



7 April 2021

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
MARCH 2021 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 March to 31 March 2021 are presented in Attachment A. The plant was down for approximately 20 hours during the reporting period as the result of construction and testing activities associated with the addition of the Advanced Oxidation Process (AOP) system to the current treatment train, backwashing of two LGAC units, and flushing of the piping system for new Recovery Well RW-4.

As indicated in Attachment A, all SPDES permitted constituents are in compliance with regulatory guidelines during this 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 Gregory'.

Robert Gregory
Project Manager

Attachment A: Groundwater and Air Sampling Results from March 2021

cc: S. Edwards, NYSDEC
D. Hesler, NYSDEC
C. Haas, NYSDEC Region 1
C. Engelhardt, NYSDEC Region 1
J. Pilewski, NYSDEC – Region 1 Water Engineer
J. Sullivan, NYSDOH
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B. Murray, NAVFAC Mid-Atlantic
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P. Schauble, KGS
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ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
MARCH 2021

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
March 2021**

SPDES Parameters			March 2021 ⁽¹⁾			
Process Stream	Daily Treated Effluent Maximum ⁽¹⁾	Units	RW-1	RW-3	Combined Influent (RW-1 + RW-3)	Treated Effluent
Well Depth	N/A	ft	445	530	N/A	N/A
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	N/A	N/A
Sampling Date	N/A		3/2/21			
Effective Flowrate	1100	GPM	628	179	806	849
Total Flow	N/A	gallons	27,281,533	7,772,733	35,054,267	36,892,633
pH	5.5 - 8.5	SU	5.58	5.31	5.52	6.81
Chloroform	5	µg/L	0.322 J	0.451 J	0.35 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.26 J	2.81 J	1.60 J	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	5	µg/L	0.892 J	1.60 J	1.05 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	4.35 J	2.46 J	3.93 J	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Tetrachloroethene	5	µg/L	17.8	0.237 J	13.91	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.512 J	0.648 J	0.542 J	ND (1.0)
Trichloroethene	5	µg/L	63.8	136	79.81	0.316 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	0.594 J	0.13	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane	--	µg/L	1.9	5.2	2.63	NS
Mercury	0.00025	mg/L	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	7.4	1.64	ND (1.0)

Notes:

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

D - Concentration is a result of a dilution.

ND - Not detected above laboratory method detection limit. Reporting Limit (RL) given in parentheses.

NR - Not Recorded

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
March 2021**

DAR Parameters			March 2021	
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			3/2/21	
Average Flowrate	CFM	N/A	NR	9,171
Total Flow	ft ³	N/A	NR	398,316,559
Total Flow	m ³	N/A	NR	11,279,069
1,2-Dichloroethane	µg/m ³	N/A	1.8 J	ND
cis 1,2-Dichloroethene	µg/m ³	≤ 100,000 ⁽²⁾	35	ND
trans 1,2-Dichloroethene	µg/m ³		ND	ND
1,2-Dichloroethene (total)	µg/m ³	≤ 100,000	35	ND
Toluene	µg/m ³	N/A	8.0	ND
Total Xylene	µg/m ³	N/A	9.0	ND
1,1,2-Trichloroethane	µg/m ³	N/A	ND	ND
Trichloroethene	µg/m ³	≤ 2600	840	ND
Vinyl Chloride	µg/m ³	≤ 560	ND	ND
Tetrachloroethene	µg/m ³	≤ 5100	140	0.75 J

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.

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Controlled Stack Emissions
March 2021**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	March 2021
Sampling Date			3/2/21
Average Flowrate	CFM	N/A	9,171
Total Flow	ft ³	N/A	398,316,559
Total Flow	m ³	N/A	11,279,069
Trichloroethene	lb/hr	≤ 0.09	0.00000
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00000
1,2-Dichloroethane	lb/hr	N/A	0.00000
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	0.00003

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.