



NOR-03149

February 14, 2024

Ms. Kristin 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: January 2024 Reporting Period
Discharge Monitoring Report RE-137 Area, New York State Drainage Basin 17, Nassau
County Basin #305
NYSDEC Site No. 130003B, NWIRP Bethpage

Dear Ms. Granzen:

Tetra Tech is providing this monthly monitoring report for the groundwater discharge results for the RE-137 Area Groundwater Treatment System (GWTS) located near the former Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage, New York. 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 twenty first 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 January 2024, the system ran at a nominal flowrate of 340 GPM. During the month of January 2024, the RE-137 GWTS operated for approximately 680 hours (uptime of 85.8%) and extracted, treated, and discharged an approximate total of 14,522,273 gallons of groundwater. The reduced uptime in January 2024 was due to modification activities related to the aeration tank upgrade to improve system performance and basin-high alarms caused by multiple rain events during the month.

As of January 31, 2024, the system has treated a total of 278,855,597 gallons of groundwater and removed 1,996 pounds of volatile organic compounds. The monthly samples were collected on January 4, 2024. The modification to the system to improve its performance was completed in January 2024. 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 V', written over a light blue horizontal line.

Vincent Varricchio, P.G.
NWIRP Bethpage Facilities Manager

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Attachment A: Discharge Monitoring Report, January 2024

cc: J. Pilewski, NYSDEC – Region 1
J. Pelton, NYSDEC
S. Johnston, NYSDEC
J. Sullivan, NYSDOH
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
JANUARY 2024

**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
January 2024**

SPDES Parameters			January 2024		
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	1/4/2024		
System Flowrate	400	GPM	N/A	N/A	340
Total Flow	N/A	Gallons	N/A	N/A	14,522,273
pH	4.0-8.5	SU	NR	NR	5.69
1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	13.4	13.9	2.4
1,1,2-Trichloroethane	1	µg/L	0.42 J	0.75 U	0.75 U
1,1-Dichloroethane	5	µg/L	0.52 J	0.75 U	0.75 U
1,1-Dichloroethene	5	µg/L	3.8	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	µg/L	3.1	0.2 U	0.2 U
Bis(2-Ethylhexyl) phthalate	7.5	µg/L	N/A	N/A	4.0 U
Carbon Tetrachloride	5	µg/L	1.2	1.2	0.75 U
Chloroform	7	µg/L	0.58 J	0.42 J	0.75 U
cis-1,2-Dichloroethene	5	µg/L	2.0	0.75 U	0.75 U
Tetrachloroethene	5	µg/L	3.7	0.75 U	0.75 U
Trichloroethene	5	µg/L	565	0.75 U	0.75 U

Total VOCs Influent January 2024 (mg/L)	0.59
Total VOCs Treated January 2024 (pounds)	71
Total VOCs Treated (pounds)	1,996

µg/L - micrograms per liter.

mg/L - milligrams 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.

N/A - Not Applicable.

NR - Not recorded.

SPDES - State Pollutant Discharge Elimination System.

SU - Standard Units.

U - Not detected.

- Sample SP-302 was created and collected during the aeration tank upgrade. This sample is located after the carbon vessels, but before the aeration tank. Only the circulation fan and one aerator pump in the aeration tank was running during the January 2024 sampling event. 1,1,2-Trichloro-1,2,2-trifluoroethane was detected at 5.1 µg/L at SP-302.