6 January 2022

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 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 December to 31 December 2021 are presented in Attachment A. The plant was down for approximately 63 hours during the reporting period as the result intermittent power outages throughout weekend of 10-13 December 2021.

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 G. Gregory
Project Manager

Attachment A: Groundwater and Air Sampling Results for December 2021

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GM-38 Copy

ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

DECEMBER 2021

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

SPDES Parameters			December 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		12/3/21				
Effective Flowrate	1100	GPM	628	0	169	797	838
Total Flow	N/A	gallons	25,652,634	0	6,922,821	32,575,456	34,260,555
pH	5.5 - 8.5	SU	5.61	NS	6.27	5.75	7.14
Chloroform	5	µg/L	ND (0.90)	NS	ND (4.5)	--	ND (0.90)
1,1-Dichloroethane	5	µg/L	1.3	NS	ND (4.5)	1.02	ND (0.90)
1,2-Dichloroethane	0.6	µg/L	ND (0.75)	NS	ND (3.8)	--	ND (0.75)
1,1-Dichloroethene	5	µg/L	ND (0.75)	NS	ND (3.8)	--	ND (0.75)
cis 1,2-Dichloroethene	5	µg/L	3.9	NS	ND (3.8)	3.07	ND (0.75)
trans 1,2-Dichloroethene	5	µg/L	ND (0.90)	NS	ND (4.5)	--	ND (0.90)
Tetrachloroethene	5	µg/L	16.9	NS	4.9 J	14.35	ND (0.90)
1,1,1-Trichloroethane	5	µg/L	ND (0.90)	NS	ND (4.5)	--	ND (0.90)
Trichloroethene	5	µg/L	61.5	NS	654	187.4	ND (0.90)
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.5)	NS	ND (7.5)	--	ND (1.5)
Vinyl Chloride	2	µg/L	ND (0.90)	NS	ND (4.5)	--	ND (0.90)
1,4-Dioxane	--	µg/L	0.323	NS	1.74	0.62	ND (0.15)
Mercury	0.00025	mg/L	ND (0.00015)	NS	ND (0.00015)	ND (0.00015)	ND (0.00015)
Total Suspended Solids (TSS)	N/A	mg/L	ND (2.0)	NS	ND (2.0)	ND (2.0)	ND (2.0)

Notes:

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

ND - Not detected above laboratory method detection limit. Limit of Detection (LOD) given in parentheses.

NR - Not Recorded

N/A - Not Applicable

NS - Not Sampled

-- LOD for non-detect combined well influent not applicable; RW-4 sample required dilution.

(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
December 2021

DAR Parameters			**December 2021**	
Process Stream	**Units**	**Discharge Goal** [1]	**Influent**	**Effluent**
Sampling Date			12/3/21	
Average Flowrate	CFM	N/A	NR	9,133
Total Flow	ft^3	N/A	NR	373,222,906
Total Flow	m^3	N/A	NR	10,568,496
1,2-Dichloroethane	$\mu g/m^3$	N/A	1.7 J	ND
cis 1,2-Dichloroethene	$\mu g/m^3$	≤ 100,000 [2]	35	39
trans 1,2-Dichloroethene	$\mu g/m^3$		ND	ND
1,2-Dichloroethene (total)	$\mu g/m^3$	≤ 100,000	35	39
Toluene	$\mu g/m^3$	N/A	0.63 J	ND
Total Xylene	$\mu g/m^3$	N/A	ND	ND
1,1,2-Trichloroethane	$\mu g/m^3$	N/A	1.6 J	ND
Trichloroethene	$\mu g/m^3$	≤ 2600	1800	ND
Vinyl Chloride	$\mu g/m^3$	≤ 560	ND	ND
Tetrachloroethene	$\mu g/m^3$	≤ 5100	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 2021

DAR Parameters	Units	Discharge Goal [(1)]	December 2021
Sampling Date			12/3/21
Average Flowrate	CFM	N/A	9,133
Total Flow	ft^3	N/A	373,222,906
Total Flow	m^3	N/A	10,568,496
Trichloroethene	lb/hr	≤ 0.09	0.00000
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00122
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.