



6 July 2023

Mr. Jason Pelton  
New York State Department of Environmental Conservation  
Division of Solid & Hazardous Materials  
625 Broadway  
Albany, NY 12233-7252

**Subject: GROUNDWATER DISCHARGE MONITORING/AIR EMISSION REPORT  
GM-38 AREA, NWIRP BETHPAGE, NY; DER SITE # 1-30-003B-OU 2  
JUNE 2023 REPORTING PERIOD**

Dear Mr. Pelton:

KOMAN Government Solutions, LLC (KGS) is submitting this monthly monitoring report of the groundwater discharge and air emission results for the Groundwater Treatment Plant (GWTP) located at the Former Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage, NY, GM-38 Area. This report was prepared in accordance with GWTP operational requirements for DER Site # 1-30-003B-OU 2, and the SPDES Permit Equivalent # 13003B.

GWTP operational data from 1 June to 30 June 2023 are presented in Attachment A. The plant was down for approximately 5.8 hours during the reporting period as the result of ultraviolet (UV) lamp alarms from the Advanced Oxidation Process (AOP) unit and liquid-phase granular activated carbon (LGAC) backwash efforts.

As indicated in Attachment A, all SPDES permitted aqueous constituents are in compliance with the established discharge limits, and all stack emissions are in compliance with established discharge goals during the current reporting period.

Please contact me at 610-400-0636 with any questions or concerns you may have regarding this report.

Sincerely,

***KOMAN Government Solutions, LLC***

A handwritten signature in black ink that reads 'Robert G. Gregory'.

Robert G. Gregory  
Project Manager

Attachment A: Groundwater and Air Sampling Results for June 2023

cc: C. Haas, NYSDEC Region 1  
C. Engelhardt, NYSDEC Region 1  
J. Pilewski, NYSDEC – Region 1 Water Engineer  
K. Granzen, NYSDEC  
M. Travis, NYSDEC  
J. Sullivan, NYSDOH  
G. Ennis, Nassau County Department of Public Works  
T. Licata, Town of Oyster Bay  
M. Russo, Town of Oyster Bay  
S. Sokolowski, NAVFAC Mid-Atlantic  
V. Varricchio, NWIRP Bethpage Facilities Management  
P. Schauble, KGS  
GM-38 Copy

**ATTACHMENT A**  
**GROUNDWATER AND AIR SAMPLING RESULTS**  
**JUNE 2023**

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Discharge Monitoring Report  
June 2023**

SPDES Parameters			June 2023				
Process Stream	Daily Treated Effluent Maximum <sup>(1)</sup>	Units	RW-1	RW-3	RW-4	Combined Influent (RW-1 + RW-3 + RW-4)	Treated Effluent
Well Depth	N/A	ft	445	530	675	N/A	N/A
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	570-670	N/A	N/A
Sampling Date	N/A		6/6/23				
Effective Flowrate	1100	GPM	479	0	487	966	1,009
Total Flow	N/A	gallons	20,522,100	0	20,868,200	41,390,300	43,223,100
pH	5.5 - 8.5	SU	5.88	NS	6.35	6.12	6.87
Chloroform	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.02 J	NS	ND (1.0)	0.51 J	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	5	µg/L	0.450 J	NS	1.30 J	0.88 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	2.77 J	NS	ND (1.0)	1.37 J	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
Tetrachloroethene	5	µg/L	11.7	NS	4.85 J	8.2	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.300 J	NS	ND (1.0)	0.15 J	ND (1.0)
Trichloroethene	5	µg/L	42.8	NS	456	251	0.210 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	6.10 J	3.1 J	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane - 8270D	1	µg/L	1.6	NS	11	6.3	0.066
Mercury	0.00025	mg/L	ND (0.00010)	NS	ND (0.00010)	ND (0.00010)	ND (0.00010)
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)

**Notes:**

B - Method blank contamination

J - Estimated result between laboratory method detection limit and reporting limit

ND - Not detected above laboratory method detection limit. Limit of Detection (LOD) given in parentheses.

N/A - Not Applicable

NS - Not Sampled

(1) Wastewater discharge equivalence permit renewed on 18 August 2017. Discharge limits established for 10 years. Chloroform, 1,4-dioxane and 1,1,2-trichlorotrifluoroethane are now monitored under the new permit.

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Air Sampling Results  
June 2023**

DAR Parameters			June 2023	
Process Stream	Units	Discharge Goal <sup>(1)</sup>	Influent	Effluent
Sampling Date			6/6/23	
Average Flowrate	CFM	N/A	NR	3,973
Total Flow	ft <sup>3</sup>	N/A	NR	170,262,915
Total Flow	m <sup>3</sup>	N/A	NR	4,821,309
1,2-Dichloroethane	µg/m <sup>3</sup>	N/A	ND	2.2 J
cis 1,2-Dichloroethene	µg/m <sup>3</sup>	≤ 100,000 <sup>(2)</sup>	56	18
trans 1,2-Dichloroethene	µg/m <sup>3</sup>		ND	ND
1,2-Dichloroethene (total)	µg/m <sup>3</sup>	≤ 100,000	56	18
Toluene	µg/m <sup>3</sup>	N/A	ND	ND
Total Xylene	µg/m <sup>3</sup>	N/A	ND	ND
1,1,2-Trichloroethane	µg/m <sup>3</sup>	N/A	ND	ND
Trichloroethene	µg/m <sup>3</sup>	≤ 2600	8500	7.6
Vinyl Chloride	µg/m <sup>3</sup>	≤ 560	ND	0.46 J
Tetrachloroethene	µg/m <sup>3</sup>	≤ 5100	310	ND

Notes:

CFM - cubic feet per minute

DAR - Division of Air Resources

J - Estimated result between laboratory method detection limit and reporting limit

N/A - Not Applicable

NR - Not recorded

(1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.

(2) Discharge goal is for total 1,2-Dichloroethene.

Goals based on an assumed air flow rate of 8,000 CFM

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Controlled Stack Emissions  
June 2023**

<b>DAR Parameters</b>	<b>Units</b>	<b>Discharge Goal <sup>(1)</sup></b>	<b>June 2023</b>
Sampling Date			6/6/23
Average Flowrate	CFM	N/A	3,973
Total Flow	ft <sup>3</sup>	N/A	170,262,915
Total Flow	m <sup>3</sup>	N/A	4,821,309
Trichloroethene	lb/hr	≤ 0.09	0.00011
Vinyl Chloride	lb/hr	≤ 0.02	0.00001
1,2 Dichloroethene	lb/hr	≤ 11	0.00027
1,2-Dichloroethane	lb/hr	N/A	0.00003
Toluene	lb/hr	N/A	0.00000
Total Xylene	lb/hr	N/A	0.00000
1,1,2-Trichloroethane	lb/hr	N/A	0.00000
Tetrachloroethene	lb/hr	≤ 0.18	0.00000

Notes:

CFM - cubic feet per minute

DAR - Division of Air Resources

N/A - Not Applicable

(1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.

Goals based on an assumed air flow rate of 8,000 CFM