



29 August 2020

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
JULY 2020 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 July to 31 July 2020 are presented in Attachment A. Three and a half hours of downtime were recorded during this period associated with the backwashing of GAC units #1, #2, and #3.

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

Robert Gregory
Project Manager

Attachment A: Groundwater and Air Sampling Results from July 2020

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
J. Lovejoy, NCDH
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 RPM
V. Varricchio, NWIRP Bethpage Facilities Management
P. Schauble, KGS
GM-38 Copy

ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
JULY 2020

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
July 2020**

SPDES Parameters			July 2020 ⁽¹⁾			
Process Stream	Daily Treated Effluent Maximum ⁽¹⁾	Units	RW-1	RW-3 ⁽²⁾	Combined Influent ⁽³⁾ (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		7/1/20			
Effective Flowrate	1100	GPM	838	217	1,055	1,075
Total Flow	N/A	gallons	37,430,000	9,668,800	47,098,800	47,969,300
pH	5.5 - 8.5	SU	5.23	5.51	5.29	6.71
Chloroform	5	µg/L	0.330 J	0.376 J	0.34 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.35 J	2.59 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	0.795 J	1.10 J	0.858 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	4.41 J	1.62 J	3.84 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	16.1	0.235 J	12.84	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.506 J	0.615 J	0.528 J	ND (1.0)
Trichloroethene	5	µg/L	56.8	122	70.2	0.436 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	0.583 J	0.12 J	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	5.8	5.9	5.8	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)	1.9	0.4	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.

(2) Well RW-3 was placed back in operation on 1 June, 2018.

(3) Influent concentrations presented are the weighted average concentrations of RW-1 and RW-3.

**GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
July 2020**

DAR Parameters			July 2020	
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			7/1/20	
Average Flowrate	CFM	N/A	NR	8,894
Total Flow	ft ³	N/A	NR	395,154,073
Total Flow	m ³	N/A	NR	11,189,517
1,2-Dichloroethane	µg/m ³	N/A	2.9 J	ND
cis 1,2-Dichloroethene	µg/m ³	≤ 100,000 ⁽²⁾	61	ND
trans 1,2-Dichloroethene	µg/m ³		1.1 J	ND
1,2-Dichloroethene (total)	µg/m ³	≤ 100,000	62	ND
Toluene	µg/m ³	N/A	0.92 J	ND
Total Xylene	µg/m ³	N/A	ND	ND
1,1,2-Trichloroethane	µg/m ³	N/A	1.8 J	ND
Trichloroethene	µg/m ³	≤ 2600	1300	1.1 J
Vinyl Chloride	µg/m ³	≤ 560	0.87	0.42 J
Tetrachloroethene	µg/m ³	≤ 5100	220	0.87 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
July 2020**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	July 2020
Sampling Date			7/1/20
Average Flowrate	CFM	N/A	8,894
Total Flow	ft ³	N/A	395,154,073
Total Flow	m ³	N/A	11,189,517
Trichloroethene	lb/hr	≤ 0.09	0.00004
Vinyl Chloride	lb/hr	≤ 0.02	0.00001
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.