



04 January 2024

Ms. Kristin Granzen
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
DECEMBER 2023 REPORTING PERIOD**

Dear Ms. Granzen:

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 December to 31 December 2023 are presented in Attachment A. The plant was offline for approximately 36.0 hours during the reporting period as the result of UV lamp alarms and lamp replacements, in-place cleaning of the AOP unit, and the backwashing of LGAC vessels #100 and #200.

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 December 2023

cc: J. Pelton, NYSDEC
M. Travis, NYSDEC
C. Haas, NYSDEC Region 1
C. Engelhardt, NYSDEC Region 1
J. Pilewski, NYSDEC – Region 1 Water Engineer
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ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
DECEMBER 2023

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

SPDES Parameters			December 2023				
Process Stream	Daily Treated Effluent Maximum ⁽¹⁾	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		12/4/23				
Effective Flowrate	1100	GPM	486	0	473	959	991
Total Flow	N/A	gallons	20,641,082	0	20,090,380	40,731,461	42,095,689
pH	5.5 - 8.5	SU	5.88	NS	6.31	6.09	6.93
Chloroform	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	0.829 J	NS	ND (1.0)	0.42 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	0.364 J	NS	1.06 J	0.71 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	2.49 J	NS	ND (1.0)	1.26 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	13.0	NS	6.05 J	9.6	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.289 J	NS	ND (1.0)	0.15	ND (1.0)
Trichloroethene	5	µg/L	46.0	NS	487	264	ND (1.0)
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	7.86 J	3.9 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	9.1	5.3	0.10
Mercury	0.0025	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

* - Sample was re-analyzed outside of the holding tie due to the initial analysis QC failure.

(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
December 2023**

DAR Parameters			December 2023	
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			12/4/23	
Average Flowrate ⁽³⁾	CFM	N/A	NR	1,254
Total Flow	ft ³	N/A	NR	53,288,231
Total Flow	m ³	N/A	NR	1,508,955
1,2-Dichloroethane	µg/m ³	N/A	ND	2.6 J
cis 1,2-Dichloroethene	µg/m ³	≤ 100,000 ⁽²⁾	100	55
trans 1,2-Dichloroethene	µg/m ³		ND	ND
1,2-Dichloroethene (total)	µg/m ³	≤ 100,000	100	56
Toluene	µg/m ³	N/A	ND	ND
Total Xylene	µg/m ³	N/A	ND	ND
1,1,2-Trichloroethane	µg/m ³	N/A	ND	ND
Trichloroethene	µg/m ³	≤ 2600	24000	130
Vinyl Chloride	µg/m ³	≤ 560	ND	ND
Tetrachloroethene	µg/m ³	≤ 5100	900	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

(3) The average flowrate is utilizing the readings from Blower B-1. Blower B-2 was taken offline on 11 May 2023.

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

DAR Parameters	Units	Discharge Goal ⁽¹⁾	December 2023
Sampling Date			12/4/23
Average Flowrate	CFM	N/A	1,254
Total Flow	ft ³	N/A	53,288,231
Total Flow	m ³	N/A	1,508,955
Trichloroethene	lb/hr	≤ 0.09	0.00058
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00025
1,2-Dichloroethane	lb/hr	N/A	0.00001
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