4 January 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 DECEMBER 2018 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 December to 31 December 2018 are presented in Attachment A. In the December reporting period, no significant downtime was recorded for the GM38.

As indicated in Attachment A, all SPDES permitted constituents were in compliance with regulatory guidelines during this reporting period.

Please contact me at 610-400-0622 with any questions or concerns you may have regarding this report.

Sincerely,

KOMAN Government Solutions, LLC

Stephane Roy
Project Manager

Attachment A: Groundwater and Air Sampling Results from December 2018

Cc: S. Edwards, NYSDEC
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ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

DECEMBER 2018

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
December 2018

SPDES Parameters	December 2018 (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		12/4/18			
Effective Flowrate	1100	GPM	662	182	844	889
Total Flow	N/A	gallons	29,544,600	8,127,500	37,672,100	39,695,300
pH	5.5 - 8.5	SU	5.07	5.12	5.08	6.14
Chloroform	5	µg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.66	2.07	1.75	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	0.235 J	ND (1.0)	0.184 J	ND (1.0)
1,1-Dichloroethene	5	µg/L	0.889 J	1.16	0.95	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	5.12	1.26	4.29	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	18.5	ND (1.0)	14.5	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.597 J	0.664 J	0.611 J	ND (1.0)
Trichloroethene	5	µg/L	70.7	163	90.6	ND (1.0)
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	0.816 J	0.18 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	NS	NS	NS	2.5
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)	10.2	2.2	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.

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
December 2018

DAR Parameters		**Discharge Goal** (1)	**December 2018**	
Process Stream			**Influent**	**Effluent**
Sampling Date			12/4/18	
Average Flowrate	CFM	N/A	NR	9,500
Total Flow	ft^3	N/A	NR	424,092,754
Total Flow	m^3	N/A	NR	12,008,969
1,2-Dichloroethane	$\mu g/m^3$	N/A	2.0 J	ND
cis 1,2-Dichloroethene	$\mu g/m^3$	> 100,000 (2)	45	34
trans 1,2-Dichloroethene	$\mu g/m^3$		ND	ND
1,2-Dichloroethene (total)	$\mu g/m^3$	>100,000	44	34
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	1.5 J	ND
Trichloroethene	$\mu g/m^3$	2,600	1100	ND
Vinyl Chloride	$\mu g/m^3$	560	ND	ND
Tetrachloroethene	$\mu g/m^3$	5,100	180	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
December 2018

DAR Parameters	Units	Discharge Goal (1)	December 2018
Sampling Date			12/4/18
Average Flowrate	CFM	N/A	9,500
Total Flow	ft^3	N/A	424,092,754
Total Flow	m^3	N/A	12,008,969
Trichloroethene	lb/hr	0.09	0.00000
Vinyl Chloride	lb/hr	0.02	0.00000
1,2 Dichloroethene	lb/hr	11	0.00121
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.