NOR-03072

July 11, 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: June 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 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 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 June 2023, the system ran at a nominal flowrate of 362 GPM, which is the capacity of the existing pump. During the month of June 2023, the RE-137 GWTS operated for approximately 720 hours (uptime of 98.7%) and extracted, treated, and discharged an approximate total of 15,284,627 gallons of groundwater.

As of June 30, 2023, the system has treated a total of 182,955,141 gallons of groundwater and removed 1,470 pounds of volatile organic compounds. The monthly samples were collected on June 1, 2023. A granular activated carbon (GAC) filter media changeout is scheduled for July 2023 for treatment vessels PV-310 and PV-330. Routine operation and maintenance of the RE-137 GWTS is ongoing.

If you have any questions, please contact me at vin.varricchio@tetratech.com or 631-962-0812.

Sincerely,

Vincent Varricchio, P.G.
NWIRP Bethpage Facilities Manager

Attachment A: Discharge Monitoring Report, June 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
D. Brayack, Tetra Tech
R. Moore, Tetra Tech

ATTACHMENT A

DISCHARGE MONITORING REPORT
JUNE 2023

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

SPDES Parameters			June 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	6/1/2023		
System Flowrate	400	GPM	N/A	N/A	362
Total Flow	N/A	Gallons	N/A	N/A	15,284,627
pH	4.0-8.5	SU	NR	NR	5.62
1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	15.0	15.2	4.1
1,1,2-Trichloroethane	1	µg/L	0.75 U	0.75 U	0.75 U
1,1-Dichloroethane	5	µg/L	0.66 J	0.75 U	0.75 U
1,1-Dichloroethene	5	µg/L	3.9	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	µg/L	3.9	0.2 U	0.2 U
Bis(2-Ethylhexyl) phthalate	7.5	µg/L	N/A	N/A	4.10 U
Carbon Tetrachloride	5	µg/L	0.77 J	1.7	0.75 U
Chloroform	7	µg/L	0.83 J	0.64 J	0.75 U
cis-1,2-Dichloroethene	5	µg/L	2.6	0.75 U	0.75 U
Tetrachloroethene	5	µg/L	4.0	0.75 U	0.75 U
Trichloroethene	5	µg/L	809 *	1.7	0.75 U

Total VOCs Influent June 2023 (mg/L)	0.84
Total VOCs Treated June 2023 (pounds)	106
Total VOCs Treated (pounds)	1,470

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.
* - A dilution of the 8260DOD GCMS volatiles analysis was performed outside of the 14 day method holding time because Trichloroethene exceeded the calibration range in the initial analysis.