



NOR-03010

February 8, 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: January 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 RE137 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 tenth 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 2023, the system ran at a nominal rate of 363 GPM, which is the capacity of the existing pump. During the month of January 2023, the RE-137 GWTS operated for approximately 716.5 hours (uptime of 95.9%) and extracted, treated, and discharged an approximate total of 15,670,749 gallons of groundwater.

As of January 30, 2023, the system has treated a total of 107,463,808 gallons of groundwater and removed 935 pounds of volatile organic compounds. This month, winterization activities were completed including installation of a 28x20-foot fabric structure over the outdoor carbon vessels and associated piping/valves. Heaters, heat trace and insulation were also installed where needed. The plant flow meter totalizer exceeded the display limit of 99,999,999 gallons on January 15, 2023, reset to 0 gallon and then continued to totalize.

If you have any questions, please contact me at david.brayack@tetrattech.com or 757-466-4909.

Sincerely,

David Brayack, P.E.
Project Manager

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Attachment A: Discharge Monitoring Report, January 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
E. Murphy, Tetra Tech
V. Varricchio, NWIRP Bethpage Facilities Manager

ATTACHMENT A
DISCHARGE MONITORING REPORT
JANUARY 2023

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

SPDES Parameters			January 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	1/20/23		
System Flowrate	400	GPM	N/A	N/A	362
Total Flow	N/A	Gallons	N/A	N/A	15,670,749
pH	4.0-8.5	SU	NR	NR	5.93
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ug/L	15.5	14.0	1.6
1,1,2-Trichloroethane	1	ug/L	0.75 U	0.75 U	0.75 U
1,1-Dichloroethane	5	ug/L	0.68 J	0.75 U	0.75 U
1,1-Dichloroethene	5	ug/L	4.0	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	ug/L	4.2	0.2 U	0.2 U
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	N/A	N/A	6.3
Carbon Tetrachloride	5	ug/L	1.7	1.5	0.75 U
Chloroform	7	ug/L	0.86 J	0.65 J	0.75 U
cis-1,2-Dichloroethene	5	ug/L	2.6	0.75 U	0.75 U
Tetrachloroethene	5	ug/L	4.2	0.75 U	0.75 U
Trichloroethene	5	ug/L	909	0.65 J	0.75 U

Total VOCs Influent December (ppm) 0.94
Total VOCs Treated December (pounds) 122
Total VOCs Treated (pounds) 935

ft bgs- feet below ground surface.

GPM- gallons per minute.

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

NR – Not recorded.

N/A – Not Applicable.

ug/L- micrograms per liter.

U - Not detected.