



NOR-03131

December 11, 2023

Ms. Kristin Granzen  
Project Manager, Remedial Bureau D, Section B  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, 12<sup>th</sup> Floor  
625 Broadway  
Albany, New York 12233-7015

Reference: CLEAN Contract No. N6247016D9008  
Contract Task Order WE13

Subject: December 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 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 nineteenth 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 November 2023, the system ran at a nominal flowrate of 364 GPM. During the month of November 2023, the RE-137 GWTS operated for approximately 704 hours (uptime of 97.9%) and extracted, treated, and discharged an approximate total of 15,570,492 gallons of groundwater.

As of November 30, 2023, the system has treated a total of 251,319,142 gallons of groundwater and removed 1,861 pounds of volatile organic compounds. The monthly samples were collected on November 2, 2023. A modification to the system to improve its performance is scheduled to be completed in December 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](mailto: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, November 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**  
**NOVEMBER 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  
November 2023**

SPDES Parameters			November 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	11/2/2023		
System Flowrate	400	GPM	N/A	N/A	364
Total Flow	N/A	Gallons	N/A	N/A	15,570,492
pH	4.0-8.5	SU	NR	NR	5.87
1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	12.1	13.1	3.3
1,1,2-Trichloroethane	1	µg/L	0.47 J	0.75 U	0.75 U
1,1-Dichloroethane	5	µg/L	0.55 J	0.75 U	0.75 U
1,1-Dichloroethene	5	µg/L	3.0	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	µg/L	3.6	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	1.1	1.2	0.75 U
Chloroform	7	µg/L	0.58 J	0.48 J	0.75 U
cis-1,2-Dichloroethene	5	µg/L	1.9	0.75 U	0.75 U
Tetrachloroethene	5	µg/L	4.7	0.75 U	0.75 U
Trichloroethene	5	µg/L	621	0.75 U	0.75 U

Total VOCs Influent November 2023 (mg/L)	0.65
Total VOCs Treated November 2023 (pounds)	83
Total VOCs Treated (pounds)	1,861

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.