



9 March 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
FEBRUARY 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 February to 29 February 2020 are presented in Attachment A. The plant was down for approximately 34.18 hours over the course of the reporting period because of the replacement of the valve at the base of the air stripper and installation of a downstream check valve and because of a high-pressure alarm.

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 February 2020

Cc: S. Edwards, NYSDEC
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ATTACHMENT A
GROUNDWATER AND AIR SAMPLING RESULTS
FEBRUARY 2020

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

SPDES Parameters			February 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		2/3/20			
Effective Flowrate	1100	GPM	680	167	847	878
Total Flow	N/A	gallons	28,376,825	6,988,600	35,365,425	36,675,975
pH	5.5 - 8.5	SU	5.14	5.43	5.20	6.47
Chloroform	5	µg/L	ND (1.0)	0.359 J	0.07 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.31 J	2.25 J	1.50 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	0.696 J	1.14 J	0.784 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	4.18 J	1.10 J	3.57 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	17.5	ND (1.0)	14.04	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.453 J	0.488 J	0.460 J	ND (1.0)
Trichloroethene	5	µg/L	66.6	147	82.5	0.319 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	0.786 J	0.16 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	2.1	5.2	2.7	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)	24.9	4.9	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
February 2020**

DAR Parameters			February 2020	
Process Stream	Units	Discharge Goal ⁽¹⁾	Influent	Effluent
Sampling Date			2/3/20	
Average Flowrate	CFM	N/A	NR	9,533
Total Flow	ft ³	N/A	NR	378,563,246
Total Flow	m ³	N/A	NR	10,719,717
1,2-Dichloroethane	µg/m ³	N/A	1.9 J	3.1
cis 1,2-Dichloroethene	µg/m ³	≤ 100,000 ⁽²⁾	44	56
trans 1,2-Dichloroethene	µg/m ³		0.90 J	ND
1,2-Dichloroethene (total)	µg/m ³	≤ 100,000	44	56
Toluene	µg/m ³	N/A	1.9 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	1000	ND
Vinyl Chloride	µg/m ³	≤ 560	0.84 J	0.67 J
Tetrachloroethene	µg/m ³	≤ 5100	170	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
February 2020**

DAR Parameters	Units	Discharge Goal ⁽¹⁾	February 2020
Sampling Date			2/3/20
Average Flowrate	CFM	N/A	9,533
Total Flow	ft ³	N/A	378,563,246
Total Flow	m ³	N/A	10,719,717
Trichloroethene	lb/hr	≤ 0.09	0.00000
Vinyl Chloride	lb/hr	≤ 0.02	0.00002
1,2 Dichloroethene	lb/hr	≤ 11	0.00187
1,2-Dichloroethane	lb/hr	N/A	0.00011
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.