



6 May 2022

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
APRIL 2022 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 April to 30 April 2022 are presented in Attachment A. The plant was down for approximately 8 hours during the reporting period as the result of high air stripper alarms attributable to loss of efficiency in the filter bag system resulting from suspended solids in the plant influent and intermittent communication losses between the Advanced Oxidation Process (AOP) unit and the hydrogen peroxide feed system.

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 G. Gregory'.

Robert G. Gregory
Project Manager

Attachment A: Groundwater and Air Sampling Results for April 2022

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
APRIL 2022

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
April 2022**

SPDES Parameters			April 2022 ⁽¹⁾				
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		4/11/22				
Effective Flowrate	1100	GPM	470	0	397	867	882
Total Flow	N/A	gallons	20,088,516	0	14,672,700	34,761,216	37,670,843
pH	5.5 - 8.5	SU	NS	NS	NS	NS	NS
Chloroform	5	µg/L	0.292 J	NS	ND (5.0)	0.16	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.12 J	NS	ND (5.0)	0.61	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	0.228 J	NS	ND (5.0)	0.12	ND (1.0)
1,1-Dichloroethene	5	µg/L	0.629 J	NS	2.34 J	1.41 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	3.45 J	NS	1.51 J	2.56	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (5.0)	--	ND (1.0)
Tetrachloroethene	5	µg/L	15.8	NS	6.77 J	11.67	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.443 J	NS	ND (5.0)	0.24 J	ND (1.0)
Trichloroethene	5	µg/L	53.7	NS	779	385.7	ND (1.0)
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	ND (5.0)	--	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	NS	ND (5.0)	--	ND (1.0)
1,4-Dioxane - 8270D	1	µg/L	1.8	NS	13	6.93	0.16
1,4-Dioxane - 8270D SIM IDMS	1	µg/L	2.2	NS	14	7.60	0.18
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	3.4	1.56	ND (1.0)

Notes:

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.

NR - Not Recorded

N/A - Not Applicable

NS - Not Sampled

-- LOD for non-detect combined well influent not applicable; RW-4 sample required dilution.

(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
April 2022**

DAR Parameters			April 2022	
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			4/11/22	
Average Flowrate	CFM	N/A	NR	9,174
Total Flow	ft ³	N/A	NR	391,898,841
Total Flow	m ³	N/A	NR	11,097,339
1,2-Dichloroethane	µg/m ³	N/A	ND	ND
cis 1,2-Dichloroethene	µg/m ³	≤ 100,000 ⁽²⁾	28	48
trans 1,2-Dichloroethene	µg/m ³		ND	1.2 J
1,2-Dichloroethene (total)	µg/m ³	≤ 100,000	28	48
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	5100	4.2
Vinyl Chloride	µg/m ³	≤ 560	ND	ND
Tetrachloroethene	µg/m ³	≤ 5100	130	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.

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Controlled Stack Emissions
April 2022**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	April 2022
Sampling Date			4/11/22
Average Flowrate	CFM	N/A	9,174
Total Flow	ft ³	N/A	391,898,841
Total Flow	m ³	N/A	11,097,339
Trichloroethene	lb/hr	≤ 0.09	0.00014
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00163
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	0.00000

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.