



NOR-03062

June 14, 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: May 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 fourteenth 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 May 2023, the system ran at a nominal rate of 362 GPM, which is the capacity of the existing pump. During the month of May 2023, the RE-137 GWTS operated for approximately 738 hours (uptime of 93.4%) and extracted, treated, and discharged an approximate total of 16,008,172 gallons of groundwater.

As of May 31, 2023, the system has treated a total of 167,670,514 gallons of groundwater and removed 1,364 pounds of volatile organic compounds. The monthly samples were collected on May 5, 2023. The reduced system run time resulted from ongoing issues with the peroxide meter, which requires regular maintenance and re-calibration. Tetra Tech is currently evaluating the performance and function of the transmissivity meter used to set power levels of the AOP system. Routine operation and maintenance of the system is ongoing.

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

Sincerely,

David Brayack
David Brayack, P.E.
Project Manager

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Mr. Jason Pelton
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Attachment A: Discharge Monitoring Report, May 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
V. Varricchio, NWIRP Bethpage Facilities Manager

ATTACHMENT A
DISCHARGE MONITORING REPORT
MAY 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
May 2023**

SPDES Parameters			May 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	5/5/2023		
System Flowrate	400	GPM	N/A	N/A	362
Total Flow	N/A	Gallons	N/A	N/A	16,008,172
pH	4.0-8.5	SU	NR	NR	5.80
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ug/L	14.1	14.0	2.2
1,1,2-Trichloroethane	1	ug/L	0.53 J	0.75 U	0.75 U
1,1-Dichloroethane	5	ug/L	0.61 J	0.75 U	0.75 U
1,1-Dichloroethene	5	ug/L	3.3	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	ug/L	4.7 D	0.2 U	0.2 U
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	N/A	N/A	4.0 U
Carbon Tetrachloride	5	ug/L	1.5	1.6	0.75 U
Chloroform	7	ug/L	0.72 J	0.59 J	0.75 U
cis-1,2-Dichloroethene	5	ug/L	2.4	0.75 U	0.75 U
Tetrachloroethene	5	ug/L	3.8	0.75 U	0.75 U
Trichloroethene	5	ug/L	837	0.75 U	0.75 U

Total VOCs Influent May (ppm) 0.86
Total VOCs Treated May (pounds) 115
Total VOCs Treated (pounds) 1,364

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.

D - Dilution.