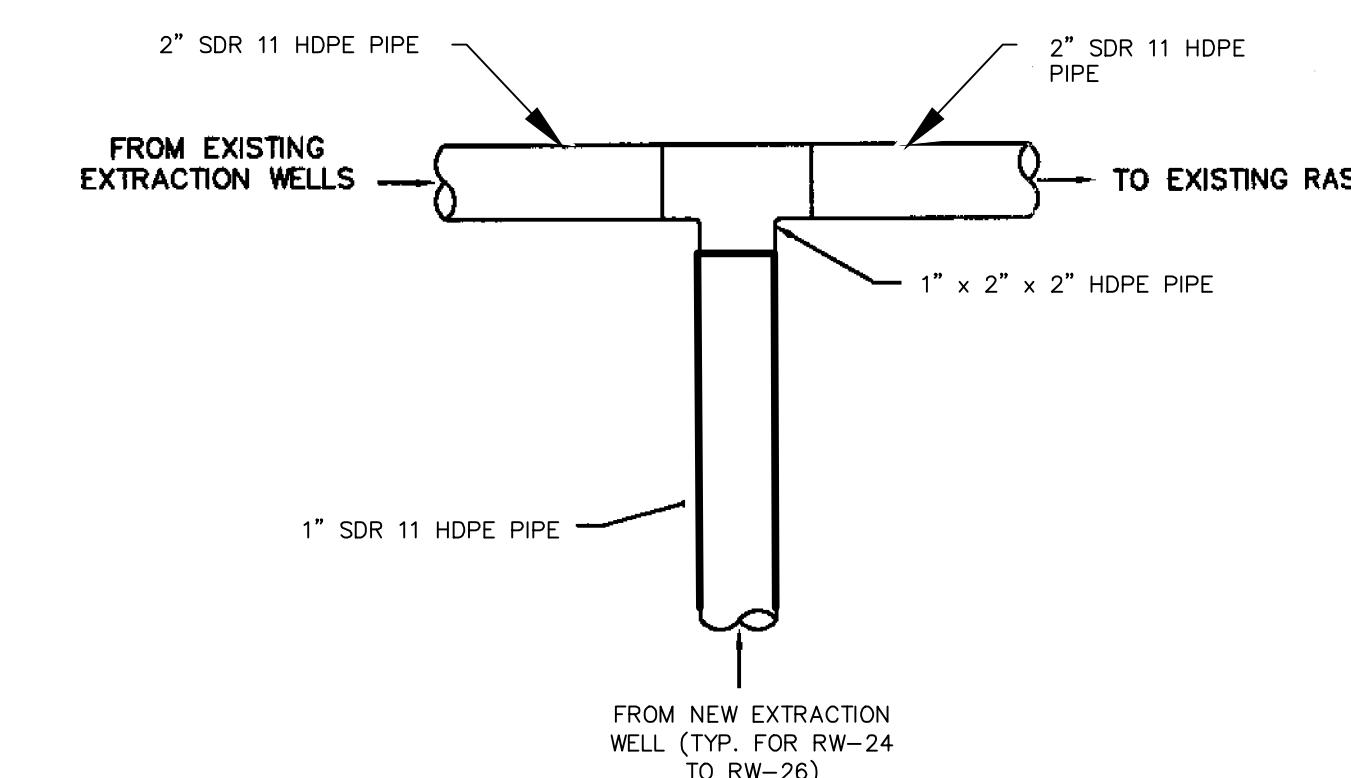
DETAIL
EXTRACTION WELL VAULT (PROFILE)
SCALE: 1" = 8"

NOTES:

1. THE GROUNDWATER CONVEYANCE CONDUIT INSTALLED ABOVE GRADE SHALL BE INSULATED WITH AN INSULATION HAVING A MINIMUM R FACTOR OF 6.5 DETERMINED AT 75° F IN ACCORDANCE WITH ASTM C-177



SECTION
EXTRACTION WELL VAULT (PLAN VIEW)
SCALE: 1" = 8"



DETAIL
NEW EXTRACTION WELL TIE IN DETAIL (PLAN VIEW)
SCALE: NTS

NOTES:

1. REPAIR SURFACE TO PRE-EXISTING CONDITION AFTER INSTALLATION
2. CONTROLS AND POWER TIE INS SHALL USE 2" SCH 40 PVC CONDUIT

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:	SCALE(S) AS INDICATED	Professional Engineer's Name MATTHEW T. PELTON				Design & Consultancy for natural and built assets	GE HICKORY FACILITY, CONOVER, NORTH CAROLINA PROPOSED RAS EXPANSION PLAN	M-02
		State NC	Date Signed 07/20/2021	Project Mgr. MTP	ARCADIS G&M OF NORTH CAROLINA, INC.			
THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.	USE TO VERIFY FIGURE REPRODUCTION SCALE	No. Date	Revisions	By Ckd	Designed by ATZ	Drawn by NAP	Checked by PJH	ARCADIS Project No. 30006303