SBA-certified 8(a), SDB Company

28 September 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 AUGUST 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 August 2017 to 31 August 2017 are presented in Attachment A. During this reporting period, an unscheduled downtime occurred on 6-7 August due to a faulty level transducer at recovery well RW-1. The GWTP was down for approximately 9 hours. The unscheduled downtime had minimum impact on the average flowrates during this reporting period.

In addition, during the August air emission sampling event, the duplicate sample result for trichloroethene (TCE) of 1,000 ug/m^3 was inconsistent with the August routine sample result (11 ug/m3) as well as historical results. The September air emission sampling event confirmed the typical TCE results of 7.0 ug/m^3 for the routine sample and 2.2 J ug/m^3 for the duplicate observed at the GWTP.

As indicated in Attachment A, all 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 August 2017

Cc: Donald Hesler - NYSDEC
Robert Wither - NYSDEC Division of Water
Jennifer Pilewski - NYSDEC – Region 1 Water Engineer
Gerard Ennis - Nassau County Department of Public Works
Tom Licata - Town of Oyster Bay
Lora Fly - NAVFAC Mid-Atlantic RPM
Greg Pearman – NWIRP Bethpage
GM-38 Copy

ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

AUGUST 2017

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

SPDES Parameters	August 2017					
Process Stream	**Daily Treated Effluent Maximum**	**Units**	**RW-1 (1)**	**RW-3**	**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		8/1/17			
Effective Flowrate	1100	GPM	953	0	953	996
Total Flow	N/A	gallons	42,554,700	0	42,554,700	43,929,000
pH	5.5 - 8.5	SU	5.17	NS	5.17	6.14
Carbon Tetrachloride	NA	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.6	NS	1.6	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	0.25 J	NS	0.25 J	ND (1.0)
1,1-Dichloroethene	5	µg/L	1.5	NS	1.5	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	6.5	NS	6.5	0.28 J
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (1.0) J	ND (1.0)
Tetrachloroethene	5	µg/L	22	NS	22	ND (1.0)
1,1,1-Trichloroethene	5	µg/L	0.84 J	NS	0.8	ND (1.0)
Trichloroethene	5	µg/L	100	NS	100	0.45 J
Vinyl Chloride	2	µg/L	0.24 J	NS	0.24 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:
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
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.

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

DAR Parameters	August 2017	Discharge Goal [1]	August 2017	
Process Stream			Influent	Effluent
Sampling Date	N/A	N/A	8/1/17	
Average Flowrate	CFM	N/A	NR	7,408
Total Flow	ft^3	N/A	NR	330,700,560
Total Flow	m^3	N/A	NR	9,364,397
1,2-Dichloroethane	$\mu g/m^3$	N/A	4.1 J	2.0 J
cis 1,2-Dichloroethene	$\mu g/m^3$	> 100,000 [2]	110	150
trans 1,2-Dichloroethene	$\mu g/m^3$		1.9 J	2.0 J
1,2-Dichloroethene (total)	$\mu g/m^3$	>100,000	110	160
Toluene	$\mu g/m^3$	N/A	2.1 J	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	1700	11
Vinyl Chloride	$\mu g/m^3$	560	3.3	2.0
Tetrachloroethene	$\mu g/m^3$	5,100	320	3.9 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
August 2017

DAR Parameters	Units	Discharge Goal (1)	August 2017
Sampling Date	N/A	N/A	8/1/17
Average Flowrate	CFM	N/A	7,408
Total Flow	ft^3	N/A	330,700,560
Total Flow	m^3	N/A	9,364,397
Trichloroethene	lb/hr	0.09	0.00031
Vinyl Chloride	lb/hr	0.02	0.00006
1,2 Dichloroethene	lb/hr	11	0.00444
1,2-Dichloroethane	lb/hr	N/A	0.00006
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	0.00011

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.