11 November 2019

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 2019 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 2019 are presented in Attachment A. In the October reporting period, the GWTP was offline for approximately 12.4 hours. The plant was offline from the evening of 7 October until the morning of 8 October as the result of a regional power outage. A shorter power outage occurred in the morning of 9 October. The plant was offline on 11 Oct during the backwash effort for the LGACs.

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 October 2019

Cc: S. Edwards, NYSDEC
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ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

OCTOBER 2019

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
October 2019

SPDES Parameters			October 2019 [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		10/1/2019 [4]			
Effective Flowrate	1100	GPM	636	169	805	856
Total Flow	N/A	gallons	28,409,000	7,543,700	35,952,700	38,208,800
pH	5.5 - 8.5	SU	5.14	5.43	5.20	6.43
Chloroform	5	µg/L	0.347 J	0.356 J	0.35 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.27 J	2.01 J	1.43 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	0.676 J	0.944 J	0.732 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	4.30 J	1.16 J	3.64 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	16.9	0.210 J	13.40	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.410 J	0.540 J	0.437 J	ND (1.0)
Trichloroethene	5	µg/L	61.8	139	78.0	0.270 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	0.617 J	0.13 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	2.4	6.2	3.2	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)	1.0	0.2	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.

(4) 1,4-Dioxane was collected on 7 October 2019.

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
October 2019

DAR Parameters			**October 2019**	
Process Stream	**Units**	**Discharge Goal** [1]	**Influent**	**Effluent**
Sampling Date			10/1/19	
Average Flowrate	CFM	N/A	NR	9,079
Total Flow	ft^3	N/A	NR	405,270,608
Total Flow	m^3	N/A	NR	11,475,986
1,2-Dichloroethane	$\mu g/m^3$	N/A	ND	ND
cis 1,2-Dichloroethene	$\mu g/m^3$	≤ 100,000 [2]	42	73
trans 1,2-Dichloroethene	$\mu g/m^3$		ND	ND
1,2-Dichloroethene (total)	$\mu g/m^3$	≤ 100,000	42	73
Toluene	$\mu g/m^3$	N/A	ND	ND
Total Xylene	$\mu g/m^3$	N/A	ND	ND
1,1,2-Trichloroethane	$\mu g/m^3$	N/A	ND	ND
Trichloroethene	$\mu g/m^3$	≤ 2600	980	ND
Vinyl Chloride	$\mu g/m^3$	≤ 560	ND	ND
Tetrachloroethene	$\mu g/m^3$	≤ 5100	150	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
October 2019

DAR Parameters	Units	Discharge Goal [(1)]	October 2019
Sampling Date			10/1/19
Average Flowrate	CFM	N/A	9,079
Total Flow	ft^3	N/A	405,270,608
Total Flow	m^3	N/A	11,475,986
Trichloroethene	lb/hr	≤ 0.09	0.00000
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00248
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.