



NOR-03089

August 16, 2023

Mr. Jason Pelton
Section Chief, Remedial Bureau D, Section B
New York State Department of Environmental Conservation
Division of Environmental Remediation, 12th Floor
625 Broadway
Albany, New York 12233-7015

Reference: CLEAN Contract No. N6247016D9008
Contract Task Order WE13

Subject: July 2023 Reporting Period
Groundwater Discharge Monitoring Report RE-137 Area, Drainage Basin 17, Nassau County
Basin #305
NYSDEC Site No. 130003B, NWIRP Bethpage

Dear Mr. Pelton:

Tetra Tech (Tt) is providing this monthly monitoring report for the groundwater discharge at the RE-137 Area Groundwater Treatment System (GWTS) located near the former Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage. This report was prepared in accordance with New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Permit Equivalent dated February 16, 2022.

This document is the fifteenth monthly report for this system. Full time operation of the RE-137 GWTS began on May 2, 2022 at a nominal flowrate of 100 gallons per minute (GPM) and has been gradually increased since then. In July 2023, the system ran at a nominal flowrate of 358 GPM. During the month of July 2023, the RE-137 GWTS operated for approximately 512 hours (uptime of 68.8%) and extracted, treated, and discharged an approximate total of 11,078,507 gallons of groundwater. The reduced uptime in July 2023 was due to a couple reasons. A granular activated carbon (GAC) filter media changeout that was completed on July 6, 2023 for treatment vessels PV-310 and PV-330. Another issue was that, due to the extreme heat in July, condensate accumulated in the secondary containment area and activated a high safety alarm that would shut the system down. This happened several times throughout the month, sometimes on the weekend, which inhibited restarting of the system in a timely manner.

As of July 31, 2023, the system has treated a total of 194,033,648 gallons of groundwater and removed 1,533 pounds of volatile organic compounds. The monthly samples were collected on July 13, 2023. Routine operation and maintenance of the RE-137 GWTS is ongoing.

If you have any questions, please contact me at vin.varricchio@tetrattech.com or 631-962-0812.

Sincerely,

Vincent Varricchio, P.G.

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NWIRP Bethpage Facilities Manager

Attachment A: Discharge Monitoring Report, July 2023

cc: J. Pilewski, NYSDEC – Region 1
K. Granzen, NYSDEC
M. Travis, NYSDEC
G. Ennis, Nassau County Department of Public Works
S. Sokolowski, NAVFAC Mid-Atlantic
D. Brayack, Tetra Tech
R. Moore, Tetra Tech

ATTACHMENT A
DISCHARGE MONITORING REPORT
JULY 2023

**Attachment A - Groundwater Sampling Results for Discharge Monitoring Report
RE-137 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant – Bethpage, New York
July 2023**

SPDES Parameters			July 2023		
Process Stream	Daily Treated Effluent Maximum	Units	RE-137 Influent (SP-100)	AOP Effluent (SP-201)	Treated Effluent (SP-303)
Well Depth	N/A	ft bgs	750	N/A	N/A
Screened Interval	N/A	ft bgs	630-745	N/A	N/A
Sampling Date	N/A	N/A	7/13/2023		
System Flowrate	400	GPM	N/A	N/A	358
Total Flow	N/A	Gallons	N/A	N/A	11,078,507
pH	4.0-8.5	SU	NR	NR	5.86
1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	13.4	13.5	2.7
1,1,2-Trichloroethane	1	µg/L	0.5 J	0.75 U	0.75 U
1,1-Dichloroethane	5	µg/L	0.39 J	0.75 U	0.75 U
1,1-Dichloroethene	5	µg/L	3.5	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	µg/L	5.1 D	0.2 U	0.09 J
Bis(2-Ethylhexyl) phthalate	7.5	µg/L	N/A	N/A	4.00 U
Carbon Tetrachloride	5	µg/L	0.99 J	1.2	0.75 U
Chloroform	7	µg/L	0.66 J	0.75 U	0.75 U
cis-1,2-Dichloroethene	5	µg/L	2.2	0.75 U	0.75 U
Tetrachloroethene	5	µg/L	3.7	0.75 U	0.75 U
Trichloroethene	5	µg/L	660	0.75 U	0.75 U

Total VOCs Influent July 2023 (mg/L)	0.69
Total VOCs Treated July 2023 (pounds)	63
Total VOCs Treated (pounds)	1,533

µg/L - micrograms per liter.

AOP - Advanced Oxidation Process.

ft bgs - feet below ground surface.

GPM - gallons per minute.

J - Estimated result between laboratory method detection limit and reporting limit.

mg/L - milligrams per liter.

N/A - Not Applicable.

NR - Not recorded.

SPDES - State Pollutant Discharge Elimination System.

SU - Standard Units.

U - Not detected.

D - Dilution.