



8 July 2015

Mr. Henry Wilkie  
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  
JUNE 2015 REPORTING PERIOD**

Dear Mr. Wilkie:

H&S Environmental, Inc. (H&S) 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 June 2015 to 30 June 2015 are presented in Attachment A. During this reporting period, scheduled and unscheduled downtime occurred for various maintenance and operational activities, including power outages, replacement of the equalization tank level indicator, and changeout of the liquid phase granular activated carbon (LGAC). Both scheduled and unscheduled downtime affected the average flowrates during the June 2015 reporting period.

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,  
H&S Environmental, Inc.

Jennifer Good  
Project Manager

Attachment A: Groundwater and Air Sampling Results from June 2015

Cc: 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**  
**JUNE 2015**

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Discharge Monitoring Report  
June 2015**

SPDES Parameters	June 2015					
Process Stream	Daily Treated Effluent Maximum	Units	RW-1	RW-3	Combined Influent <sup>(1)</sup> (RW-1 + RW-3)	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		6/15/2015 <sup>(2)</sup>			
Average Flowrate	1100	GPM	712	171	883	920
Total Flow	N/A	gallons	30,776,700	7,374,800	38,151,500	39,724,500
pH	5.5 - 8.5	SU	4.94	5.01	4.95	6.46
Carbon Tetrachloride	NA	µg/L	ND (1.0)	ND (5.0)	ND (5.0)	ND (1.0)
1,1-Dichloroethane	5	µg/L	2.0	2.4 J	2.1 J	ND (1.0)
1,2-Dichloroethane	0.6	µg/L	ND (1.0)	ND (5.0)	ND (5.0)	ND (1.0)
1,1-Dichloroethene	5	µg/L	2.4	1.5 J	2.2 J	ND (1.0)
cis 1,2-Dichloroethene	5	µg/L	14.5	1.7 J	12.0 J	0.38 J
trans 1,2-Dichloroethene	5	µg/L	0.26 J	ND (5.0)	0.21 J	ND (1.0)
Tetrachloroethene	5	µg/L	39.7	ND (5.0)	32.0	ND (1.0)
1,1,1-Trichloroethene	5	µg/L	1.6	ND (5.0)	1.3	ND (1.0)
Trichloroethene	5	µg/L	164	223	175	0.93 J
Vinyl Chloride	2	µg/L	0.51 J	ND (10.0)	0.41 J	ND (2.0)
Mercury	0.25	mg/L	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Total Suspended Solids (TSS)	N/A	mg/L	ND (5)	ND (5)	ND (5)	ND (5)

**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

(1) Influent concentrations presented are the weighted average concentrations of RW-1 and RW-3.

(2) Monthly process samples were collected on 6/15/15. Changeout of the liquid phase granular activated carbon (LGAC) was performed on 6/16/15.

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Air Sampling Results  
June 2015**

DAR Parameters	Units	Discharge Goal <sup>(1)</sup>	June 2015	
			Influent	Effluent
Process Stream				
Sampling Date	N/A	N/A	6/15/15	
Average Flowrate	CFM	N/A	NR	9,249
Total Flow	ft <sup>3</sup>	N/A	NR	399,569,143
Total Flow	m <sup>3</sup>	N/A	NR	11,314,538
1,2-Dichloroethane	µg/m <sup>3</sup>	N/A	3.8 J	ND
cis 1,2-Dichloroethene	µg/m <sup>3</sup>	> 100,000 <sup>(2)</sup>	170	150
trans 1,2-Dichloroethene	µg/m <sup>3</sup>		2.2 J	1.1 J
1,2-Dichloroethene (total)	µg/m <sup>3</sup>	>100,000	170	150
Toluene	µg/m <sup>3</sup>	N/A	ND	ND
Total Xylene	µg/m <sup>3</sup>	N/A	ND	ND
1,1,2-Trichloroethane	µg/m <sup>3</sup>	N/A	3.3 J	ND
Trichloroethene	µg/m <sup>3</sup>	2,600	2,100	4.7
Vinyl Chloride	µg/m <sup>3</sup>	560	4.1	1.5 J
Tetrachloroethene	µg/m <sup>3</sup>	5,100	420	2.8 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  
June 2015**

<b>DAR Parameters</b>	<b>Units</b>	<b>Discharge Goal <sup>(1)</sup></b>	<b>June 2015</b>
Sampling Date	N/A	N/A	6/15/15
Average Flowrate	CFM	N/A	9,249
Total Flow	ft <sup>3</sup>	N/A	399,569,143
Total Flow	m <sup>3</sup>	N/A	11,314,538
Trichloroethene	lb/hr	0.09	0.00016
Vinyl Chloride	lb/hr	0.02	0.00005
1,2 Dichloroethene	lb/hr	11	0.00520
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	0.00010

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.