

**GM-38 Area Groundwater Remediation  
Groundwater Treatment Plant  
NWIRP Bethpage, NY  
Monthly Report**

SPDES Parameters	Daily Maximum	Units	Week 1		Week 2		Week 3		Week 4	
			Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
Process Stream										
Week Ending Date			9/18/09		9/25/09		10/2/09		10/9/09	
Sampling Date			9/18/09		9/24/09		9/30/09		10/7/09	
Average Flow Rate	1100	GPM		842		798		801		777
Total Flow		gallons		5,456,160		8,043,840		8,074,080		6,713,280
pH (range)	5.5 – 8.5	SU	NR	7.7	5.3 - 5.5	6.0-7.8	4.0 - 5.6	6.5 - 7.2	4.0	7.1 - 7.8
1,1-Dichloroethane	5	µg/l	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	µg/l	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	µg/l	ND	ND	ND	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	5	µg/l	270	4.5	200	3.3	220	3.3	160	2.3
trans 1,2-Dichloroethene	5	µg/l	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	µg/l	360	2.8	270	1.9	230	1.5	230	1.4
1,1,1-Trichloroethane	5	µg/l	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	µg/l	220	2.1	240	2.1	310	2.6	280	2.3
Vinyl chloride	2	µg/l	72	ND	54	ND	47	ND	37	ND
Mercury	0.25	µg/l	0.046 B	0.049 B	0.033 B	ND	ND	ND	ND	ND

B – Estimated result less than reporting limit.

ND – Not detected

NR – Not recorded

Please note that the treated effluent results for all VOCs should be ND based on the results for the effluent from the three LGAC adsorbers operating in parallel. Due to an incorrect position of one butterfly valve on the LGAC pipe rack, some of the air stripped process water was by-passing the LGAC adsorbers and mixing with the treated effluent resulting in detectable concentrations for cis 1,2-Dichloroethene, Tetrachloroethene, and Trichloroethene. However, compliance with the SDPES requirements was maintained throughout the reporting period.

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DAR Parameters	SGC	Units	Week 1		Week 2		Week 3		Week 4	
			Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
Process Stream										
Week Ending Date			9/18/09		9/25/09		10/2/09		10/9/09	
Sampling Date			Not sampled		9/22/09		9/30/09		10/9/09	
Average Flow Rate	8000	CFM		8,040		8,406		8,378		8,178
Total Flow		ft <sup>3</sup>		52,099,200		84,732,480		84,450,240		70,657,920
Total Flow		m <sup>3</sup>		1,475,313		2,399,402		2,391,410		2,000,847
Trichloroethene	14000	µg/m <sup>3</sup>			4200	ND	4700		4600	ND
Vinyl Chloride	180000	µg/m <sup>3</sup>			750	4.6	580	9.2	360	8.5
trans 1,2-Dichloroethene	-	µg/m <sup>3</sup>			39	ND	32	ND	21	ND
cis 1,2-Dichloroethene		µg/m <sup>3</sup>			3700	ND	3000	ND	2300	ND
1,2-Dichloroethane	-	µg/m <sup>3</sup>			ND	ND	ND	ND	ND	ND
Toluene	37000	µg/m <sup>3</sup>			ND	ND	ND	ND	ND	ND
Xylene	4300	µg/m <sup>3</sup>			ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	µg/m <sup>3</sup>			ND	ND	ND	ND	ND	ND

ND – Not detected

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<b>DAR Parameters</b>	<b>Discharge Limit</b>	<b>Units</b>	<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>
Controlled Emissions from Exhaust Stack						
Week Ending Date			9/18/09	9/25/09	10/2/09	10/9/09
Sampling Date			Not sampled	9/22/09	9/30/09	10/9/09
Average Flow Rate	8000	CFM	8,040	8,406	8,378	8,178
Total Flow		ft <sup>3</sup>	52,099,200	84,732,480	84,450,240	70,657,920
Total Flow		m <sup>3</sup>	1,475,313	2,399,402	2,391,410	2,000,847
Trichloroethene	0.09	lb/hr		0.0	0.0	0.0
Vinyl Chloride	0.01	lb/hr		0.000145	0.000289	0.000260
1,2-Dichloroethene	0.03	lb/hr		0.0	0.0	0.0
1,2-Dichloroethane	BRT	lb/hr		0.0	0.0	0.0
Toluene	BRT	lb/hr		0.0	0.0	0.0
Xylene	BRT	lb/hr		0.0	0.0	0.0
1,1,2-Trichloroethane	BRT	lb/hr		0.0	0.0	0.0

BRT – Below reporting limit