APPENDIX 5
Suggested Notice of Intent (NOI) Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY - REGION 1

Request for General Permit Authorization to Discharge Noncontact Cooling Water to be covered by the Noncontact Cooling Water General Permit (NCCWGP) NPDES General Permits No. MAG250000 and NHG250000

A. Facility Information

1. Indicate applicable General Permit: MAG250000 ☑ NHG250000 ☐

2. Facility Information/Location:
Facility Name HAARTZ CORPORATION
Street/PO Box 87 HAYWARD ROAD City ACTON
State MA Zip Code 01720
Latitude 42.48184°N Longitude -71.45486°W

Type of Business MANUFACTURING
SIC Code(s) 2295

3. Facility Mailing address (if different from Location Address):
Facility Name
Street/PO Box City
State Zip Code

4. Facility Owner:
Name ERIC HAARTZ
E-mail EHAARTZ@HAARTZ.COM
Street/PO Box 87 HAYWARD ROAD City ACTON
State MA Zip Code 01720

Contact Person BRIAN BUNTEN Contact 978-264-2778 BBUNTEN@HAARTZ.COM
Owner is (check one): Federal ____ State ____ Tribal ____ Private X
Other (describe)

5. Facility Operator (if different from above):
Name DOUGLAS SIEBER
E-mail DSIEBER@HAARTZ.COM
Street/PO Box 87 HAYWARD RD City ACTON Zip Code 01720
State MA Contact COO Telephone 978-264-2701

6. Current permit coverage: yes■ no☐

a) Has a prior NPDES permit (individual or general permit coverage) been granted for the discharge that is listed on the NOI? yes■ no☐ If Yes, permit number MAG250006

b) Is the facility covered by an individual NPDES permit for other discharges? yes☐ no■
If yes, Permit Number: _____

c) Is there a pending NPDES application on file with EPA for this discharge? yes☐ no■
If yes, date of submittal: _____ and permit number, if available _____

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water.

B. Map attached? ■ **Discharge Information** (attach additional sheets as needed):

1. Name of receiving water into which discharge will occur: CONANT BROOK
Freshwater ■ Marine Water ☐; State Water Quality Classification Class B
Type of Receiving Water Body (e.g., stream, river, lake, reservoir, estuary, etc.) BROOK, STREAM
Note: NCCW does not discharge directly to Conant brook

2. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing to flow, treatment units, outfalls, and receiving water(s).
Line drawing or flow diagram attached? ■

3. Describe the discharge activities for which the owner/applicant is seeking coverage (e.g., building cooling, process line cooling, etc.) PROCESS LINE COOLING

4. Number of Outfalls 1 Latitude and Longitude to the nearest second for each Outfall. See EPA's siting tool at https://www.epa.gov/toxics-release-inventory-tri-program/tri-data-and-tools. Attach additional pages if necessary.

Outfall # 002 Latitude 42.48193°N Longitude 71.45292°W
Outfall # Latitude _____ Longitude _____
Outfall # Latitude _____ Longitude _____

5. For each Outfall provide the following discharge information:

Outfall # 002
a) Maximum Daily Flow 0.010 MGD Average Monthly Flow 0.120 MGD
NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.
b) Maximum Daily Temperature 71 °F Average Monthly Temperature 64 °F
c) Maximum Monthly pH 8.0 s.u. Minimum Monthly pH 6.6 s.u.
d) Outfall's discharge is: continuous ■ intermittent ☐ seasonal ☐

Outfall # _____
a) Maximum Daily Flow _____ MGD Average Monthly Flow _____ MGD
NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.
b) Maximum Daily Temperature _____ °F Average Monthly Temperature _____ °F
c) Maximum Monthly pH _____ s.u. Minimum Monthly pH _____ s.u.
d) Outfall's discharge is: continuous ☐ intermittent ☐ seasonal ☐

Outfall # ✓

a) Maximum Daily Flow _____MGD Average Monthly Flow _____MGD
NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.
b) Maximum Daily Temperature _____°F Average Monthly Temperature _____°F
c) Maximum Monthly pH _____s.u. Minimum Monthly pH _____s.u.
d) Outfall's discharge is: continuous ☐ intermittent ☐ seasonal ☐

6. Is the source of the NCCW potable water? yes■ no☐
If yes, EPA will calculate a Total Residual Chlorine effluent limit for your facility.

7. Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water ____MGD
Attach any calculation sheets used to support stream flow and/or dilution calculations.

8. **For facilities that discharge to Massachusetts surface waters:**

a) Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment B of the General Permit. Calculation attached? ☐
b) Does the discharge occur in an Area of Critical Environmental Concern (ACEC)? yes☐ no■
If yes, provide the name of ACEC _____
c) Does the discharge occur to an Outstanding Resource Water (ORW)? yes☐ no■
If yes, enclose antidegradation waiver approval provided by MassDEP.

Note: See Appendix 1 of the General Permit for more information on ACEC.

C. Chemical Additives

1. Are any non-toxic neutralization and/or dechlorination chemicals used in the discharge(s)? yes☐ no■

2. If yes, attach a list of each chemical used and include the chemical name and manufacturer; maximum and average daily quantity used on a monthly basis, as well as the maximum and average daily expected concentrations (mg/L) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC_{50} in percent for typically acceptable aquatic organism). NA

3. Was this list submitted with the facility's 2014 NCCWGP NOI? yes☐ no☐ NA✗

D. NCCW Source Water Information

1. State the source of the NCCW (e.g., municipal water supply, private well, surface water withdrawal, etc.).
Source Private Well Name of Source Water_____

2. Is the source water registered/permitted under MA Water Management Act or NHDES User Registration Rule (ENV WQ 2202)? yes☐ no■ If yes, registration number _____

3. If the source water is groundwater (non-municipal well water), see Appendix 9 of the General Permit and submit effluent (and receiving water hardness) test results, as required in Part 5.4 of the General Permit.
Test results attached? ■

4. Does the facility use both a primary and backup source of NCCW? yes☐ no■ If yes, **attach information** that identifies and describes the primary and backup sources of NCCW and how often any backup supply was used in the past five years.

E. Best Technology Available for Cooling Water Intake Structures (CWISs)

If the facility's non-contact cooling water discharge is covered by this General Permit and the facility **withdraws water from a surface water**, it is subject to the BTA requirements at Part 4.2 of the General Permit.

1. Are you subject to the BTA requirements of the General Permit? yes☐ no■
   a) If no, explain do not withdraw from surface water and skip to F.
   b) If yes, submit a facility-specific BTA description that accurately describes the facility's operations and practices, including, but not limited to, the measures described in Part 5.5 of the General Permit. For additional information and guidance, see Section IV of the Fact Sheet.

Include in your description:
a) Measures to meet the General Permit Part 4.2.1 general BTA requirements, including documentation that describes the facility's monitoring program for impinged fish and/or invertebrates; or the required alternative monitoring plan frequency and/or protocol.
b) The attributes of the current CWIS. NA
c) The design measures of the CWIS.
d) The operational measures of the CWIS.
e) The historical occurrence of impinged fish for the past five years.
f) If applicable, a demonstration that the facility's intake rate is commensurate with a closed-cycle recirculation system.
g) Other components to reduce impingement and/or entrainment of aquatic life.

2. Provide the following information for each CWIS to support your attached facility-specific BTA description:
   a) The design capacity of the of the CWIS _____MGD
   b) Maximum monthly average intake of the CWIS during the previous five years _____MGD
   c) The month and year in which this flow reported in 2.b. occurred _____
   d) The maximum through-screen design intake velocity _____feet/second (fps) NA

3. For facilities where the CWIS is located on a freshwater river or stream, provide the following information:
   a) The source water's annual mean flow in MGD as available from USGS or other appropriate source _____MGD
   b) The design intake flow as a % of the source water's annual mean flow _____% Attach calculations if equal to or less than 5% of annual mean flow.
   c) The source water's 7Q10 _____MGD NA
   d) The design intake flow as a percent of the source water's 7Q10 _____%

4. Provide a map showing the location of each cooling water intake structure; NCCW Outfall(s) and CWIS features referred to in the BTA description. **Map attached?** ☐

F. Endangered Species Act Eligibility Information

If your facility is listed in Table A as one of the 37 facilities covered under the 2014 NCCW GP, check this box. ■
Your ESA consultation responsibilities have been satisfied by EPA. Proceed to Part G.

If your facility is not included as one of the 37 facilities covered under the 2014 NCCW GP, complete this Part.

Using the instructions in Appendix 2, Parts B(1) and B(2) of the NCCW GP, which of the following criteria apply to your facility?

United States Fish and Wildlife Service (USFWS) Criteria: A ☒ B ☐ C ☐

National Oceanic and Atmospheric Administration Fisheries Service (NOAA Fisheries) Criteria: A ☒ B ☐ C ☐

1. If you selected USFWS criterion B, has consultation with the USFWS been completed? yes☐ no☐
   If you selected NOAA Fisheries criterion B, has consultation with NOAA Fisheries been completed? yes☐ no☐

NA

2. If consultation with USFWS and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received?
   USFWS yes☐ no☐ N/A☐ NOAA Fisheries yes☐ no☐ N/A☐

NA

3. Attach documentation of ESA eligibility for USFWS and NOAA Fisheries as required at Appendix 2, Part C. of the General Permit. **Documentation attached?** USFWS☐ NOAA Fisheries ☐

NA

4. Please indicate if your facility **directly intakes water for non-contact cooling from, or discharges any NCCW effluent to,** any of the following waterbodies:

NA

- ☐ Merrimack River
- ☐ Connecticut River
- ☐ Westfield River
- ☐ Deerfield River
- ☐ Piscataqua River
- ☐ Salmon Falls River
- ☐ Cocheco River
- ☐ Taunton River

EPA will consult with NOAA Fisheries on any cooling water intakes or discharges covered under this permit in areas (in the above waterbodies) that overlap with the presence of shortnose sturgeon (endangered) and Atlantic sturgeon (threatened/endangered).

Please indicate if your facility **directly intakes water for non-contact cooling** from, **or discharges non-contact cooling water effluent to**, the Connecticut River Watershed. EPA will consult with the U.S Fish and Wildlife Service on cooling water intakes and discharges covered under this permit in areas of the Connecticut River Watershed that overlap with the presence of the dwarf wedgemussel (endangered).

yes☐ no☒

G. National Historic Properties Act Eligibility

1. Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? yes☐ no■

2. Have any State or Tribal Historic Preservation Officers been consulted in this determination? yes☐no■
   If yes, attach the results of the consultation(s).

3. Which of the three National Historic Preservation Act scenarios listed in Appendix 3, Section C has the facility met?
   ■ 1 ☐ 2 ☐ 3

H. Supplemental Information

Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any analytical data used to support the application. Attach any certification(s) required by the General Permit.

I. Signature Requirements

The NOI must be signed by the operator in accordance with the signatory requirements of 40 CFR§ 122.22 (see below) including the following certification:

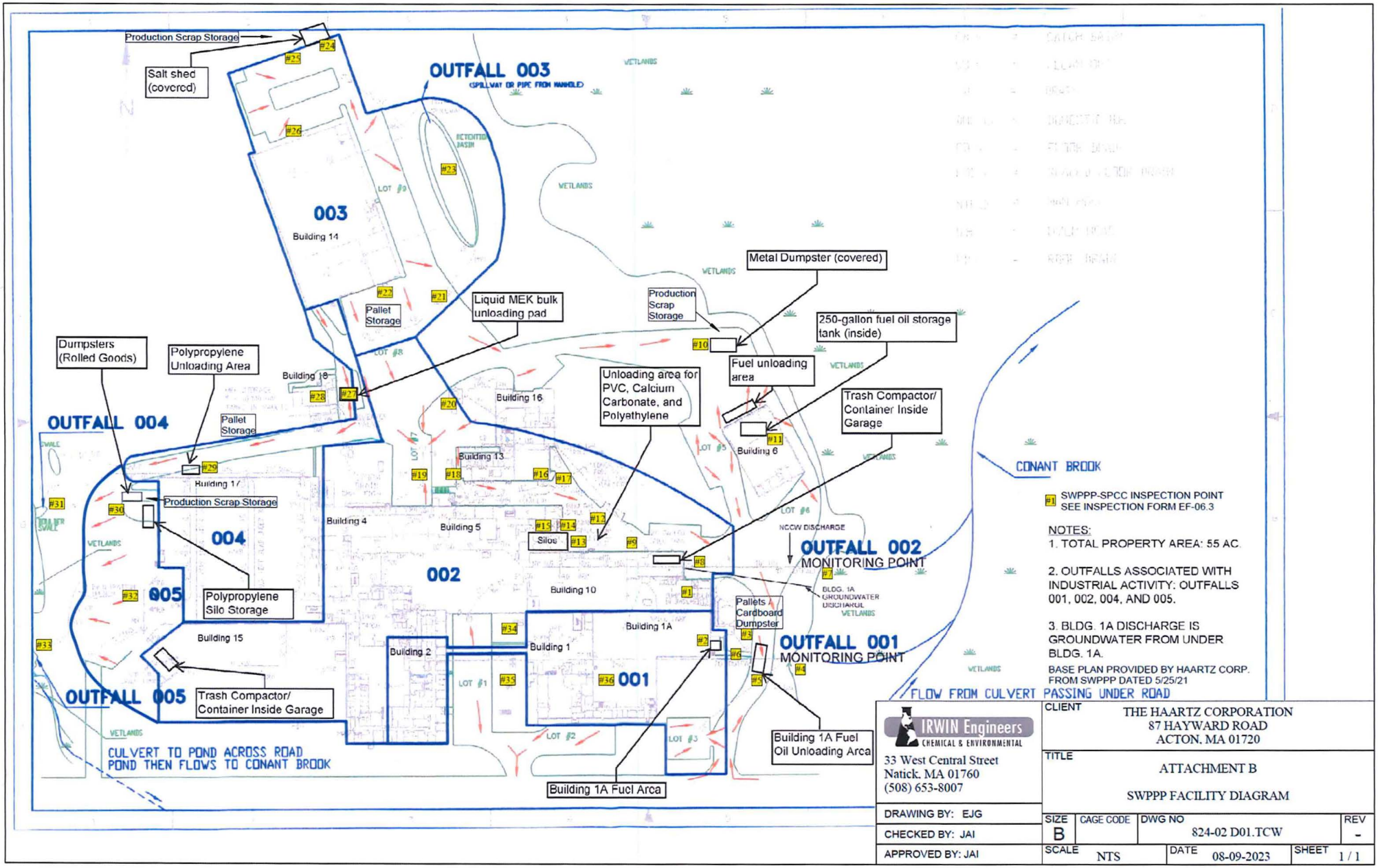
> I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.
>
> Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature _____ Date 8/5/24

Printed Name and Title Douglas Sieber, Chief Operations Officer

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.



#1 SWPPP-SPCC INSPECTION POINT
SEE INSPECTION FORM EF-06.3

NOTES:
1. TOTAL PROPERTY AREA: 55 AC.

2. OUTFALLS ASSOCIATED WITH INDUSTRIAL ACTIVITY: OUTFALLS 001, 002, 004, AND 005.

3. BLDG. 1A DISCHARGE IS GROUNDWATER FROM UNDER BLDG. 1A.

BASE PLAN PROVIDED BY HAARTZ CORP. FROM SWPPP DATED 5/25/21

IRWIN Engineers
CHEMICAL & ENVIRONMENTAL
33 West Central Street
Natick, MA 01760
(508) 653-8007

DRAWING BY: EJG
CHECKED BY: JAI
APPROVED BY: JAI

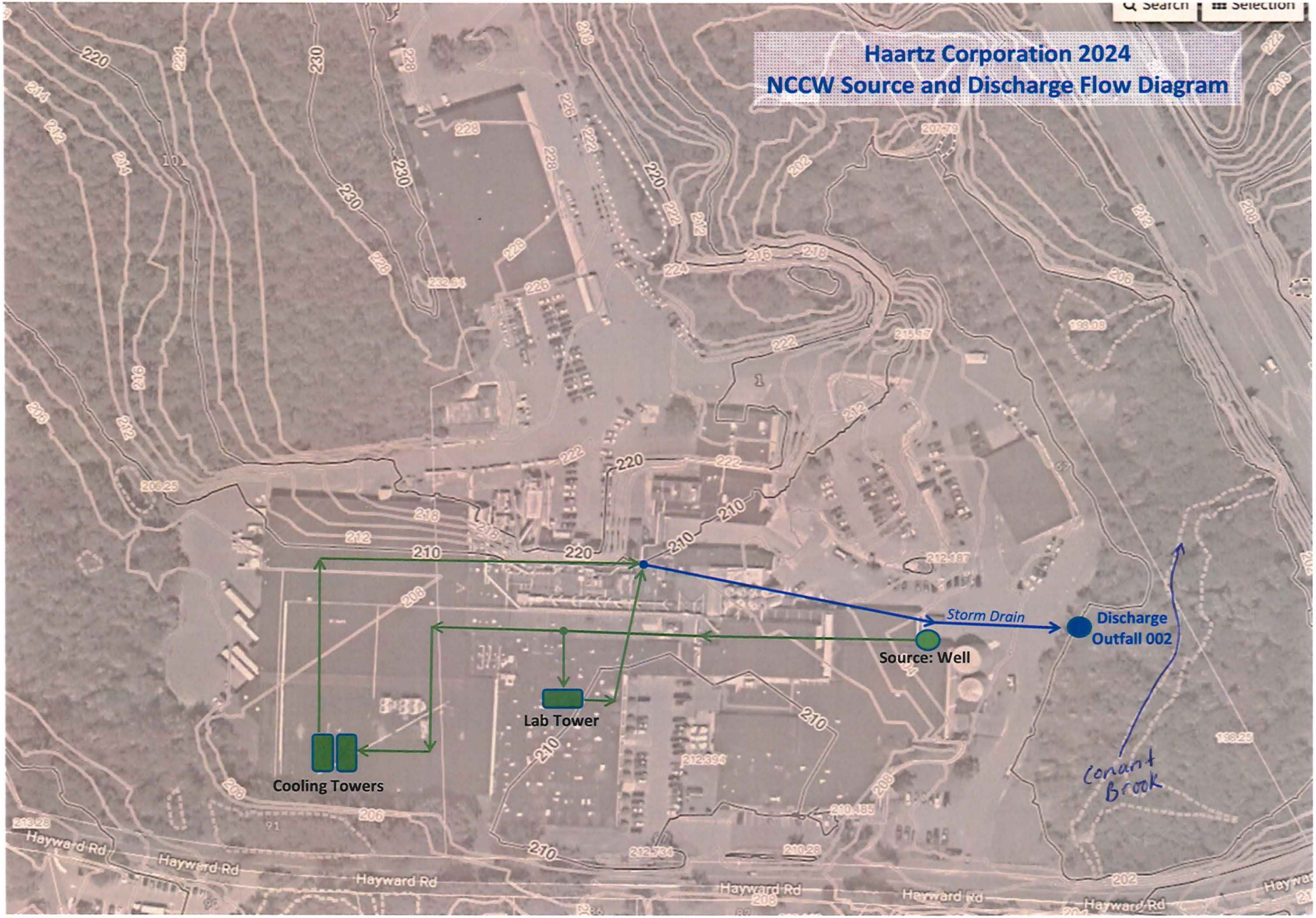
CLIENT: THE HAARTZ CORPORATION
87 HAYWARD ROAD
ACTON, MA 01720

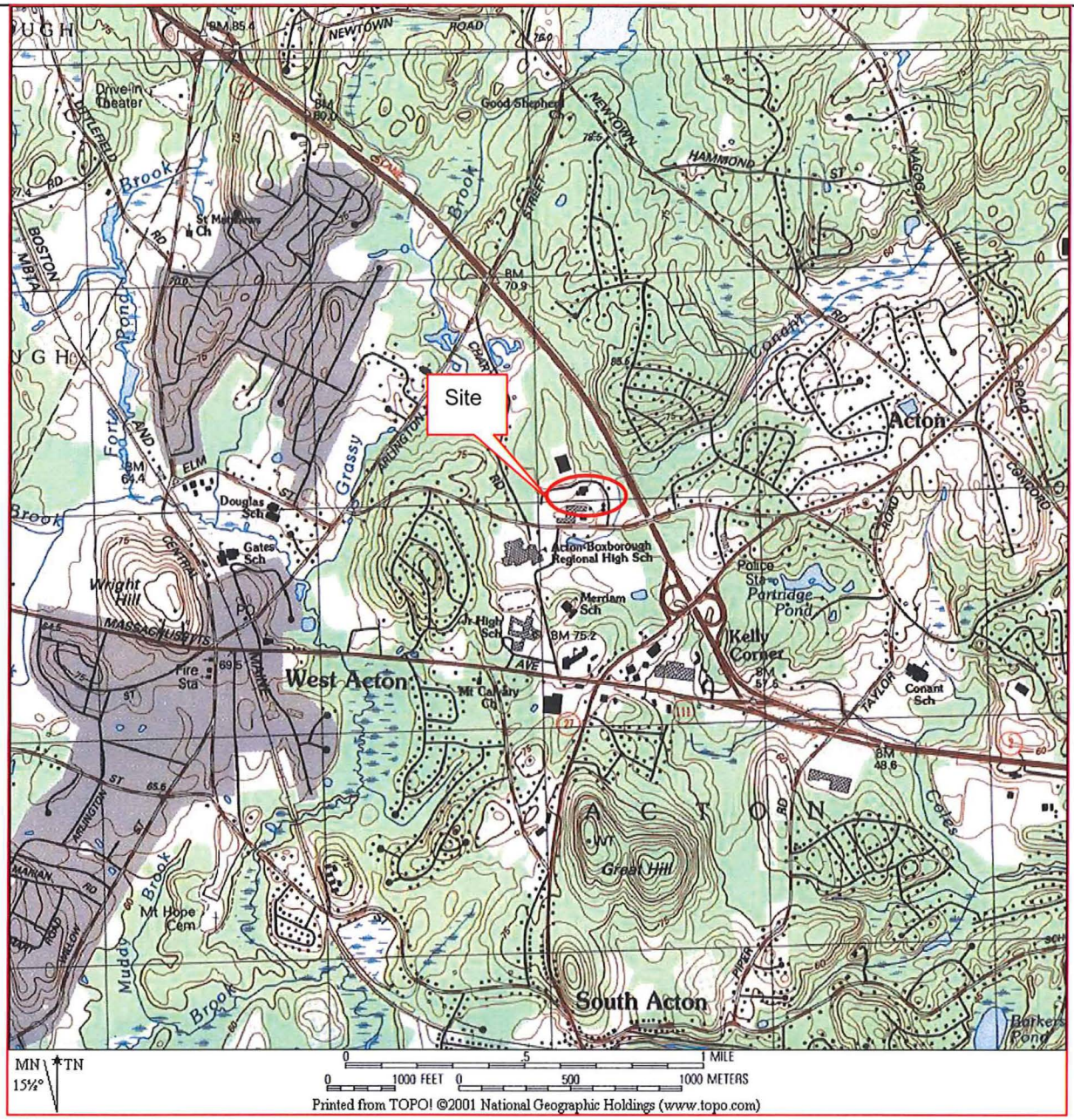
TITLE: ATTACHMENT B

SWPPP FACILITY DIAGRAM

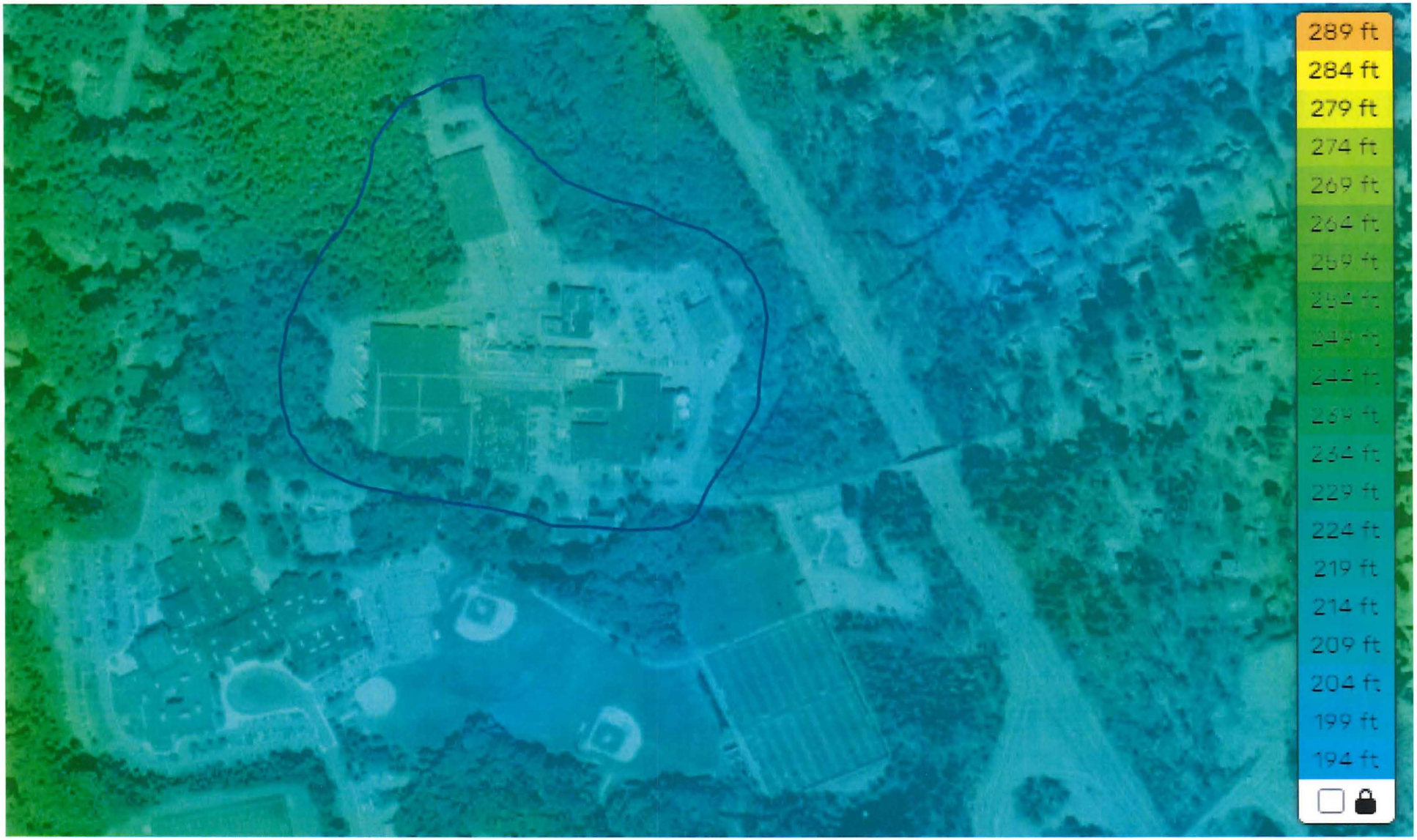
SIZE	CAGE CODE	DWG NO	REV
B		824-02 D01.TCW	-

SCALE	DATE	SHEET
NTS	08-09-2023	1 / 1


Haartz Corporation 2024
NCCW Source and Discharge Flow Diagram
Storm Drain
Discharge
Outfall 002
Source: Well
Lab Tower
Cooling Towers
Conant Brook
Hayward Rd
Hayward Rd
Hayward Rd
Hayward Rd
Hayward Rd
Hayward Rd



	SITE LOCUS	Haartz Corporation 87 Hayward Road Acton, MA January 2007	Attachment A General Location Map
1:15 375			www.aecom.com


289 ft
284 ft
279 ft
274 ft
269 ft
264 ft
259 ft
254 ft
249 ft
244 ft
239 ft
234 ft
229 ft
224 ft
219 ft
214 ft
209 ft
204 ft
199 ft
194 ft

ANALYTICAL REPORT

Lab Number:	L2430501
Client:	AECOM 250 Apollo Drive Chelmsford, MA 01824
ATTN:	David Carbonneau
Phone:	(978) 905-2100
Project Name:	HAARTZ NCCW
Project Number:	60137080
Report Date:	06/25/24

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: HAARTZ NCCW
Project Number: 60137080

Lab Number: L2430501
Report Date: 06/25/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2430501-01	EFFLUENT_05312024	WATER	87 HAYWARD RD	05/31/24 15:10	06/03/24
L2430501-02	RECEIVING_05312024	WATER	87 HAYWARD RD	05/31/24 15:50	06/03/24

Project Name:	HAARTZ NCCW	**Lab Number:**	L2430501
Project Number:	60137080	**Report Date:**	06/25/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: HAARTZ NCCW
Project Number: 60137080
Lab Number: L2430501
Report Date: 06/25/24

Case Narrative (continued)

Report Submission

The analyses of Uranium, Gross Alpha, and Radium were subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Total Metals

L2430501-01: The sample has elevated detection limits for all elements, with the exception of iron and mercury, due to the dilution required by the sample matrix.

The WG1937151-1 Method Blank, associated with L2430501-01 and -02, has a concentration above the reporting limit for mercury. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

The WG1937151-2 LCS recovery, associated with L2430501-01 and -02, is above the acceptance criteria for mercury (138%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 06/25/24

METALS

Project Name: HAARTZ NCCW
Project Number: 60137080
Lab Number: L2430501
Report Date: 06/25/24

SAMPLE RESULTS

Lab ID: L2430501-01
Client ID: EFFLUENT_05312024
Sample Location: 87 HAYWARD RD
Sample Depth:
Matrix: Water

Date Collected: 05/31/24 15:10
Date Received: 06/03/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.08000	--	20	06/20/24 23:37	06/22/24 11:24	EPA 3005A	3,200.8	MRC
Arsenic, Total	ND		mg/l	0.02000	--	20	06/20/24 23:37	06/22/24 11:24	EPA 3005A	3,200.8	MRC
Cadmium, Total	ND		mg/l	0.00400	--	20	06/20/24 23:37	06/22/24 11:24	EPA 3005A	3,200.8	MRC
Chromium, Total	ND		mg/l	0.02000	--	20	06/20/24 23:37	06/22/24 11:24	EPA 3005A	3,200.8	MRC
Copper, Total	0.07273		mg/l	0.02000	--	20	06/20/24 23:37	06/22/24 11:24	EPA 3005A	3,200.8	MRC
Iron, Total	0.118		mg/l	0.0500	--	1	06/20/24 23:37	06/22/24 13:29	EPA 3005A	19,200.7	MAM
Lead, Total	ND		mg/l	0.02000	--	20	06/20/24 23:37	06/22/24 11:24	EPA 3005A	3,200.8	MRC
Mercury, Total	ND		mg/l	0.00020	--	1	06/21/24 00:29	06/22/24 14:14	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.04000	--	20	06/20/24 23:37	06/22/24 11:24	EPA 3005A	3,200.8	MRC
Silver, Total	ND		mg/l	0.00800	--	20	06/20/24 23:37	06/22/24 11:24	EPA 3005A	3,200.8	MRC
Zinc, Total	ND		mg/l	0.1000	--	20	06/20/24 23:37	06/22/24 11:24	EPA 3005A	3,200.8	MRC
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	2890		mg/l	0.660	NA	1	06/20/24 23:37	06/22/24 13:29	EPA 3005A	19,200.7	MAM

Project Name: HAARTZ NCCW
Lab Number: L2430501
Project Number: 60137080
Report Date: 06/25/24

SAMPLE RESULTS

Lab ID: L2430501-02
Client ID: RECEIVING_05312024
Sample Location: 87 HAYWARD RD
Date Collected: 05/31/24 15:50
Date Received: 06/03/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.00400	--	1	06/20/24 23:37	06/22/24 10:20	EPA 3005A	3,200.8	MRC
Arsenic, Total	0.00177		mg/l	0.00100	--	1	06/20/24 23:37	06/22/24 10:20	EPA 3005A	3,200.8	MRC
Cadmium, Total	ND		mg/l	0.00020	--	1	06/20/24 23:37	06/22/24 10:20	EPA 3005A	3,200.8	MRC
Chromium, Total	ND		mg/l	0.00100	--	1	06/20/24 23:37	06/22/24 10:20	EPA 3005A	3,200.8	MRC
Copper, Total	0.00134		mg/l	0.00100	--	1	06/20/24 23:37	06/22/24 10:20	EPA 3005A	3,200.8	MRC
Iron, Total	1.09		mg/l	0.0500	--	1	06/20/24 23:37	06/22/24 13:36	EPA 3005A	19,200.7	MAM
Lead, Total	ND		mg/l	0.00100	--	1	06/20/24 23:37	06/22/24 10:20	EPA 3005A	3,200.8	MRC
Mercury, Total	ND		mg/l	0.00020	--	1	06/21/24 00:29	06/22/24 14:17	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.00200	--	1	06/20/24 23:37	06/22/24 10:20	EPA 3005A	3,200.8	MRC
Silver, Total	ND		mg/l	0.00040	--	1	06/20/24 23:37	06/22/24 10:20	EPA 3005A	3,200.8	MRC
Zinc, Total	ND		mg/l	0.00500	--	1	06/20/24 23:37	06/22/24 10:20	EPA 3005A	3,200.8	MRC
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	42.0		mg/l	0.660	NA	1	06/20/24 23:37	06/22/24 13:36	EPA 3005A	19,200.7	MAM

Project Name: HAARTZ NCCW
Project Number: 60137080
Lab Number: L2430501
Report Date: 06/25/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1937145-1										
Antimony, Total	ND		mg/l	0.00400	--	1	06/20/24 23:37	06/21/24 11:25	3,200.8	EJF
Arsenic, Total	ND		mg/l	0.00100	--	1	06/20/24 23:37	06/21/24 11:25	3,200.8	EJF
Cadmium, Total	ND		mg/l	0.00020	--	1	06/20/24 23:37	06/21/24 11:25	3,200.8	EJF
Chromium, Total	ND		mg/l	0.00100	--	1	06/20/24 23:37	06/21/24 11:25	3,200.8	EJF
Copper, Total	ND		mg/l	0.00100	--	1	06/20/24 23:37	06/21/24 11:25	3,200.8	EJF
Lead, Total	ND		mg/l	0.00100	--	1	06/20/24 23:37	06/21/24 11:25	3,200.8	EJF
Nickel, Total	ND		mg/l	0.00200	--	1	06/20/24 23:37	06/21/24 11:25	3,200.8	EJF
Silver, Total	ND		mg/l	0.00040	--	1	06/20/24 23:37	06/21/24 11:25	3,200.8	EJF
Zinc, Total	ND		mg/l	0.00500	--	1	06/20/24 23:37	06/21/24 11:25	3,200.8	EJF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1937150-1										
Iron, Total	ND		mg/l	0.0500	--	1	06/20/24 23:37	06/22/24 10:19	19,200.7	MAM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01-02 Batch: WG1937150-1										
Hardness	ND		mg/l	0.660	NA	1	06/20/24 23:37	06/22/24 10:19	19,200.7	MAM

Prep Information

Digestion Method: EPA 3005A

Project Name: HAARTZ NCCW
Project Number: 60137080
Lab Number: L2430501
Report Date: 06/25/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1937151-1										
Mercury, Total	0.00027		mg/l	0.00020	--	1	06/21/24 00:29	06/22/24 13:50	3,245.1	DJR

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAARTZ NCCW

Project Number: 60137080

Lab Number: L2430501

Report Date: 06/25/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1937145-2								
Antimony, Total	91		-		85-115	-		
Arsenic, Total	100		-		85-115	-		
Cadmium, Total	100		-		85-115	-		
Chromium, Total	94		-		85-115	-		
Copper, Total	98		-		85-115	-		
Lead, Total	101		-		85-115	-		
Nickel, Total	96		-		85-115	-		
Silver, Total	101		-		85-115	-		
Zinc, Total	96		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1937150-2								
Iron, Total	97		-		85-115	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-02 Batch: WG1937150-2								
Hardness	100		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1937151-2								
Mercury, Total	**138**	Q	-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: HAARTZ NCCW
Project Number: 60137080

Lab Number: L2430501
Report Date: 06/25/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1937145-3 QC Sample: L2433968-01 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.4599	92		-	-		70-130	-		20
Arsenic, Total	0.0015	0.12	0.1188	98		-	-		70-130	-		20
Cadmium, Total	ND	0.053	0.05319	100		-	-		70-130	-		20
Chromium, Total	ND	0.2	0.1840	92		-	-		70-130	-		20
Copper, Total	0.0017	0.25	0.2340	93		-	-		70-130	-		20
Lead, Total	ND	0.53	0.5182	98		-	-		70-130	-		20
Nickel, Total	ND	0.5	0.4634	93		-	-		70-130	-		20
Silver, Total	ND	0.05	0.04924	98		-	-		70-130	-		20
Zinc, Total	ND	0.5	0.4684	94		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1937145-5 QC Sample: L2433974-01 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.4550	91		-	-		70-130	-		20
Arsenic, Total	0.0022	0.12	0.1181	96		-	-		70-130	-		20
Cadmium, Total	ND	0.053	0.05152	97		-	-		70-130	-		20
Chromium, Total	0.0038	0.2	0.2122	104		-	-		70-130	-		20
Copper, Total	0.0106	0.25	0.2665	102		-	-		70-130	-		20
Lead, Total	0.0098	0.53	0.5372	100		-	-		70-130	-		20
Nickel, Total	0.0064	0.5	0.4908	97		-	-		70-130	-		20
Silver, Total	ND	0.05	0.04831	97		-	-		70-130	-		20
Zinc, Total	0.07554	0.5	0.5734	100		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1937150-3 QC Sample: L2433968-01 Client ID: MS Sample												
Iron, Total	0.280	1	1.30	102		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: HAARTZ NCCW
Project Number: 60137080

Lab Number: L2430501
Report Date: 06/25/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1937150-3 QC Sample: L2433968-01 Client ID: MS Sample									
Hardness	179	66.2	239	91	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1937151-3 QC Sample: L2409778-95 Client ID: MS Sample									
Mercury, Total	0.00062B	0.005	0.00503	88	-	-	70-130	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAARTZ NCCW

Project Number: 60137080

Lab Number: L2430501

Report Date: 06/25/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1937145-4 QC Sample: L2433968-01 Client ID: DUP Sample						
Zinc, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1937145-6 QC Sample: L2433974-01 Client ID: DUP Sample						
Zinc, Total	0.07554	0.07688	mg/l	2		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1937150-4 QC Sample: L2433968-01 Client ID: DUP Sample						
Iron, Total	0.280	0.334	mg/l	18		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1937151-4 QC Sample: L2409778-95 Client ID: DUP Sample						
Mercury, Total	0.00062B	0.00053	mg/l	14		20

INORGANICS
&
MISCELLANEOUS

Project Name: HAARTZ NCCW
Project Number: 60137080
Lab Number: L2430501
Report Date: 06/25/24

SAMPLE RESULTS

Lab ID: L2430501-01
Client ID: EFFLUENT_05312024
Sample Location: 87 HAYWARD RD
Sample Depth:
Matrix: Water

Date Collected: 05/31/24 15:10
Date Received: 06/03/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	6.95		SU	-	NA	1	-	06/06/24 02:56	121,4500H+-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	7700		mg/l	125	--	250	-	06/20/24 22:45	44,300.0	AVT

Project Name: HAARTZ NCCW
Project Number: 60137080
Lab Number: L2430501
Report Date: 06/25/24

SAMPLE RESULTS

Lab ID: L2430501-02
Client ID: RECEIVING_05312024
Sample Location: 87 HAYWARD RD
Sample Depth:
Matrix: Water

Date Collected: 05/31/24 15:50
Date Received: 06/03/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.10		SU	-	NA	1	-	06/06/24 02:56	121,4500H+-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	109.		mg/l	5.00	--	10	-	06/20/24 22:56	44,300.0	AVT

Project Name: HAARTZ NCCW
Project Number: 60137080
Lab Number: L2430501
Report Date: 06/25/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG1937350-1										
Chloride	ND		mg/l	0.500	--	1	-	06/20/24 17:28	44,300.0	AVT

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAARTZ NCCW

Project Number: 60137080

Lab Number: L2430501

Report Date: 06/25/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1930389-1								
pH	100		-		99-101	-		5
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 Batch: WG1937350-2								
Chloride	102		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: HAARTZ NCCW
Project Number: 60137080

Lab Number: L2430501
Report Date: 06/25/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1937350-3 QC Sample: L2434065-01 Client ID: MS Sample												
Chloride	31.9	4	34.4	**62**	Q	-	-		90-110	-		18

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAARTZ NCCW

Project Number: 60137080

Lab Number: L2430501

Report Date: 06/25/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1930389-2 QC Sample: L2430501-01 Client ID: EFFLUENT_05312024						
pH (H)	6.95	6.96	SU	0		5
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1937350-4 QC Sample: L2434065-01 Client ID: DUP Sample						
Chloride	31.9	32.0	mg/l	0		18

Project Name: HAARTZ NCCW
Project Number: 60137080

Lab Number: L2430501
Report Date: 06/25/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2430501-01A	Plastic 120ml unpreserved	B	7	7	3.4	Y	Absent		CL-300(28),PH-4500(.01)
L2430501-01B	Plastic 250ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),FE-UI(180),HARDU(180),CU-2008T(180),AS-2008T(180),AG-2008T(180),HG-U(28),PB-2008T(180),CR-2008T(180),SB-2008T(180)
L2430501-01C	Plastic 500ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		SUB-URANIUM(180)
L2430501-01D	Plastic 950ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		SUB-RA228(180)
L2430501-01E	Plastic 950ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		SUB-RA226(180)
L2430501-01F	Plastic 950ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		SUB-ALPHA(180)
L2430501-02A	Plastic 120ml unpreserved	B	7	7	3.4	Y	Absent		CL-300(28),PH-4500(.01)
L2430501-02B	Plastic 250ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),FE-UI(180),HARDU(180),CU-2008T(180),HG-U(28),AG-2008T(180),AS-2008T(180),CR-2008T(180),PB-2008T(180),SB-2008T(180)
L2430501-02C	Plastic 500ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		SUB-URANIUM(180)
L2430501-02D	Plastic 950ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		SUB-RA228(180)
L2430501-02E	Plastic 950ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		SUB-RA226(180)
L2430501-02F	Plastic 950ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		SUB-ALPHA(180)

*Values in parentheses indicate holding time in days

Project Name:	HAARTZ NCCW	**Lab Number:**	L2430501
Project Number:	60137080	**Report Date:**	06/25/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	HAARTZ NCCW	**Lab Number:**	L2430501
Project Number:	60137080	**Report Date:**	06/25/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	HAARTZ NCCW	**Lab Number:**	L2430501
Project Number:	60137080	**Report Date:**	06/25/24

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name:	HAARTZ NCCW	**Lab Number:**	L2430501
Project Number:	60137080	**Report Date:**	06/25/24

REFERENCES

3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:06252417:03

CHAIN OF CUSTODY

Date Rec'd in Lab: 06/03/24 | **ALPHA Job #:** L2430501

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

- Client: AECOM
- Address: 256 Apollo Drive, Chelmsford MA 01824
- Phone: 978-905-2100
- Email: david.carbonneau@aecom.com

Project Information

- Project Name: Haartz NCCW
- Project Location: 87 Hayward Rd
- Project #: 60137080
- Project Manager: David Carbonneau
- ALPHA Quote #:

Turn-Around Time

- ☒ Standard ☐ RUSH (only confirmed if pre-approved!)
- Date Due:

Report Information - Data Deliverables

- ☐ ADEx ☒ EMAIL

Billing Information

- ☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

- ☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
- ☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
- ☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
- ☐ Yes ☐ No NPDES RGP
- ☐ Other State /Fed Program ____________ Criteria ____________

Additional Project Information:

See Bottle Order Request #470295 for full list of analysis

ANALYSIS

VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	pH CL	Total Fe, Sb, As, Cd, Cr, Cu, Pb, Ni, Ag, Zn	Sub - Alpha Sub - RA228	Sub - Uranium	Sample Comments	Total # Bottles
30501-01	EFFLUENT_05312024	5/31/24	1510	GW	SH	1	1	3	1		6
-02	~~INF~~ (SH) Receiving-05312024	5/31/24	1550	GW	SH	1	1	3	1		6
Container Type						P	P	P	P		
Preservative						A	C	C	C		

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Sean Haggett AECOM	5/31/24 1700	[signature] AAL	6-3-24 1140
[signature] AAL	6-3-24 1710	[signature]	6/3/24 1710

FORM NO: 01-01 (rev. 12-Mar-2012)

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 25, 2024

Jennifer Byrnes
Pace Westborough
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2430501
Pace Project No.: 30689454

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2024. 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 - Beaver
- Pace Analytical Services - Greensburg

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

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Customer Service, Alpha Analytical

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: L2430501
Pace Project No.: 30689454

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Beaver

225 Industrial Park Road, Beaver, WV 25813
Virginia VELAP 460148
West Virginia DEP 060
West Virginia DHHR 00412CM
North Carolina DEQ 466
Kentucky Wastewater Certification KY90039
Pennsylvania DEP 68-00839

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: L2430501
Pace Project No.: 30689454

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30689454001	**Effluent_05312024**	Water	05/31/24 15:10	06/05/24 11:00
30689454002	**Receiving_05312025**	Water	05/31/24 15:50	06/05/24 11:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: L2430501
Pace Project No.: 30689454

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30689454001	**Effluent_05312024**	EPA 200.8	WES	1	PASI-BV
		EPA 900.0	REH1	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
30689454002	**Receiving_05312025**	EPA 200.8	WES	1	PASI-BV
		EPA 900.0	REH1	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA

PASI-BV = Pace Analytical Services - Beaver
PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: L2430501
Pace Project No.: 30689454

Sample: Effluent_05312024 **Lab ID: 30689454001** Collected: 05/31/24 15:10 Received: 06/05/24 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 ICPMS Metals, Total	Analytical Method: EPA 200.8 Preparation Method: EPA 200.2 Pace Analytical Services - Beaver							
Uranium	ND	ug/L	0.50	1	06/14/24 09:14	06/14/24 15:04	7440-61-1	

Sample: Receiving_05312025 **Lab ID: 30689454002** Collected: 05/31/24 15:50 Received: 06/05/24 11:00 Matrix: Water

Comments: • Sample container opened in shipment and was empty upon arrival.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 ICPMS Metals, Total	Analytical Method: EPA 200.8 Preparation Method: EPA 200.2 Pace Analytical Services - Beaver							
Uranium	ND	ug/L	1.0	2	06/14/24 09:14	06/14/24 15:08	7440-61-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: L2430501
Pace Project No.: 30689454

QC Batch: 675843
QC Batch Method: EPA 200.2
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Beaver
Associated Lab Samples: 30689454001, 30689454002

METHOD BLANK: 3290727 Matrix: Water
Associated Lab Samples: 30689454001, 30689454002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Uranium	ug/L	ND	0.50	06/14/24 14:48	

LABORATORY CONTROL SAMPLE: 3290728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Uranium	ug/L	20	21.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3290771 3290772

Parameter	Units	30691333001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Uranium	ug/L	ND	20	20	21.9	22.1	109	110	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3290773 3290774

Parameter	Units	30692420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Uranium	ug/L	<0.25	20	20	22.7	22.7	113	113	70-130	0	20	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2430501
Pace Project No.: 30689454

Sample: Effluent_05312024 **Lab ID: 30689454001** Collected: 05/31/24 15:10 Received: 06/05/24 11:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**2.56 ± 23.6 (46.9) C:NA T:NA**	pCi/L	06/24/24 19:42	12587-46-1	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-12.3 ± 56.7 (116) C:NA T:94%**	pCi/L	06/20/24 15:27	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**38.5 ± 29.1 (57.4) C:82% T:91%**	pCi/L	06/18/24 12:30	15262-20-1	

Sample: Receiving_05312025 **Lab ID: 30689454002** Collected: 05/31/24 15:50 Received: 06/05/24 11:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Sample container opened in shipment and was empty upon arrival.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**0.876 ± 1.27 (2.72) C:NA T:NA**	pCi/L	06/24/24 08:50	12587-46-1	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-19.5 ± 52.7 (113) C:NA T:95%**	pCi/L	06/20/24 15:27	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**7.53 ± 31.7 (71.6) C:82% T:83%**	pCi/L	06/18/24 12:30	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: L2430501
Pace Project No.: 30689454

QC Batch: 673640
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30689454001, 30689454002

METHOD BLANK: 3279297 Matrix: Water
Associated Lab Samples: 30689454001, 30689454002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.347 ± 0.349 (0.722) C:80% T:89%	pCi/L	06/18/24 12:26	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: L2430501
Pace Project No.: 30689454

QC Batch: 673638
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30689454001, 30689454002

METHOD BLANK: 3279296 Matrix: Water
Associated Lab Samples: 30689454001, 30689454002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0540 ± 0.280 (0.648) C:NA T:88%	pCi/L	06/20/24 15:03	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: L2430501
Pace Project No.: 30689454

QC Batch: 673792
QC Batch Method: EPA 900.0
Analysis Method: EPA 900.0
Analysis Description: 900.0 Gross Alpha/Beta
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30689454001, 30689454002

METHOD BLANK: 3280056 Matrix: Water
Associated Lab Samples: 30689454001, 30689454002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.271 ± 0.481 (1.59) C:NA T:NA	pCi/L	06/24/24 08:51	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: L2430501
Pace Project No.: 30689454

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2430501
Pace Project No.: 30689454

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30689454001	**Effluent_05312024**	EPA 200.2	675843	EPA 200.8	675996
30689454002	**Receiving_05312025**	EPA 200.2	675843	EPA 200.8	675996
30689454001	**Effluent_05312024**	EPA 900.0	673792		
30689454002	**Receiving_05312025**	EPA 900.0	673792		
30689454001	**Effluent_05312024**	EPA 903.1	673638		
30689454002	**Receiving_05312025**	EPA 903.1	673638		
30689454001	**Effluent_05312024**	EPA 904.0	673640		
30689454002	**Receiving_05312025**	EPA 904.0	673640		

WO# : 30689454

30689454

Subcontract Chain of Custody

ace Analytical (Greensburg, PA)
538 Roseytown Rd, Suite 2
reensburg, PA 15601

Client Information	Project Information	Regulatory Re
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com	Project Location: MA Project Manager: Jennifer Byrnes **Turnaround & Deliverables Information** Due Date: Deliverables:	State/Federal Program Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2430501 | Report to include Method Bla

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis
	EFFLUENT_05312024	05-31-24 15:10	WATER	Gross Alpha; Radium 226; Radium 228; Uranium by EPA 200.8
	RECEIVING_05312024	05-31-24 15:50	WATER	Gross Alpha; Radium 226; Radium 228; Uranium by EPA 200.8

Received b
Therm ID
Receip
Correct
Correct

Received by Pace Beaver
Therm ID 30 Corr Factor +/- 0
Receipt Temp 19.9
Corrected Temp 19.9
Correct Preservation (Y) N

	Relinquished By:	Date/Time:	Received By:
	Nicely's Del. Service	6/4/24 0/13hrs 1700 6-14-24 0332	Emma Laugh Nicely's Del.
Form No: AL_subcoc			

Thermometer Used: — Type of Ice: Wet Blue (None) Temped By: —

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# 10D2931 / D.P.D. Residual Chlorine Lot # —
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID				
Matrix: WT				
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:		✓		9. Sample 002 sample a bottle empty in the cooler
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:		✓		11. The lid came off of one of the 002 sample bottles
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				
All containers meet method preservation requirements:	✓			Initial when completed EL / Date/Time of Preservation / Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed EL / Date: 6/5/24 / Survey Meter SN: 25014380

Comments: One BPIN empty in the cooler the samples were shipped in. The emptied container was apart of the 002 sample.

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

June 28, 2024

Melissa Gulli
Eight Walkup Drive

Westborough, MA

RE: Project: L2432836
Pace Project No.: 92736358

Dear Melissa Gulli:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2024. 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,

Ashari Taylor-Watson
ashari.taylor-watson@pacelabs.com
704-977-0939
Project Manager

Enclosures

cc: West, Alpha Analytical

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

CERTIFICATIONS

Project: L2432836
Pace Project No.: 92736358

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

SAMPLE ANALYTE COUNT

Project: L2432836
Pace Project No.: 92736358

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92736358001	**EFFLUENT_06112024**	EPA 218.6 Rev 3.3 1994	SMS1	1	PASI-C
92736358002	**RECEIVING_06112024**	EPA 218.6 Rev 3.3 1994	SMS1	1	PASI-C

PASI-C = Pace Analytical Services - Charlotte

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: L2432836
Pace Project No.: 92736358

Sample: EFFLUENT_06112024 **Lab ID: 92736358001** Collected: 06/11/24 12:59 Received: 06/13/24 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
218.6 Chromium, Hexavalent	Analytical Method: EPA 218.6 Rev 3.3 1994 Pace Analytical Services - Charlotte							
Chromium, Hexavalent	**0.34**	ug/L	0.050	2		06/21/24 12:55	18540-29-9	P4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: L2432836
Pace Project No.: 92736358

Sample: RECEIVING_06112024 **Lab ID: 92736358002** Collected: 06/11/24 12:40 Received: 06/13/24 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
218.6 Chromium, Hexavalent	Analytical Method: EPA 218.6 Rev 3.3 1994 Pace Analytical Services - Charlotte							
Chromium, Hexavalent	ND	ug/L	0.025	1		06/21/24 16:16	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: L2432836
Pace Project No.: 92736358

QC Batch: 863147
QC Batch Method: EPA 218.6 Rev 3.3 1994
Analysis Method: EPA 218.6 Rev 3.3 1994
Analysis Description: 218.6 Chromium, Hexavalent
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92736358001, 92736358002

METHOD BLANK: 4450566 Matrix: Water
Associated Lab Samples: 92736358001, 92736358002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	ug/L	ND	0.025	06/21/24 11:23	

LABORATORY CONTROL SAMPLE: 4450567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	ug/L	0.1	0.099	99	90-110	

MATRIX SPIKE SAMPLE: 4450568

Parameter	Units	92737190001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	ug/L	ND	0.1	0.089	83	90-110	M1

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

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALIFIERS

Project: L2432836
Pace Project No.: 92736358

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2432836
Pace Project No.: 92736358

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92736358001	**EFFLUENT_06112024**	EPA 218.6 Rev 3.3 1994	863147		
92736358002	**RECEIVING_06112024**	EPA 218.6 Rev 3.3 1994	863147		

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v04_Sample Condition Upon Receipt
	Effective Date: 4/26/2024 10:14:05 AM

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Alpha Analytical Labs

Project #: WO# : 92736358

92736358

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: HHR 6/13/24

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 92T070

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 **Correction Factor:** Add/Subtract (°C) 0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.3

USDA 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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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
***Check all unpreserved Nitrates for chlorine

Project # WO#: 92736358

PM: ATW Due Date: 06/27/24
CLIENT: 93-Alpha

Laboratory Receiving Location: Asheville ☐ Eden☐ Greenwood ☐ Huntersville ☑ Raleigh☐ Mechanicsville☐ Atlanta☐ Kernersville☐

Client Alpha Analytical Profile Number_____ Notes_____

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)	BP4B-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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (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)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1																											1			
2																											1			
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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Subcontract Chain of Custody

Pace Analytical Huntersville, NC
9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Alpha Job Number
L2432836

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: MA
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2432836

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com

9273 6355

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EFFLUENT_06112024	06-11-24 12:59	WATER	Hexavalent Chromium 218.6	001
	RECEIVING_06112024	06-11-24 12:40	WATER	Hexavalent Chromium 218.6	002

Relinquished By:	Date/Time:	Received By:	Date/Time:
	6/12/24	HHR/pace	6/13/24 9:50

Form No: AL_subcoc

Hexavalent Chromium pH Adjustment

Project #

7199 WH 9.0-9.5
218.6 WH 9.3-9.7

Client: Alpha Analytical Labs

Sample ID	Analyst	Initial pH	Adjusted pH	Adjusted Date/Time	Volume Acid/Base Used (Drops)	Lot#/Solvent
Receiving_06112024	HMR	9.39		6/13/24		
EFFluent_06112024	HMR	9.23	9.34	6/13/24 10:52	1 Drop	9210556

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 6/12/24

ALPHA Job #: L2432836

Project Information	
Project Name:	Haartz Corp NCCW
Project Location:	87 Hayward Rd
Project #:	60137080
Project Manager:	David Carbonneau
ALPHA Quote #:	

Client Information	
Client:	AECOM
Address:	250 Apollo Drive, Chelmsford MA 01824
Phone:	978-905-2100
Email:	David.Carbonneau@aecom.com

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program ______ Criteria ______

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15 ☐ PP13; METALS: ☐ RCRA5 ☐ RCRA8; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; SUB-HEXCR-218.6

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	SUB-HEXCR-218.6	Sample Comments	TOTAL # BOTTLES
32836-01	Effluent_06112024	6/11/24	1255	GW	SH	1		1
-02	Receiving_06112024	6/11/24	1240	GW	SH	1		1

Container Type:
Preservative:

Container Type	Preservative
P= Plastic	A= None
A= Amber glass	B= HCl
V= Vial	C= HNO_3
G= Glass	D= H_2SO_4
B= Bacteria cup	E= NaOH
C= Cube	F= MeOH
O= Other	G= $NaHSO_4$
E= Encore	H = $Na_2S_2O_3$
D= BOD Bottle	I= Ascorbic Acid
	J = NH_4Cl
	K= Zn Acetate
	O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Sean Haggett AECOM	6/11/24 1555	[signature] PAS	6/12/24 1015

ORIGIN ID:FOXA (781) 576-8312
AECOM
1155 ELM ST STE 401

MANCHESTER, NH 03101
UNITED STATES US

SHIP DATE: 11JUN24
ACTWGT: 29.90 LB
CAD: 6990427/SSFO2521
DIMS: 18x15x11 IN

BILL THIRD PARTY

TO **ALPHA ANALYTICAL**
JENNIFER BYRNES
8 WALKUP DR
BOTTLE WARE DEPT
WESTBOROUGH MA 01581
(508) 898-9220 REF: 60137080
INV:
PO: DEPT:

10:15 AM

FedEx
Express

E

TRK# 0201 **2757 9271 4293**

WED - 12 JUN 10:30A
PRIORITY OVERNIGHT

01 BBFA

01581
MA-US **BOS**