



8 November 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
OCTOBER 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 October to 31 October 2021 are presented in Attachment A. The plant was down for approximately 24 hours during the reporting period. Down time is a result of events associated with the Advanced Oxidation Process (AOP) pilot test.

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 October 2021

cc: C. Haas, NYSDEC Region 1
C. Engelhardt, NYSDEC Region 1
J. Pilewski, NYSDEC – Region 1 Water Engineer
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
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ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
OCTOBER 2021

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

SPDES Parameters			October 2021 ⁽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	655*	N/A	N/A
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	550-650*	N/A	N/A
Sampling Date	N/A		10/4/21				
Effective Flowrate	1100	GPM	642	0	182	824	869
Total Flow	N/A	gallons	27,736,089	0	7,853,285	35,589,375	37,522,468
pH	5.5 - 8.5	SU	5.86	NS	6.24	5.94	6.98
Chloroform	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.29 J	NS	ND (1.0)	1.01 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	0.712 J	NS	2.06 J	1.009 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	3.81 J	NS	1.52 J	3.30 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	18.4	NS	6.97 J	15.88	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.471 J	NS	ND (1.0)	0.367 J	ND (1.0)
Trichloroethene	5	µg/L	64.2	NS	708	206.3	0.408 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	6.66 J	1.470	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane	--	µg/L	1.9	NS	13	4.35	0.059
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	27.5	6.07	ND (1.0)

Notes:

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

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.

* Design depths

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
October 2021**

DAR Parameters			October 2021	
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			10/4/21	
Average Flowrate	CFM	N/A	NR	8,872
Total Flow	ft ³	N/A	NR	383,248,344
Total Flow	m ³	N/A	NR	10,852,385
1,2-Dichloroethane	µg/m ³	N/A	ND	ND
cis 1,2-Dichloroethene	µg/m ³	≤ 100,000 ⁽²⁾	36	17
trans 1,2-Dichloroethene	µg/m ³		ND	ND
1,2-Dichloroethene (total)	µg/m ³	≤ 100,000	36	17
Toluene	µg/m ³	N/A	0.91 J	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	2300	6.3
Vinyl Chloride	µg/m ³	≤ 560	ND	ND
Tetrachloroethene	µg/m ³	≤ 5100	160	5.0

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
October 2021**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	October 2021
Sampling Date			10/4/21
Average Flowrate	CFM	N/A	8,872
Total Flow	ft ³	N/A	383,248,344
Total Flow	m ³	N/A	10,852,385
Trichloroethene	lb/hr	≤ 0.09	0.00020
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00055
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	0.00016

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.