



*SBA-certified 8(a), SDB Company*

19 October 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  
SEPTEMBER 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, and the SPDES Permit Equivalent # 13003B.

GWTP operational data from 1 September 2017 to 30 September 2017 are presented in Attachment A. During this reporting period, scheduled downtime occurred on 19 September 2017 to install and rewire the new PLC analog card and replace three intrinsic safety barriers. The GWTP was down for approximately 5 hours. The scheduled downtime had minimum impact on the average flowrates during this reporting period.

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 September 2017

Cc: S. Edwards, NYSDEC  
Donald Hesler – NYSDEC  
C. Haas, NYSDEC Region 1  
W. Parish, NYSDEC Region 1  
Robert Wither - NYSDEC Division of Water  
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S. Karpinski, NYSDOH  
J. Lovejoy, NCDOH  
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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**  
**SEPTEMBER 2017**

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

SPDES Parameters	September 2017 <sup>(1)</sup>					
	Daily Treated Effluent Maximum <sup>(1)</sup>	Units	RW-1 <sup>(2)</sup>	RW-3 <sup>(3)</sup>	Combined Influent <sup>(3)</sup>	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		9/5/17			
Effective Flowrate	1100	GPM	956	1.3	958	986
Total Flow	N/A	gallons	41,931,346	57,900	41,989,246	43,226,363
pH	5.5 - 8.5	SU	5.17	NS	5.17	6.17
Chloroform	5	µg/L	0.38 J	NS	0.38 J	ND (1.0)
1,1-Dichloroethane	5	µg/L	1.9	NS	1.90	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
1,1-Dichloroethene	5	µg/L	1.1	NS	1.10	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	6.7	NS	6.70	0.33 J
trans 1,2-Dichloroethene	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
Tetrachloroethene	5	µg/L	21	NS	21.00	ND (1.0)
1,1,1-Trichloroethene	5	µg/L	0.98 J	NS	0.98 J	ND (1.0)
Trichloroethene	5	µg/L	95	NS	95.00	0.69 J
Trichlorofluoroethane	5	µg/L	ND (1.0)	NS	ND (1.0)	ND (1.0)
Vinyl Chloride	2	µg/L	0.24 J	NS	0.24 J	ND (1.0)
1,4-Dioxane	--	µg/L	ND (20)	NS	ND (20)	ND (20)
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) Wastewater discharge equivalence permit renewed on 18 August 2017. Discharge limits established for 10 years. Chloroform, 1,4-dioxane and trichlorofluoroethane are now monitored under the new permit.

(2) 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.

(3) Well RW-3 was turned on for a total of approximately 3 hours this period to collect the Semi-Annual groundwater samples.

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

DAR Parameters	September 2017	Discharge Goal <sup>(1)</sup>	September 2017	
			Influent	Effluent
Process Stream				
Sampling Date	N/A	N/A	9/5/17	
Average Flowrate	CFM	N/A	NR	7,876
Total Flow	ft <sup>3</sup>	N/A	NR	340,236,000
Total Flow	m <sup>3</sup>	N/A	NR	9,634,411
1,2-Dichloroethane	µg/m <sup>3</sup>	N/A	4.2 J	2.8 J
cis 1,2-Dichloroethene	µg/m <sup>3</sup>	> 100,000 <sup>(2)</sup>	100	150
trans 1,2-Dichloroethene	µg/m <sup>3</sup>		ND	1.7 J
1,2-Dichloroethene (total)	µg/m <sup>3</sup>	>100,000	100	150
Toluene	µg/m <sup>3</sup>	N/A	0.66 J	ND
Total Xylene	µg/m <sup>3</sup>	N/A	ND	ND
1,1,2-Trichloroethane	µg/m <sup>3</sup>	N/A	1.5 J	ND
Trichloroethene	µg/m <sup>3</sup>	2,600	1700	7.0
Vinyl Chloride	µg/m <sup>3</sup>	560	2.9 J	2.0
Tetrachloroethene	µg/m <sup>3</sup>	5,100	380	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  
September 2017**

<b>DAR Parameters</b>	<b>Units</b>	<b>Discharge Goal <sup>(1)</sup></b>	<b>September 2017</b>
Sampling Date	N/A	N/A	9/5/17
Average Flowrate	CFM	N/A	7,876
Total Flow	ft <sup>3</sup>	N/A	340,236,000
Total Flow	m <sup>3</sup>	N/A	9,634,411
Trichloroethene	lb/hr	0.09	0.00021
Vinyl Chloride	lb/hr	0.02	0.00006
1,2 Dichloroethene	lb/hr	11	0.00443
1,2-Dichloroethane	lb/hr	N/A	0.00008
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	0.00012

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.