



NOR-03044

April 21, 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: March 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 twelfth 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 March 2023, the system ran at a nominal rate of 364 GPM, which is the capacity of the existing pump. During the month of March 2023, the RE-137 GWTS operated for approximately 755.5 hours (uptime of 98.6%) and extracted, treated, and discharged an approximate total of 16,546,672 gallons of groundwater.

As of March 31, 2023, the system has treated a total of 138,405,381 gallons of groundwater and removed 1,165 pounds of volatile organic compounds. Tetra Tech is currently evaluating the performance and function of the transmissivity meter used to set power levels of the AOP system. As noted by the high March 2023 uptime, there were few notable concerns with the treatment system, otherwise. Routine operation and maintenance of the system is ongoing.

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

Sincerely,

David Brayack

David Brayack, P.E.
Project Manager

Attachment A: Discharge Monitoring Report, March 2023

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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
MARCH 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
March 2023**

SPDES Parameters			March 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	3/16/2023		
System Flowrate	400	GPM	N/A	N/A	364
Total Flow	N/A	Gallons	N/A	N/A	16,546,672
pH	4.0-8.5	SU	NR	NR	5.90
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ug/L	15.2	15.5	1.9
1,1,2-Trichloroethane	1	ug/L	0.55 J	0.75 U	0.75 U
1,1-Dichloroethane	5	ug/L	0.64 J	0.75 U	0.75 U
1,1-Dichloroethene	5	ug/L	4.1	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	ug/L	4.6 D	0.2 U	0.2 U
Bis(2-Ethylhexyl) phthalate	7.5	ug/L	N/A	N/A	3.1 J
Carbon Tetrachloride	5	ug/L	1.3	1.4	0.75 U
Chloroform	7	ug/L	0.78 J	0.63 J	0.75 U
cis-1,2-Dichloroethene	5	ug/L	2.4	0.75 U	0.75 U
Tetrachloroethene	5	ug/L	3.9	0.75 U	0.75 U
Trichloroethene	5	ug/L	829	0.75 U	0.75 U

Total VOCs Influent March (ppm) 0.86
Total VOCs Treated March (pounds) 118
Total VOCs Treated (pounds) 1,165

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.