



NOR-03111

October 10, 2023

Ms. Kristi Granzen
Project Manager, 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: September 2023 Reporting Period
Groundwater Discharge Monitoring Report RE-137 Area, Drainage Basin 17, Nassau County
Basin #305
NYSDEC Site No. 130003B, NWIRP Bethpage

Dear Ms. Granzen:

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 seventeenth 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 September 2023, the system ran at a nominal flowrate of 360 GPM. During the month of September 2023, the RE-137 GWTS operated for approximately 663 hours (uptime of 98.7%) and extracted, treated, and discharged an approximate total of 14,195,970 gallons of groundwater.

As of September 31, 2023, the system has treated a total of 222,511,998 gallons of groundwater and removed 1,706 pounds of volatile organic compounds. The monthly samples were collected on September 7, 2023. A granular activated carbon (GAC) filter media changeout is scheduled for October 2023 for treatment vessel PV-310. 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,

A handwritten signature in black ink, appearing to read 'Vin Varricchio'.

Vincent Varricchio, P.G.
NWIRP Bethpage Facilities Manager

Attachment A: Discharge Monitoring Report, September 2023

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cc: J. Pilewski, NYSDEC – Region 1
J. Pelton, 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
SEPTEMBER 2023

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

SPDES Parameters			September 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	9/7/2023		
System Flowrate	400	GPM	N/A	N/A	360
Total Flow	N/A	Gallons	N/A	N/A	14,195,970
pH	4.0-8.5	SU	NR	NR	5.91
1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	11.9	13.5	2.4
1,1,2-Trichloroethane	1	µg/L	0.49 J	0.75 U	0.75 U
1,1-Dichloroethane	5	µg/L	0.47 J	0.75 U	0.75 U
1,1-Dichloroethene	5	µg/L	2.5	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	µg/L	5.2	0.2 U	0.2 U
Bis(2-Ethylhexyl) phthalate	7.5	µg/L	N/A	N/A	4.00 U
Carbon Tetrachloride	5	µg/L	0.8	1.2	0.75 U
Chloroform	7	µg/L	0.62 J	0.53 J	0.75 U
cis-1,2-Dichloroethene	5	µg/L	2.0	0.75 U	0.75 U
Tetrachloroethene	5	µg/L	3.0	0.75 U	0.75 U
Trichloroethene	5	µg/L	636	0.75 U	0.75 U

Total VOCs Influent September 2023 (mg/L)	0.66
Total VOCs Treated September 2023 (pounds)	78
Total VOCs Treated (pounds)	1,706

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.