



13 April 2012

Mr. Steven Scharf  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
Remedial Action, Bureau A  
625 Broadway  
Albany, NY 12233-7015

**Subject: GROUNDWATER DISCHARGE MONITORING/AIR EMISSION REPORT  
GM-38 AREA, NWIRP BETHPAGE, NY; DER SITE # 1-30-003B-OU 2  
MARCH 2012 REPORTING PERIOD**

Dear Mr. Scharf:

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 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. H&S assumed operational responsibility of the GWTP on 1 June 2011. GWTP operational data from 1 March 2012 to 31 March 2012 are included in Attachment A. All constituents were within permit limitations during this reporting period.

Please contact Ms. Jennifer Good or myself at 508-366-7442 with any questions or concerns you may have regarding this report.

Sincerely,  
H&S Environmental, Inc.

Patrick Schauble, P.E.  
Senior Project Manager

Attachment A: Groundwater and Air Sampling Results from March 2012

Cc: Jean Occidental - NYSDEC Division of Water  
William Spitz - NYSDEC – Region 1 Water Engineer  
Gerard Ennis - Nassau County Department of Public Works  
Richard Pfaender - Town of Oyster Bay  
Lora Fly - NAVFAC Mid-Atlantic RPM  
Al Taormina – H&S  
GM-38 Copy

**ATTACHMENT A**  
**GROUNDWATER AND AIR SAMPLING RESULTS**  
**MARCH 2012**

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Discharge Monitoring Report  
March 2012**

SPDES Parameters	March 2012					
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	500	500	500	N/A
Screened Interval	N/A	ft	470-500	470-500	470-500	N/A
Sampling Date	N/A		3/7/12			
Average Flowrate	1100	GPM	788	201	989	1,010
Total Flow	N/A	gallons	35,168,800	8,966,960	44,135,760	45,100,947
pH	5.5 - 8.5	SU	6.00	6.15	6.03	7.53
Carbon Tetrachloride	NA	µg/L	ND	ND	ND	ND
1,1-Dichloroethane	5	µg/L	2.6 J	2.3 J	2.5 J	ND
1,2-Dichloroethane	0.6	µg/L	ND	ND	ND	ND
1,1-Dichloroethene	5	µg/L	5.0 J	1.2 J	4.2 J	ND
cis 1,2-Dichloroethene	5	µg/L	38.4	1.8 J	31.0 J	0.96 J
trans 1,2-Dichloroethene	5	µg/L	ND	ND	ND	ND
Tetrachloroethene	5	µg/L	78.9	ND	62.9	ND
1,1,1-Trichloroethene	5	µg/L	5.4 J	ND	4.3 J	ND
Trichloroethene	5	µg/L	333	307	328	0.76 J
Vinyl Chloride	2	µg/L	2.7 J	ND	2.2 J	ND
Mercury	0.25	µg/L	ND	ND	ND	ND
Total Suspended Solids (TSS)	N/A	mg/L	ND	ND	ND	ND

**Notes:**

J - Estimated result between laboratory method detection limit and reporting limit

ND - Not detected above laboratory method detection limit

N/A - Not Applicable

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

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Air Sampling Results  
March 2012**

DAR Parameters	Units	SGC	March 2012	
			Influent	Effluent
Process Stream				
Sampling Date	N/A	N/A	3/14/12	
Average Flowrate	CFM	N/A	NR	8,530
Total Flow	ft <sup>3</sup>	N/A	NR	380,768,040
Total Flow	m <sup>3</sup>	N/A	NR	10,782,150
1,2-Dichloroethane	µg/m <sup>3</sup>	N/A	5.6 J	ND
cis 1,2-Dichloroethene	µg/m <sup>3</sup>	N/A	460	0.59 J
trans 1,2-Dichloroethene	µg/m <sup>3</sup>	N/A	6.7 J	ND
1,2-Dichloroethene (total)	µg/m <sup>3</sup>	N/A	480	0.59 J
Toluene	µg/m <sup>3</sup>	37,000	6.4 J	1.2 J
Total Xylene	µg/m <sup>3</sup>	4,300	9.3 J	ND
1,1,2-Trichloroethane	µg/m <sup>3</sup>	N/A	ND	ND
Trichloroethene	µg/m <sup>3</sup>	14,000	4200	9.7
Vinyl Chloride	µg/m <sup>3</sup>	180,000	28	ND
Tetrachloroethene	µg/m <sup>3</sup>	1,300	1100	3.7 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

SGC - Short-term Guideline Concentration

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
Naval Weapons Industrial Reserve Plant - Bethpage, NY  
Controlled Stack Emissions  
March 2012**

<b>DAR Parameters</b>	<b>Units</b>	<b>Discharge Goal</b>	<b>March 2012</b>
Sampling Date	N/A	N/A	3/14/12
Average Flowrate	CFM	N/A	8,530
Total Flow	ft <sup>3</sup>	N/A	380,768,040
Total Flow	m <sup>3</sup>	N/A	10,782,150
Trichloroethene	lb/hr	0.09	0.00031
Vinyl Chloride	lb/hr	0.01	0.00000
1,2 Dichloroethene	lb/hr	0.03	0.00002
1,2-Dichloroethane	lb/hr	BRT	0.00000
Toluene	lb/hr	BRT	0.00004
Total Xylene	lb/hr	BRT	0.00000
1,1,2-Trichloroethane	lb/hr	BRT	0.00000
Tetrachloroethene	lb/hr	0.02	0.00012

Notes:

BRT - below reporting thresholds

CFM - cubic feet per minute

DAR - Division of Air Resources

N/A - Not Applicable