14 August 2023

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 2023 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 2023 are presented in Attachment A. The plant was down for approximately 3.3 hours during the reporting period as the result of ultraviolet (UV) lamp alarms from the Advanced Oxidation Process (AOP) unit, a high air stripper alarm, and a power outage associated with inclement weather.

As indicated in Attachment A, all SPDES permitted aqueous constituents are in compliance with the established discharge limits, and all stack emissions are in compliance with established discharge goals during the current 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 July 2023

KOMAN Government Solutions, LLC
180 Gordon Drive, Suite 110
Exton, Pennsylvania 19341

Phone (610) 363-3000
Fax (610) 363-3001
www.komangs.com

cc: C. Haas, NYSDEC Region 1
C. Engelhardt, NYSDEC Region 1
J. Pilewski, NYSDEC – Region 1 Water Engineer
K. Granzen, NYSDEC
M. Travis, NYSDEC
J. Sullivan, NYSDOH
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
V. Varricchio, NWIRP Bethpage Facilities Management
D. Brayack, Tetra Tech
R. Moore, Tetra Tech
R. Hoffmaster, KGS
P. Schauble, KGS
GM-38 Copy

ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

JULY 2023

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
July 2023

SPDES Parameters			July 2023				
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	675	N/A	N/A
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	570-670	N/A	N/A
Sampling Date	N/A		7/5/23				
Effective Flowrate	1100	GPM	485	0	484	968	995
Total Flow	N/A	gallons	21,535,300	0	21,501,800	43,037,100	44,211,700
pH	5.5 - 8.5	SU	5.86	NS	6.33	6.09	6.89
Chloroform	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	0.808 J	NS	ND (1.0)	0.40 J	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	5	µg/L	0.489 J	NS	1.33 J	0.91 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	2.46 J	NS	1.45 J	1.23 J	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
Tetrachloroethene	5	µg/L	12.2	NS	6.06 J	9.1	ND (1.0)
1,1,1-Trichloroethane	5	µg/L	0.244 J	NS	ND (1.0)	0.12 J	ND (1.0)
Trichloroethene	5	µg/L	43.3	NS	425	234	0.346 J
1,1,2-Trichlorotrifluoroethane	5	µg/L	ND (1.0)	NS	7.10 J	3.5 J	ND (1.0)
Vinyl Chloride	2	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dioxane - 8270D	1	µg/L	1.3 *	NS	8.6 *	4.9	0.079 *
Mercury	0.0025	mg/L	0.00248	NS	ND (0.00010)	0.00124	ND (0.00010)
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)	ND (1.0)

Notes:
B - Method blank contamination
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.
N/A - Not Applicable
NS - Not Sampled
* - Sample was re-analyzed outside of the holding tie due to the initial analysis QC failure.

(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.

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
July 2023

DAR Parameters			**July 2023**	
Process Stream	**Units**	**Discharge Goal** [1]	**Influent**	**Effluent**
Sampling Date			7/5/23	
Average Flowrate[3]	CFM	N/A	NR	3,011
Total Flow	ft^3	N/A	NR	129,017,358
Total Flow	m^3	N/A	NR	3,653,365
1,2-Dichloroethane	$\mu g/m^3$	N/A	ND	2.3 J
cis 1,2-Dichloroethene	$\mu g/m^3$	≤ 100,000 [2]	50	20
trans 1,2-Dichloroethene	$\mu g/m^3$		ND	ND
1,2-Dichloroethene (total)	$\mu g/m^3$	≤ 100,000	52	20
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	8900	17
Vinyl Chloride	$\mu g/m^3$	≤ 560	ND	ND
Tetrachloroethene	$\mu g/m^3$	≤ 5100	290	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.
Goals based on an assumed air flow rate of 8,000 CFM
(3) The average flowrate is utilizing the readings from Blower B-1. Blower B-2 was taken offline on 11 May 2023.

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Controlled Stack Emissions
July 2023

DAR Parameters	Units	Discharge Goal (1)	July 2023
Sampling Date			7/5/23
Average Flowrate	CFM	N/A	3,011
Total Flow	ft^3	N/A	129,017,358
Total Flow	m^3	N/A	3,653,365
Trichloroethene	lb/hr	≤ 0.09	0.00018
Vinyl Chloride	lb/hr	≤ 0.02	0.00000
1,2 Dichloroethene	lb/hr	≤ 11	0.00022
1,2-Dichloroethane	lb/hr	N/A	0.00002
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.
Goals based on an assumed air flow rate of 8,000 CFM