3 February 2017

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 JANUARY 2017 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.

GWTP operational data from 1 January 2017 to 31 January 2017 are presented in Attachment A. There was no significant downtime for the GWTP during this reporting period; minimal downtime occurred for various maintenance activities including backwashing of the liquid phase granular activated carbon (LGAC).

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

Please contact me at 508-366-7442 with any questions or concerns you may have regarding this report.

Sincerely,
KOMAN Government Solutions, LLC

Jennifer Good
Project Manager

Attachment A: Groundwater and Air Sampling Results from January 2017

Cc: Henry Wilkie - NYSDEC
Steven Scharf – NYSDEC
Jean Occidental - NYSDEC Division of Water
Jennifer Pilewski - NYSDEC – Region 1 Water Engineer
Gerard Ennis - Nassau County Department of Public Works
Linda Bianculli - Town of Oyster Bay
Lora Fly - NAVFAC Mid-Atlantic RPM
Greg Pearman – NWIRP Bethpage
GM-38 Copy

ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

JANUARY 20177

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Discharge Monitoring Report
January 2017

SPDES Parameters	January 2017					
Process Stream	**Daily Treated Effluent Maximum**	**Units**	**RW-1 (1)**	**RW-3 (2)**	**Combined Influent (1)**	**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		1/5/17			
Effective Flowrate	1100	GPM	977	0.3	977	1,004
Total Flow	N/A	gallons	43,598,680	12,300	43,610,980	44,813,133
pH	5.5 - 8.5	SU	4.99	NS	4.99	5.96
Carbon Tetrachloride	NA	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.9	NS	1.9	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	0.27 J	NS	0.27 J	ND (1.0)
1,1-Dichloroethene	5	µg/L	1.4	NS	1.4	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	8.9	NS	8.9	ND (1.0)
trans 1,2-Dichloroethene	5	µg/L	0.22 J	NS	0.22 J	ND (1.0)
Tetrachloroethene	5	µg/L	24	NS	24	ND (1.0)
1,1,1-Trichloroethene	5	µg/L	1.1	NS	1.1	ND (1.0)
Trichloroethene	5	µg/L	110	NS	110	ND (1.0)
Vinyl Chloride	2	µg/L	0.26 J	NS	0.26 J	ND (1.0)
Mercury	0.00025	mg/L	ND (0.00010)	NS	ND (0.00010)	ND (0.00010)
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	NS	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. Reporting Limit (RL) given in parentheses.
NR - Not Recorded
NS - Not Sampled. RW-3 sampling frequency has been reduced from monthly to semi-annually.
N/A - Not Applicable
NS - Not Sampled
(1) On 1 July 2015, the RW-1 flowrate was increased from ~800 gpm to ~1,000 gpm and RW-3 was taken off-line, as approved by NYSDEC on 20 April 2015. Influent concentrations presented above are therefore equivalent to RW-1 concentrations only.
(2) To maintain the integrity of RW-3 for potential future use, approximately 200 gallons per minute of water are pumped for a 1-hour period from the well on a monthly basis. RW-3 is sampled semi-annually, consistent with the groundwater monitoring program.

GM-38 Area Groundwater Remediation
Groundwater Treatment Plant
Naval Weapons Industrial Reserve Plant - Bethpage, NY
Air Sampling Results
January 2017

DAR Parameters	**Units**	**Discharge Goal** [(1)]	**January 2017**	
Process Stream			**Influent**	**Effluent**
Sampling Date	N/A	N/A	1/5/17	
Average Flowrate	CFM	N/A	NR	9,108
Total Flow	ft^3	N/A	NR	406,600,251
Total Flow	m^3	N/A	NR	11,513,637
1,2-Dichloroethane	$\mu g/m^3$	N/A	4.9	ND
cis 1,2-Dichloroethene	$\mu g/m^3$	> 100,000 [(2)]	99	130
trans 1,2-Dichloroethene	$\mu g/m^3$		2.3 J	1.7 J
1,2-Dichloroethene (total)	$\mu g/m^3$	>100,000	100	130
Toluene	$\mu g/m^3$	N/A	6.5	ND
Total Xylene	$\mu g/m^3$	N/A	ND	ND
1,1,2-Trichloroethane	$\mu g/m^3$	N/A	1.8 J	ND
Trichloroethene	$\mu g/m^3$	2,600	1,600	2.9 J
Vinyl Chloride	$\mu g/m^3$	560	2.6	2.1
Tetrachloroethene	$\mu g/m^3$	5,100	330	1.3 J

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
January 2017

DAR Parameters	Units	Discharge Goal (1)	January 2017
Sampling Date	N/A	N/A	1/5/17
Average Flowrate	CFM	N/A	9,108
Total Flow	ft^3	N/A	406,600,251
Total Flow	m^3	N/A	11,513,637
Trichloroethene	lb/hr	0.09	0.00010
Vinyl Chloride	lb/hr	0.02	0.00007
1,2 Dichloroethene	lb/hr	11	0.00444
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	0.00004

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.