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8 February 2012

Mr. Steven Scharf
New York State Department of Environmental Conversation
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 JANUARY 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 January to 31 January 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 October 2011

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 – ECOR
GM-38 Copy

ATTACHMENT A

GROUNDWATER AND AIR SAMPLING RESULTS

JANUARY 2012

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

SPDES Parameters	January 2012					
Process Stream	Daily Treated Effluent Maximum	Units	RW-1	RW-3	Combined Influent (1) (2) (RW-1 + RW-3)	Treated Effluent (2)
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		1/18/12			
Average Flowrate	1100	GPM	739	273	1,012	1020
Total Flow	N/A	gallons	32,993,460	12,164,600	45,158,060	45,523,120
pH	5.5 - 8.5	SU	6.02	8.18	6.60	7.60
Carbon Tetrachloride	NA	µg/L	ND	ND	ND	ND
1,1-Dichloroethane	5	µg/L	2.7 J	2.6 J	2.7	ND
1,2-Dichloroethane	0.6	µg/L	ND	ND	ND	ND
1,1-Dichloroethene	5	µg/L	6.4	ND	4.7	ND
cis 1,2-Dichloroethene	5	µg/L	43.4	1.5 J	32.1 J	0.96 J
trans 1,2-Dichloroethene	5	µg/L	ND	ND	ND	ND
Tetrachloroethene	5	µg/L	92.7	ND	67.7	ND
1,1,1-Trichloroethene	5	µg/L	6.7	ND	4.9	ND
Trichloroethene	5	µg/L	364	317	351	0.70 J
Vinyl Chloride	2	µg/L	3.4 J	ND	2.5 J	ND
Mercury	0.25	µg/L	ND	ND	ND	ND
Total Suspended Solids (TSS)	N/A	mg/L	5	5	5	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.
(2) System downtime from 3-5 January 2012 for carbon changeout of the two VGAC units resulted in lower than average flowrates during this reporting period.

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

DAR Parameters	Units	SGC	January 2012	
Process Stream			**Influent**	**Effluent**
Sampling Date	N/A	N/A	1/20/12	
Average Flowrate	CFM	N/A	NR	8,186
Total Flow	ft^3	N/A	NR	365,408,160
Total Flow	m^3	N/A	NR	10,347,207
1,2-Dichloroethane	$\mu g/m^3$	N/A	5.0 J	ND
cis 1,2-Dichloroethene	$\mu g/m^3$	N/A	530	ND
trans 1,2-Dichloroethene	$\mu g/m^3$	N/A	ND	ND
1,2-Dichloroethene (total)	$\mu g/m^3$	N/A	530	ND
Toluene	$\mu g/m^3$	37,000	9.0 J	ND
Total Xylene	$\mu g/m^3$	4,300	8.1 J	ND
1,1,2-Trichloroethane	$\mu g/m^3$	N/A	ND	ND
Trichloroethene	$\mu g/m^3$	14,000	5700	4.7
Vinyl Chloride	$\mu g/m^3$	180,000	39	ND
Tetrachloroethene	$\mu g/m^3$	1,300	1500	ND

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
January 2012

DAR Parameters	Units	Discharge Goal	January 2012
Sampling Date	N/A	N/A	1/20/12
Average Flowrate	CFM	N/A	8,186
Total Flow	ft^3	N/A	365,408,160
Total Flow	m^3	N/A	10,347,207
Trichloroethene	lb/hr	0.09	0.0001
Vinyl Chloride	lb/hr	0.01	0.0000
1,2 Dichloroethene	lb/hr	0.03	0.0000
1,2-Dichloroethane	lb/hr	BRT	0.0000
Toluene	lb/hr	BRT	0.0000
Total Xylene	lb/hr	BRT	0.0000
1,1,2-Trichloroethane	lb/hr	BRT	0.0000
Tetrachloroethene	lb/hr	0.02	0.0000

Notes:
BRT - below reporting thresholds
CFM - cubic feet per minute
DAR - Division of Air Resources
N/A - Not Applicable