City of Rochester

Rochester, NY
All-America City
1998

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Department of Environmental Services

Office of the Commissioner
Division of Environmental Quality
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April 4, 2006

Mr. Todd Caffoe
Hazardous Waste Engineer
NYSDEC, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-9519.

Re: Rochester Fire Academy - Site No. 8-28-015
Annual Report

Dear Mr. Caffoe:

Per New York State Department of Environmental Conservation (NYSDEC) requirements, please find enclosed two (2) copies of the Annual Report (Report) for the above referenced site (Site). The monitoring period began in September 2004 and continued through December 2005.

Feel free to contact me at (716) 428-6884 if you have any questions or require additional information.

Sincerely,

Dennis Peck
Environmental Technician - DEQ

cc: Mark Gregor, Division of Environmental Quality, City of Rochester
Debbie McNaughton, NYSDOH, Rochester
Harry Reiter, Monroe County Pure Waters
Jerry Rider, NYSDEC, Albany
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ROCHESTER FIRE TRAINING ACADEMY

2005 ANNUAL GROUNDWATER MONITORING WELL SAMPLING AND GROUNDWATER TREATMENT PLANT OPERATIONMONITORING REPORT

City of Rochester, New York

March 31, 2006

City of Rochester
Department of Environmental Services
Division of Environmental Quality
30 Church Street - Room 300 B
Rochester, New York 14614

ROCHESTER FIRE ACADEMY
ANNUAL GROUNDWATER MONITORING WELL SAMPLING
AND GROUNDWATER TREATMENT PLANT MONITORING REPORT
SEPTEMBER 20034- DECEMBER 2005

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1.0 INTRODUCTION

1.1 BACKGROUND

The Rochester Fire Training Academy (RFA) site is an 18-acre site located on the west bank of the Genesee River at 1190 Scottsville Road in the City of Rochester, Monroe County, New York. Figures 1-1 and 1-2 illustrate the Site Location and Site Layout. The site is divided into six areas, which include the Fire Academy Entrance, North Disposal Area (NDA) (2.5 acres), Training Grounds Area (TGA) (5.4 acres), Police Training Obstacle Course, South Disposal Area (SDA) (1.0 acres), and the Genesee Valley Park Area (GVPA) (1.0 acres).

The RFA is an active police and fire training academy which has been operated by the City of Rochester since 1954. During the time period from 1954 through 1980, flammable liquids from local industries and other sources were accepted by the RFA as sources of fuel for training purposes. In 1980, the New York State Department of Environmental Conservation (NYSDEC) began investigating the RFAs disposal practices and subsequently directed the removal of more than 200 drums and numerous chemical reagent bottles from the NDA, SDA, and TGA. While no hazardous waste disposal occurred in the GVPA, adjacent to the site along the Genesee River, some surficial contamination of park grounds did occur.

The City of Rochester entered into an Order on Consent with the NYSDEC on June 21, 1989 to investigate the extent of contamination and remediate the site. To address the nature of the contamination and determine the most appropriate alternatives to remediate the site, the City retained Malcolm Pirnie, Inc. to conduct a Remedial Investigation/Feasibility Study (RIFS). The results revealed that soils were contaminated with polychlorinated biphenols (PCBs), lead, cadmium, and volatile organic compounds (VOCs) over a large area of the site. The primary focus was on the TGA, GVPA, and SDA portions of the property. VOC contamination of the groundwater was also found and primarily located in the shallow overburden in the SDA.

The selected remedial action objectives for the groundwater and soils were established to meet applicable standards, criteria, and guidelines (SCGs) and to protect human health and the environment in accordance with the NYSROD clean-up goals. Groundwater treatment plant discharge parameters were established by the Monroe County Department of Environmental Services sewer use permit requirements.

Groundwater contamination at the RFA site, caused by the storage and disposal of solvents, was confined to the SDA. SDA soils were contaminated with VOCs as well as PCBs and metals. Soils in the TGA and the GVPA were contaminated primarily with PCBs and metals.

The remedial design for the site required that soils in the SDA containing total VOCs, PCBs, or cadmium equal to or above 10 mg/kg and/or containing lead concentrations equal to or greater than 250 mg/kg be excavated. The excavated soils were conditioned using a thermal desorber to reduce VOC levels to less than the Action Limit of 10 mg/kg. Following desorption, soils requiring solidification and stabilization were stockpiled in the TGA for additional treatment consisting of mixing the soil with cement

and water to form a slurry. The slurry was then buried in the NDA and later capped with a soil/synthetic barrier layer. Excavated soils containing PCB concentrations greater than or equal to 50 mg/kg were disposed of off-site.

The City installed a groundwater treatment system to address groundwater contamination in the SDA. Contaminated groundwater was collected by a 200-ft long collection trench and pumped via a submersible pump station to the Groundwater Treatment Plant (GWTP). The GWTP processes groundwater through duel particulate filters and an air stripper prior to discharge to the Monroe County Department of Pure Waters sanitary sewer system. Full time treatment of the SDA contaminated groundwater began in March 1998.

1.2 PURPOSE

This report summarizes the results of groundwater treatment system maintenance, operation and sampling and groundwater monitoring well sampling events for the period from September 2004 through December 2005. Summary data collected at the groundwater treatment plant influent, within the process train, treatment plant effluent and monitoring wells is included in the report appendices.

2.0 MONITORING METHODS

2.1 BACKGROUND

Monitoring of the groundwater collection and treatment system was conducted daily throughout the year. This monitoring practice helps to:

- Demonstrate compliance with regulatory requirements associated with operation of the system (i.e., sewer use permit limitations).
- Assist in the ongoing evaluation of the effectiveness of the system in remediating the overburden groundwater in the SDA .
- Determine the degree and frequency of routine operational adjustments and maintenance needs.
- Demonstrate the end of the need to operate the system based on groundwater contaminant concentration.

The weekly groundwater collection and treatment system monitoring logs are included in Appendix A. The logs consist of recorded daily influent rates from the flowmeter at the head of the treatment process, air stripper pressures and other treatment process up keeping measures. Groundwater treatment system monitoring was conducted through the collection and analysis of aqueous samples at the following locations in the process train:

- GWTS influent
- Air stripper effluent and air emissions
- Groundwater monitoring wells

These locations were monitored for baseline contaminant concentrations according to the parameters illustrated in Table 2-1. The GWTS effluent limits were based on limits set by the Monroe County Pure Waters District are listed in Tables 2-2 and 2-3. Air stripper emissions are required to remain below the limits listed in Table 2-4. A schematic of the GWTS is shown in Figure 2-1.

2.2 SAMPLE PROCEDURES

2.2.1 Groundwater Treatment Plant

Ports installed in the treatment system train allow for performance testing of individual unit process components. Performance monitoring was conducted on the effluent stream on a monthly basis and on the influent stream on a quarterly basis. Sampling at the head of the treatment process (i.e., feed tank sample port) was conducted to provide information on the raw groundwater quality and to allow for a comparison with the system effluent to monitor the overall efficiency of the treatment process. Influent

samples were analyzed for: VOCs by EPA Method 601/602; Pesticides and PCBs by EPA Method 608; total RCRA metals; pH; alkalinity and hardness.

The VOC removal efficiency of the air stripper can be measured by comparing VOC concentrations in samples collected at the groundwater treatment system inlet and air stripper outlet sampling ports. Monthly effluent samples were collected and analyzed for: Volatiles by EPA Methods 601/602 and 8015; Pesticides and PBCs by EPA Method 608; Semi-volatiles by EPA 625; total RCRA metals; phosphorous and pH to ensure compliance with the discharge monitoring requirements of the Monroe County Pure Waters District. Effluent samples were collected from the effluent tank discharge port. All samples were collected as single grabs by filling pre-cleaned sample bottles from sample ports.

2.2.2 Groundwater

Groundwater sampling was performed semi-annually using disposable polyethylene bailers. Monitoring well sampling was conducted in accordance with the O&M manual and its Appendices E.1 through E.4. Samples intended for laboratory analyses were stored in the appropriate polyethylene or glass bottles, preserved in the field, and transferred to Paradigm Environmental Services, Inc., located in Rochester, NY. The analytical results for the annual sampling event are included in Appendix B.

2.3 ANALYTICAL METHODOLOGY

Paradigm Environmental Services, Inc., ELAP-certified laboratory No. 10958, analyzed all samples collected. Sampling was conducted according to Table 2-5 and Table 2-6 which identify the analytical parameters, methods, method references, detection limits, holding times, preservatives, and container specifications for all analyses.

Table 2-1
Rochester Fire Training Academy

SUMMARY OF ROUTINE GROUNDWATER TREATMENT SYSTEM AND MONITORING WELL SAMPLING

Location	Purpose	Sample Type	Sample Frequency	Parameters
GWTS Influent [1]	GWTS performance monitoring/ estimate air emission rate	Grab	Quarterly	VOCs (601, 602), PCBs, Metals[2], pH, temperature, turbidity, hardness, alkalinity
Between Primary & Secondary Carbon Vessels	GWTS performance monitoring	N/A	N/A	N/A
GWTS Effluent [3]	GWTS performance monitoring/ discharge compliance monitoring	Grab	Monthly	Total Toxic Organics(TTO)[4], pH, temperature, turbidity, flow rate, Phosphorous, Metals[2]
MW- 6I, 7S, 7I, 7D, 8I, 9D, 10S, 10I, 11I, 15S	Monitoring Groundwater Quality	Grab[5]	Semi-Annually	VOCs (601, 602)

Notes:
(1) Collected prior to bag filter unit at Sample Port BV-1.
(2) Metals (total includes: arsenic, iron, cadmium, chromium, copper, lead, manganese, nickel, selenium and zinc.
(3) AS effluent sample BV-68 eliminated subsequent to removal of carbon vessels.
(4) Total toxic organics (TTO) includes analyses for VOCs (601, 602), semi-volatiles (625) and pesticides/PCBs (608).
(5) Follow procedures in Appendix E. Also measure water level in each well and in the collection trench piezometers.

Table 2-2
Rochester Fire Training Academy

MONROE COUNTY PURE WATERS PERMIT #705
DISCHARGE LEVELS (Metals)

Parameter	Limit (ppm)
Phosphorous	10.0
Arsenic	0.5
Cadmium	1.0
Chromium	3.0
Copper	3.0
Lead	1.0
Manganese	5.0
Nickel	3.0
Selenium	2.0
Zinc	5.0

Note: All parameters are analyzed for total concentrations

Table 2-3
Rochester Fire Training Academy

MONROE COUNTY PURE WATERS PERMIT #705
DISCHARGE LEVELS (pH, PCBs and TTOs)

Parameter	Limit (ppm)
pH	5.5-10.0
Polychlorinated Biphenyls (PCBs)	BDL
Acetone	Monitoring
Methyl Ethyl Ketone (2-Butanone)	Monitoring
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	Monitoring
4-Methylphenol (p-cresol)	Monitoring
Total Toxic Organics (TTO)	2.13 ppm

Notes:
BDL = Below detection limit.
TTO = The summation of Purgeable Halocarbons (EPA Method 601), Purgeable Aromatics (EPA Method 602), Xylene, acid extractables, base neutrals, pesticides, and PCBs.

Table 2-4
Rochester Fire Training Academy

ACCEPTABLE VOLATILE ORGANIC COMPOUND LOADINGS

Contaminant	Hourly ERP[1] Emissions (lbs/hr)	Hourly Actual Emissions (lbs/hr)	Annual Emissions (lbs/yr)
Acetone	0.032	0.012	105.00
Chloroform	<0.001	<0.001	0.50
Benzene	<0.001	<0.001	0.60
1,1,1-Trichloroethane	0.158	0.059	519.00
Chloroethane	0.002	0.001	4.90
Vinyl Chloride	0.004	0.002	14.50
Methylene Chloride	0.012	0.004	38.10
Bromodichloromethane	<0.001	<0.001	0.60
1,1-Dichloroethane	0.020	0.008	65.70
1,1-Dichloroethene	0.002	0.001	7.90
2-Butanone	0.003	0.001	9.90
Trichloroethylene	0.019	0.007	61.80
Ethylbenzene	0.007	0.003	22.30
1,2-Dichloroethane	0.001	<0.001	3.00
4-Methyl-2-Pentanone	0.003	0.001	10.50
Toluene	0.018	0.007	59.80
Chlorobenzene	<0.001	<0.001	0.50
Tetrachloroethylene	0.002	0.001	5.80
1,2-Dichloroetene	0.600	0.225	1970.00
Xylene	0.046	0.017	151.00

Notes: [1] ERP = Emission Rate Potential (highest possible emission rate).

Table 2-5
Rochester Fire Training Academy

ANALYTICAL METHODS AND PROTOCOLS FOR GROUNDWATER TREATMENT SYSTEM MONITORING

Parameter	Method	Method Reference	Holding Time	Preservation	Container
pH, Temperature, Turbidity	Field		(2)	None	1-500 ml polyethylene bottle
Phosphorous (Total as P)	365.4	(1)	28 days	H_2SO_4 to pH<2; Cool to 4°C	100 ml polyethylene bottle
Hardness	130.1	(1)	6 months	H_2SO_4 to pH<2	1-500 ml polyethylene bottle
Alkalinity	310.1	(1)	14 days	Cool to 4°C	1-500 ml polyethylene bottle
Total Metals:					
Arsenic	206.2	(1)	180 days	HNO_3 to pH <2	
Iron	200.7	(1)	180 days	HNO_3 to pH <2	
Cadmium	200.7	(1)	180 days	HNO_3 to pH <2	
Chromium	200.7	(1)	180 days	HNO_3 to pH <2	1-1 litre polyethylene bottle
Copper	200.7	(1)	180 days	HNO_3 to pH <2	
Lead	200.7	(1)	180 days	HNO_3 to pH <2	(Volume as satisfies requirement for
Manganese	200.7	(1)	180 days	HNO_3 to pH <2	all metals listed)
Nickel	200.7	(1)	180 days	HNO_3 to pH <2	
Selenium	270.2	(1)	180 days	HNO_3 to pH <2	
Zinc	200.7	(1)	180 days	HNO_3 to pH <2	
Total Toxic Organics/ Volatiles:					
Purgeable Halocarbons	601	(1)	14 days	Cool to 4°C, 0.008% $Na_2S_2O_3$	2-40 ml glass vials
Purgeable Aromatics	602	(1)	14 days	Cool to 4°C, 0.008% $Na_2S_2O_3$	2-40 ml glass vials
Xylene	602	(1)	14 days	Cool to 4°C, 0.008% $Na_2S_2O_3$	2-40 ml glass vials
Acid Extractables	625	(1)	7 days to	Cool to 4°C	1-1 litre amber glass jug
Base/ Neutral Extractables[4]	625	(1)	extraction;	Cool to 4°C	1-1 litre amber glass jug
Pesticides	608	(1)	40 days to	Cool to 4°C	1-1 litre amber glass jug
PCBs	608	(1)	analysis	Cool to 4°C	1-1 litre amber glass jug
Other Organics:					
Acetone	8015	(1)	14 days	Cool to 4°C, 0.008% $Na_2S_2O_3$	2-40 ml glass vials
Methyl Ethyl Ketone	8015	(1)	14 days	Cool to 4°C, 0.008% $Na_2S_2O_3$	2-40 ml glass vials
Methyl Isobutyl Ketone	8015	(1)	14 days	Cool to 4°C, 0.008% $Na_2S_2O_3$	2-40 ml glass vials

Notes:
(1) 40 CFR Part 136; Chemical Analysis of Water and Wastewater, EPA 600/4-49-020, Revised March 1983.
(2) Conduct test immediately following collection of samples.
(3) USEPA SW-846 Teat Methods for Evaluating Solid Waste, Physical/ Chemical Methods, September 1986, 3rd Edition.
(4) Includes analysis for 2-methylphenol.

Table 2-6
Rochester Fire Training Academy

ANALYTICAL METHODS AND PROTOCOLS FOR MONITORING WELL SAMPLING

Parameter	Method	Method Reference	Holding Time	Preservation	Container
pH, Eh, Temperature, Turbidity Specific Conductivity	Field	----	(1)	None	1-500 ml polyethylene bottle
TCL Volatiles	601/ 602	(1)	14 days	4 drops concentrated HCl Cool to 4° C	2-40 ml glass vials w/ teflon-lined septa

Notes:
(1) Conduct test immediately following collection of samples.
Reference:
USEPA SW-846 Teat Methods for Evaluating Solid Waste, Physical/ Chemical Methods, September 1986, 3rd Edition.

G:\ENVQUAL\DENNIS\Jobs\Rochester Fire Academy\RFA Annual Reports\2005 Report\TABLE2-6.wpd

3.0 SUMMARY OF MONITORING RESULTS

Groundwater and system sampling results for the Groundwater Treatment System throughout the monitoring period are illustrated in Tables 3-1 through 3-3.

On or about July 28, 2004 the water treatment plant facility was apparently hit by lightning. As a result, the programmable panel that controlled the operation of the collection trench pumps was damaged. The system was shut down on August 30, 2004 and the system was repaired and re-programmed. System operation trouble-shooting and program de-bugging was completed on February 18, 2005 and the system was put back into full operation. No other major system repairs or changes were necessary during the time period from September 2004, through December 2005.

3.1 GWTS INFLUENT

Table 3-1 summarizes the results of the Quarterly GWTS Influent sampling events from September 2004 through December 2005. The following VOCs were consistently found in the groundwater treatment system influent:

- Vinyl Chloride
- 1,1-Dichloroethane
- 1,1,1-Trichloroethane
- Trichloroethene
- Toluene

1,1,1-Trichloroethane was detectable in the influent water during each of the quarterly sampling events (February 28, 2005; May 11, 2005; August 12, 2005; and November 22, 2005). 1,1-Dichloroethane and Toluene were also detected in samples from the May 11, 2005; August 12, 2005; and November 22, 2005 quarterly sampling events. Graph 1 illustrates the contaminant concentrations throughout the monitoring period. PCBs were not detected in the GWTS influent during any of the sampling events. GWTS influent sampling laboratory analysis results are included in Appendix B.

3.2 AIR STRIPPER

Air Emissions

Air containing volatile organic compounds (VOCs) stripped from the groundwater is discharged from the Air Stripper tower and is therefore an air emission point source. The air stripper is exempt from formal permitting requirements, however the NYSDEC approved air loadings proposed in the GWTS O&M manual. VOC loadings are calculated by a groundwater VOC mass balance through the air stripper. These results are presented in Table 3-2. The mass balance calculation tables are located in Appendix C. No incidents of exceedance of the assigned air loading values were noted during the monitoring period.

Effluent

Table 3-3 illustrates VOC concentrations in the air stripper effluent throughout the monitoring period. Contaminant concentrations after treatment through the Air Stripper were consistently reduced by greater than 99% from the GWTS influent contaminant concentrations. Graph 2 represents the overall trend in the GWTS influent contaminant levels and the Air Stripper post treatment levels from system start-up through December 2005.

A total of 1,498,731 gallons of contaminated groundwater were treated and discharged from the system from February 18, 2005 through December 29, 2005. Based on the mass balance calculation Tables presented in Appendix C and illustrated in Graph 4, approximately 162.85 pounds of VOCs were removed from treated groundwater from February, 2005 through December, 2005, for a total of 2428.5 pounds removed to date.

3.3 GWTS EFFLUENT

The effluent permit limits of the groundwater are the limits of the Sanitary Sewer Industrial Use Permit (IUP)(MCPW permit #705). Monthly sampling is required by the permit to monitor the groundwater treatment plant effluent. The permit limits are illustrated in Tables 2-2 and 2-3. The effluent concentrations are shown in Tables 3-4 and 3-5

Laboratory analysis results indicated a contaminant spike from the discharge water from the April 27, 2005 monthly sampling event. The City was issued a Notice of Violation of discharge permit #705 by the Monroe County Water Authority. The wastewater discharged with contaminant concentrations in exceedance of permit limits was attributed to a faulty flow sensor controlling the operation of the air stripper blower. The intermittent operation of the blower resulted in decreased efficiency of the air stripper and effluent discharges with higher residual contaminant concentrations. The City repaired the flow sensor and the system was returned to normal operation on May 11, 2005. Influent and Effluent permit sampling was performed subsequent to the repairs on May 11, 2005 and laboratory analysis results indicated that the effluent discharge concentrations (1.48 mg/L) had decreased to allowable contaminant concentrations. Throughout the remainder of the monitoring period, the system maintained a 99% rate of reduction of influent contaminant concentrations to effluent concentrations and Total Toxic Organic concentrations in the effluent remained below permit limits. In most samples, VOCs that were detected in the influent were not present in the effluent. Graph 3 illustrates the GWTS effluent concentrations over time. GWTS effluent sampling laboratory analysis results are also included in Appendix B.

3.4 MONITORING WELLS

Up gradient and down gradient monitoring wells were sampled during the post remediation period. Results from the November 2003 and July 2004 sampling events are shown in Tables 3-7 and 3-8. The down gradient well concentrations are compared to the GA Groundwater Standards and the up gradient well concentrations. This helps to determine the effectiveness and integrity of the remedial measures, including the hydraulic and treatment efficiency of the groundwater collection and treatment system in the SDA. The up gradient wells MW6, MW9 and MW10, are monitored to establish background groundwater quality. The remaining wells are monitored to establish the down gradient water quality. The monitoring well locations are shown in Figure 3-1 (Figure 3-1 from the O&M manual).

Monitoring wells MW6I, MW7S, MW7I, MW7D, MW8I, MW9D, MW10S, MW10I, MW11I, and MW15S were sampled on December 7, 2004; May 11, 2005 and November 3, 2005. Samples were analyzed for volatiles by EPA Methods 601/602. No significant changes in detected contaminant concentrations were noted from the laboratory analysis results.

Monitoring wells MW7S and MW7I, located immediately down gradient from the SDA recovery trench exhibit the highest contaminant concentrations. Complete copies of groundwater laboratory analysis results are included in Appendix B.

Table 3-1
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Influent Quarterly Grab Sampling

	GWTS Influent			
Parameter	**11/24/2003**	**02/20/2004**	**05/24/2004**	**08/20/2004**
Total Volatiles (601/602) (ug/L)				
Vinyl Chloride	ND(1000)	ND(1000)	1,230.0	ND(1000)
Chloroethane	ND(1000)	ND(1000)	ND(1000)	ND(1000)
1,1-Dichloroethene	ND(1000)	ND(1000)	ND(1000)	ND(1000)
1,1-Dichloroethane	ND(1000)	2,110.0	2,300.0	1,610.0
1,2-Dichloroethane	ND(1000)	ND(1000)	ND(1000)	ND(1000)
1,1,1-Trichloroethane	10,200.0	17,900.0	20,100.0	16,200.0
Trichloroethene	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Tetrachloroethene	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Benzene	ND(350)	ND(350)	ND(350)	ND(350)
Toluene	ND(1000)	1,890.0	3,340.0	1,740.0
Total PCBs (EPA 8080) (ug/L)				
PCB 1016	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1221	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1232	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1242	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1248	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1254	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
PCB 1260	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Total Metals (mg/L)				
Arsenic	< 0.005	0.009	0.015	0.006
Cadmium	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	< 0.010	< 0.010	< 0.010	< 0.010
Copper	< 0.010	< 0.010	< 0.010	< 0.010
Iron (not on IDP)	3.900	5.350	2.760	2.460
Lead	< 0.005	< 0.005	< 0.005	< 0.040
Manganese	0.333	0.376	0.351	0.318
Nickel	< 0.040	< 0.040	< 0.040	< 0.040
Selenium	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	< 0.020	0.052	< 0.020	< 0.020

Table 3-2
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Air Stripper Air Emissions Testing

Parameter	Lbs/ hr (Total Concentration)				
	02/28/2005	05/11/2005	08/12/2005	11/22/2005	Hourly ERP[1] Emissions (lbs/hr)
Total Volatiles (601/602) (ug/L)					
Vinyl Chloride	N/A	0.0000	0.0014	0.0000	0.0040
Chloroethane	N/A	0.0000	0.0000	0.0000	0.0020
1,1-Dichloroethene	N/A	0.0000	0.0000	0.0000	0.0020
1,1-Dichloroethane	N/A	0.0016	0.0027	0.0029	0.0200
1,2-Dichloroethane	N/A	0.0000	0.0000	0.0000	0.0010
Tetrachloroethene	N/A	0.0000	0.0000	0.0000	0.0020
1,1,1-Trichloroethane	N/A	0.0132	0.0233	0.0291	0.1580
Trichloroethene	N/A	0.0000	0.0000	0.0000	0.0190
Benzene	N/A	0.0000	0.0000	0.0000	<0.001
Toluene	N/A	0.0014	0.0039	0.0031	0.0180

Note: Calculated from Air Stripper Total Influent Concentrations and Air Stripper Total Effluent Concentrations.
[1] ERP = Emission Rate Potential (highest possible emission rate).

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Table 3-3
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Air Stripper Effluent Quarterly Grab Sampling

	Total Concentration (ug/l)			
Parameter	**02/28/2005**	**05/11/2005**	**08/12/2005**	**11/22/2005**
Total Volatiles (601/602)				
Vinyl Chloride	ND(2.0)	ND(5.0)	ND(4.0)	ND(4.0)
Chloroethane	ND(2.0)	ND(5.0)	ND(4.0)	ND(4.0)
1,1-Dichloroethene	ND(2.0)	ND(5.0)	ND(4.0)	ND(4.0)
1,1-Dichloroethane	7.07	16.70	11.50	14.10
1,2-Dichloroethane	3.78	7.99	ND(4.0)	ND(4.0)
Tetrachloroethene	ND(2.0)	ND(5.0)	ND(4.0)	ND(4.0)
1,1,1-Trichloroethane	76.40	71.20	70.70	44.20
Trichloroethene	3.00	ND(5.0)	ND(4.0)	ND(4.0)
Benzene	ND(0.70)	ND(1.75)	ND(1.4)	ND(1.4)
Toluene	2.38	5.05	11.90	5.34

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Table 3-4
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Effluent Composite Sampling

	RFA Effluent											
Parameter	**02/28/05**	**03/31/05**	**04/27/05**	**05/11/05**	**06/17/05**	**06/23/05**	**07/14/05**	**08/12/05**	**09/22/05**	**10/12/05**	**11/22/05**	**12/29/05**
Total Metals (mg/L)												
Arsenic	< 0.005	0.007	0.006	0.009	< 0.005	0.010	0.018	0.011	0.014	0.014	0.008	0.026
Cadmium	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Copper	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Iron (not on IDP)	3.900	2.680	2.710	4.240	3.560	4.620	3.540	3.360	2.760	0.666	2.450	2.640
Lead	< 0.005	< 0.005	0.012	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Manganese	0.333	0.199	0.270	0.264	0.285	0.949	1.190	0.320	0.459	0.028	0.268	0.334
Nickel	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Selenium	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	< 0.020	< 0.020	< 0.020	< 0.020	0.042	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Phosphorous (mg/L)	0.280	0.150	0.280	1.930	6.630	0.680	2.390	1.150	2.730	4.100	15.300	1.300

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Table 3-5
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Effluent Grab Sampling

	RFA Effluent[1]											
Parameter	**02/28/2005**	**03/31/2005**	**04/27/2005**	**05/11/2005**	**06/17/2005**	**06/23/2005**	**07/14/2005**	**08/12/2005**	**09/22/2005**	**10/12/2005**	**11/22/2005**	**12/29/2005**
pH (SU)	8.22	8.02	7.94	8.12	8.06	7.94	7.91	8.18	8.09	7.60	7.90	8.08
PCBs (608)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Acetone (8015)	128.00	81.80	157.00	305.00	184.00	ND(25)	ND(10)	169.00	91.40	ND(10)	64.80	119.00
2-Butanone (8015)	98.60	65.80	282.00	162.00	105.00	ND(12.5)	ND(5.0)	109.00	54.70	ND(5.0)	61.40	143.00
4-methyl-2-pentanone (8015)	22.00	14.30	53.50	57.80	39.10	ND(12.5)	ND(5.0)	25.10	16.80	ND(5.0)	ND(10)	29.80
Total Toxic Organics (TTO)[2]	92.63	202.76	1689.80	128.34	134.80	99.00	99.85	118.90	251.99	57.50	221.14	425.35

Notes:
1. All concentrations except pH reported in parts per billion (ppb).
2. TTO defined as the sum of results from EPA Methods 601/602 + Xylene, 625, and 608.
3. All sample results subsequent to 5/31/00 reflect elimination of carbon filtration from the process system.
   NA - Not Analyzed.

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Table 3-6
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Monitoring Well Sampling Results 12/07/2004

	Parameter	MW6S	MW6I	MW7S	MW7I	MW7D	MW8S	MW8I	MW9D	MW9S	MW10S	MW10I	MW11S	MW11I	MW15S
Total Volatiles (601/602) (ug/L)	Vinyl Chloride	N/A	ND (2.0)	**251.00**	ND (2.0)	ND (2.0)	N/A	**7.02**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	**12.10**	**22.20**
	Chloroethane	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (4.0)
	1,1-Dichloroethene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (4.0)
	1,1-Dichloroethane	N/A	ND (2.0)	**511.00**	**28.00**	ND (2.0)	N/A	**2.14**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (4.0)
	1,2-Dichlorocthane	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	**3.98**
	Tetrachloroethene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (4.0)
	1,1,1-Trichloroethane	N/A	ND (2.0)	**42.90**	**14.60**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (4.0)
	Trichloroethene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (4.0)
	MTBE	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (4.0)
	Benzene	N/A	ND (0.7)	ND (7.0)	ND (7.0)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	**3.37**
	Toluene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (4.0)

Notes:

Table 3-7
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Monitoring Well Sampling Results 05/11/2005

	Parameter	MW6S	MW6I	MW7S	MW7I	MW7D	MW8S	MW8I	MW9D	MW9S	MW10S	MW10I	MW11S	MW11I	MW15S
Total Volatiles (601/602) (ug/L)	Vinyl Chloride	N/A	ND (2.0)	**72.00**	ND (2.0)	ND (2.0)	N/A	**84.50**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	**97.80**	**15.30**
	Chloroethane	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1-Dichloroethene	N/A	ND (2.0)	**21.70**	**2.09**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1-Dichloroethane	N/A	ND (2.0)	**288.00**	**203.00**	ND (2.0)	N/A	**4.74**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,2-Dichloroethane	N/A	ND (2.0)	ND (20)	**3.86**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	Tetrachloroethene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1,1-Trichloroethane	N/A	ND (2.0)	**1110.00**	**42.80**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	Trichloroethene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	MTBE	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	Benzene	N/A	ND (0.7)	ND (7.0)	ND (7.0)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	**71.50**
	Toluene	N/A	ND (2.0)	**60.10**	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)

Notes: 1. 171 ppb Ethylbenzene detected in MW7S.

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Table 3-8
City of Rochester Division of Environmental Quality
Rochester Fire Academy
Monitoring Well Sampling Results 11/03/2005

	Parameter	MW6S	MW6I	MW7S	MW7I	MW7D	MW8S	MW8I	MW9D	MW9S	MW10S	MW10I	MW11S	MW11I	MW15S
Total Volatiles (601/602) (ug/L)	Vinyl Chloride	N/A	**5.92**	**106.00**	**43.50**	ND (2.0)	N/A	**99.50**	**36.50**	N/A	ND (2.0)	ND (2.0)	N/A	**81.90**	**ND (2.0)**
	Chloroethane	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1-Dichloroethene	N/A	ND (2.0)	ND (20)	**6.45**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1-Dichloroethane	N/A	ND (2.0)	**943.00**	**111.00**	ND (2.0)	N/A	**3.89**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,2-Dichloroethane	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	Tetrachloroethene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	1,1,1-Trichloroethane	N/A	ND (2.0)	**338.00**	**234.00**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	Trichlorocthene	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)
	MTBE	N/A	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	**8.20**	N/A	ND (2.0)	ND (2.0)
	Benzene	N/A	ND (0.7)	ND (7.0)	ND (7.0)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	ND (0.7)	N/A	ND (0.7)	ND (0.7)
	Toluene	N/A	ND (2.0)	ND (20)	**2.15**	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)	N/A	ND (2.0)	ND (2.0)

Notes: 1. 2.18 ppb trans-1,2-Dichloroethene detected in MW7I.

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4.0 SUMMARY OF INSPECTION RESULTS

Quarterly Inspection and Maintenance Checks were performed at the site on December 7, 2004; February 28, 2005; May 19, 2005; August 12, 2005 and November 22, 2005. Copies of the Inspection and Maintenance Checklists are included in Appendix D.

4.1 BACKGROUND

The major components of the groundwater collection trench are the 6-inch diameter slotted drainpipe and the 24-foot deep collection sump. During GWTS operation, water levels within the pump station were maintained within the limits established in the O&M manual, between 20 and 22 feet below grade. There were no problems associated with the groundwater collection trench and sump. The alarms for low level or high levels in the pump station were not sounded during this time period.

4.2 SANITARY SEWER USE PERMIT

The required monthly sampling data was submitted to the Monroe County Pure Waters to comply with the City's industrial sewer use permit. The sampling protocol in the sewer use permit were followed for all sampling practices. Required monthly flow summaries were submitted to the County.

4.3 STORM WATER COLLECTION SYSTEM

STORM WATER collection system, drainage and head wall structures are visually inspected periodically to detect clogging and to confirm they are working properly. To-date no clogging or malfunctioning have been determined.

4.4 LANDFILL COVER SYSTEM

The cover systems within the remedial areas of the RFA are as follows:

North Disposal Area - Soil/Synthetic cover consisting of a 40-mil HDPE liner, 24-inches of barrier soil and-6 inches of topsoil.

South Disposal Area - Soil cover consisting of 6-inches of topsoil.

Training Grounds Area - Asphalt cover consist of base and surface courses.

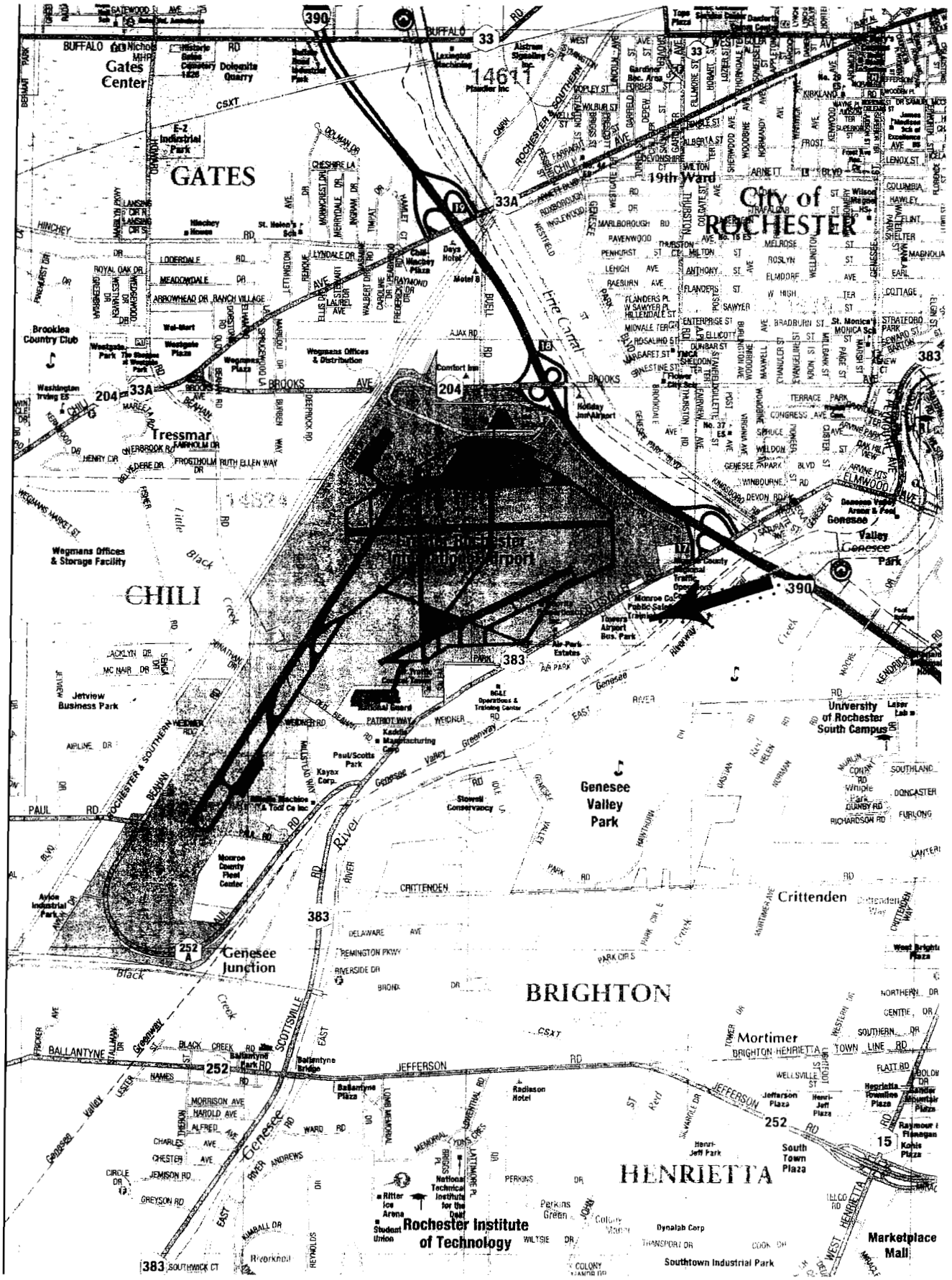
The City routinely inspected the cover materials and supporting infrastructure in each area. The daily log includes a check for the North and South Disposal Areas. Each of these areas have been inspected daily and indicate no signs of erosion, problems with vegetative cover or exposed liner at the North Disposal Area. The vegetation at the South Disposal Area was periodically trimmed during the summer of

2005. The vegetation at the North Disposal Area was monitored but did not require trimming during the summer of 2005.

4.5 FACILITY ACCESS

The facility access is inspected on a quarterly basis and any required repairs are completed.

Figures


GATES
CHILI
BRIGHTON
HENRIETTA
City of ROCHESTER
Gates Center
E-Z Industrial Park
19th Ward
Brookiea Country Club
Wegmans Offices & Distribution
Wegmans Offices & Storage Facility
Tressmar
Jetview Business Park
Monroe County Fleet Center
Avion Industrial Park
Genesee Junction
Genesee Valley Park
Genesee Valley Park
University of Rochester South Campus
Crittenden
Mortimer
South Town Plaza
Rochester Institute of Technology
Marketplace Mall
Southtown Industrial Park
Monroe County Public Safety Training Facility
Rochester Monroe Municipal Airport
Greater Rochester International Airport
Holiday Inn Airport
Comfort Inn
Radisson Hotel
Ritter Ice Arena
Student Union
Dynalab Corp
Kodak Manufacturing Corp
Xerox Corp.
Paul/Scotts Park
Stowell Conservatory
Air-Park Estates
Towers Airport Bus. Park
Colony Manor
Perkins Green
Henri-Jeff Park
Jefferson Plaza
Henri-Jeff Plaza
Ballantyne Plaza
Ballantyne Bridge
Ballantyne Park
Riverknoll
Rochester & Southern
Erie Canal
CSXT
Genesee River
Black Creek
Greenway
Genesee Valley Greenway
390
33
33A
204
383
252
15
Figure 1-1
Rochester Fire Training Academy
Site Location Map
1 inch = ½ Mile

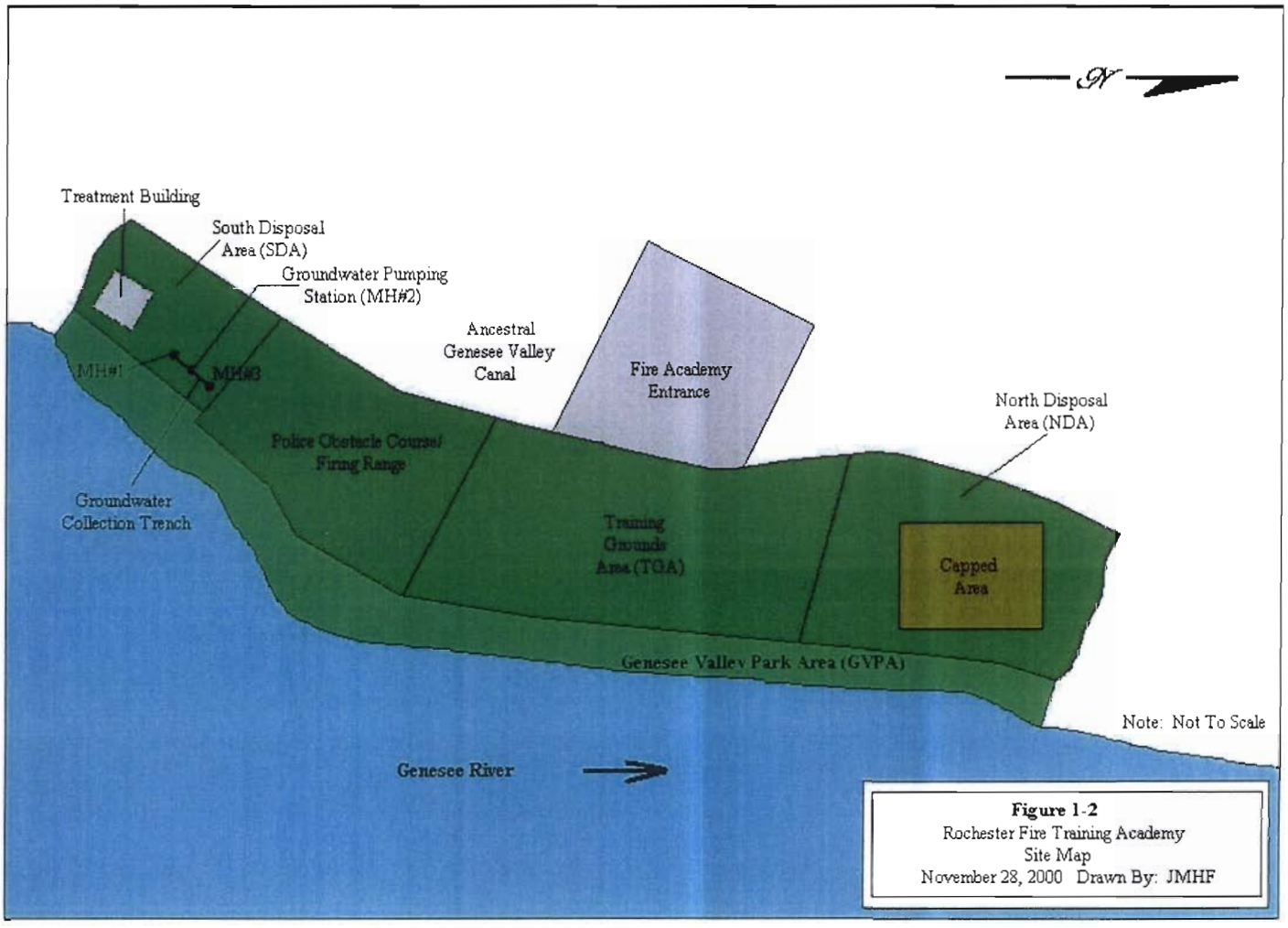


Figure 1-2
Rochester Fire Training Academy
Site Map
November 28, 2000 Drawn By: JMHF

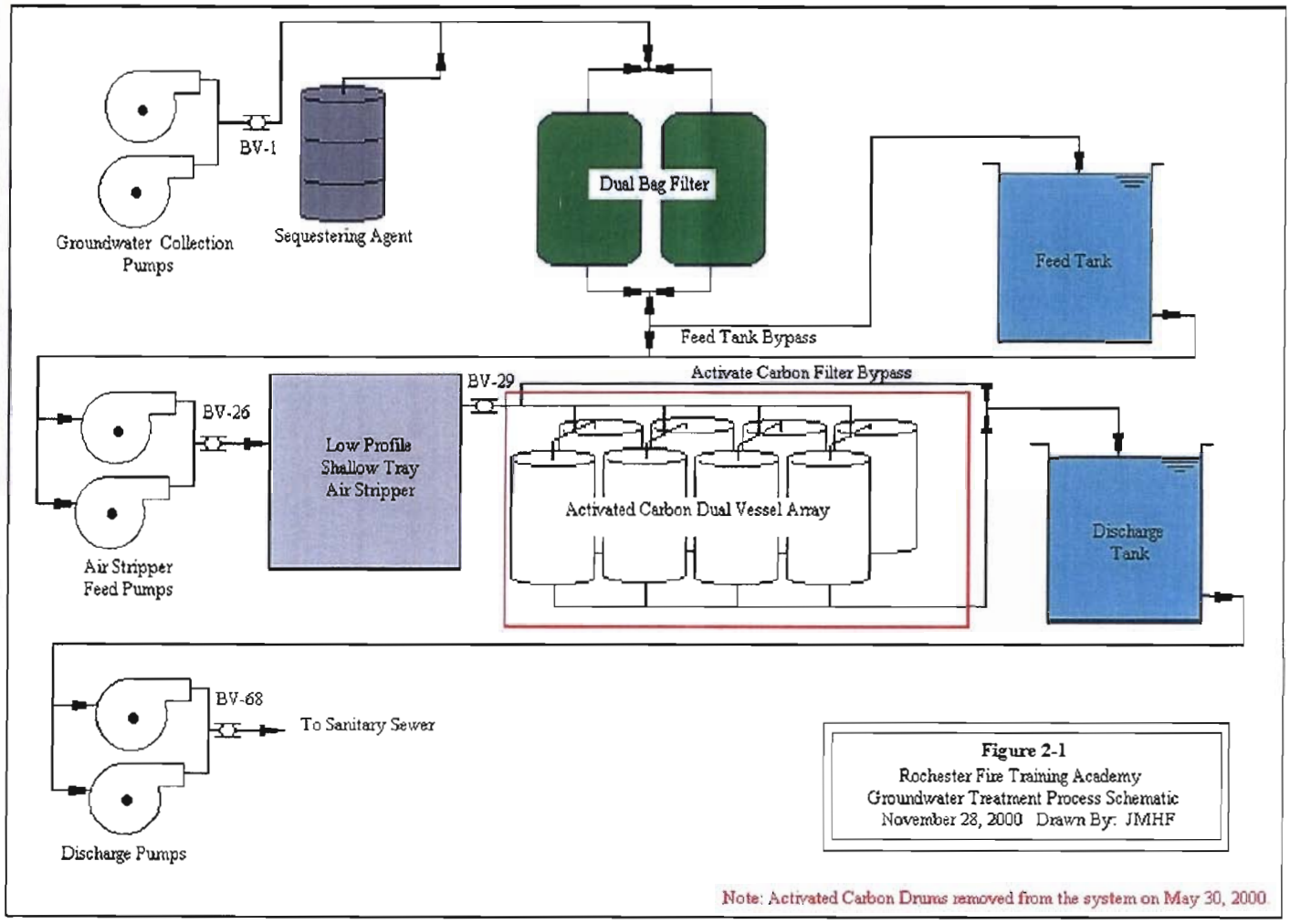


Figure 2-1
Rochester Fire Training Academy
Groundwater Treatment Process Schematic
November 28, 2000 Drawn By: JMHF

Note: Activated Carbon Drums removed from the system on May 30, 2000

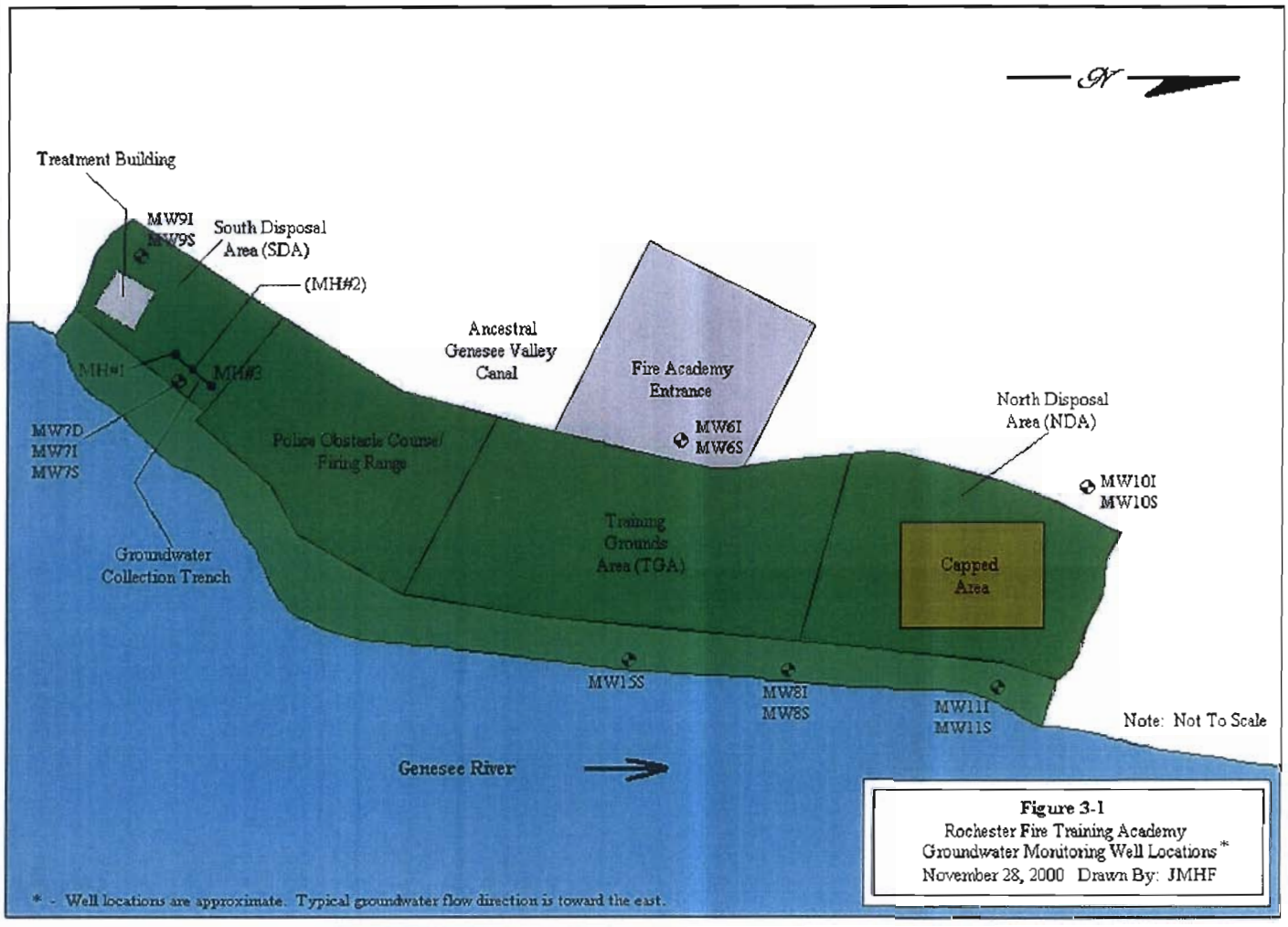
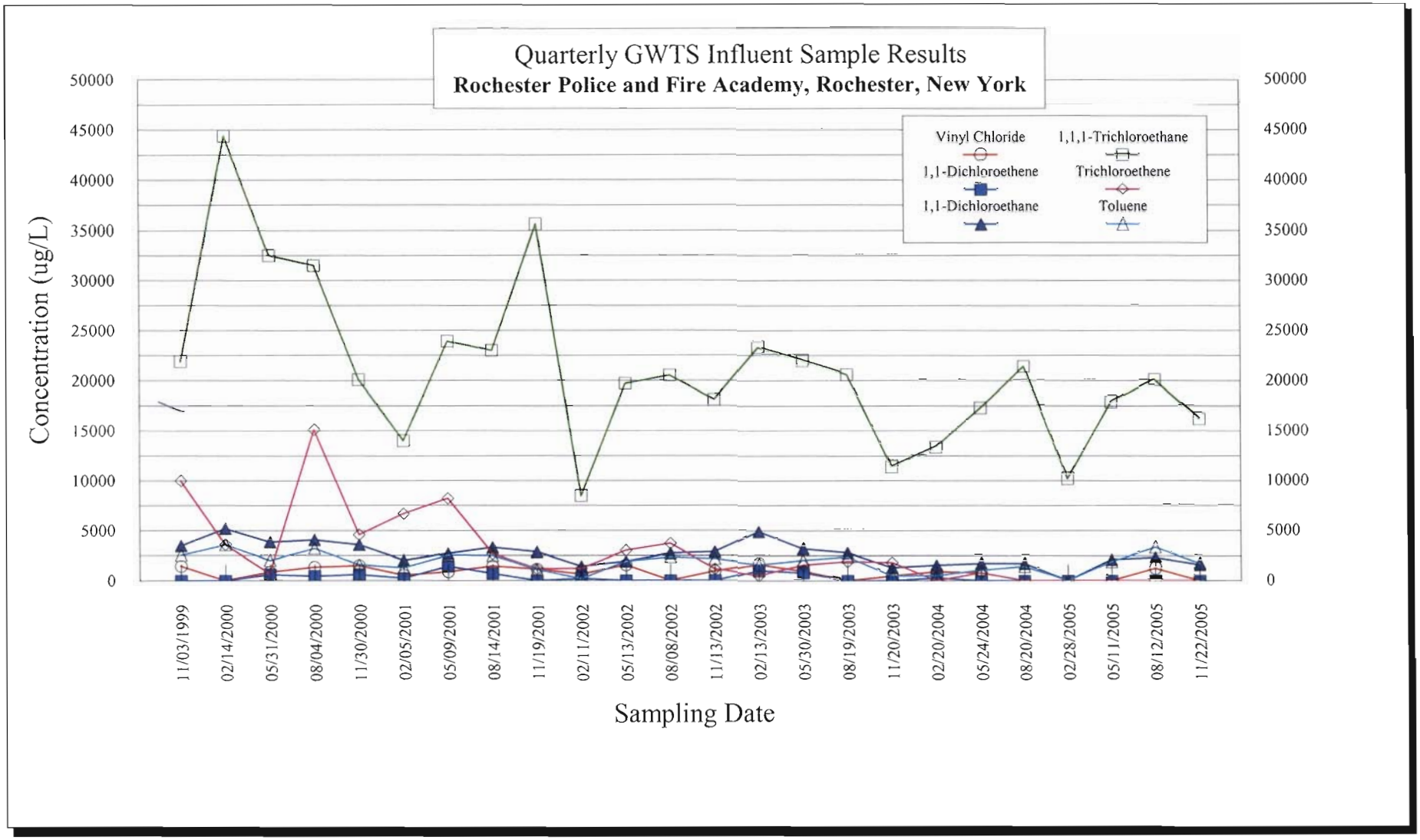


Figure 3-1
Rochester Fire Training Academy
Groundwater Monitoring Well Locations *
November 28, 2000 Drawn By: JMHF

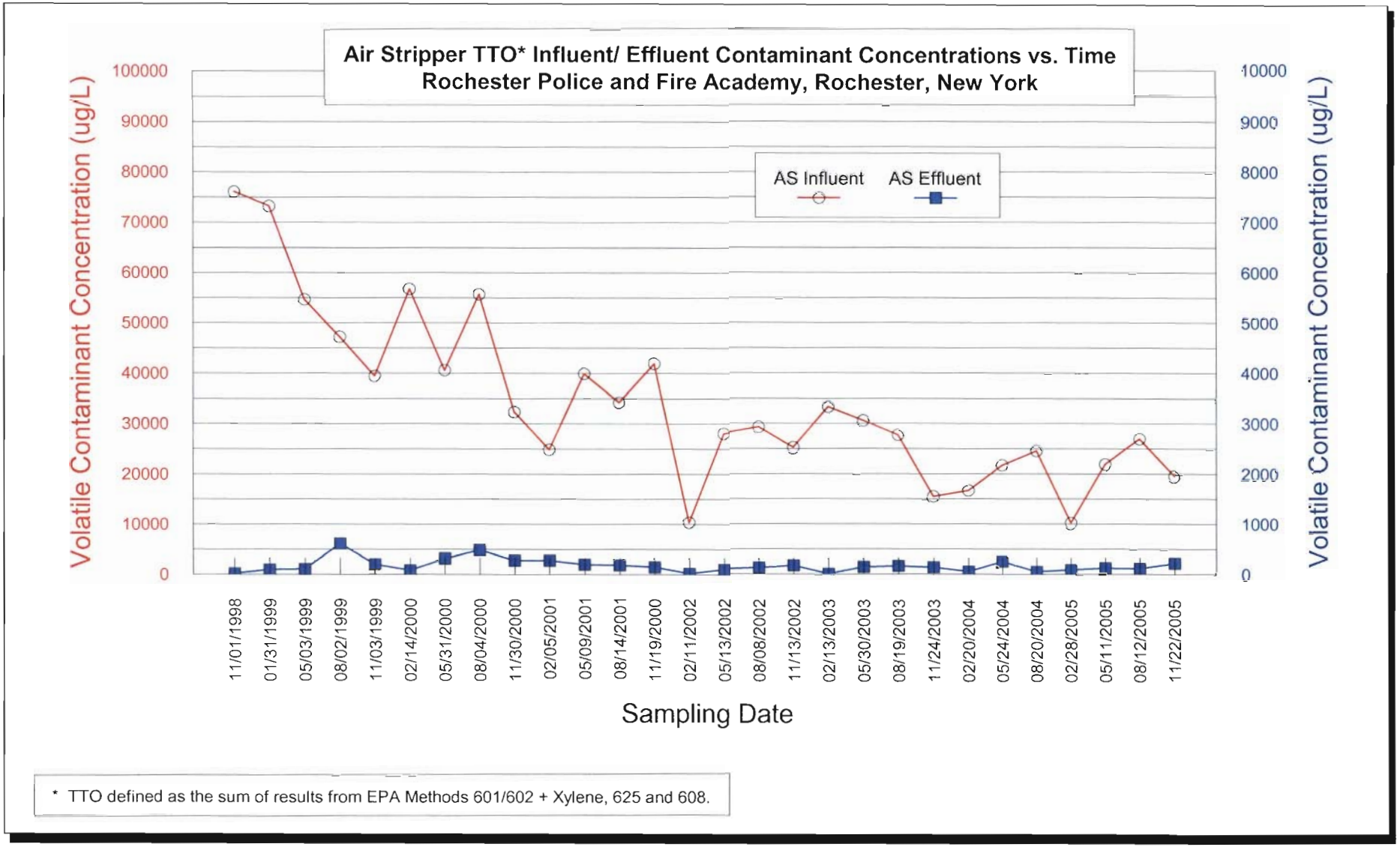
Graphs

Graph 1



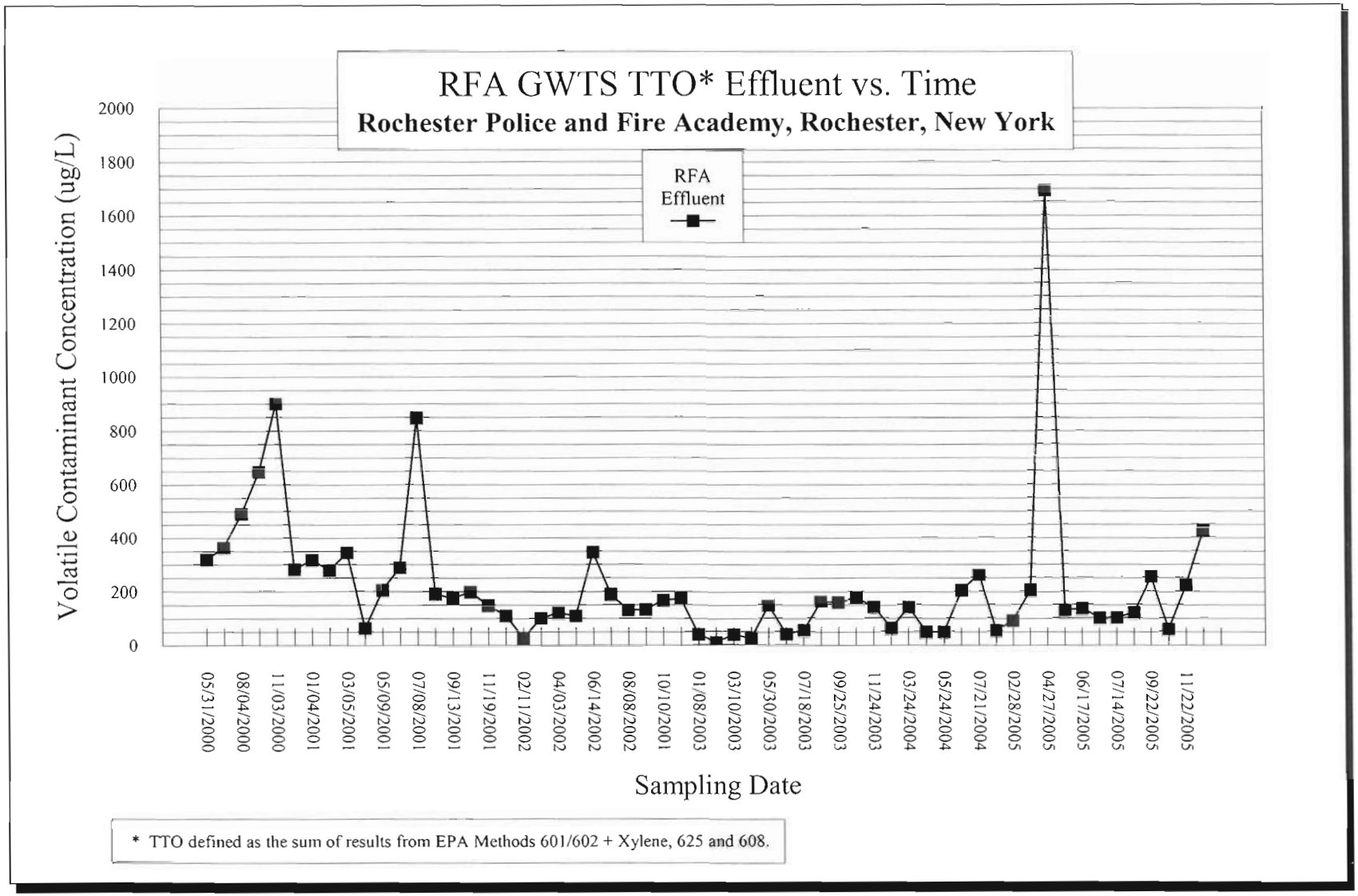
Graph 1.123

Graph 2

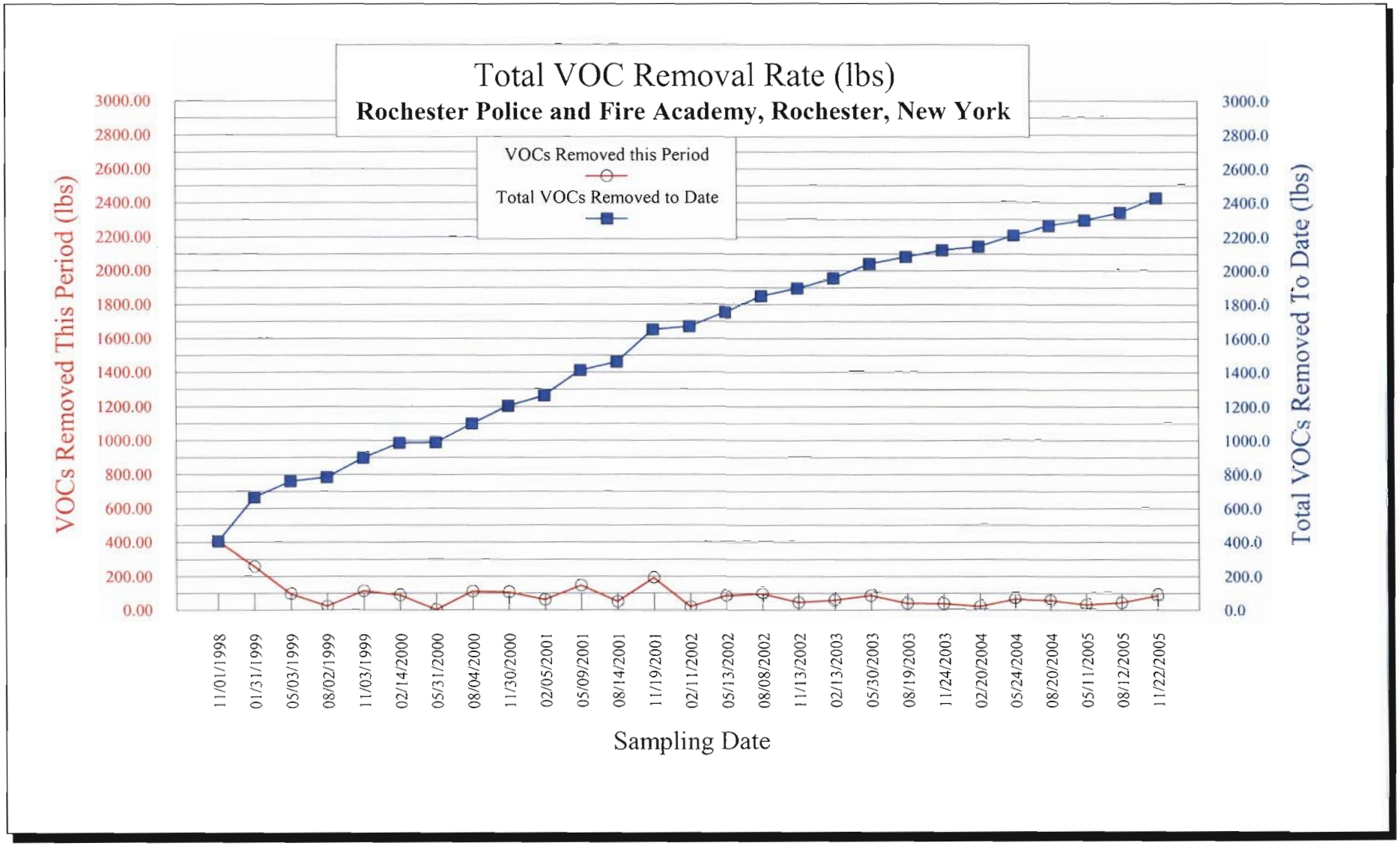


Graph 2.123

Graph 3

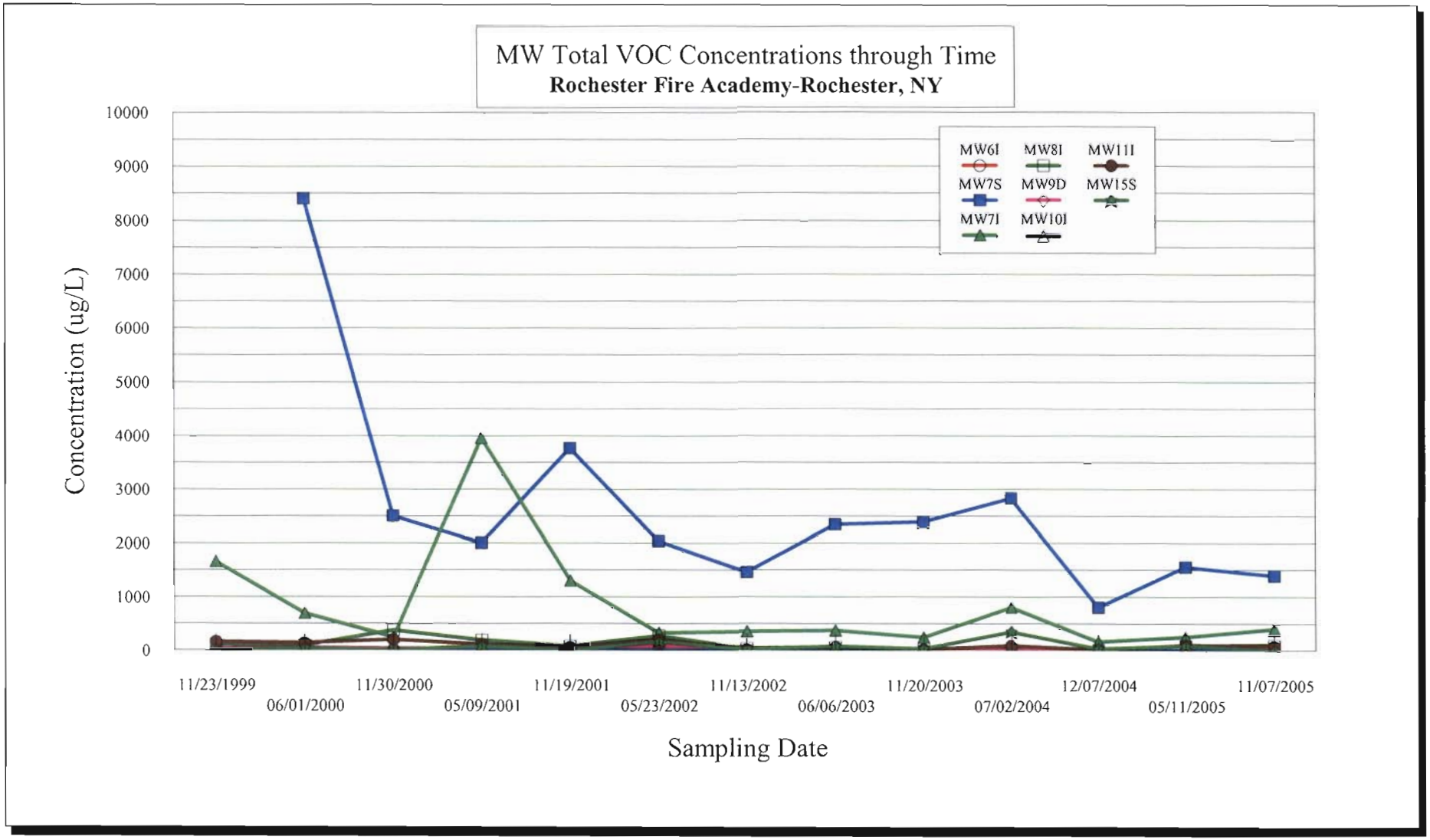

RFA GWTS TTO* Effluent vs. Time
Rochester Police and Fire Academy, Rochester, New York
RFA Effluent
Volatile Contaminant Concentration (ug/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
05/31/2000
08/04/2000
11/03/2000
01/04/2001
03/05/2001
05/09/2001
07/08/2001
09/13/2001
11/19/2001
02/11/2002
04/03/2002
06/14/2002
08/08/2002
10/10/2001
01/08/2003
03/10/2003
05/30/2003
07/18/2003
09/25/2003
11/24/2003
03/24/2004
05/24/2004
07/21/2004
02/28/2005
04/27/2005
06/17/2005
07/14/2005
09/22/2005
11/22/2005
Sampling Date
* TTO defined as the sum of results from EPA Methods 601/602 + Xylene, 625 and 608.

Graph 4



Graph 4.123

Graph 5



Graph 5.123

Appendix A
GWTS Weekly Logs

Rochester Fire Academy Weekly Log

Date	12/22/2004	12/23/2004	12/27/2004	12/28/2004			
Influent Total (gallons)	7,497	13,667	23,206	23,767			
Daily Influent Total (gallons)	7,497	6,170	9,539	561			
Effluent Total (gallons)	6,480	13,280	32,767	32,767			
Daily Effluent Total (gallons)	6,480	6,800	19,487	5,900			
Building Inlet Gauge (gpm)	38	38	38	38			
Lead Bag Filter Inlet/ Outlet (psi)	3/0	3/0	3/0	3/0			
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0			
Feed Tank Pump (5 to 20 psi)	20	20	20	20			
Air Stripper Pressure (psi)	14.0	14.0	14.0	14.0			
Pump 400 (psi)	-	-	-	-			
Pump 401 (psi)	10	10	10	10			
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	31.5"	31.5"	22"	27"			
Visual Inspection NDA	✔	✔	✔	✔			
Visual Inspection TGA	✔	✔	✔	✔			
Cleaned/Changed Bag Filter #1				✔			
Cleaned/Changed Bag Filter #2				✔			
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation				✔			
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	215	210	off	210			
OFF:	205	205	off	205			
12/22/2004 - System PLC unit reprogrammed and initial system testing.							

Rochester Fire Academy Weekly Log

Date	02/03/2005	02/04/2005	02/05/2005	02/08/2005	02/09/2005	02/10/2005	02/14/2005
Influent Total (gallons)	32,682	35,876	37,857	45,319	65,449	77,056	79,509
Daily Influent Total (gallons)							
Effluent Total (gallons)	32,000	35,446	37,355	44,484	64,767	76,252	78,449
Daily Effluent Total (gallons)							
Building Inlet Gauge (gpm)	39	40	41	41	40	40	40
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	-	.3" add	33"	29"	28"	27"	27"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation	✔						
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	225	220	215	210	208	off	235
OFF:	220	215	210	205	205	for weekend	225
Reset inf /eff. totalizers:					✔		✔

Rochester Fire Academy Weekly Log

Date	02/16/2005	02/17/2005	02/18/2005	02/22/2005	02/23/2005	02/25/2005	02/28/2005
Influent Total (gallons)	98,216	114,465	122,237	143,591	146,470	146,470	155,298
Daily Influent Total (gallons)							
Effluent Total (gallons)	97,534	113,995	120,148	141,824	145,200	145,200	155,008
Daily Effluent Total (gallons)							
Building Inlet Gauge (gpm)	39	39	37	36	37	40	39
Lead Bag Filter Inlet/ Outlet (psi)	10/9	10/9	10/9	10/9	10/9	7/5	7/5
Lag Bag Filter Inlet/Outlet (psi)	2/0	2/0	2/0	2/0	2/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	25"	25"	22"	16"	12"	9" add	31"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2					✔		
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							✔
Tested Sump Pump Operation						✔	
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	220	220	210	210	210	210	210
OFF:	215	215	205	205	205	205	205
Reset inf /eff. totalizers:	✔		✔				

Rochester Fire Academy Weekly Log

Date	03/01/2005	03/02/2005	03/03/2005	03/04/2005	03/07/2005	03/08/2005	03/09/2005
Daily Influent Meter Reading (gal)	37,664	39,869	43,360	45,609	55,116	74,000	84,337
Total Influent since 2/22/05 (gal)	155,901	158,106	161,597	163,846	173,353	192,237	202,574
Daily Effluent Meter Reading (gal)	38,646	40,677	43,772	46,508	55,494	74,327	85,471
Total Effluent since 2/22/05 (gal)	158,794	160,825	163,920	166,656	175,642	194,475	205,619
Building Inlet Gauge (gpm)	40	40	40	40	38	38	38
Lead Bag Filter Inlet/ Outlet (psi)	7/5	7/5	7/5	7/5	7/5	7/5	7/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	31"	29.5"	24"	21"	8" add	26"	22"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	200	195	190	190	185	185	185
OFF:	195	190	185	185	180	181	181

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Date	03/10/2005	03/11/2005	03/14/2005	03/15/2005	03/17/2005	03/22/2005	03/23/2005
Daily Influent Meter Reading (gal)	90,779	94,786	104,712	107,164	112,166	160,536	180,668
Total Influent since 2/22/05 (gal)	209,016	213,023	222,949	225,401	230,403	278,773	298,905
Daily Effluent Meter Reading (gal)	91,539	95,419	104,787	107,903	113,117	160,515	179,177
Total Effluent since 2/22/05 (gal)	211,687	215,567	224,935	228,051	233,265	280,663	299,325
Building Inlet Gauge (gpm)	38	38	38	38	36	36	35
Lead Bag Filter Inlet/ Outlet (psi)	7/5	7/5	8/5	9/5	9/5	10/5	11/6
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	1/0	1/0	2/1	2/1
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	19"	15"	15"	13"	12" add	29"	25"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	185	185	185	185	180	175	175
OFF:	181	181	181	181	175	170	170

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Date	03/24/2005	03/28/2005	03/29/2005	03/31/2005			
Daily Influent Meter Reading (gal)	188,480	225,445	231,697	239,510			
Total Influent since 2/22/05 (gal)	306,717	343,682	349,934	357,747			
Daily Effluent Meter Reading (gal)	188,621	223,942	230,896	238,586			
Total Effluent since 2/22/05 (gal)	308,769	344,090	351,044	358,734			
Building Inlet Gauge (gpm)	34	32	32	30			
Lead Bag Filter Inlet/ Outlet (psi)	12/6	13/6	14/7	15/8			
Lag Bag Filter Inlet/Outlet (psi)	2/1	2/1	2/1	2/1			
Feed Tank Pump (5 to 20 psi)	20	20	20	20			
Air Stripper Pressure (psi)	14.0	14.0	14.0	14.0			
Pump 400 (psi)	-	-	-	-			
Pump 401 (psi)	10	10	10	10			
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	21"	21"	20"	19.5"			
Visual Inspection NDA	✔	✔	✔	✔			
Visual Inspection TGA	✔	✔	✔	✔			
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling				✔			
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	180	180	180	175			
OFF:	175	175	175	170			

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Date	04/01/2005	04/04/2005	04/05/2005	04/06/2005	04/07/2005	04/08/2005	04/11/2005
Daily Influent Meter Reading (gal)	244,460	325,275	327,059	331,827	337,449	341,369	350,904
Total Influent since 2/22/05 (gal)	362,697	443,512	445,296	450,064	455,686	459,606	469,141
Daily Effluent Meter Reading (gal)	242,710	323,594	325,688	329,638	335,241	338,716	349,020
Total Effluent since 2/22/05 (gal)	362,867	443,751	445,845	449,795	455,398	458,873	469,177
Building Inlet Gauge (gpm)	31	22	40	39	41	41	40
Lead Bag Filter Inlet/ Outlet (psi)	18/8	25/8	5/5	9/10	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	1/0	2/0	2/0	4/1	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	14.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	18" add	24"	24"	20.5"	17"	12.5" add	26"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1		✔	✔				
Cleaned/Changed Bag Filter #2					✔		
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation		✔	✔	✔	✔		
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	175	175	215	210	210	205	200
OFF:	170	170	210	208	208	200	195

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Date	04/12/2005	04/13/2005	04/14/2005	04/15/2005	04/18/2005	04/19/2005	04/20/2005
Daily Influent Meter Reading (gal)	354,558	356,999	358,332	359,853	363,792	364,732	365,875
Total Influent since 2/22/05 (gal)	472,795	475,236	476,569	478,090	482,029	482,969	484,112
Daily Effluent Meter Reading (gal)	352,936	355,468	356,727	358,774	361,816	362,688	364,936
Total Effluent since 2/22/05 (gal)	473,093	475,625	476,884	478,931	481,973	482,845	485,093
Building Inlet Gauge (gpm)	42	41	40	41	41	40	41
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	24.5"	24"	23.5"	20.5"	20.5"	20.5"	17"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	200	200	199	199	199	199	195
OFF:	195	195	195	195	195	195	190

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Date	04/21/2005	04/22/2005	04/25/2005	04/26/2005	04/27/2005	04/28/2005	04/29/2005
Daily Influent Meter Reading (gal)	367,694	369,660	405,183	410,252	415,427	420,122	424,881
Total Influent since 2/22/05 (gal)	485,931	487,897	523,420	528,489	533,664	538,359	543,118
Daily Effluent Meter Reading (gal)	365,793	367,879	403,410	409,171	414,443	419,436	423,715
Total Effluent since 2/22/05 (gal)	485,950	488,036	523,567	529,328	534,600	539,593	543,872
Building Inlet Gauge (gpm)	40	40	40	40	40	40	40
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	10	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	14.5"	13" add	24"	22.5"	22.5"	22"	18"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling					✔		
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	193	188	188	185	180	175	175
OFF:	188	183	183	180	175	170	170

Rochester Fire Academy Weekly Log

Date	05/02/2005	05/03/2005	05/05/2005	05/06/2005	05/09/2005	05/10/2005	05/11/2005
Daily Influent Meter Reading (gal)	432,378	436,489	440,428	-	451,727	454,967	459,915
Total Influent since 2/22/05 (gal)	550,615	554,726	558,665	-	569,964	573,204	578,152
Daily Effluent Meter Reading (gal)	430,545	435,137	438,561	-	450,604	454,466	458,236
Total Effluent since 2/22/05 (gal)	550,702	555,294	558,718	-	570,761	574,623	578,393
Building Inlet Gauge (gpm)	40	-	40	40	40	40	39
Lead Bag Filter Inlet/ Outlet (psi)	5/5	-	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	-	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	-	14.0	14.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	10	-	10	10	10	10	10
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	14"	14"	9.5"	9" add	27.5"	27"	26"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1		✔	✔				
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							✔
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	170	170	165	160	155	150	145
OFF:	165	165	160	155	150	145	140

Rochester Fire Academy Weekly Log

Date	05/12/2005	05/13/2005	05/16/2005	05/17/2005	05/18/2005	05/19/2005	05/20/2005
Daily Influent Meter Reading (gal)	462,062	463,849	472,000	475,744	478,058	481,532	485,798
Total Influent since 2/22/05 (gal)	580,299	582,086	590,237	593,981	596,295	599,769	604,035
Daily Effluent Meter Reading (gal)	461,478	464,236	471,310	475,508	477,808	481,409	485,286
Total Effluent since 2/22/05 (gal)	581,635	584,393	591,467	595,665	597,965	601,566	605,443
Building Inlet Gauge (gpm)	40	-	40	40	-	38	38
Lead Bag Filter Inlet/ Outlet (psi)	5/5	-	5/5	5/5	-	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	-	0/0	0/0	-	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	-	20	20	-	20	20
Air Stripper Pressure (psi)	13.0	-	13.0	13.0	-	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	-	9	9	-	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	22"	19.5"	16.5"	12.5"	11.5"	8" add	33"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	145	140	135	135	130	125	120
OFF:	140	135	130	130	125	120	115

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Date	05/23/2005	05/24/2005	05/25/2005	05/26/2005	05/27/2005	05/31/2005
Daily Influent Meter Reading (gal)	495,531	498,580	503,590	507,920	511,285	523,174
Total Influent since 2/22/05 (gal)	613,768	516,817	621,827	626,157	629,522	641,411
Daily Effluent Meter Reading (gal)	495,966	498,744	504,116	507,327	512,166	523,647
Total Effluent since 2/22/05 (gal)	616,123	518,901	624,273	627,484	632,323	643,804
Building Inlet Gauge (gpm)	38	38	38	-	38	36
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	-	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	-	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	-	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	-	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	-	9	9
Carbon Drum 300 (inlet/outlet)						
Carbon Drum 301 (inlet/outlet)						
Carbon Drum 302 (inlet/outlet)						
Carbon Drum 303 (inlet/outlet)						
Carbon Drum 304 (inlet/outlet)						
Carbon Drum 305 (inlet/outlet)						
Carbon Drum 306 (inlet/outlet)						
Carbon Drum 307 (inlet/outlet)						
Sequestering Agent Level (inches)	32"	29"	26"	24.5"	22"	21"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1						
Cleaned/Changed Bag Filter #2						
Cleaned Feed/ Discharge Tanks						
Performed Monthly/ Quarterly Sampling						
Tested Sump Pump Operation						
Cleaned Sump and Drain						
Additional Tasks/ Notes:						
ON:	115	110	105	105	100	100
OFF:	110	105	100	100	95	95

Rochester Fire Academy Weekly Log

Date	06/01/2005	06/02/2005	06/03/2005	06/06/2005	06/07/2005	06/09/2005	06/10/2005
Daily Influent Meter Reading (gal)	525,987	530,464	533,348	543,348	546,174	553,464	556,000
Total Influent since 2/22/05 (gal)	644,224	648,701	651,585	661,585	664,411	671,701	674,237
Daily Effluent Meter Reading (gal)	526,483	530,353	533,275	543,389	546,285	553,596	556,898
Total Effluent since 2/22/05 (gal)	646,640	650,510	653,432	663,546	666,442	673,753	677,055
Building Inlet Gauge (gpm)	38	38	39	39	38	37	38
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	9	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	21"	19"	17.5"	14.5"	14"	14"	13.5"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	95	95	90	90	85	85	80
OFF:	90	90	85	85	80	80	75

Rochester Fire Academy Weekly Log

Date	06/13/2005	06/16/2005	06/17/2005	06/21/2005	06/23/2005	06/24/2005	06/27/2005
Daily Influent Meter Reading (gal)	567,165	576,053	578,973	593,909	599,824	604,688	613,686
Total Influent since 2/22/05 (gal)	685,402	694,290	697,210	712,146	718,061	722,925	731,923
Daily Effluent Meter Reading (gal)	567,360	577,144	580,098	595,332	601,309	607,070	616,346
Total Effluent since 2/22/05 (gal)	687,517	697,301	700,255	715,489	721,466	727,227	736,503
Building Inlet Gauge (gpm)	38	38	37	37	37	37	34
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	9	9	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	20"	11"	6" add	30"	30"	29"	29"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling					✔		
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	80	80	75	75	70	70	65
OFF:	75	75	70	70	65	65	60

Rochester Fire Academy Weekly Log

Date	06/29/2005	06/30/2005					
Daily Influent Meter Reading (gal)	621,850	624,171					
Total Influent since 2/22/05 (gal)	740,087	742,408					
Daily Effluent Meter Reading (gal)	624,481	625,510					
Total Effluent since 2/22/05 (gal)	744,638	745,667					
Building Inlet Gauge (gpm)	37	37					
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5					
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0					
Feed Tank Pump (5 to 20 psi)	20	20					
Air Stripper Pressure (psi)	13.0	13.0					
Pump 400 (psi)	-	-					
Pump 401 (psi)	9	9					
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	27"	25"					
Visual Inspection NDA	✔	✔					
Visual Inspection TGA	✔	✔					
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	65	65					
OFF:	60	60					

Rochester Fire Academy Weekly Log

Date	07/01/2005	07/05/2005	07/07/2005	07/08/2005	07/12/2005	07/13/2005	07/14/2005
Daily Influent Meter Reading (gal)	627,228	638,612	646,996	649,204	660,456	663,566	665,842
Total Influent since 2/22/05 (gal)	745,465	756,849	765,233	767,441	778,693	781,803	784,079
Daily Effluent Meter Reading (gal)	628,617	640,814	649,000	650,762	663,180	665,600	668,460
Total Effluent since 2/22/05 (gal)	748,774	760,971	769,157	770,919	783,337	785,757	788,617
Building Inlet Gauge (gpm)	34	37	-	-	35	35	35
Lead Bag Filter Inlet/ Outlet (psi)	5/5	5/5	-	-	5/5	5/5	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	-	-	0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	20	20	-	-	20	20	20
Air Stripper Pressure (psi)	13.0	13.0	-	-	13.0	12.0	12
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	9	9	-	-	9	9	9
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	25"	25"	24"	24"	20"	16"	16"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							✔
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	65	60	60	60	60	60	60
OFF:	60	55	55	55	55	55	55

Rochester Fire Academy Weekly Log

Date	07/18/2005	07/19/2005	07/20/2005	07/21/2005	07/25/2005	07/28/2005	
Daily Influent Meter Reading (gal)	680,675	684,714	687,700	692,250	705,224	714,240	
Total Influent since 2/22/05 (gal)	798,912	802,951	805,937	810,487	823,461	832,477	
Daily Effluent Meter Reading (gal)	682,433	687,729	690,882	695,005	709,645	718,842	
Total Effluent since 2/22/05 (gal)	802,590	807,886	811,039	815,162	829,802	838,999	
Building Inlet Gauge (gpm)	37	37	36	36	32	30	
Lead Bag Filter Inlet/ Outlet (psi)	6/5	6/5	6/5	6/5	6/5	6/5	
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	0/0	0/0	
Feed Tank Pump (5 to 20 psi)	20	20	20	20	20	20	
Air Stripper Pressure (psi)	13.0	13.0	13.0	13.0	13.0	13.0	
Pump 400 (psi)	-	-	-	-	-	-	
Pump 401 (psi)	10	10	10	10	10	10	
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	11.5"	8"	7.5" add	27"	24"	22"	
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	60	60	60	60	60	60	
OFF:	55	55	55	55	55	55	

Rochester Fire Academy Weekly Log

Date	08/01/2005	08/02/2005	08/03/2005	08/04/2005	08/05/2005	08/08/2005	08/09/2005
Daily Influent Meter Reading (gal)	727,165	730,275	733,330	736,440	739,495	748,000	750,876
Total Influent since 2/22/05 (gal)	845,402	848,512	851,567	854,677	857,732	866,237	869,113
Daily Effluent Meter Reading (gal)	731,508	734,743	737,925	741,142	744,295	753,639	755,735
Total Effluent since 2/22/05 (gal)	851,665	854,900	858,082	861,299	864,452	873,796	875,892
Building Inlet Gauge (gpm)	-	30	-	-	-	35	36
Lead Bag Filter Inlet/ Outlet (psi)	-	5/5	-	-	-	7/5	7/5
Lag Bag Filter Inlet/Outlet (psi)	-	0/0	-	-	-	0/0	0/0
Feed Tank Pump (5 to 20 psi)	-	20	-	-	-	20	-
Air Stripper Pressure (psi)	-	13	-	-	-	13	-
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	-	10	-	-	-	10	-
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	21"	21"	21"	21"	21"	20.5"	19"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	60	60	60	60	60	60	55
OFF:	55	55	55	55	55	55	50

Rochester Fire Academy Weekly Log

Date	08/10/2005	08/11/2005	08/12/2005	08/15/2005	08/16/2005	08/17/2005	
Daily Influent Meter Reading (gal)	755,644	758,765	761,171	769,235	773,000	775,322	
Total Influent since 2/22/05 (gal)	873,881	877,002	879,408	887,472	891,237	893,559	
Daily Effluent Meter Reading (gal)	760,260	763,546	766,550	775,198	778,250	781,600	
Total Effluent since 2/22/05 (gal)	880,417	883,703	886,707	895,355	898,407	901,757	
Building Inlet Gauge (gpm)	-	29	36	-	-	-	
Lead Bag Filter Inlet/ Outlet (psi)	-	7/5	5/6	-	-	-	
Lag Bag Filter Inlet/Outlet (psi)	-	0/0	0/0	-	-	-	
Feed Tank Pump (5 to 20 psi)	-	-	20	-	-	-	
Air Stripper Pressure (psi)	-	-	14	-	-	-	
Pump 400 (psi)	-	-	-	-	-	-	
Pump 401 (psi)	-	-	10	-	-	-	
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	19"	18"	18"	18"	18"	18"	
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	
Cleaned/Changed Bag Filter #1		✔					
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling			✔				
Tested Sump Pump Operation		✔	✔				
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	55	55	55	55	55	55	
OFF:	50	50	50	50	50	50	

Rochester Fire Academy Weekly Log

Date	08/18/2005	08/19/2005	08/22/2005	08/23/2005	08/24/2005	08/25/2005
Daily Influent Meter Reading (gal)	777,570	781,450	789,910	792,277	795,991	798,276
Total Influent since 2/22/05 (gal)	895,807	899,687	908,147	910,514	914,228	916,513
Daily Effluent Meter Reading (gal)	783,178	786,884	796,010	799,132	802,325	805,434
Total Effluent since 2/22/05 (gal)	903,335	907,041	916,167	919,289	922,482	925,591
Building Inlet Gauge (gpm)	-	-	-	-	-	-
Lead Bag Filter Inlet/ Outlet (psi)	-	-	-	-	-	-
Lag Bag Filter Inlet/Outlet (psi)	-	-	-	-	-	-
Feed Tank Pump (5 to 20 psi)	-	-	-	-	-	-
Air Stripper Pressure (psi)	-	-	-	-	-	-
Pump 400 (psi)	-	-	-	-	-	-
Pump 401 (psi)	-	-	-	-	-	-
Carbon Drum 300 (inlet/outlet)						
Carbon Drum 301 (inlet/outlet)						
Carbon Drum 302 (inlet/outlet)						
Carbon Drum 303 (inlet/outlet)						
Carbon Drum 304 (inlet/outlet)						
Carbon Drum 305 (inlet/outlet)						
Carbon Drum 306 (inlet/outlet)						
Carbon Drum 307 (inlet/outlet)						
Sequestering Agent Level (inches)	18"	18"	18"	18"	18"	18"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1						
Cleaned/Changed Bag Filter #2						
Cleaned Feed/ Discharge Tanks						
Performed Monthly/Quarterly Sampling						
Tested Sump Pump Operation						
Cleaned Sump and Drain						
Additional Tasks/ Notes:						
ON:	55	55	55	55	55	55
OFF:	50	50	50	50	50	50

Rochester Fire Academy Weekly Log

Date	08/26/2005	08/29/2005	08/30/2005	08/31/2005			
Daily Influent Meter Reading (gal)	800,732	810,406	812,629	818,315			
Total Influent since 2/22/05 (gal)	918,969	928,643	930,866	936,552			
Daily Effluent Meter Reading (gal)	807,921	818,568	819,767	825,089			
Total Effluent since 2/22/05 (gal)	928,078	938,725	939,924	945,246			
Building Inlet Gauge (gpm)	-	-	-	-			
Lead Bag Filter Inlet/ Outlet (psi)	-	-	-	29			
Lag Bag Filter Inlet/Outlet (psi)	-	-	-	7/5			
Feed Tank Pump (5 to 20 psi)	-	-	-	0/0			
Air Stripper Pressure (psi)	-	-	-	14			
Pump 400 (psi)	-	-	-	-			
Pump 401 (psi)	-	-	-	10			
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	18"	18"	18"	18"			
Visual Inspection NDA	✔	✔	✔	✔			
Visual Inspection TGA	✔	✔	✔	✔			
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	55	55	55	55			
OFF:	50	50	50	50			

Rochester Fire Academy Weekly Log

Date	09/02/2005	09/06/2005	09/07/2005	09/08/2005	09/09/2005	09/12/2005	09/13/2005
Daily Influent Meter Reading (gal)	830,855	845,456	850,405	850,405	857,456	867,228	869,798
Total Influent since 2/22/05 (gal)	949,092	963,693	968,642	968,642	975,693	985,465	988,035
Daily Effluent Meter Reading (gal)	838,370	854,398	857,850	859,212	866,753	876,782	878,144
Total Effluent since 2/22/05 (gal)	958,527	974,555	978,007	979,369	986,910	996,939	998,301
Building Inlet Gauge (gpm)	-	-	-	37	-	-	37
Lead Bag Filter Inlet/ Outlet (psi)	-	-	-	5/5	-	-	5/6
Lag Bag Filter Inlet/Outlet (psi)	-	-	-	0/0	-	-	0/0
Feed Tank Pump (5 to 20 psi)	-	-	-	-	-	-	
Air Stripper Pressure (psi)	-	-	13.5	13.5	-	-	13
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	-	-	-	-	-	-	-
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	5"	5" add (32")	27"	20"	15" add (33")	33"	27"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	55	55	55	55	55	55	55
OFF:	50	50	50	50	50	50	50

Rochester Fire Academy Weekly Log

Date	09/14/2005	09/15/2005	09/16/2005	09/19/2005	09/20/2005	09/21/2005	09/22/2005
Daily Influent Meter Reading (gal)	873,849	976,420	879,731	914,860	919,057	923,420	923,420
Total Influent since 2/22/05 (gal)	992,086	1,094,657	997,968	1,033,097	1,037,294	1,041,657	1,041,657
Daily Effluent Meter Reading (gal)	883,325	884,799	888,105	923,026	928,279	933,121	933,121
Total Effluent since 2/22/05 (gal)	1,003,482	1,004,956	1,008,262	1,043,183	1,048,436	1,053,278	1,053,278
Building Inlet Gauge (gpm)	-	-	-	-	-	-	37
Lead Bag Filter Inlet/ Outlet (psi)	-	-	-	-	-	-	4/5
Lag Bag Filter Inlet/Outlet (psi)	-	-	-	-	-	-	0/0
Feed Tank Pump (5 to 20 psi)	-	-	-	-	-	-	5
Air Stripper Pressure (psi)	-	-	-	13.5	-	-	13.0
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	-	-	-	-	-	-	-
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	22"	20"	17"	15"	14.5"	13"	11"
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							✔
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	55	55	55	55	55	55	55
OFF:	50	50	50	50	50	50	50

Rochester Fire Academy Weekly Log

Date	09/23/2005	09/26/2005	09/27/2005	09/29/2005	09/30/2005		
Daily Influent Meter Reading (gal)	931,570	942,171	951,798	963,660	968,627		
Total Influent since 2/22/05 (gal)	1,049,807	1,060,408	1,070,035	1,081,897	1,086,864		
Daily Effluent Meter Reading (gal)	941,768	952,422	960,743	972,872	978,000		
Total Effluent since 2/22/05 (gal)	1,061,925	1,072,579	1,080,900	1,093,029	1,098,157		
Building Inlet Gauge (gpm)	-	-	-	25	37		
Lead Bag Filter Inlet/ Outlet (psi)	-	-	-	3/4	5/5		
Lag Bag Filter Inlet/Outlet (psi)	-	-	-	0/0	0/0		
Feed Tank Pump (5 to 20 psi)	-	-	-	5	4		
Air Stripper Pressure (psi)	-	-	-	13.0	13.0		
Pump 400 (psi)	-	-	-	-	-		
Pump 401 (psi)	-	-	-	-	-		
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	10" add (33.5')	24"	22.5"	16"	11" add (34")		
Visual Inspection NDA	✔	✔	✔	✔	✔		
Visual Inspection TGA	✔	✔	✔	✔	✔		
Cleaned/Changed Bag Filter #1							
Cleaned/Changed Bag Filter #2							
Cleaned Feed/ Discharge Tanks							
Performed Monthly/ Quarterly Sampling							
Tested Sump Pump Operation							
Cleaned Sump and Drain							
Additional Tasks/ Notes:							
ON:	55	55	55	55	55		
OFF:	50	50	50	50	50		

Rochester Fire Academy Weekly Log

Date	10/03/2005	10/04/2005	10/05/2005	10/06/2005	10/07/2005	10/11/2005	10/12/2005
Daily Influent Meter Reading (gal)	981,741	986,039	989,509	993,570	997,057	1,011,920	1,015,080
Total Influent since 2/22/05 (gal)	1,099,978	1,104,276	1,107,746	1,111,807	1,115,294	1,130,157	1,133,317
Daily Effluent Meter Reading (gal)	992,238	995,736	999,186	1,004,066	1,006,185	1,021,589	1,025,091
Total Effluent since 2/22/05 (gal)	1,112,395	1,115,893	1,119,343	1,124,223	1,126,342	1,141,746	1,145,248
Building Inlet Gauge (gpm)	-	26e	37w	-	-	37w	37w
Lead Bag Filter Inlet/ Outlet (psi)	-	4/5	5/6	-	-	5/6	5/6
Lag Bag Filter Inlet/Outlet (psi)	-	0/0	0/0	-	-	1/0	0/0
Feed Tank Pump (5 to 20 psi)	-	20	20	-	-	20	20
Air Stripper Pressure (psi)	-	13	13	-	-	13	14
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	-	-	-	-	-	-	-
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	18	14	10	8	5 add	8	3 add
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1	-	-	-	-	-	-	-
Cleaned/Changed Bag Filter #2	-	-	-	-	-	-	-
Cleaned Feed/ Discharge Tanks	-	-	-	-	-	-	-
Performed Monthly/ Quarterly Sampling	-	-	-	-	-	-	✔
Tested Sump Pump Operation	-	-	-	-	-	-	-
Cleaned Sump and Drain	-	-	-	-	-	-	-
Additional Tasks/ Notes:							
ON:	55	55	55	55	55	55	55
OFF:	50	50	50	50	50	50	50
10/12/05 - Changed sequestering agent stroke length down from 85 to 75, % set at 80							

Rochester Fire Academy Weekly Log

Date	10/13/2005	10/14/2005	10/17/2005	10/18/2005	10/19/2005	10/20/2005	10/21/2005
Daily Influent Meter Reading (gal)	1,019,057	1,023,333	1,033,750	1,037,869	1,040,938	1,044,117	1,047,965
Total Influent since 2/22/05 (gal)	1,137,294	1,141,570	1,151,987	1,156,106	1,159,175	1,162,354	1,166,202
Daily Effluent Meter Reading (gal)	1,029,695	1,033,080	1,044,757	1,048,387	1,051,472	1,054,712	1,059,022
Total Effluent since 2/22/05 (gal)	1,149,852	1,153,237	1,164,914	1,168,544	1,171,629	1,174,869	1,179,179
Building Inlet Gauge (gpm)	-	-	-	39w	-	25e	-
Lead Bag Filter Inlet/ Outlet (psi)	-	-	-	3/4	-	3/4	-
Lag Bag Filter Inlet/Outlet (psi)	-	-	-	0/0	-	0/0	-
Feed Tank Pump (5 to 20 psi)	-	-	-	20	-	20	-
Air Stripper Pressure (psi)	-	-	-	14.0	-	13	-
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	-	-	-	-	-	-	-
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	28	22	8.5	4 add	29	23.5	18
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1	-	-	-	-	-	-	-
Cleaned/Changed Bag Filter #2	-	-	-	-	-	-	-
Cleaned Feed/ Discharge Tanks	-	-	-	-	-	-	-
Performed Monthly/ Quarterly Sampling	-	-	-	-	-	-	-
Tested Sump Pump Operation	-	-	-	-	-	-	-
Cleaned Sump and Drain	-	-	-	-	-	-	-
Additional Tasks/ Notes:							
ON:	55	55	55	55	55	55	55
OFF:	50	50	50	50	50	50	50
10/13/05 - changed sequestering agent stroke dial down from 80 to 75							

Rochester Fire Academy Weekly Log

Date	10/24/2005	10/25/2005	10/26/2005	10/27/2005	10/28/2005	10/31/2005
Daily Influent Meter Reading (gal)	1,064,116	1,069,544	1,103,731	1,126,864	1,134,814	1,155,370
Total Influent since 2/22/05 (gal)	1,182,353	1,187,781	1,221,968	1,245,101	1,253,051	1,273,607
Daily Effluent Meter Reading (gal)	1,075,061	1,079,965	1,113,796	1,138,054	1,146,060	1,166,513
Total Effluent since 2/22/05 (gal)	1,195,218	1,200,122	1,233,953	1,258,211	1,266,217	1,286,670
Building Inlet Gauge (gpm)	25e	24e	36w	36w	-	37w
Lead Bag Filter Inlet/ Outlet (psi)	3/3	3/4	5/6	5/6	-	5/5
Lag Bag Filter Inlet/Outlet (psi)	0/0	0/0	0/0	0/0	-	0/0
Feed Tank Pump (5 to 20 psi)	20	20	20	20	-	20
Air Stripper Pressure (psi)	14	14	14	14	-	14
Pump 400 (psi)	-	-	-	-	-	
Pump 401 (psi)	-	-	-	-	-	
Carbon Drum 300 (inlet/outlet)						
Carbon Drum 301 (inlet/outlet)						
Carbon Drum 302 (inlet/outlet)						
Carbon Drum 303 (inlet/outlet)						
Carbon Drum 304 (inlet/outlet)						
Carbon Drum 305 (inlet/outlet)						
Carbon Drum 306 (inlet/outlet)						
Carbon Drum 307 (inlet/outlet)						
Sequestering Agent Level (inches)	5 add	30.5	26	20	15 add	19
Visual Inspection NDA	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1	-	-	-	-	-	-
Cleaned/Changed Bag Filter #2	-	-	-	-	-	-
Cleaned Feed/ Discharge Tanks	-	-	-	-	-	-
Performed Monthly/ Quarterly Sampling	-	-	-	-	-	-
Tested Sump Pump Operation	-	-	-	-	-	-
Cleaned Sump and Drain	-	-	-	-	-	-
Additional Tasks/ Notes:						
ON:	55	55	55	55	55	55
OFF:	50	50	50	50	50	50
10/25/05 - West Security on site to check auto dialer and fire and intrusion alarm settings						
10/26/05 - Alarm at 4:10 AM, power out, checked site - system OK, short duration						

Rochester Fire Academy Weekly Log

Date	11/01/2005	11/02/2005	11/03/2005	11/07/2005	11/08/2005	11/09/2005	11/10/2005
Daily Influent Meter Reading (gal)	1,160,412	1,164,953	1,169,280	1,187,468	1,191,542	1,195,599	1,210,735
Total Influent since 2/22/05 (gal)	1,278,649	1,283,190	1,287,517	1,305,705	1,309,779	1,313,836	1,328,972
Daily Effluent Meter Reading (gal)	1,170,341	1,175,236	1,180,973	1,198,386	1,201,586	1,207,087	1,220,344
Total Effluent since 2/22/05 (gal)	1,290,498	1,295,393	1,301,130	1,318,543	1,321,743	1,327,244	1,340,501
Building Inlet Gauge (gpm)	24	-	36	36	36	38	-
Lead Bag Filter Inlet/ Outlet (psi)	2/3	-	5/6	5/6	5/6	5/6	-
Lag Bag Filter Inlet/Outlet (psi)	0/0	-	0/0	0/0	0/0	0/0	-
Feed Tank Pump (5 to 20 psi)	20	-	20	20	20	20	-
Air Stripper Pressure (psi)	14	-	14	14	14	14	-
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	-	-	-	-	-	-	-
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	16	10	6 add	14	9.5	4 add	29
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1	-	-	-	-	-	-	-
Cleaned/Changed Bag Filter #2	-	-	-	-	-	-	-
Cleaned Feed/ Discharge Tanks	-	-	-	-	-	-	-
Performed Monthly/ Quarterly Sampling	-	-	- *	-	-	-	-
Tested Sump Pump Operation	-	-	-	-	-	-	-
Cleaned Sump and Drain	-	-	-	-	-	-	-
Additional Tasks/ Notes:							
ON:	55	55	55	55	55	55	55
OFF:	50	50	50	50	50	50	50

** 11/3/05 - Sampled groundwater monitoring wells*

Rochester Fire Academy Weekly Log

Date	11/14/2005	11/15/2005	11/16/2005	11/17/2005	11/18/2005	11/21/2005	11/22/2005
Daily Influent Meter Reading (gal)	1,235,440	1,239,000	1,247,767	1,258,218	1,263,901	1,281,844	1,286,054
Total Influent since 2/22/05 (gal)	1,353,677	1,357,237	1,366,004	1,376,455	1,382,138	1,400,081	1,404,291
Daily Effluent Meter Reading (gal)	1,246,146	1,249,771	1,259,589	1,268,792	1,274,738	1,292,489	1,297,410
Total Effluent since 2/22/05 (gal)	1,366,303	1,369,928	1,379,746	1,388,949	1,394,895	1,412,646	1,417,567
Building Inlet Gauge (gpm)	-	23	-		37	22	37
Lead Bag Filter Inlet/ Outlet (psi)	-	3/4	-		5/6	3/4	5/6
Lag Bag Filter Inlet/Outlet (psi)	-	0/0	-		0/0	0/0	0/0
Feed Tank Pump (5 to 20 psi)	-	20	-		20	20	20
Air Stripper Pressure (psi)	-	14	-		14	14	14
Pump 400 (psi)	-	-	-	-	-	-	-
Pump 401 (psi)	-	-	-	-	-	-	-
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	10	7	3 add	34	29	14	10
Visual Inspection NDA	✔	✔	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1	-	-	-	-	-	-	-
Cleaned/Changed Bag Filter #2	-	-	-	-	-	-	-
Cleaned Feed/ Discharge Tanks	-	-	-	-	-	-	-
Performed Monthly/ ~~Quarterly~~ Sampling	-	-	-	-	-	-	✔
Tested Sump Pump Operation	-	-	-	-	-	-	-
Cleaned Sump and Drain	-	-	-	-	-	-	-
Additional Tasks/ Notes:							
ON:	55	55	55	55	55	55	55
OFF:	50	50	50	50	50	50	50
11/15/05 - Pgrogrammer worked on auto dialer system							

Rochester Fire Academy Weekly Log

Date	11/23/2005	11/28/2005	11/29/2005	11/30/2005			
Daily Influent Meter Reading (gal)	1,290,442	1,290,589	1,310,890	1,330,986			
Total Influent since 2/22/05 (gal)	1,408,679	1,408,826	1,429,127	1,449,223			
Daily Effluent Meter Reading (gal)	1,301,058	1,301,058	1,321,936	1,343,000			
Total Effluent since 2/22/05 (gal)	1,421,215	1,421,215	1,442,093	1,463,157			
Building Inlet Gauge (gpm)	35	36	20	-			
Lead Bag Filter Inlet/ Outlet (psi)	7/6	7/6	3/4	-			
Lag Bag Filter Inlet/Outlet (psi)	2/0	2/0	0/0	-			
Feed Tank Pump (5 to 20 psi)	-	20	20	-			
Air Stripper Pressure (psi)	-	14	14	-			
Pump 400 (psi)	-	-	-	-			
Pump 401 (psi)	-	-	-	-			
Carbon Drum 300 (inlet/outlet)							
Carbon Drum 301 (inlet/outlet)							
Carbon Drum 302 (inlet/outlet)							
Carbon Drum 303 (inlet/outlet)							
Carbon Drum 304 (inlet/outlet)							
Carbon Drum 305 (inlet/outlet)							
Carbon Drum 306 (inlet/outlet)							
Carbon Drum 307 (inlet/outlet)							
Sequestering Agent Level (inches)	6 add	35	29	24			
Visual Inspection NDA	✔	✔	✔	✔			
Visual Inspection TGA	✔	✔	✔	✔			
Cleaned/Changed Bag Filter #1	-	-	-	-			
Cleaned/Changed Bag Filter #2	-	-	-	-			
Cleaned Feed/ Discharge Tanks	-	-	-	-			
Performed Monthly/ Quarterly Sampling	-	-	-	-			
Tested Sump Pump Operation	-	-	-	-			
Cleaned Sump and Drain	-	-	-	-			
Additional Tasks/ Notes:							
ON:	55	55	55	55			
OFF:	50	50	50	50			
11/28/05 - System was off over Thanksgiving weekend							

Rochester Fire Academy Weekly Log

Date	12/01/2005	12/02/2005	12/27/2005	12/28/2005	12/29/2005
Daily Influent Meter Reading (gal)	1,341,613	1,350,480	1,350,614	1,358,041	1,368,881
Total Influent since 2/22/05 (gal)	1,459,850	1,468,717	1,468,851	1,476,278	1,487,118
Daily Effluent Meter Reading (gal)	1,353,458	1,361,235	1,361,235	1,368,713	1,378,574
Total Effluent since 2/22/05 (gal)	1,473,615	1,481,392	1,481,392	1,488,870	1,498,731
Building Inlet Gauge (gpm)	37	21	37	37	37
Lead Bag Filter Inlet/ Outlet (psi)	7/8	3/4	9/9	8/7	8/7
Lag Bag Filter Inlet/Outlet (psi)	2/0	0/0	2/0	2/0	0/0
Feed Tank Pump (5 to 20 psi)	-	-	20	20	20
Air Stripper Pressure (psi)	-	-	14	14	14
Pump 400 (psi)	-	-	-	-	-
Pump 401 (psi)	-	-	-	-	-
Carbon Drum 300 (inlet/outlet)					
Carbon Drum 301 (inlet/outlet)					
Carbon Drum 302 (inlet/outlet)					
Carbon Drum 303 (inlet/outlet)					
Carbon Drum 304 (inlet/outlet)					
Carbon Drum 305 (inlet/outlet)					
Carbon Drum 306 (inlet/outlet)					
Carbon Drum 307 (inlet/outlet)					
Sequestering Agent Level (inches)	20	20	16	11	6 add
Visual Inspection NDA	✔	✔	✔	✔	✔
Visual Inspection TGA	✔	✔	✔	✔	✔
Cleaned/Changed Bag Filter #1	-	-	-	-	-
Cleaned/Changed Bag Filter #2	-	-	-	-	-
Cleaned Feed/ Discharge Tanks	-	-	-	-	-
Performed Monthly/ Quarterly Sampling	-	-	-	-	✔
Tested Sump Pump Operation	-	-	-	-	-
Cleaned Sump and Drain	-	-	-	-	-
Additional Tasks/ Notes:					
ON:	55	55	215	210	205
OFF:	50	50	210	205	200
12/3 - 12/27 system shut down for annual maintenance					

Appendix B
Analytical Results

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12185
Client Job Number:	N/A		
Field Location:	MW 6I	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/09/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26368.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12186
Client Job Number:	N/A		
Field Location:	MW 7I	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/09/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	117
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	28.0	Trichloroethene	14.6
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26369.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12187
Client Job Number:	N/A		
Field Location:	MW 7D	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/09/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26370.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12188
Client Job Number:	N/A		
Field Location:	MW 7S	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/14/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 20.0	trans-1,2-Dichloroethene	ND< 20.0
Bromomethane	ND< 20.0	1,2-Dichloropropane	ND< 20.0
Bromoform	ND< 20.0	cis-1,3-Dichloropropene	ND< 20.0
Carbon Tetrachloride	ND< 20.0	trans-1,3-Dichloropropene	ND< 20.0
Chloroethane	ND< 20.0	Methylene chloride	ND< 50.0
Chloromethane	ND< 20.0	1,1,2,2-Tetrachloroethane	ND< 20.0
2-Chloroethyl vinyl Ether	ND< 20.0	Tetrachloroethene	ND< 20.0
Chloroform	ND< 20.0	1,1,1-Trichloroethane	42.9
Dibromochloromethane	ND< 20.0	1,1,2-Trichloroethane	ND< 20.0
1,1-Dichloroethane	511	Trichloroethene	ND< 20.0
1,2-Dichloroethane	ND< 20.0	Trichlorofluoromethane	ND< 20.0
1,1-Dichloroethene	ND< 20.0	Vinyl chloride	251

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 7.00	1,2-Dichlorobenzene	ND< 20.0
Chlorobenzene	ND< 20.0	1,3-Dichlorobenzene	ND< 20.0
Ethylbenzene	ND< 20.0	1,4-Dichlorobenzene	ND< 20.0
Toluene	ND< 20.0	Methyl tert-butyl Ether	ND< 20.0

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26439.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12189
Client Job Number:	N/A		
Field Location:	MW 8I	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/09/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	2.14	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	7.02

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26372.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12190
Client Job Number:	N/A		
Field Location:	MW 9D	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/09/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26373.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12191
Client Job Number:	N/A		
Field Location:	MW 10I	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/09/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26374.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12192
Client Job Number:	N/A		
Field Location:	MW 10S	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/09/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26375.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12193
Client Job Number:	N/A		
Field Location:	MW 11I	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/10/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	12.1

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26376.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	04-3646
		Lab Sample Number:	12194
Client Job Number:	N/A		
Field Location:	MW 15S	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	12/07/2004
Sample Type:	Water	**Date Analyzed:**	12/10/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	3.98	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	22.2

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	3.37	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: 26377.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PAR[illegible]DIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

[illegible]AIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY: City of Rochester - DEQ		COMPANY:		LAB PROJECT #: [illegible]	CLIENT PROJECT #:
ADDRESS: 30 Church St. Rm 300B		ADDRESS:		TURNAROUND TIME: (WORKING DAYS)	
CITY: Rochester STATE: NY ZIP: 14614		CITY: STATE: ZIP:			
PHONE: 428-1812	FAX: 428-6010	PHONE:	FAX:	STD	OTHER
ATTN: Jane Forbes		ATTN:		☐ 1 ☐ 2 ☐ 3 ☒ 5	☐

PROJECT NAME/SITE NAME: RTA Semi Annual Sampling

COMMENTS: DEQ-98045

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	[illegible]										REMARKS	PARADIGM LAB SAMPLE NUMBER
1		[illegible]		X	[illegible] 6I	H20	2	X											[illegible]
2		[illegible]		X	MW 7I	H20	2	X											[illegible]
3		[illegible]		X	MW 7D	H20	2	X											[illegible]
4		[illegible]45		X	MW 7S	H20	2	X											[illegible]
5		11:[illegible]		X	MW 8I	H20	2	X											[illegible]
6		[illegible]		X	MW 9D	H20	2	X											[illegible]
7		12:15		X	MW 10I	H20	2	X											[illegible]
8		12:30		X	MW 10S	H20	2	X											[illegible]
9		1:00		X	MW 11I	H20	2	X											[illegible]
10		1:45		X	MW 15S	H20	2	X											[illegible]

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type: *Comments:*	Y ☒	N ☐
Preservation: *Comments:*	Y ☒	N ☐
Holding Time: *Comments:*	Y ☒	N ☐
Temperature: 15 *Comments:*	Y ☐	N ☒

Chintana Phetphanh	
Sampled By	**Date/Time**
Chintana Phetphanh	12/7/2004 3:20pm
Relinquished By	**Date/Time**
Jane J. Carlora	12/7/04 1520
Received By	**Date/Time**
Kelly Crandall	12/7/04 437
Received @ Lab By	**Date/Time**

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

RFA

Client:	City of Rochester - DEQ	**Lab Project No.:**	05-0714
Client Job Site:	RFA - Quarterly Sampling	**Sample Type:**	Water
		Method:	EPA 150.1
Client Job No.:	DEQ - 98045		
		Date Sampled:	02/28/2005
		Time Sampled:	13:14
		Date Received:	02/28/2005
		Date Analyzed:	02/28/2005
		Time Analyzed:	15:40
		Location :	Lab

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
3279	N/A	Influent	6.93
3280	N/A	Effluent	8.22

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technica Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.

File ID:050714.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester New York 14608 (716) 647-2530 FAX (716) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Client Job Site: RFA-Quarterly Sampling

Client Job No.: DEQ-98045

Field Location: Influent

Lab Project No.: 05-0714
Lab Sample No.: 3279

Sample Type: Water

Date Sampled: 2/28/2005
Date Received: 2/28/2005

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Alkalinity, Total (as CaCO3)	3/2/2005	EPA 310.1	335

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

File ID: VarParCOR05-0714.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: RFA - Quarterly Sampling

Client Job No.: DEQ - 98045

Lab Project No.: 05-0714

Sample Type: Water
Method: EPA 200.7
Date Sampled: 02/28/2005
Date Received: 02/28/2005
Date Analyzed: 03/02/2005

Laboratory Report for Total Hardness

Lab Sample No.:	Field ID	Field Location	Total Hardness (mg/L)
3279	N/A	Influent	411

ELAP ID No.:10958

Comments: The matrix spike recovered 82.5% for Magnesium. The sample concentration for Calcium was greater than 10 times the spike concentration resulting in an unusable matrix spike.

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: RFA - Quarterly Sampling

Client Job No.: DEQ - 98045

Field Location: Influent
Field ID No.: N/A

Lab Project No.: 05-0714
Lab Sample No.: 3279

Sample Type: Water

Date Sampled: 02/28/2005
Date Received: 02/28/2005

Laboratory Report for Metals Analysis in Water

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	03/02/2005	EPA 200.7	<0.005
Cadmium	03/02/2005	EPA 200.7	<0.005
Chromium	03/02/2005	EPA 200.7	<0.010
Copper	03/02/2005	EPA 200.7	<0.010
Iron	03/02/2005	EPA 200.7	3.90
Lead	03/02/2005	EPA 200.7	<0.005
Maganese	03/02/2005	EPA 245.1	0.333
Nickel	03/02/2005	EPA 200.7	<0.040
Selenium	03/02/2005	EPA 200.7	<0.005
Zinc	03/02/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA-Quarterly Sampling	**Lab Project Number:**	05-0714
		Lab Sample Number:	3279
Client Job Number:	DEQ-98045		
Field Location:	Influent	**Date Sampled:**	02/28/2005
Field ID Number:	N/A	**Date Received:**	02/28/2005
Sample Type:	Water	**Date Analyzed:**	03/02/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.500
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling DEQ	**Lab Project Number:**	05-0714
		Lab Sample Number:	3279
Client Job Number:	90845		
Field Location:	Influent	**Date Sampled:**	02/28/2005
Field ID Number:	N/A	**Date Received:**	02/28/2005
Sample Type:	Water	**Date Analyzed:**	03/02/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	**Lab Project Number:**	05-0714
		Lab Sample Number:	3279
Client Job Number:	DEQ-98045		
Field Location:	Influent	**Date Sampled:**	02/28/2005
Field ID Number:	N/A	**Date Received:**	02/28/2005
Sample Type:	Water	**Date Analyzed:**	03/01/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 1,000	trans-1,2-Dichloroethene	ND< 1,000
Bromomethane	ND< 1,000	1,2-Dichloropropane	ND< 1,000
Bromoform	ND< 1,000	cis-1,3-Dichloropropene	ND< 1,000
Carbon Tetrachloride	ND< 1,000	trans-1,3-Dichloropropene	ND< 1,000
Chloroethane	ND< 1,000	Methylene chloride	ND< 2,500
Chloromethane	ND< 1,000	1,1,2,2-Tetrachloroethane	ND< 1,000
2-Chloroethyl vinyl Ether	ND< 1,000	Tetrachloroethene	ND< 1,000
Chloroform	ND< 1,000	1,1,1-Trichloroethane	10,200
Dibromochloromethane	ND< 1,000	1,1,2-Trichloroethane	ND< 1,000
1,1-Dichloroethane	ND< 1,000	Trichloroethene	ND< 1,000
1,2-Dichloroethane	ND< 1,000	Trichlorofluoromethane	ND< 1,000
1,1-Dichloroethene	ND< 1,000	Vinyl chloride	ND< 1,000

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 350	1,2-Dichlorobenzene	ND< 1,000
Chlorobenzene	ND< 1,000	1,3-Dichlorobenzene	ND< 1,000
Ethylbenzene	ND< 1,000	1,4-Dichlorobenzene	ND< 1,000
Toluene	ND< 1,000		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 27621.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (716) 647-2530 FAX (716) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Client Job Site: RFA-Quarterly Sampling

Client Job No.: DEQ-98045

Field Location: Effluent

Lab Project No.: 05-0714
Lab Sample No.: 3280

Sample Type: Water

Date Sampled: 2/28/2005
Date Received: 2/28/2005

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
T. Phosphorus	3/2/2005	EPA 365.2	0.28

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

File ID: VarParCOR05-0714-2.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ
Client Job Site: RFA - Quarterly Sampling
Client Job No.: DEQ - 98045
Field Location: Effluent
Field ID No.: N/A

Lab Project No.: 05-0714
Lab Sample No.: 3280
Sample Type: Water
Date Sampled: 02/28/2005
Date Received: 02/28/2005

Laboratory Report for Metals Analysis in Water

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	03/02/2005	EPA 200.7	0.007
Cadmium	03/02/2005	EPA 200.7	<0.005
Chromium	03/02/2005	EPA 200.7	<0.010
Copper	03/02/2005	EPA 200.7	<0.010
Iron	03/02/2005	EPA 200.7	2.95
Lead	03/02/2005	EPA 200.7	<0.005
Maganese	03/02/2005	EPA 245.1	0.398
Nickel	03/02/2005	EPA 200.7	<0.040
Selenium	03/02/2005	EPA 200.7	<0.005
Zinc	03/02/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogestegar, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA-Quarterly Sampling	**Lab Project Number:**	05-0714
		Lab Sample Number:	3280
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	02/28/2005
Field ID Number:	N/A	**Date Received:**	02/28/2005
Sample Type:	Water	**Date Analyzed:**	03/02/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.500
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling DEQ	**Lab Project Number:**	05-0714
		Lab Sample Number:	3280
Client Job Number:	90845		
Field Location:	Effluent	**Date Sampled:**	02/28/2005
Field ID Number:	N/A	**Date Received:**	02/28/2005
Sample Type:	Water	**Date Analyzed:**	03/02/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling DEQ	**Lab Project Number:**	05-0714
		Lab Sample Number:	3080
Client Job Number:	98045		
Field Location:	Effluent	**Date Sampled:**	02/28/2005
Field ID Number:	N/A	**Date Received:**	02/28/2005
Sample Type:	Water	**Date Analyzed:**	03/03/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 23549.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling DEQ	**Lab Project Number:**	05-0714
		Lab Sample Number:	3080
Client Job Number:	98045		
Field Location:	Effluent	**Date Sampled:**	02/28/2005
Field ID Number:	N/A	**Date Received:**	02/28/2005
Sample Type:	Water	**Date Analyzed:**	03/03/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 23544.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	**Lab Project Number:**	05-0714
		Lab Sample Number:	3280
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	02/28/2005
Field ID Number:	N/A	**Date Received:**	02/28/2005
Sample Type:	Water	**Date Analyzed:**	03/01/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 2.00

Ketones	Results in ug / L
Acetone	128
2-Butanone	98.6
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	22.0

Aromatics	Results in ug / L
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

ELAP Number 10958 Method: EPA 8015 Modified Data File: 27622.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Quarterly Sampling	**Lab Project Number:**	05-0714
		Lab Sample Number:	3280
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	02/28/2005
Field ID Number:	N/A	**Date Received:**	02/28/2005
Sample Type:	Water	**Date Analyzed:**	03/01/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	76.4
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	7.07	Trichloroethene	3.00
1,2-Dichloroethane	3.78	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	2.38		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 27622.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY: City of Rochester - DEQ		COMPANY:		LAB PROJECT #: 05-0114	CLIENT PROJECT #:
ADDRESS: 30 Church St. Rm 300B		ADDRESS:		TURNAROUND TIME: (WORKING DAYS)	
CITY: Rochester STATE: NY ZIP: 14614		CITY: STATE: ZIP:		1 ☐ 2 ☐ 3 ☐ STD 5 ☒	OTHER ☐
PHONE: 428 7892	FAX: 428 6010	PHONE:	FAX:		
ATTN: Jane Forbes		ATTN:			

PROJECT NAME/SITE NAME: RFA - Quarterly Sampling DA-7845

COMMENTS: metals – As, Fe, Cd, Cr, Cu, Pb, Mn, Ni, Se, Zn

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	601/602	Oil+Grease/PCBs	Metals	Alkalinity	Hardness	pH	8015	625	Phosphorus		REMARKS	PARADIGM LAB SAMPLE NUMBER
1	02/28/05			✓	Influent	H2O	6	X	X	X	X	X	X						[illegible]
2	02/28/05			✓	Effluent	H2O	10	X	X	X			X	X	X	X			[illegible]
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type: Comments:	Y ☒	N ☐
Preservation: Comments: Was metals [illegible]	Y ☐	N ☒
Holding Time: Comments: pH out of HT	Y ☐	N ☒
Temperature: 10 Comments:	Y ☐	N ☒

Sampled By	JANE MH FORBES	Date/Time 2/28/05 1314
Relinquished By	Jm Forbes	Date/Time 2/28/05 1427
Received By	[signature]	Date/Time 2/28/05 1427
Received @ Lab By	[signature] Crandall	Date/Time 2/28/05 1518

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

pH Analysis Report

Client: City of Rochester

Client Job Site:	RFA Monthly Sampl..	**Lab Project Number:**	05-1057
Client Job Number:	DEQ - 98045	**Date Sampled:**	3/31/05
		Time Sampled:	12:00 PM
		Date Received:	3/31/05
Sample Type:	Water	**Date Analyzed:**	3/31/05
Location:	Laboratory	**Time Analyzed:**	4:00 PM

Lab Sample Number	Field Number	Field Location	Result (pH)
4514	N/A	GWTS Effluent	8.02

ELAP Number 10958 Method: EPA 150.1

Comments:

Signature: Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 051057ph.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Client Job Site: RFA - Monthly Sample, DEQ-98045

Client Job No.: N/A

Field Location: GWTS Effluent

Lab Project No.: 05-1057
Lab Sample No.: 4514

Sample Type: Water

Date Sampled: 03/31/2005
Date Received: 03/31/2005

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Total Phosphorus	4/7/05	EPA 365.2	0.15

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____

Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhos05-1057.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy
Monthly Sampling

Client Job No.: DEQ - 98045

Field Location: GWTS Effluent
Field ID No.: N/A

Lab Project No.: 05-1057
Lab Sample No.: 4514

Sample Type: Water

Date Sampled: 03/31/2005
Date Received: 03/31/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	04/05/2005	EPA 200.7	0.007
Cadmium	04/05/2005	EPA 200.7	<0.005
Chromium	04/05/2005	EPA 200.7	<0.010
Copper	04/05/2005	EPA 200.7	<0.010
Iron	04/05/2005	EPA 200.7	2.68
Lead	04/05/2005	EPA 200.7	<0.005
Manganese	04/05/2005	EPA 200.7	0.199
Nickel	04/05/2005	EPA 200.7	<0.040
Selenium	04/05/2005	EPA 200.7	<0.005
Zinc	04/05/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requiremtns upon receipt.

File ID:051057.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampl.	**Lab Project Number:**	05-1057
		Lab Sample Number:	4514
Client Job Number:	DEQ - 98045		
Field Location:	GWTS Effluent	**Date Sampled:**	3/31/05
Field ID Number:	N/A	**Date Received:**	3/31/05
Sample Type:	Water	**Date Analyzed:**	4/5/05

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester
Client Job Site: RFA - Monthly Sample, DEQ-98045
Client Job No: N/A
Field Location: GWTS Effluent

Lab Project No: 05-1057
Lab Sample No: 4514
Sample Type: Water
Date Sampled: 03/31/2005
Date Received: 03/31/2005
Date Analyzed: 04/01/2005

Parameter	Result ug/l	Reporting Limit ug/l
Aldrin	ND	<0.050
alpha-BHC	ND	<0.050
beta-BHC	ND	<0.050
gamma-BHC	ND	<0.050
delta-BHC	ND	<0.050
Chlordane	ND	<0.050
4,4'-DDD	ND	<0.099
4,4'-DDE	ND	<0.099
4,4'-DDT	ND	<0.099
Dieldrin	ND	<0.099
Endosulfan I	ND	<0.050
Endosulfan II	ND	<0.099
Endosulfan Sulfate	ND	<0.099
Endrin	ND	<0.099
Endrin Aldehyde	ND	<0.099
Heptachlor	ND	<0.050
Heptachlor Epoxide	ND	<0.050
Toxaphene	ND	<0.990
Methoxychlor	ND	<0.495

Analytical Method: EPA 608 ELAP ID. No.:10709

Comments: ND denotes Not Detected

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: Pesticides05-1057.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampl.	**Lab Project Number:**	05-1057
		Lab Sample Number:	4514
Client Job Number:	DEQ - 98045		
Field Location:	GWTS Effluent	**Date Sampled:**	03/31/2005
Field ID Number:	N/A	**Date Received:**	03/31/2005
Sample Type:	Water	**Date Analyzed:**	04/04/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 23794.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampl	**Lab Project Number:**	05-1057
		Lab Sample Number:	4514
Client Job Number:	DEQ - 98045		
Field Location:	GWTS Effluent	**Date Sampled:**	03/31/2005
Field ID Number:	N/A	**Date Received:**	03/31/2005
Sample Type:	Water	**Date Analyzed:**	04/04/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 23793.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampl.	**Lab Project Number:**	05-1057
		Lab Sample Number:	4514
Client Job Number:	DEQ-98045		
Field Location:	GWTS Effluent	**Date Sampled:**	03/31/2005
Field ID Number:	N/A	**Date Received:**	03/31/2005
Sample Type:	Water	**Date Analyzed:**	04/04/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	147
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	19.5	Trichloroethene	25.6
1,2-Dichloroethane	6.40	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	4.26		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 28132.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampl.	**Lab Project Number:**	05-1057
		Lab Sample Number:	4514
Client Job Number:	DEQ-98048		
Field Location:	GWTS Effluent	**Date Sampled:**	03/31/2005
Field ID Number:	N/A	**Date Received:**	03/31/2005
Sample Type:	Water	**Date Analyzed:**	04/04/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 2.00

Ketones	Results in ug / L
Acetone	81.8
2-Butanone	65.8
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	14.3

Aromatics	Results in ug / L
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

ELAP Number 10958 Method: EPA 8015 Modified Data File: 28132.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
COMPANY: City of Rochester DEQ	COMPANY:	LAB PROJECT #: 05-1057
ADDRESS: 30 Church St. Rm 300B	ADDRESS:	CLIENT PROJECT #:
CITY: Rochester STATE: NY ZIP: 14614	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS) 1 ☐ 2 ☐ 3 ☐ STD 5 ☒ OTHER ☐
PHONE: 428-7892 FAX: 428-6010	PHONE: FAX:	
ATTN: Jane Forbes	ATTN:	

PROJECT NAME/SITE NAME: RTA Monthly Sampl. DEQ-98045

COMMENTS: [illegible]

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	Coliform	8015	625	Pests/PCBs	pH	Phosphorus	metals				REMARKS	PARADIGM LAB SAMPLE NUMBER
1	3/31/05	1200		X	GWTS Effluent	H2O	10	X	X	X	X	X	X	X				one extra liter	9 5 1 1
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type: Comments:	Y ☒	N ☐
Preservation: Comments: [illegible]	Y ☐	N ☒
Holding Time: Comments: [illegible]	Y ☐	N ☒
Temperature: Comments: 14	Y ☐	N ☒

		Date/Time
Sampled By	Jane MH Forbes	3/31/05 1200P
Relinquished By	[signature]	3/31/05 1410P
Received By	[signature]	3/31/05 1410P
Received @ Lab By	Kelley Crandall	3/31/05 1611

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

pH Analysis Report

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-1471
Client Job Number:	DEQ-98045	**Date Sampled:**	04/27/2005
		Time Sampled:	N/A
		Date Received:	04/27/2005
Sample Type:	Water	**Date Analyzed:**	05/27/2005
Location:	Laboratory	**Time Analyzed:**	6:00 PM

Lab Sample Number	Field Number	Field Location	Result (pH)
6374	N/A	Effluent	7.99

ELAP Number 10958 Method: EPA 150.1

Comments:

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 051471ph.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Client Job Site: RFA - Monthly Sampling DEQ-98045

Client Job No.: N/A

Field Location: Effluent

Lab Project No.: 05-1471
Lab Sample No.: 6374

Sample Type: Water

Date Sampled: 04/27/2005
Date Received: 04/27/2005

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Total Phosphorus	5/2/05	EPA 365.2	0.28

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____

Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhos05-1471.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Client Job No.: DEQ - 98045

Field Location: Effluent
Field ID No.: N/A

Lab Project No.: 05-1471
Lab Sample No.: 6374

Sample Type: Water

Date Sampled: 04/27/2005
Date Received: 04/27/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	05/04/2005	EPA 200.7	0.006
Cadmium	05/04/2005	EPA 200.7	<0.005
Chromium	05/04/2005	EPA 200.7	<0.010
Copper	05/04/2005	EPA 200.7	<0.010
Iron	05/04/2005	EPA 200.7	2.71
Lead	05/04/2005	EPA 200.7	<0.005
Manganese	05/04/2005	EPA 200.7	0.270
Nickel	05/04/2005	EPA 200.7	<0.040
Selenium	05/04/2005	EPA 200.7	<0.005
Zinc	05/04/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-1471
		Lab Sample Number:	6374
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	04/27/2005
Field ID Number:	N/A	**Date Received:**	04/27/2005
Sample Type:	Water	**Date Analyzed:**	05/04/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-1471
		Lab Sample Number:	6374
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	04/27/2005
Field ID Number:	N/A	**Date Received:**	04/27/2005
Sample Type:	Water	**Date Analyzed:**	05/04/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Monthly Sampling
Client Job Number: DEQ-98045
Field Location: Effluent
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 05-1471
Lab Sample Number: 6374
Date Sampled: 04/27/2005
Date Received: 04/27/2005
Date Analyzed: 05/05/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	16.1	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 24285.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester - DEQ

Client Job Site:	RFA-Monthly Sampling	**Lab Project Number:**	05-1471
		Lab Sample Number:	6374
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	04/27/2005
Field ID Number:	N/A	**Date Received:**	04/27/2005
Sample Type:	Water	**Date Analyzed:**	05/05/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 24284.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-1471
		Lab Sample Number:	6374
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	04/27/2005
Field ID Number:	N/A	**Date Received:**	04/27/2005
Sample Type:	Water	**Date Analyzed:**	05/04/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 20.0

Ketones	Results in ug / L
Acetone	157
2-Butanone	282
2-Hexanone	ND< 50.0
4-Methyl-2-pentanone	53.5

Aromatics	Results in ug / L
m,p-Xylene	ND< 20.0
o-Xylene	ND< 20.0
Styrene	ND< 20.0

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 50.0
Vinyl acetate	ND< 50.0

ELAP Number 10958 Method: EPA 8015 Modified Data File: 28735.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-1471
		Lab Sample Number:	6374
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	04/27/2005
Field ID Number:	N/A	**Date Received:**	04/27/2005
Sample Type:	Water	**Date Analyzed:**	05/04/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 20.0	trans-1,2-Dichloroethene	ND< 20.0
Bromomethane	ND< 20.0	1,2-Dichloropropane	ND< 20.0
Bromoform	ND< 20.0	cis-1,3-Dichloropropene	ND< 20.0
Carbon Tetrachloride	ND< 20.0	trans-1,3-Dichloropropene	ND< 20.0
Chloroethane	ND< 20.0	Methylene chloride	ND< 50.0
Chloromethane	ND< 20.0	1,1,2,2-Tetrachloroethane	ND< 20.0
2-Chloroethyl vinyl Ether	ND< 20.0	Tetrachloroethene	ND< 20.0
Chloroform	ND< 20.0	1,1,1-Trichloroethane	1,140
Dibromochloromethane	ND< 20.0	1,1,2-Trichloroethane	ND< 20.0
1,1-Dichloroethane	159	Trichloroethene	255
1,2-Dichloroethane	28.3	Trichlorofluoromethane	ND< 20.0
1,1-Dichloroethene	ND< 20.0	Vinyl chloride	ND< 20.0

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 7.00	1,2-Dichlorobenzene	ND< 20.0
Chlorobenzene	ND< 20.0	1,3-Dichlorobenzene	ND< 20.0
Ethylbenzene	ND< 20.0	1,4-Dichlorobenzene	ND< 20.0
Toluene	91.4		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 28735.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:
COMPANY: City of Rochester - DES	COMPANY:
ADDRESS: 30 Church St. Rm 300B	ADDRESS:
CITY: Rochester STATE: NY ZIP: 14614	CITY: STATE: ZIP:
PHONE: [illegible] FAX: 428-6010	PHONE: FAX:
ATTN: Jane Mil[illegible]	ATTN:

LAB PROJECT #: [illegible]
CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)
1 ☐ 2 ☐ 3 ☐ STD 5 ☒ OTHER ☐

PROJECT NAME/SITE NAME: [illegible]

COMMENTS: [illegible]

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	[illegible]	8015	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				REMARKS	PARADIGM LAB SAMPLE NUMBER
1 4/27/05			X	Effluent	H2O	11	X	X	X	X	X	X	X					
2																		
3																		
4																	1 Extra bottle	
5																		
6																		
7																		
8																		
9																		
10																		

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type: Comments:	Y ☐	N ☐
Preservation: Comments:	Y ☐	N ☐
Holding Time: Comments:	Y ☐	N ☐
Temperature: 13° Comments:	Y ☐	N ☑

	Date/Time
Sampled By: JANE MILFORBE	4/27/05 1200 Pm
Relinquished By: [signature]	4/27/05 1600 Pm
Received By: [signature]	4-27-05 1600
Received @ Lab By: [signature]	4/27/05 1629

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

pH Analysis Report

Client: City of Rochester - DEQ

Client Job Site:	RFA Semi Annual Sampling	**Lab Project Number:**	05-1695
Client Job Number:	N/A	**Date Sampled:**	05/11/2005
		Time Sampled:	2:30 PM
		Date Received:	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/11/2005
Location:	Laboratory	**Time Analyzed:**	4:38 PM

Lab Sample Number	Field Number	Field Location	Result (pH)
7176	N/A	Influent	7.03
7177	N/A	Effluent	8.12

ELAP Number 10958 Method: EPA 150.1

Comments:

Signature: _____
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: `PH.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy
Semi Annual

Client Job No.: DEQ-98045

Lab Project No.: 05-1695

Sample Type: Water
Method: EPA 200.7
Date Sampled: 05/11/2005
Date Received: 05/11/2005
Date Analyzed:

Laboratory Report for Hardness Analysis

Lab Sample No.:	Field ID	Field Location	Total Hardness (mg/L)
7176	N/A	Influent	437

ELAP ID No.:10958

Comments: The matrix spike for Magnesium recovered 23%. The sample result for Calcium was greater than ten times the matrix spike resulting in an unusable matrix spike.

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requiremtns upon receipt.

File ID:051695.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi-Annual Sampling

Client Job No.: N/A

Lab Project No.: 05-1695

Sample Type: Water
Analytical Method: EPA 310.1

Date Sampled: 05/11/2005
Date Received: 05/11/2005
Date Analyzed: 05/17/2005

Lab Sample ID	Sample Location/Field ID	Alkalinity, as CaCO3 (mg/l)
7176	Influent	350.0

ELAP ID No.: 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: Alkalinity05-1695.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester- DEQ
Client Job Site: RFA - Semi-Annual Sampling
Client Job No.: N/A
Field Location: Effluent

Lab Project No.: 05-1695
Lab Sample No.: 7177
Sample Type: Water
Date Sampled: 05/11/2005
Date Received: 05/11/2005

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Total Phosphorus	5/16/2005	EPA 365.2	1.93

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhos05-1695.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy
Semi Annual

Client Job No.: DEQ-98045

Field Location: Influent
Field ID No.: N/A

Lab Project No.: 05-1695
Lab Sample No.: 7176

Sample Type: Water

Date Sampled: 05/11/2005
Date Received: 05/11/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	05/19/2005	EPA 200.7	0.009
Cadmium	05/19/2005	EPA 200.7	<0.005
Chromium	05/19/2005	EPA 200.7	<0.010
Copper	05/19/2005	EPA 200.7	<0.010
Iron	05/19/2005	EPA 200.7	5.35
Lead	05/19/2005	EPA 200.7	<0.005
Manganese	05/19/2005	EPA 200.7	0.376
Nickel	05/19/2005	EPA 200.7	<0.040
Selenium	05/19/2005	EPA 200.7	<0.005
Zinc	05/19/2005	EPA 200.7	0.052

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy
Semi Annual

Client Job No.: DEQ - 98045

Field Location: Effluent

Field ID No.: N/A

Lab Project No.: 05-1695
Lab Sample No.: 7176

Sample Type: Water

Date Sampled: 05/11/2005
Date Received: 05/11/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	05/19/2005	EPA 200.7	0.009
Cadmium	05/19/2005	EPA 200.7	<0.005
Chromium	05/19/2005	EPA 200.7	<0.010
Copper	05/19/2005	EPA 200.7	<0.010
Iron	05/19/2005	EPA 200.7	4.24
Lead	05/19/2005	EPA 200.7	<0.005
Manganese	05/19/2005	EPA 200.7	0.264
Nickel	05/19/2005	EPA 200.7	<0.040
Selenium	05/19/2005	EPA 200.7	<0.005
Zinc	05/19/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requiremtns upon receipt.

File ID:051695.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7176
Client Job Number:	N/A		
Field Location:	Influent	**Date Sampled:**	05/19/2005
Field ID Number:	N/A	**Date Received:**	05/19/2005
Sample Type:	Water	**Date Analyzed:**	05/20/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7177
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	05/19/2005
Field ID Number:	N/A	**Date Received:**	05/19/2005
Sample Type:	Water	**Date Analyzed:**	05/20/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7176
Client Job Number:	N/A		
Field Location:	Influent	**Date Sampled:**	05/19/2005
Field ID Number:	N/A	**Date Received:**	05/19/2005
Sample Type:	Water	**Date Analyzed:**	05/20/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

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Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7177
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	05/19/2005
Field ID Number:	N/A	**Date Received:**	05/19/2005
Sample Type:	Water	**Date Analyzed:**	05/20/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Base Fraction)

Client: City of Rochester - DEQ

Client Job Site: RFA - Semi Annual Sampling
Client Job Number: N/A
Field Location: Effluent
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 05-1695
Lab Sample Number: 7177

Date Sampled: 05/11/2005
Date Received: 05/11/2005
Date Analyzed: 05/17/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	27.4	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 24552.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7177
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 24545.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7166
Client Job Number:	DEQ-98045		
Field Location:	MW 6I	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29033.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7167
Client Job Number:	DEQ-98045		
Field Location:	MW 7S	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 20.0	trans-1,2-Dichloroethene	ND< 20.0
Bromomethane	ND< 20.0	1,2-Dichloropropane	ND< 20.0
Bromoform	ND< 20.0	cis-1,3-Dichloropropene	ND< 20.0
Carbon Tetrachloride	ND< 20.0	trans-1,3-Dichloropropene	ND< 20.0
Chloroethane	ND< 20.0	Methylene chloride	ND< 50.0
Chloromethane	ND< 20.0	1,1,2,2-Tetrachloroethane	ND< 20.0
2-Chloroethyl vinyl Ether	ND< 20.0	Tetrachloroethene	ND< 20.0
Chloroform	ND< 20.0	1,1,1-Trichloroethane	1,110
Dibromochloromethane	ND< 20.0	1,1,2-Trichloroethane	ND< 20.0
1,1-Dichloroethane	288	Trichloroethene	ND< 20.0
1,2-Dichloroethane	ND< 20.0	Trichlorofluoromethane	ND< 20.0
1,1-Dichloroethene	21.7	Vinyl chloride	72.0

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 7.00	1,2-Dichlorobenzene	ND< 20.0
Chlorobenzene	ND< 20.0	1,3-Dichlorobenzene	ND< 20.0
Ethylbenzene	171	1,4-Dichlorobenzene	ND< 20.0
Toluene	60.1		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29034.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7168
Client Job Number:	DEQ-98045i		
Field Location:	MW 7I	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	42.8
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	203	Trichloroethene	ND< 2.00
1,2-Dichloroethane	3.86	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	2.09	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29035.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7169
Client Job Number:	DEQ-98045		
Field Location:	MW 7D	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29036.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7170
Client Job Number:	DEQ-98045		
Field Location:	MW 8I	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	4.74	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	84.5

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29037.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
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Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7171
Client Job Number:	DEQ-98045		
Field Location:	MW 9D	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29038.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7172
Client Job Number:	DEQ-98045		
Field Location:	MW 10S	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29039.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7173
Client Job Number:	DEQ-98045		
Field Location:	MW 10I	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29042.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7174
Client Job Number:	DEQ-98045		
Field Location:	MW 11I	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	97.8

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29043.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7175
Client Job Number:	DEQ-98045		
Field Location:	MW 15S	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	15.3

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	71.5	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29044.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7176
Client Job Number:	DEQ-98045		
Field Location:	Influent	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 1,000	trans-1,2-Dichloroethene	ND< 1,000
Bromomethane	ND< 1,000	1,2-Dichloropropane	ND< 1,000
Bromoform	ND< 1,000	cis-1,3-Dichloropropene	ND< 1,000
Carbon Tetrachloride	ND< 1,000	trans-1,3-Dichloropropene	ND< 1,000
Chloroethane	ND< 1,000	Methylene chloride	ND< 2,500
Chloromethane	ND< 1,000	1,1,2,2-Tetrachloroethane	ND< 1,000
2-Chloroethyl vinyl Ether	ND< 1,000	Tetrachloroethene	ND< 1,000
Chloroform	ND< 1,000	1,1,1-Trichloroethane	17,900
Dibromochloromethane	ND< 1,000	1,1,2-Trichloroethane	ND< 1,000
1,1-Dichloroethane	2,110	Trichloroethene	ND< 1,000
1,2-Dichloroethane	ND< 1,000	Trichlorofluoromethane	ND< 1,000
1,1-Dichloroethene	ND< 1,000	Vinyl chloride	ND< 1,000

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 350	1,2-Dichlorobenzene	ND< 1,000
Chlorobenzene	ND< 1,000	1,3-Dichlorobenzene	ND< 1,000
Ethylbenzene	ND< 1,000	1,4-Dichlorobenzene	ND< 1,000
Toluene	1,890		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29067.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7177
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 5.00	trans-1,2-Dichloroethene	ND< 5.00
Bromomethane	ND< 5.00	1,2-Dichloropropane	ND< 5.00
Bromoform	ND< 5.00	cis-1,3-Dichloropropene	ND< 5.00
Carbon Tetrachloride	ND< 5.00	trans-1,3-Dichloropropene	ND< 5.00
Chloroethane	ND< 5.00	Methylene chloride	ND< 12.5
Chloromethane	ND< 5.00	1,1,2,2-Tetrachloroethane	ND< 5.00
2-Chloroethyl vinyl Ether	ND< 5.00	Tetrachloroethene	ND< 5.00
Chloroform	ND< 5.00	1,1,1-Trichloroethane	71.2
Dibromochloromethane	ND< 5.00	1,1,2-Trichloroethane	ND< 5.00
1,1-Dichloroethane	16.7	Trichloroethene	ND< 5.00
1,2-Dichloroethane	7.99	Trichlorofluoromethane	ND< 5.00
1,1-Dichloroethene	ND< 5.00	Vinyl chloride	ND< 5.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 1.75	1,2-Dichlorobenzene	ND< 5.00
Chlorobenzene	ND< 5.00	1,3-Dichlorobenzene	ND< 5.00
Ethylbenzene	ND< 5.00	1,4-Dichlorobenzene	ND< 5.00
Toluene	5.05		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29068.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Semi Annual Sampling	**Lab Project Number:**	05-1695
		Lab Sample Number:	7177
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	05/11/2005
Field ID Number:	N/A	**Date Received:**	05/11/2005
Sample Type:	Water	**Date Analyzed:**	05/17/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 5.00

Ketones	Results in ug / L
Acetone	305
2-Butanone	162
2-Hexanone	ND< 12.5
4-Methyl-2-pentanone	57.8

Aromatics	Results in ug / L
m,p-Xylene	ND< 5.00
o-Xylene	ND< 5.00
Styrene	ND< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 12.5
Vinyl acetate	ND< 12.5

ELAP Number 10958 Method: EPA 8015 Modified Data File: 29068.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

Pg 1 of 2

REPORT TO:		INVOICE TO:			
COMPANY: City of Rochester - DEQ		COMPANY:		LAB PROJECT #: 05 1695	CLIENT PROJECT #:
ADDRESS: 30 Church St. Rm 300B		ADDRESS:			
CITY: Rochester STATE: NY ZIP: 14614		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: 428-7892 FAX: 428 6010		PHONE: FAX:		STD [X] 5	OTHER [ ]
PROJECT NAME/SITE NAME: RFA - Semi Annual Sampling	ATTN: Jane Forbes	ATTN:		[ ] 1 [ ] 2 [ ] 3	
	COMMENTS: DEQ-98045				

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	6010 6020									REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/11/05	1229		X	MW6 I	H2O	2	X										
2		1215		X	MW 7S		2	X										
3		1200		X	MW 7I		2	X										
4		1210		X	MW 7D		2	X										
5		1300		X	MW 8I		2	X										
6		1157		X	MW 9D		2	X									Hold MW9 samples	
7		1240		X	MW 10S		2	X									CPA - Pr. [illegible] to	
8		1230		X	MW 10I		2	X									[illegible]	
9		1250		X	MW 11I		2	X									[illegible] MW9S	
10		1309		X	MW 15S	✓	2	X										

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type: Comments: VOA vial	Y [✓]	N [ ]
Preservation: Comments: ✓	Y [✓]	N [ ]
Holding Time: Comments:	Y [✓]	N [ ]
Temperature: 14 Comments:	Y [ ]	N [✓]

Jane M. Forbes	1200	5/11/05	
Sampled By		Date/Time	
[signature]	1450	5/11/05	
Relinquished By		Date/Time	
[signature]	5/11/05	1450	
Received By		Date/Time	
[signature]	5/11/05	1525	
Received @ Lab By		Date/Time	

Total Cost:

P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

Pg 2 of 2

REPORT TO:		INVOICE TO:		LAB PROJECT #:	CLIENT PROJECT #:
COMPANY: City of Rochester - DEQ		COMPANY:		05-1645	
ADDRESS: 30 Church St. Rm 300B		ADDRESS:		TURNAROUND TIME: (WORKING DAYS)	
CITY: Rochester	STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	1 ☐ 2 ☐ 3 ☐ STD 5 ☒	OTHER ☐
PHONE: 428-7892	FAX: 428-6010	PHONE:	FAX:		
ATTN: Jane Forbes		ATTN:			

PROJECT NAME/SITE NAME: RFA - Semi Annual Sampling

COMMENTS: DEQ - 98045

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	601/602	8015	625	608/PCBs	Metals	Alkalinity	Hardness	pH	[illegible]		REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/11/05	1430		X	Influent	H2O	6	X			X	X	X	X	X			[illegible]	7176
2	↓	1420		X	Effluent	H2O	10	X	X	X	X	X			X	X			7177
3																			
4					rec'd													1 extra litre	
5					1 resample for Pest/PCB													[illegible]	
6					5/11/05 due to lab error														
7					Calaca 5/19/05 1020														
8					date resampled														
9					5/19/05														
10																			

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter		NELAC Compliance	
Container Type: Comments: Mixed		Y ☑	N ☐
Preservation: Comments: VFK		Y ☑	N ☐
Holding Time: Comments:		Y ☑	N ☐
Temperature: Comments: 16		Y ☐	N ☑

	Date/Time
Sampled By: Jane M H Forbes	1200 5/11/05
Relinquished By: [signature]	1450 5/11/05
Received By: Jane J Calaca	5/11/05 1450
Received @ Lab By:	

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Supplemental MCPW Permit Sampling	**Lab Project Number:**	05-2119
		Lab Sample Number:	8417
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	06/17/2005
Field ID Number:	N/A	**Date Received:**	06/17/2005
Sample Type:	Water	**Date Analyzed:**	06/24/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	MCPW Permit Sampling	**Lab Project Number:**	05-2119
		Lab Sample Number:	8417
Client Job Number:	RFA - Supplemental		
Field Location:	Effluent	**Date Sampled:**	06/17/2005
Field ID Number:	N/A	**Date Received:**	06/17/2005
Sample Type:	Water	**Date Analyzed:**	06/25/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.200
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.300
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.200
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 6.00
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester - DEQ

Client Job Site:	RFA - Supplemental MCPW Permit Sampling	**Lab Project Number:**	05-2119
		Lab Sample Number:	8417
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	06/17/2005
Field ID Number:	N/A	**Date Received:**	06/17/2005
Sample Type:	Water	**Date Analyzed:**	06/23/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 25072.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Base Fraction)

Client: City of Rochester - DEQ

Client Job Site:	RFA - Supplemental MCPW Permit Sampling	**Lab Project Number:**	05-2119
		Lab Sample Number:	8417
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	06/17/2005
Field ID Number:	N/A	**Date Received:**	06/17/2005
Sample Type:	Water	**Date Analyzed:**	06/23/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	16.7	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 25077.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Supplemental MCPW Permit Sampling	**Lab Project Number:**	05-2119
		Lab Sample Number:	8417
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	06/17/2005
Field ID Number:	N/A	**Date Received:**	06/17/2005
Sample Type:	Water	**Date Analyzed:**	06/23/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 5.00	trans-1,2-Dichloroethene	ND< 5.00
Bromomethane	ND< 5.00	1,2-Dichloropropane	ND< 5.00
Bromoform	ND< 5.00	cis-1,3-Dichloropropene	ND< 5.00
Carbon Tetrachloride	ND< 5.00	trans-1,3-Dichloropropene	ND< 5.00
Chloroethane	ND< 5.00	Methylene chloride	ND< 12.5
Chloromethane	ND< 5.00	1,1,2,2-Tetrachloroethane	ND< 5.00
2-Chloroethyl vinyl Ether	ND< 5.00	Tetrachloroethene	ND< 5.00
Chloroform	ND< 5.00	1,1,1-Trichloroethane	89.0
Dibromochloromethane	ND< 5.00	1,1,2-Trichloroethane	ND< 5.00
1,1-Dichloroethane	18.2	Trichloroethene	ND< 5.00
1,2-Dichloroethane	5.71	Trichlorofluoromethane	ND< 5.00
1,1-Dichloroethene	ND< 5.00	Vinyl chloride	ND< 5.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 1.75	1,2-Dichlorobenzene	ND< 5.00
Chlorobenzene	ND< 5.00	1,3-Dichlorobenzene	ND< 5.00
Ethylbenzene	ND< 5.00	1,4-Dichlorobenzene	ND< 5.00
Toluene	5.89		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29765.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Supplemental MCPW Permit Sampling	**Lab Project Number:**	05-2119
		Lab Sample Number:	8417
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	06/17/2005
Field ID Number:	N/A	**Date Received:**	06/17/2005
Sample Type:	Water	**Date Analyzed:**	06/23/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 5.00

Ketones	Results in ug / L
Acetone	184
2-Butanone	105
2-Hexanone	ND< 12.5
4-Methyl-2-pentanone	39.1

Aromatics	Results in ug / L
m,p-Xylene	ND< 5.00
o-Xylene	ND< 5.00
Styrene	ND< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 12.5
Vinyl acetate	ND< 12.5

ELAP Number 10958 Method: EPA 8015 Modified Data File: 29765.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester - DEQ

Client Job Site: RFA- Supplemental MCPW Permit Sampling

Client Job No.: N/A

Field Location: Effluent

Lab Project No.: 05-2119
Lab Sample No.: 8417

Sample Type: Water

Date Sampled: 06/17/2005
Date Received: 06/17/2005

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Total Phosphate	06/20/2005	EPA 365.2	6.63

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhos05-2119.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ
Client Job Site: RFA - Supplemental MCPW Permit Sampling
Client Job No.: N/A
Field Location: Effluent
Field ID No.: N/A

Lab Project No.: 05 - 2119
Lab Sample No.: 8417
Sample Type: Water
Date Sampled: 06/17/2005
Date Received: 06/17/2005

Laboratory Report for Priority Pollutant Metals Analysis in Water

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	06/21/2005	EPA 200.7	<0.005
Cadmium	06/20/2005	EPA 200.7	<0.005
Chromium	06/20/2005	EPA 200.7	<0.010
Copper	06/21/2005	EPA 200.7	<0.010
Iron	06/21/2005	EPA 200.7	3.56
Lead	06/20/2005	EPA 200.7	<0.005
Manganese	06/20/205	EPA 200.7	0.285
Nickel	06/20/2005	EPA 200.7	<0.040
Selenium	06/20/2005	EPA 200.7	<0.005
Zinc	06/21/2005	EPA 200.7	0.042

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: RFA - Supplemental MCPW Permit Sampling

Client Job No.: N/A

Lab Project No.: 05 - 2119

Sample Type: Water

Method: EPA 150.1

Date Sampled: 06/17/2005

Time Sampled: 13:00

Date Received: 06/17/2005

Date Analyzed: 06/17/2005

Time Analyzed: 14:45

Location : Lab

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
8417	N/A	Effluent	8.06

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional sample information, including compliance with sample condition requirements upon receipt.

File ID:052119.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:

COMPANY: City of Rochester - DCQ
ADDRESS: 30 Church St. Rm 300B
CITY: Rochester STATE: NY ZIP: 14614
PHONE: 428-7892 FAX: 428-6010
ATTN: Jane M+ Forbes

INVOICE TO:

COMPANY:
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #: 05-219
CLIENT PROJECT #:
TURNAROUND TIME: (WORKING DAYS) STD ☒ 5 OTHER ☐ 1 ☐ 2 ☐ 3

PROJECT NAME/SITE NAME: MA - Supplemental mcPW permit sampling

COMMENTS: metals include: As, Fe, Cd, Cr, Cu, Pb, Mn, Ni, Se, Zn per guide

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	608/608	625	625	608 Pest/PCBs	Metals	Phenols	TKN				REMARKS	PARADIGM LAB SAMPLE NUMBER
1 6/17/05	13:00		X	Effluent	H2O	10	X	X	X	X	X	X	X				1 Extra Liter	9417
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type: Comments: 1 gal glass/plastic	Y ☑	N ☐
Preservation: Comments:	Y ☑	N ☐
Holding Time: Comments:	Y ☑	N ☐
Temperature: Comments: 15°C	Y ☐	N ☑

Jane M+ Forbes — Sampled By — 6/17/05 13:00 Date/Time

Relinquished By — 6/17/05 14:10 Date/Time

Received By — 6/17/05 14:10 Date/Time

Received @ L — 6/17/05 1429 Date/Time

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ
Client Job Site: Rochester Fire Academy Quarterly Sampling
Client Job No.: DEQ - 98045
Sample Type: Water
Method: EPA 150.1

Lab Project No.: Effluent
Date Sampled: 06/23/2005
Time Sampled: N/A
Date Received: 06/23/2005
Date Analyzed: 06/23/2005
Time Analyzed: 12:06 PM
Location : Lab

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
8583	N/A	Effluent	7.94

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requiremtns upon receipt.

File ID:052169.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
1710 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Client Job Site: RFA - Monthly Sampling

Client Job No.: DEQ-98045

Field Location: Effluent

Lab Project No.: 05-2169
Lab Sample No.: 8583

Sample Type: Water

Date Sampled: 06/23/2005
Date Received: 06/23/2005

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Total Phosphorus	6/25/05	EPA 365.2	0.68

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhos05-2169.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Client Job No.: DEQ - 98045

Field Location: Effluent
Field ID No.: N/A

Lab Project No. 05-2169
Lab Sample No. 8583

Sample Type: Water

Date Sampled: 06/23/2005
Date Received: 06/23/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	06/27/2005	EPA 200.7	0.010
Cadmium	06/27/2005	EPA 200.7	<0.005
Chromium	06/27/2005	EPA 200.7	<0.010
Copper	06/27/2005	EPA 200.7	<0.010
Iron	06/27/2005	EPA 200.7	4.62
Lead	06/27/2005	EPA 200.7	<0.005
Manganese	06/27/2005	EPA 200.7	0.949
Nickel	06/27/2005	EPA 200.7	<0.040
Selenium	06/27/2005	EPA 200.7	<0.005
Zinc	06/27/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments: The sample duplicate was 37% and 33% difference for Arsenic and Manganese respectively.

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requiremtns upon receipt.

File ID:052169.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-2169
		Lab Sample Number:	8583
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	06/23/2005
Field ID Number:	N/A	**Date Received:**	06/23/2005
Sample Type:	Water	**Date Analyzed:**	06/29/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-2169
		Lab Sample Number:	8583
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	06/23/2005
Field ID Number:	N/A	**Date Received:**	06/23/2005
Sample Type:	Water	**Date Analyzed:**	06/28/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-2169
		Lab Sample Number:	8583
Client Job Number:	DEQ - 98045		
Field Location:	Effluent	**Date Sampled:**	06/23/2005
Field ID Number:	N/A	**Date Received:**	06/23/2005
Sample Type:	Water	**Date Analyzed:**	06/29/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 25171.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Base Fraction)

Client: City of Rochester

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-2169
		Lab Sample Number:	8583
Client Job Number:	DEQ - 98045		
Field Location:	Effluent	**Date Sampled:**	06/23/2005
Field ID Number:	N/A	**Date Received:**	06/23/2005
Sample Type:	Water	**Date Analyzed:**	06/29/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 25176.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-2169
		Lab Sample Number:	8583
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	06/23/2005
Field ID Number:	N/A	**Date Received:**	06/23/2005
Sample Type:	Water	**Date Analyzed:**	06/29/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 5.00	trans-1,2-Dichloroethene	ND< 5.00
Bromomethane	ND< 5.00	1,2-Dichloropropane	ND< 5.00
Bromoform	ND< 5.00	cis-1,3-Dichloropropene	ND< 5.00
Carbon Tetrachloride	ND< 5.00	trans-1,3-Dichloropropene	ND< 5.00
Chloroethane	ND< 5.00	Methylene chloride	ND< 12.5
Chloromethane	ND< 5.00	1,1,2,2-Tetrachloroethane	ND< 5.00
2-Chloroethyl vinyl Ether	ND< 5.00	Tetrachloroethene	ND< 5.00
Chloroform	ND< 5.00	1,1,1-Trichloroethane	71.8
Dibromochloromethane	ND< 5.00	1,1,2-Trichloroethane	ND< 5.00
1,1-Dichloroethane	15.1	Trichloroethene	5.62
1,2-Dichloroethane	6.48	Trichlorofluoromethane	ND< 5.00
1,1-Dichloroethene	ND< 5.00	Vinyl chloride	ND< 5.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 1.75	1,2-Dichlorobenzene	ND< 5.00
Chlorobenzene	ND< 5.00	1,3-Dichlorobenzene	ND< 5.00
Ethylbenzene	ND< 5.00	1,4-Dichlorobenzene	ND< 5.00
Toluene	ND< 5.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 29917.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Monthly Sampling	**Lab Project Number:**	05-2169
		Lab Sample Number:	8583
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	06/23/2005
Field ID Number:	N/A	**Date Received:**	06/23/2005
Sample Type:	Water	**Date Analyzed:**	06/29/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 5.00

Ketones	Results in ug / L
Acetone	ND< 25.0
2-Butanone	ND< 12.5
2-Hexanone	ND< 12.5
4-Methyl-2-pentanone	ND< 12.5

Aromatics	Results in ug / L
m,p-Xylene	ND< 5.00
o-Xylene	ND< 5.00
Styrene	ND< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 12.5
Vinyl acetate	ND< 12.5

ELAP Number 10958 Method: EPA 8015 Modified Data File: 29917.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:		
COMPANY:	COMPANY:	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	ADDRESS:		
CITY: STATE: ZIP:	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:	PHONE: FAX:	STD	OTHER
PROJECT NAME/SITE NAME:	ATTN:	☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
	COMMENTS:		

DEC-980415

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER				
1	6/23/05			X																		
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter		NELAC Compliance	
Container Type:		Y ☑	N ☐
Comments:	VOA/glass/plastic		
Preservation:		Y ☐	N ☑
Comments:	2 in lab for metals		
Holding Time:		Y ☐	N ☑
Comments:	no time for pH		
Temperature:	21	Y ☐	N ☑
Comments:			

JANE M. FORBES	6/23/05 1200	Total Cost:
Sampled By	Date/Time	
Relinquished By	6/23/05 1450	
	Date/Time	
Received By	6/23/05 1450	P.I.F.
	Date/Time	
Received @ Lab By	6/23/05 1502	
	Date/Time	

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client:	City of Rochester - DEQ	**Lab Project No.:**	05-2376
Client Job Site:	Rochester Fire Academy	**Date Sampled:**	07/14/2005
		Time Sampled:	1:37 PM
Client Job No.:	DEQ - 98045	**Date Received:**	07/14/2005
Sample Type:	Water	**Date Analyzed:**	07/14/2005
Method:	EPA 150.1	**Time Analyzed:**	2:20 PM
		Location :	Lab

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
9181	N/A	Effluent	7.91

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester
Client Job Site: RFA - Sampling
Client Job No.: DEQ-98045
Field Location: Effluent

Lab Project No.: 05-2376
Lab Sample No.: 9181
Sample Type: Water
Date Sampled: 07/14/2005
Date Received: 07/14/2005

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Total Phosphorus	7/18/05	EPA 365.2	2.39

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: tphos05-2376.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy

Client Job No.: DEQ - 98045

Field Location: Effluent
Field ID No.: N/A

Lab Project No.05-2376
Lab Sample No.9181

Sample Type: Water

Date Sampled: 07/14/2005
Date Received: 07/14/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	07/19/2005	EPA 200.7	0.018
Cadmium	07/15/2005	EPA 200.7	<0.005
Chromium	07/15/2005	EPA 200.7	<0.010
Copper	07/15/2005	EPA 200.7	<0.010
Iron	07/15/2005	EPA 200.7	3.54
Lead	07/15/2005	EPA 200.7	<0.005
Manganese	07/15/2005	EPA 200.7	1.19
Nickel	07/15/2005	EPA 200.7	<0.040
Selenium	07/15/2005	EPA 200.7	<0.005
Zinc	07/15/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requiremtns upon receipt.

File ID:052376.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Sampling	**Lab Project Number:**	05-2376
		Lab Sample Number:	9181
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	07/14/2005
Field ID Number:	N/A	**Date Received:**	07/14/2005
Sample Type:	Water	**Date Analyzed:**	07/22/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.500
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Sampling	**Lab Project Number:**	05-2376
		Lab Sample Number:	9181
Client Job Number:	DEQ-98045		
Field Location:	Effuent	**Date Sampled:**	07/14/2005
Field ID Number:	N/A	**Date Received:**	07/14/2005
Sample Type:	Water	**Date Analyzed:**	07/21/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester - DEQ

Client Job Site:	RFA - Sampling	**Lab Project Number:**	05-2376
		Lab Sample Number:	9181
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	07/14/2005
Field ID Number:	N/A	**Date Received:**	07/14/2005
Sample Type:	Water	**Date Analyzed:**	07/21/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 25532.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Base Fraction)

Client: City of Rochester - DEQ

Client Job Site:	RFA - Sampling	**Lab Project Number:**	05-2376
		Lab Sample Number:	9181
Client Job Number:	DEQ - 98045		
Field Location:	Effluent	**Date Sampled:**	07/14/2005
Field ID Number:	N/A	**Date Received:**	07/14/2005
Sample Type:	Water	**Date Analyzed:**	07/21/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 25540.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Sampling	**Lab Project Number:**	05-2376
		Lab Sample Number:	9181
Client Job Number:	DEQ - 98045		
Field Location:	Effluent	**Date Sampled:**	07/14/2005
Field ID Number:	N/A	**Date Received:**	07/14/2005
Sample Type:	Water	**Date Analyzed:**	07/20/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 2.00

Ketones	Results in ug / L
Acetone	ND< 10.0
2-Butanone	ND< 5.00
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

Aromatics	Results in ug / L
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

ELAP Number 10958 Method: EPA 8015 Modified Data File: 30283.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Sampling	**Lab Project Number:**	05-2376
		Lab Sample Number:	9181
Client Job Number:	DEQ - 98045		
Field Location:	Effluent	**Date Sampled:**	07/14/2005
Field ID Number:	N/A	**Date Received:**	07/14/2005
Sample Type:	Water	**Date Analyzed:**	07/20/2005

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 602 Data File: 30283.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Sampling	**Lab Project Number:**	05-2376
		Lab Sample Number:	9181
Client Job Number:	DEQ - 98045		
Field Location:	Effluent	**Date Sampled:**	07/14/2005
Field ID Number:	N/A	**Date Received:**	07/14/2005
Sample Type:	Water	**Date Analyzed:**	07/20/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	76.9
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	14.8	Trichloroethene	3.07
1,2-Dichloroethane	5.08	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00

ELAP Number 10958 Method: EPA 601 Data File: 30283.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY: City of Rochester - DCD		COMPANY:		LAB PROJECT #: 05 2376	CLIENT PROJECT #:
ADDRESS: 30 Church St. Rm 300B		ADDRESS:			
CITY: Rochester STATE: NY ZIP: 14614		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: 428-7892 FAX: 428-6010		PHONE: FAX:		STD: ☒ 5	OTHER: ☐
PROJECT NAME/SITE NAME: RFA - Sampling DCD - 19049	ATTN: Jane Forbes	ATTN:		☐ 1 ☐ 2 ☐ 3	
	COMMENTS:				

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS										REMARKS	PARADIGM LAB SAMPLE NUMBER
1	7/14/05	1337		X	Effluent	H2O	10	X	X	X	X	X	X	X			1 [illegible]	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter		NELAC Compliance	
Container Type: Comments: VOA/plastic/glass	Y ☑	N ☐	
Preservation: Comments: ☑ in lab for Phos Metals	Y ☒	N ☑	
Holding Time: Comments:	Y ☑	N ☐	
Temperature: 25° Comments:	Y ☒	N ☑	

JANE MH FORBES	7/14/05	1337
Sampled By	Date/Time	
Relinquished By	7/14/05	1350
Received By	7/14/05	1350
Received @ Lab By	7/14/05	1409

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client:	City of Rochester - DEC	**Lab Project No.:**	05-2811
Client Job Site:	Rochester Fire Academy Quarterly Sampling	**Date Sampled:**	08/12/2005
		Time Sampled:	2:30 PM
Client Job No.:	DEQ - 98045	**Date Received:**	08/12/2005
Sample Type:	Water	**Date Analyzed:**	08/12/2005
Method:	EPA 150.1	**Time Analyzed:**	5:15 PM
		Location :	Lab

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
10239	N/A	Influent	7.30
10240	N/A	Effluent	8.18

ELAP ID No.: 10958 & 10709

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

File ID:052811.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester - DEQ

Client Job Site: RFA - Qtly Sampling

Client Job No.: DEQ - 98045

Lab Project No.: 05-2811

Sample Type: Water
Analytical Method: EPA 365.2
Date Sampled: 08/12/2005
Date Received: 08/12/2005
Date Analyzed: 08/18/2005

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
10240	Effluent	1.15

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhosphorus05-2811.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Client Job Site: RFA - Qtly Sampling

Client Job No.: DEQ - 98045

Lab Project No.: 05-2811

Sample Type: Water
Analytical Method: EPA 310.1

Date Sampled: 8/12/2005
Date Received: 8/12/2005
Date Analyzed: 8/17/2005

Lab Sample ID	Sample Location/Field ID	Alkalinity, as CaCO3 (mg/l)
10239	Influent	495.0

ELAP ID No.: 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: Alkalinity05-2811.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Client Job No.: DEQ - 98045

Lab Project No.: 05-2811

Sample Type: Water
Method: EPA 200.7
Date Sampled: 08/12/2005
Date Received: 08/12/2005
Date Analyzed: 08/12/2005

Laboratory Report for Hardness Analysis

Lab Sample No.:	Field ID	Field Location	Total Hardness (mg/L)
10239	N/A	Influent	566

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

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File ID:052811.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Client Job No.: DEQ - 98045

Field Location: Influent
Field ID No.: N/A

Lab Project No.05-2811
Lab Sample No.10239

Sample Type: Water

Date Sampled: 08/12/2005
Date Received: 08/12/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	08/18/2005	EPA 200.7	0.015
Cadmium	08/18/2005	EPA 200.7	<0.005
Chromium	08/18/2005	EPA 200.7	<0.010
Copper	08/18/2005	EPA 200.7	<0.010
Iron	08/18/2005	EPA 200.7	2.76
Lead	08/18/2005	EPA 200.7	<0.005
Manganese	08/18/2005	EPA 200.7	0.351
Nickel	08/18/2005	EPA 200.7	<0.040
Selenium	08/18/2005	EPA 200.7	<0.005
Zinc	08/18/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogestegen, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

File ID:052811.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester - DEQ

Client Job Site: Rochester Fire Academy
Quarterly Sampling

Client Job No.: DEQ - 98045

Field Location: Effluent

Field ID No.: N/A

Lab Project No.05-2811
Lab Sample No.10240

Sample Type: Water

Date Sampled: 08/12/2005
Date Received: 08/12/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	08/18/2005	EPA 200.7	0.011
Cadmium	08/18/2005	EPA 200.7	<0.005
Chromium	08/18/2005	EPA 200.7	<0.010
Copper	08/18/2005	EPA 200.7	<0.010
Iron	08/18/2005	EPA 200.7	3.36
Lead	08/18/2005	EPA 200.7	<0.005
Manganese	08/18/2005	EPA 200.7	0.320
Nickel	08/18/2005	EPA 200.7	<0.040
Selenium	08/18/2005	EPA 200.7	<0.005
Zinc	08/18/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requiremtns upon receipt.

File ID:052811.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA Qtly Sampling
Client Job Number: DEQ-98045
Field Location: Influent
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 05-2811
Lab Sample Number: 10239
Date Sampled: 08/12/2005
Date Received: 08/12/2005
Date Analyzed: 08/19/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogestegen: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Qtly Sampling	**Lab Project Number:**	05-2811
		Lab Sample Number:	10239
Client Job Number:	DEQ-98045		
Field Location:	Influent	**Date Sampled:**	08/12/2005
Field ID Number:	N/A	**Date Received:**	08/12/2005
Sample Type:	Water	**Date Analyzed:**	08/17/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Qtly Sampling	**Lab Project Number:**	05-2811
		Lab Sample Number:	10240
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	08/12/2005
Field ID Number:	N/A	**Date Received:**	08/12/2005
Sample Type:	Water	**Date Analyzed:**	08/19/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA Qtly Sampling	**Lab Project Number:**	05-2811
		Lab Sample Number:	10240
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	08/12/2005
Field ID Number:	N/A	**Date Received:**	08/12/2005
Sample Type:	Water	**Date Analyzed:**	08/17/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly Sampling	**Lab Project Number:**	05-2811
		Lab Sample Number:	10240
Client Job Number:	DEQ - 98045		
Field Location:	Effluent	**Date Sampled:**	08/12/2005
Field ID Number:	N/A	**Date Received:**	08/12/2005
Sample Type:	Water	**Date Analyzed:**	08/17/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 26060.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Base Fraction)

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly Sampling	**Lab Project Number:**	05-2811
		Lab Sample Number:	10240
Client Job Number:	DEQ - 98045		
Field Location:	Effluent	**Date Sampled:**	08/12/2005
Field ID Number:	N/A	**Date Received:**	08/12/2005
Sample Type:	Water	**Date Analyzed:**	08/17/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	24.8	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: 26063.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Qtly. Sampling
Client Job Number: DEQ-98045
Field Location: Effluent
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 05-2811
Lab Sample Number: 10240

Date Sampled: 08/12/2005
Date Received: 08/12/2005
Date Analyzed: 08/16/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 4.00	trans-1,2-Dichloroethene	ND< 4.00
Bromomethane	ND< 4.00	1,2-Dichloropropane	ND< 4.00
Bromoform	ND< 4.00	cis-1,3-Dichloropropene	ND< 4.00
Carbon Tetrachloride	ND< 4.00	trans-1,3-Dichloropropene	ND< 4.00
Chloroethane	ND< 4.00	Methylene chloride	ND< 10.0
Chloromethane	ND< 4.00	1,1,2,2-Tetrachloroethane	ND< 4.00
2-Chloroethyl vinyl Ether	ND< 4.00	Tetrachloroethene	ND< 4.00
Chloroform	ND< 4.00	1,1,1-Trichloroethane	70.7
Dibromochloromethane	ND< 4.00	1,1,2-Trichloroethane	ND< 4.00
1,1-Dichloroethane	11.5	Trichloroethene	ND< 4.00
1,2-Dichloroethane	ND< 4.00	Trichlorofluoromethane	ND< 4.00
1,1-Dichloroethene	ND< 4.00	Vinyl chloride	ND< 4.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 1.40	1,2-Dichlorobenzene	ND< 4.00
Chlorobenzene	ND< 4.00	1,3-Dichlorobenzene	ND< 4.00
Ethylbenzene	ND< 4.00	1,4-Dichlorobenzene	ND< 4.00
Toluene	11.9		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 30925.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site: RFA - Qtly. Sampling
Client Job Number: DEQ-98045
Field Location: Effluent
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 05-2811
Lab Sample Number: 10240
Date Sampled: 08/12/2005
Date Received: 08/12/2005
Date Analyzed: 08/16/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 4.00

Ketones	Results in ug / L
Acetone	169
2-Butanone	109
2-Hexanone	ND< 10.0
4-Methyl-2-pentanone	25.1

Aromatics	Results in ug / L
m,p-Xylene	ND< 4.00
o-Xylene	ND< 4.00
Styrene	ND< 4.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 10.0
Vinyl acetate	ND< 10.0

ELAP Number 10958 Method: EPA 8015 Modified Data File: 30925.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester - DEQ

Client Job Site:	RFA - Qtly. Sampling	**Lab Project Number:**	05-2811
		Lab Sample Number:	10239
Client Job Number:	DEQ-98045		
Field Location:	Influent	**Date Sampled:**	08/12/2005
Field ID Number:	N/A	**Date Received:**	08/12/2005
Sample Type:	Water	**Date Analyzed:**	08/16/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 1,000	trans-1,2-Dichloroethene	ND< 1,000
Bromomethane	ND< 1,000	1,2-Dichloropropane	ND< 1,000
Bromoform	ND< 1,000	cis-1,3-Dichloropropene	ND< 1,000
Carbon Tetrachloride	ND< 1,000	trans-1,3-Dichloropropene	ND< 1,000
Chloroethane	ND< 1,000	Methylene chloride	ND< 2,500
Chloromethane	ND< 1,000	1,1,2,2-Tetrachloroethane	ND< 1,000
2-Chloroethyl vinyl Ether	ND< 1,000	Tetrachloroethene	ND< 1,000
Chloroform	ND< 1,000	1,1,1-Trichloroethane	20,100
Dibromochloromethane	ND< 1,000	1,1,2-Trichloroethane	ND< 1,000
1,1-Dichloroethane	2,300	Trichloroethene	ND< 1,000
1,2-Dichloroethane	ND< 1,000	Trichlorofluoromethane	ND< 1,000
1,1-Dichloroethene	ND< 1,000	Vinyl chloride	1,230

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 350	1,2-Dichlorobenzene	ND< 1,000
Chlorobenzene	ND< 1,000	1,3-Dichlorobenzene	ND< 1,000
Ethylbenzene	ND< 1,000	1,4-Dichlorobenzene	ND< 1,000
Toluene	3,340		

ELAP Number 10958 Method: EPA 601 / 602 Data File: 30924.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	City of Rochester - DEQ	COMPANY:		LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	30 Church St. Rm 300B	ADDRESS:		05-2811	
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE:	428-7892 FAX: 428-6010	PHONE:	FAX:	STD	OTHER
PROJECT NAME/SITE NAME:	RTA - Q-14 Sampling DEQ-98045	ATTN:		1 2 3 X 5	
ATTN:	JANE FORBES				
COMMENTS:					

Metals - As, Fe, Mg, Mn, Na, Pb, Mn, Ni, Se, Zn

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: 601/602	8015 625	608 Pest/PCB	Alkalinity	Hardness	pH	Metals	Phosphorous	REMARKS	PARADIGM LAB SAMPLE NUMBER
18 DMP 8/12/05	14:30		✓	Influent	H2O	6	X		X	X	X	X	X			10234
28 8/12/05	14:30		✓	Effluent	H2O	10	X	X	X	X			X	X	X		10240
3																
4															Extra Litre Effl	
5																
6																
7																
8																
9																
10																

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ✓	N
Comments: (		
Preservation:	Y ✓	N
Comments:		
Holding Time:	Y	N ✓
Comments: pH out of Hold Time		
Temperature:	Y	N ✓
Comments: 16°C		

Jane M. Forbes	8/12/05 1615	Total Cost:
Sampled By	Date/Time	
Relinquished By	8/12/05 1615 Date/Time	
Received By	8/12/05 1615 Date/Time	P.I.F.
Received @ Lab By	8/12/05 1700 Date/Time	

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client:	City of Rochester	**Lab Project No.:**	05-3252
Client Job Site:	RFA Monthly Sampling	**Date Sampled:**	09/22/2005
		Time Sampled:	2:25 PM
Client Job No.:	N/A	**Date Received:**	09/22/2005
Sample Type:	Water	**Date Analyzed:**	09/22/2005
Method:	EPA 150.1	**Time Analyzed:**	3:58 PM
		Location :	Lab

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
11678	N/A	Effluent	8.09

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

File ID:053252.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester - DEQ
Client Job Site: RFA - Qtly Sampling
Client Job No.: Not Provided

Lab Project No.: 05-3252
Sample Type: Water
Analytical Method: EPA 365.2
Date Sampled: 9/22/2005
Date Received: 9/22/2005
Date Analyzed: 9/24/2005

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
11678	Effluent	2.73

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director: Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhosphorus05-3252.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester
Client Job Site: RFA Monthly Sampling
Client Job No.: N/A
Field Location: Effluent
Field ID No.: N/A

Lab Project No. 05-3252
Lab Sample No. 11678
Sample Type: Water
Date Sampled: 09/22/2005
Date Received: 09/22/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	09/27/2005	EPA 200.7	0.014
Cadmium	09/27/2005	EPA 200.7	<0.005
Chromium	09/27/2005	EPA 200.7	<0.010
Copper	09/27/2005	EPA 200.7	<0.010
Iron	09/27/2005	EPA 200.7	2.76
Lead	09/27/2005	EPA 200.7	<0.005
Manganese	09/27/2005	EPA 200.7	0.459
Nickel	09/27/2005	EPA 200.7	<0.040
Selenium	09/27/2005	EPA 200.7	<0.005
Zinc	09/27/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3252
		Lab Sample Number:	11678
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	09/22/2005
Field ID Number:	N/A	**Date Received:**	09/22/2005
Sample Type:	Water	**Date Analyzed:**	09/28/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3252
		Lab Sample Number:	11678
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	09/22/2005
Field ID Number:	N/A	**Date Received:**	09/22/2005
Sample Type:	Water	**Date Analyzed:**	09/29/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3252
		Lab Sample Number:	11678
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	09/22/2005
Field ID Number:	N/A	**Date Received:**	09/22/2005
Sample Type:	Water	**Date Analyzed:**	09/29/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: S26851.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Base Fraction)

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3252
		Lab Sample Number:	11678
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	09/22/2005
Field ID Number:	N/A	**Date Received:**	09/22/2005
Sample Type:	Water	**Date Analyzed:**	09/29/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	14.9	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: S26856.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3252
		Lab Sample Number:	11678
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	09/22/2005
Field ID Number:	N/A	**Date Received:**	09/22/2005
Sample Type:	Water	**Date Analyzed:**	09/29/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 2.00

Ketones	Results in ug / L
Acetone	91.4
2-Butanone	54.7
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	16.8

Aromatics	Results in ug / L
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

ELAP Number 10958 Method: EPA 8015 Modified Data File: V32106.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3252
		Lab Sample Number:	11678
Client Job Number:	N/A		
Field Location:	Effluent	**Date Sampled:**	09/22/2005
Field ID Number:	N/A	**Date Received:**	09/22/2005
Sample Type:	Water	**Date Analyzed:**	09/29/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	63.8
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	17.2	Trichloroethene	3.67
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	4.42		

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32106.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:		
COMPANY: CITY OF ROCHESTER	COMPANY:	LAB PROJECT #: 05-3252	CLIENT PROJECT #:
ADDRESS: 30 CHURCH STREET, ROOM 300B	ADDRESS:		
CITY: ROCHESTER STATE: NY ZIP: 14614	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: 585-428-6884 FAX: 585-428-6010	PHONE: FAX:	STD	OTHER
ATTN: DENNIS PECK	ATTN:	☐ 1 ☐ 2 ☐ 3 ☒ 5	☐

PROJECT NAME/SITE NAME: RFA MONTHLY SAMPLING

COMMENTS: Metals - As, Cd, Fe, Cr, Cu, Pb, Mn, Ni, Se, Zn

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	601/602	8015 Ketones	625	608 Pest/PCBs	Phosphorous	Metals	pH				REMARKS	PARADIGM LAB SAMPLE NUMBER
1	9/22/05	1425		X	Effluent	Water	10	X	X	X	X	X	X	X				plus 1 extra liter for	11678
2																		625 QC	
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☑	PRESERVATIONS: ☑	HOLDING TIME: ☑	TEMPERATURE: ☐
	GLASS, PLASTIC, VOA			18°

Sampled By: Dennis Peck	Date/Time: 9/22/05 1430	Relinquished By: Dennis M Peck	Date/Time: 9/22/05 1520
Relinquished By:	Date/Time:	Received By:	Date/Time: 9/22/05 1520
Received By:	Date/Time:	Received @ Lab By:	Date/Time: 9/22/05 1540

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client:	City of Rochester	**Lab Project No.:**	05-3492
Client Job Site:	RFA Monthly Sampling	**Date Sampled:**	10/12/2005
		Time Sampled:	11:10 AM
Client Job No.:	DEQ - 98045	**Date Received:**	10/12/2005
Sample Type:	Water	**Date Analyzed:**	10/12/2005
Method:	EPA 150.1	**Time Analyzed:**	1:20 PM
		Location :	Lab

Laboratory Report for pH Analysis

Lab Sample No.	Field ID No.	Field Location	pH Results (S.U.)
12290	N/A	Effluent	7.60

ELAP ID No.: 10958

Comments:

Approved By: _____
Bruce Hoogesteger, Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information. including compliance with sample condition requirements upon receipt.

File ID:053492.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester - DEQ
Client Job Site: RFA - Monthly Sampling
Client Job No.: DEQ - 98045

Lab Project No.: 05-3492
Sample Type: Water
Analytical Method: EPA 365.2
Date Sampled: 10/12/2005
Date Received: 10/12/2005
Date Analyzed: 10/19/2005

Lab Sample ID.	Sample Location/Field ID	Total Phosphorus (mg/l)
12290	Effluent	4.10

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhosphorus05-3492.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester

Client Job Site: RFA Monthly Sampling

Client Job No.: DEQ - 98045

Field Location: Effluent
Field ID No.: N/A

Lab Project No. 05-3492
Lab Sample No. 12290

Sample Type: Water

Date Sampled: 10/12/2005
Date Received: 10/12/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	10/17/2005	EPA 200.7	0.014
Cadmium	10/17/2005	EPA 200.7	<0.005
Chromium	10/17/2005	EPA 200.7	<0.010
Copper	10/17/2005	EPA 200.7	<0.010
Iron	10/17/2005	EPA 200.7	0.666
Lead	10/17/2005	EPA 200.7	<0.005
Manganese	10/17/2005	EPA 200.7	0.028
Nickel	10/17/2005	EPA 200.7	<0.040
Selenium	10/18/2005	EPA 200.7	<0.005
Zinc	10/17/2005	EPA 200.7	<0.020

ELAP ID No.:10958

Comments: The sample duplicate was 27.4% difference for Arsenic.

Approved By: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3492
		Lab Sample Number:	12290
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	10/12/2005
Field ID Number:	N/A	**Date Received:**	10/12/2005
Sample Type:	Water	**Date Analyzed:**	10/18/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.200
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.200
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.200
Toxaphene	ND< 0.100

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3492
		Lab Sample Number:	12290
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	10/12/2005
Field ID Number:	N/A	**Date Received:**	10/12/2005
Sample Type:	Water	**Date Analyzed:**	10/18/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Base Fraction)

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3492
		Lab Sample Number:	12290
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	10/12/2005
Field ID Number:	N/A	**Date Received:**	10/12/2005
Sample Type:	Water	**Date Analyzed:**	10/17/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	ND< 10.0	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: S27099.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3492
		Lab Sample Number:	12290
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	10/12/2005
Field ID Number:	N/A	**Date Received:**	10/12/2005
Sample Type:	Water	**Date Analyzed:**	10/17/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: S27094.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3492
		Lab Sample Number:	N/A
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	10/12/2005
Field ID Number:	N/A	**Date Received:**	10/12/2005
Sample Type:	Water	**Date Analyzed:**	10/18/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	45.6
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	11.9	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00		

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32535.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	**Lab Project Number:**	05-3492
		Lab Sample Number:	12290
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	10/12/2005
Field ID Number:	N/A	**Date Received:**	10/12/2005
Sample Type:	Water	**Date Analyzed:**	10/18/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 2.00

Ketones	Results in ug / L
Acetone	ND< 10.0
2-Butanone	ND< 5.00
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

Aromatics	Results in ug / L
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00
Styrene	ND< 2.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

ELAP Number 10958 Method: EPA 8015 Modified Data File: V32535.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
COMPANY: CITY OF ROCHESTER	COMPANY:	LAB PROJECT #: 05-3492 / CLIENT PROJECT #:
ADDRESS: 30 CHURCH STREET, ROOM 300B	ADDRESS:	
CITY: ROCHESTER STATE: NY ZIP: 14614	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)
PHONE: 585-428-6884 FAX: 585-428-6010	PHONE: FAX:	STD / OTHER
ATTN: DENNIS PECK	ATTN:	1 [ ] 2 [ ] 3 [ ] 5 [X] [ ]
COMMENTS:		

PROJECT NAME/SITE NAME:
RFA Monthly sampling
DEQ-98045

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	601/602	8015	625	608 Pest/PCBs	Phosphorous	Metals	pH				REMARKS	PARADIGM LAB SAMPLE NUMBER
1	10/12/05	11 IC		X	Effluent	Water	10	X	X	X	X	X	X	X				plus 1 extra liter	12290
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:
CONTAINER TYPE: [✓] MIXED
PRESERVATIONS: [✓] @ lab
HOLDING TIME: [✓]
TEMPERATURE: [ ] 16°

Sampled By: Dennis Peck	Date/Time: 10/12/05 11 IC	Relinquished By:	Date/Time:
Relinquished By: Dennis Peck	Date/Time: 10/12/05 12 35	Received By:	Date/Time:
Received By:	Date/Time: 10/12/05 12 35 pm	Received @ Lab By:	Date/Time: 10/12/05 1310

Total Cost:

P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Client Job Site: RFA Quarterly Sampling DEQ - 98045

Client Job No.: N/A

Field Location: Effluent

Lab Project No.: 05-3993
Lab Sample No.: 13621

Sample Type: Water

Date Sampled: 11/22/2005
Date Received: 11/22/2005

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
T. Phosphorus	11/28/05	EPA 365.2	15.3

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____

Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhos05-3993.xls

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester

Client Job Site: RFA Quarterly sampling DEQ-98045

Client Job No.: N/A

Field Location: Effluent

Field ID No.: N/A

Lab Project No.: 05-3993

Lab Sample No.: 13621

Sample Type: Water

Date Sampled: 11/22/2005

Date Received: 11/22/2005

Laboratory Report for Metals Analysis in Waters

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	11/29/2005	EPA 200.7	0.008
Cadmium	11/29/2005	EPA 200.7	<0.005
Chromium	11/29/2005	EPA 200.7	<0.010
Copper	11/29/2005	EPA 200.7	<0.010
Iron	11/29/2005	EPA 200.7	2.45
Lead	11/29/2005	EPA 200.7	<0.005
Manganese	11/29/2005	EPA 200.7	0.268
Nickel	11/29/2005	EPA 200.7	<0.040
Selenium	11/29/2005	EPA 200.7	<0.005
Zinc	11/29/2005	EPA 200.7	<0.020

ELAP ID No. 10958

Comments:

Approved By: Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester

Client Job Site: RFA Quarterly sampling DEQ-98045

Client Job No.: N/A

Field Location: Influent

Field ID No.: N/A

Lab Project No.: 05-3993

Lab Sample No.: 13622

Sample Type: Water

Date Sampled: 11/22/2005

Date Received: 11/22/2005

Laboratory Report for Metals Analysis in Waters

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	11/29/2005	EPA 200.7	0.006
Cadmium	11/29/2005	EPA 200.7	<0.005
Calcium	11/29/2005	EPA 200.7	146
Chromium	11/29/2005	EPA 200.7	<0.010
Copper	11/29/2005	EPA 200.7	<0.010
Iron	11/29/2005	EPA 200.7	2.46
Lead	11/29/2005	EPA 200.7	<0.040
Magnesium	11/29/2005	EPA 200.7	43.3
Manganese	11/29/2005	EPA 200.7	0.318
Nickel	11/29/2005	EPA 200.7	<0.040
Selenium	11/29/2005	EPA 200.7	<0.005
Zinc	11/29/2005	EPA 200.7	<0.020

ELAP ID No.: 10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Client Job Site: RFA Quarterly Sampling DEC - 98045

Client Job No.: N/A

Lab Project No.: 05-3993

Sample Type: Water

Analytical Method: EPA 310.1

Date Sampled: 11/22/2005

Date Received: 11/22/2005

Date Analyzed: 11/28/2005

Lab Sample ID	Sample Location/Field ID	Alkalinity, as CaCO3 (mg/l)
13622	Influent	450.0

ELAP ID No.: 10709

Comments: ND denotes non-detected.

Approved By Technical Director: Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: Alkalinity05-3993.xls

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

pH Analysis Report

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
Client Job Number:	DEQ-98045	**Date Sampled:**	11/22/2005
		Time Sampled:	12:30 - 12:40
		Date Received:	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/22/2005
Location:	Laboratory	**Time Analyzed:**	2:45 PM

Lab Sample Number	Field Number	Field Location	Result (pH)
13621	N/A	Effluent	7.90
13622	N/A	Influent	6.94

ELAP Number 10958

Method: EPA 150.1

Comments:

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 053993PH.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 - (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
		Lab Sample Number:	13621
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	11/22/2005
Field ID Number:	N/A	**Date Received:**	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/30/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	0.411
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: 

Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue, Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
		Lab Sample Number:	13622
Client Job Number:	DEQ-98045		
Field Location:	Influent	**Date Sampled:**	11/22/2005
Field ID Number:	N/A	**Date Received:**	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/30/2005

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	1.73
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	0.117
Heptachlor	ND< 0.100
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
		Lab Sample Number:	13621
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	11/22/2005
Field ID Number:	N/A	**Date Received:**	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/30/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
		Lab Sample Number:	13622
Client Job Number:	DEQ-980145		
Field Location:	Influent	**Date Sampled:**	11/22/2005
Field ID Number:	N/A	**Date Received:**	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/30/2005

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
		Lab Sample Number:	13621
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	11/22/2005
Field ID Number:	N/A	**Date Received:**	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/28/2005

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: S27476.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Base Fraction)

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
		Lab Sample Number:	13621
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	11/22/2005
Field ID Number:	N/A	**Date Received:**	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/28/2005

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) anthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	31.3	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: S27482.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
		Lab Sample Number:	13621
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	11/22/2005
Field ID Number:	N/A	**Date Received:**	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/30/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 4.00	trans-1,2-Dichloroethene	ND< 4.00
Bromomethane	ND< 4.00	1,2-Dichloropropane	ND< 4.00
Bromoform	ND< 4.00	cis-1,3-Dichloropropene	ND< 4.00
Carbon Tetrachloride	ND< 4.00	trans-1,3-Dichloropropene	ND< 4.00
Chloroethane	ND< 4.00	Methylene chloride	ND< 10.0
Chloromethane	ND< 4.00	1,1,2,2-Tetrachloroethane	ND< 4.00
2-Chloroethyl vinyl Ether	ND< 4.00	Tetrachloroethene	ND< 4.00
Chloroform	ND< 4.00	1,1,1-Trichloroethane	14.2
Dibromochloromethane	ND< 4.00	1,1,2-Trichloroethane	ND< 4.00
1,1-Dichloroethane	14.1	Trichloroethene	ND< 4.00
1,2-Dichloroethane	ND< 4.00	Trichlorofluoromethane	ND< 4.00
1,1-Dichloroethene	ND< 4.00	Vinyl chloride	ND< 4.00

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 1.40	1,2-Dichlorobenzene	ND< 4.00
Chlorobenzene	ND< 4.00	1,3-Dichlorobenzene	ND< 4.00
Ethylbenzene	ND< 4.00	1,4-Dichlorobenzene	ND< 4.00
Toluene	5.34		

ELAP Number 10958 Method: EPA 601 / 602 Data File: V33365.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
		Lab Sample Number:	13621
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	11/22/2005
Field ID Number:	N/A	**Date Received:**	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/30/2005

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 4.00

Ketones	Results in ug / L
Acetone	64.8
2-Butanone	61.4
2-Hexanone	ND< 10.0
4-Methyl-2-pentanone	ND< 10.0

Aromatics	Results in ug / L
m,p-Xylene	ND< 4.00
o-Xylene	ND< 4.00
Styrene	ND< 4.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 10.0
Vinyl acetate	ND< 10.0

ELAP Number 10958 Method: EPA 8015 Modified Data File: V33365.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Quarterly Sampling	**Lab Project Number:**	05-3993
		Lab Sample Number:	13622
Client Job Number:	DEQ-98045		
Field Location:	Influent	**Date Sampled:**	11/22/2005
Field ID Number:	N/A	**Date Received:**	11/22/2005
Sample Type:	Water	**Date Analyzed:**	11/30/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 1,000	trans-1,2-Dichloroethene	ND< 1,000
Bromomethane	ND< 1,000	1,2-Dichloropropane	ND< 1,000
Bromoform	ND< 1,000	cis-1,3-Dichloropropene	ND< 1,000
Carbon Tetrachloride	ND< 1,000	trans-1,3-Dichloropropene	ND< 1,000
Chloroethane	ND< 1,000	Methylene chloride	ND< 2,500
Chloromethane	ND< 1,000	1,1,2,2-Tetrachloroethane	ND< 1,000
2-Chloroethyl vinyl Ether	ND< 1,000	Tetrachloroethene	ND< 1,000
Chloroform	ND< 1,000	1,1,1-Trichloroethane	16,200
Dibromochloromethane	ND< 1,000	1,1,2-Trichloroethane	ND< 1,000
1,1-Dichloroethane	1,610	Trichloroethene	ND< 1,000
1,2-Dichloroethane	ND< 1,000	Trichlorofluoromethane	ND< 1,000
1,1-Dichloroethene	ND< 1,000	Vinyl chloride	ND< 1,000

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 350	1,2-Dichlorobenzene	ND< 1,000
Chlorobenzene	ND< 1,000	1,3-Dichlorobenzene	ND< 1,000
Ethylbenzene	ND< 1,000	1,4-Dichlorobenzene	ND< 1,000
Toluene	1,740		

ELAP Number 10958 Method: EPA 601 / 602 Data File: v33366.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester

Client Job Site: RFA Quarterly sampling DEQ-98045

Client Job No.: N/A

Lab Project No.: 05-3993

Sample Type: Water
Method: EPA 200.7
Date Sampled: 11/22/2005
Date Received: 11/22/2005
Date Analyzed: 11/29/2005

Laboratory Report for Total Hardness

Lab Sample No.:	Field ID	Field Location	Total Hardness (mg/L)
13622	N/A	Influent	542.00

ELAP ID No.:10958

Comments:

Approved By: _____
Bruce Hoogesteger Technical Director

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PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(718) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:
COMPANY: CITY OF ROCHESTER
ADDRESS: 30 CHURCH STREET, ROOM 300B
CITY: ROCHESTER STATE: NY ZIP: 14614
PHONE: 585-428-6884 FAX: 585-428-6010
ATTN: DENNIS PECK

INVOICE TO:
COMPANY:
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #: 05-3993
CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)
STD: [X] 5 DAYS OTHER: [ ] 1 [ ] 2 [ ] 3

PROJECT NAME/SITE NAME:
RFA Quarterly sampling
DEQ-98045

COMMENTS: As, Fe, Cd, Cr, Cu, Pb, Mn, Ni, Se, Zn

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	601/602	8015	625	608 Pest/PCBs	Phosphorous	Metals	pH	Alkalinity	Hardness		REMARKS	PARADIGM LAB SAMPLE NUMBER
1	11/22/05	~~DNP~~ 1240		X	Effluent	Water	10	X	X	X	X	X	X	X				plus 1 extra liter	1 3 6 2 1
2	11/22/05	1225		X	Influent	Water	6	X			X		X	X	X	X			1 3 6 2 2
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation:
CONTAINER TYPE: [✓] MIXED
PRESERVATIONS: [✓] WAR
HOLDING TIME: [✓]
TEMPERATURE: 10° [ ]

Sampled By: Dennis Peck
Date/Time: 11/22/05 1240

Relinquished By: Dennis M Peck
Date/Time: 11/22/05 13[illegible]

Received By:
Date/Time: 11/22 1310

Relinquished By:
Date/Time:

Received By:
Date/Time:

Received @ Lab By:
Date/Time: 11/22/05 1335

Total Cost:

P.I.F.

12/01/2005 04:56 15856473311

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13021
Client Job Number:	DEQ-98045		
Field Location:	MW 6I	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/08/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	5.92

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32980.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13022
Client Job Number:	DEQ-98045		
Field Location:	MW 7I	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/07/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	2.18
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	234
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	111	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	6.45	Vinyl chloride	43.5

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	2.15	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32951.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13023
Client Job Number:	DEQ-98045		
Field Location:	MW 7D	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/07/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32952.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13024
Client Job Number:	DEQ-98045		
Field Location:	MW 7S	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/08/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 20.0	trans-1,2-Dichloroethene	ND< 20.0
Bromomethane	ND< 20.0	1,2-Dichloropropane	ND< 20.0
Bromoform	ND< 20.0	cis-1,3-Dichloropropene	ND< 20.0
Carbon Tetrachloride	ND< 20.0	trans-1,3-Dichloropropene	ND< 20.0
Chloroethane	ND< 20.0	Methylene chloride	ND< 50.0
Chloromethane	ND< 20.0	1,1,2,2-Tetrachloroethane	ND< 20.0
2-Chloroethyl vinyl Ether	ND< 20.0	Tetrachloroethene	ND< 20.0
Chloroform	ND< 20.0	1,1,1-Trichloroethane	338
Dibromochloromethane	ND< 20.0	1,1,2-Trichloroethane	ND< 20.0
1,1-Dichloroethane	943	Trichloroethene	ND< 20.0
1,2-Dichloroethane	ND< 20.0	Trichlorofluoromethane	ND< 20.0
1,1-Dichloroethene	ND< 20.0	Vinyl chloride	106

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 7.00	1,2-Dichlorobenzene	ND< 20.0
Chlorobenzene	ND< 20.0	1,3-Dichlorobenzene	ND< 20.0
Ethylbenzene	ND< 20.0	1,4-Dichlorobenzene	ND< 20.0
Toluene	ND< 20.0	Methyl tert-butyl Ether	ND< 20.0

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32981.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13025
Client Job Number:	DEQ-98045		
Field Location:	MW 8I	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/07/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	3.89	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	99.5

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32954.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13026
Client Job Number:	DEQ-98045		
Field Location:	MW 9D	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/07/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	36.5

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32955.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13027
Client Job Number:	DEQ-98045		
Field Location:	MW 10I	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/07/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	8.20

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32956.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13028
Client Job Number:	DEQ-98045		
Field Location:	MW 10S	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/07/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32957.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13029
Client Job Number:	DEQ-98045		
Field Location:	MW 11I	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/07/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	81.9

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32958.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
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Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA semi-annual GW sampling	**Lab Project Number:**	05-3748
		Lab Sample Number:	13030
Client Job Number:	DEQ-98045		
Field Location:	MW 15S	**Date Sampled:**	11/03/2005
Field ID Number:	N/A	**Date Received:**	11/03/2005
Sample Type:	Water	**Date Analyzed:**	11/07/2005

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00	trans-1,2-Dichloroethene	ND< 2.00
Bromomethane	ND< 2.00	1,2-Dichloropropane	ND< 2.00
Bromoform	ND< 2.00	cis-1,3-Dichloropropene	ND< 2.00
Carbon Tetrachloride	ND< 2.00	trans-1,3-Dichloropropene	ND< 2.00
Chloroethane	ND< 2.00	Methylene chloride	ND< 5.00
Chloromethane	ND< 2.00	1,1,2,2-Tetrachloroethane	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Tetrachloroethene	ND< 2.00
Chloroform	ND< 2.00	1,1,1-Trichloroethane	ND< 2.00
Dibromochloromethane	ND< 2.00	1,1,2-Trichloroethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00	Trichloroethene	ND< 2.00
1,2-Dichloroethane	ND< 2.00	Trichlorofluoromethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00	Vinyl chloride	ND< 2.00

Aromatics	Results in ug / L	Compounds	Results in ug / L
Benzene	ND< 0.700	1,2-Dichlorobenzene	ND< 2.00
Chlorobenzene	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
Toluene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00

ELAP Number 10958 Method: EPA 601 / 602 Data File: V32959.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
COMPANY: CITY OF ROCHESTER	COMPANY:	LAB PROJECT #: 05-3748 / CLIENT PROJECT #:
ADDRESS: 30 CHURCH STREET, ROOM 300B	ADDRESS:	
CITY: ROCHESTER STATE: NY ZIP: 14614	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS) STD [X] 5 OTHER [ ] 1 [ ] 2 [ ] 3
PHONE: 585-428-6884 FAX: 585-428-6010	PHONE: FAX:	
ATTN: DENNIS PECK	ATTN:	

PROJECT NAME/SITE NAME: RFA semi-annual GW samplir DEQ-98045

COMMENTS:

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	601/602 + MTBE	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	11/3/05	1500		X	MW 6I	Water	2	X		L13021
2		1105		X	MW 7I	Water	2	X		L13022
3		1125		X	MW 7D	Water	2	X		L13023
4		1140		X	MW 7S	Water	2	X		L13024
5		1200		X	MW 8I	Water	2	X		L13025
6		1025		X	MW 9D	Water	2	X		L13026
7		1330		X	MW 10I	Water	2	X		L13027
8		1310		X	MW 10S	Water	2	X		L13028
9		1240		X	MW 11I	Water	2	X		L13029
10		1155		X	MW 15S	Water	2	X		L13030

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:

CONTAINER TYPE: [✓] VOA | PRESERVATIONS: [✓] ZZ | HOLDING TIME: [✓] | TEMPERATURE: [ ] 17°

Sampled By: Dennis Peck Date/Time: 11/3/05 1535

Relinquished By: Dennis M Peck Date/Time: 11/3/05 1535

Received By: Date/Time: 11/3/05 1535

Relinquished By: Date/Time:

Received By: Date/Time:

Received @ Lab By: Date/Time: 11/3/05 1550

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

PCB Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly sampling	**Lab Project Number:**	05-4350
		Lab Sample Number:	14830
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	12/29/2005
Field ID Number:	N/A	**Date Received:**	12/29/2005
Sample Type:	Water	**Date Analyzed:**	01/03/2006

PCB Identification	Results in ug / L
Aroclor 1016	ND< 1.00
Aroclor 1221	ND< 1.00
Aroclor 1232	ND< 1.00
Aroclor 1242	ND< 1.00
Aroclor 1248	ND< 1.00
Aroclor 1254	ND< 1.00
Aroclor 1260	ND< 1.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Pesticide Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly sampling	**Lab Project Number:**	05-4350
		Lab Sample Number:	14830
Client Job Number:	DEQ-98045		
Field Location:	Effluent	**Date Sampled:**	12/29/2005
Field ID Number:	N/A	**Date Received:**	12/29/2005
Sample Type:	Water	**Date Analyzed:**	01/03/2006

Pesticide Identification	Results in ug / L
Aldrin	ND< 0.100
alpha-BHC	ND< 0.100
beta-BHC	ND< 0.100
delta-BHC	ND< 0.100
gamma-BHC	ND< 0.100
alpha-Chlordane	ND< 0.100
gamma-Chlordane	ND< 0.100
4,4'-DDD	ND< 0.100
4,4'-DDE	ND< 0.100
4,4'-DDT	ND< 0.100
Dieldrin	ND< 0.100
Endosulfan I	ND< 0.100
Endosulfan II	ND< 0.100
Endosulfan Sulfate	ND< 0.100
Endrin	ND< 0.100
Endrin Aldehyde	ND< 0.100
Heptachlor	0.343
Heptachlor Epoxide	ND< 0.100
Methoxychlor	ND< 0.100
Toxaphene	ND< 5.00

ELAP Number 10958 Method: EPA 608

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647-2530 FAX (585) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: City of Rochester

Client Job Site: RFA Monthly Sampling
DEQ-98045

Client Job No.: Not Provided

Lab Project No.: 05-4350

Sample Type: Water
Analytical Method: EPA 365.2
Date Sampled: 12/29/2005
Date Received: 12/29/2005
Date Analyzed: 1/5/2006

Lab Sample ID.	Sample Location/Field ID	Total Phosphate (mg/l)
14830	Effluent	1.30

ELAP ID No. 10709

Comments: ND denotes non-detected.

Approved By Technical Director: Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: TPhosp05-4350.xls

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	Lab Project Number:	05-4350
		Lab Sample Number:	14830
Client Job Number:	DEQ-98045		
Field Location:	Effluent	Date Sampled:	12/29/2005
Field ID Number:	N/A	Date Received:	12/29/2005
Sample Type:	Water	Date Analyzed:	01/06/2006

Halocarbons	Results in ug / L
2-Chloroethyl vinyl Ether	ND< 5.00

Ketones	Results in ug / L
Acetone	119
2-Butanone	143
2-Hexanone	ND< 12.5
4-Methyl-2-pentanone	29.8

Aromatics	Results in ug / L
m,p-Xylene	ND< 5.00
o-Xylene	ND< 5.00
Styrene	ND< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 12.5
Vinyl acetate	ND< 12.5

ELAP Number 10958 Method: EPA 8015 Modified Data File: V33986.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	Lab Project Number:	05-4350
		Lab Sample Number:	14830
Client Job Number:	DEQ-98045		
Field Location:	Effluent	Date Sampled:	12/29/2005
Field ID Number:	N/A	Date Received:	12/29/2005
Sample Type:	Water	Date Analyzed:	01/06/2006

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 5.00	trans-1,2-Dichloroethene	ND< 5.00
Bromomethane	ND< 5.00	1,2-Dichloropropane	ND< 5.00
Bromoform	ND< 5.00	cis-1,3-Dichloropropene	ND< 5.00
Carbon Tetrachloride	ND< 5.00	trans-1,3-Dichloropropene	ND< 5.00
Chloroethane	ND< 5.00	Methylene chloride	ND< 12.5
Chloromethane	ND< 5.00	1,1,2,2-Tetrachloroethane	ND< 5.00
2-Chloroethyl vinyl Ether	ND< 5.00	Tetrachloroethene	ND< 5.00
Chloroform	ND< 5.00	1,1,1-Trichloroethane	352
Dibromochloromethane	ND< 5.00	1,1,2-Trichloroethane	ND< 5.00
1,1-Dichloroethane	20.8	Trichloroethene	ND< 5.00
1,2-Dichloroethane	5.38	Trichlorofluoromethane	ND< 5.00
1,1-Dichloroethene	5.88	Vinyl chloride	6.75

Aromatics	Results in ug / L	Aromatics	Results in ug / L
Benzene	ND< 1.75	1,2-Dichlorobenzene	ND< 5.00
Chlorobenzene	ND< 5.00	1,3-Dichlorobenzene	ND< 5.00
Ethylbenzene	ND< 5.00	1,4-Dichlorobenzene	ND< 5.00
Toluene	13.8		

ELAP Number 10958 Method: EPA 601 / 602 Data File: V33986.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water (Acid Fraction)

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	Lab Project Number:	05-4350
		Lab Sample Number:	14830
Client Job Number:	DEQ-98045		
Field Location:	Effluent	Date Sampled:	12/29/2005
Field ID Number:	N/A	Date Received:	12/29/2005
Sample Type:	Water	Date Analyzed:	01/03/2006

Acids	Results in ug / L	Acids	Results in ug / L
Phenol	ND< 10.0	2,4-Dimethylphenol	ND< 10.0
2-Chlorophenol	ND< 10.0	2-Nitrophenol	ND< 10.0
2,4-Dichlorophenol	ND< 10.0	4-Nitrophenol	ND< 25.0
2,4,6-Trichlorophenol	ND< 10.0	2,4-Dinitrophenol	ND< 10.0
Pentachlorophenol	ND< 25.0	4,6-Dinitro-2-methylphenol	ND< 25.0
4-Chloro-3-methylphenol	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: S27876.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water

Client: City of Rochester

Client Job Site:	RFA Monthly Sampling	Lab Project Number:	05-4350
		Lab Sample Number:	14830
Client Job Number:	DEQ-98045		
Field Location:	Effluent	Date Sampled:	12/29/2005
Field ID Number:	N/A	Date Received:	12/29/2005
Sample Type:	Water	Date Analyzed:	01/03/2006

Base / Neutrals	Results in ug / L	Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0	Dibenz (a,h) anthracene	ND< 10.0
Anthracene	ND< 10.0	Fluoranthene	ND< 10.0
Benzo (a) enthracene	ND< 10.0	Fluorene	ND< 10.0
Benzo (a) pyrene	ND< 10.0	Indeno (1,2,3-cd) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0	Naphthalene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0	Phenanthrene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0	Pyrene	ND< 10.0
Chrysene	ND< 10.0	Acenaphthylene	ND< 10.0
Diethyl phthalate	20.4	1,2-Dichlorobenzene	ND< 10.0
Dimethyl phthalate	ND< 25.0	1,3-Dichlorobenzene	ND< 10.0
Butylbenzylphthalate	ND< 10.0	1,4-Dichlorobenzene	ND< 10.0
Di-n-butyl phthalate	ND< 10.0	1,2,4-Trichlorobenzene	ND< 10.0
Di-n-octylphthalate	ND< 10.0	Nitrobenzene	ND< 10.0
Bis (2-ethylhexyl) phthalate	ND< 10.0	2,4-Dinitrotoluene	ND< 10.0
2-Chloronaphthalene	ND< 10.0	2,6-Dinitrotoluene	ND< 10.0
Hexachlorobenzene	ND< 10.0	Bis (2-chloroethyl) ether	ND< 10.0
Hexachloroethane	ND< 10.0	Bis (2-chloroisopropyl) ether	ND< 10.0
Hexachlorocyclopentadiene	ND< 10.0	Bis (2-chloroethoxy) methan	ND< 10.0
Hexachlorobutadiene	ND< 10.0	4-Bromophenyl phenyl ether	ND< 10.0
N-Nitroso-di-n-propylamine	ND< 10.0	4-Chlorophenyl phenyl ether	ND< 10.0
N-Nitrosodiphenylamine	ND< 10.0	Benzidine	ND< 25.0
N-Nitrosodimethylamine	ND< 10.0	3,3'-Dichlorobenzidine	ND< 10.0
Isophorone	ND< 10.0		

ELAP Number 10958 Method: EPA 625 Data File: S27879.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 (585) 647-2530 FAX (585) 647-3311

Client: City of Rochester
Client Job Site: RFA Monthly Sampling
Client Job No.: DEQ - 98045
Field Location: Effluent
Field ID No.: N/A

Lab Project No.: 05-4350
Lab Sample No. 14830
Sample Type: Water
Date Sampled: 12/29/2005
Date Received: 12/29/2005

Laboratory Report for Metals Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/L)
Arsenic	01/04/2006	EPA 200.7	0.026
Cadmium	01/04/2006	EPA 200.7	<0.005
Chromium	01/04/2006	EPA 200.7	<0.010
Copper	01/04/2006	EPA 200.7	<0.010
Iron	01/04/2006	EPA 200.7	2.64
Lead	01/04/2006	EPA 200.7	<0.005
Manganese	01/04/2006	EPA 200.7	0.334
Nickel	01/04/2006	EPA 200.7	<0.040
Selenium	01/04/2006	EPA 200.7	<0.005
Zinc	01/04/2006	EPA 200.7	0.035

ELAP ID No.: 10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.

pH Analysis Report

Client: City of Rochester

Client Job Site:	RFA Monthly sampling	Lab Project Number:	05-4350
Client Job Number:	DEQ-98045	Date Sampled:	12/29/05
		Time Sampled:	10:40 AM
		Date Received:	12/29/05
Sample Type:	Water	Date Analyzed:	12/29/05
Location:	Laboratory	Time Analyzed:	12:45 PM

Lab Sample Number	Field Number	Field Location	Result (pH)
14830	N/A	Effluent	8.08

ELAP Number 10958 Method: EPA 150.1

Comments:

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 054350P1.XLS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
COMPANY: CITY OF ROCHESTER	COMPANY:	LAB PROJECT #: 05-4350 / CLIENT PROJECT #:
ADDRESS: 30 CHURCH STREET, ROOM 300B	ADDRESS:	
CITY: ROCHESTER STATE: NY ZIP: 14614	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)
PHONE: 585-428-6884 FAX: 585-428-6010	PHONE: FAX:	STD / OTHER
ATTN: DENNIS PECK	ATTN:	1 [ ] 2 [ ] 3 [X] 5 [ ]
COMMENTS: As, Fe, Cd, Cr, Cu, Pb, Mn, Ni, Se, Zn		

PROJECT NAME/SITE NAME:
RFA Monthly sampling
DEQ-98045

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	601/602	8015	625	608 Pest/PCBs	Phosphorous	Metals	pH				REMARKS	PARADIGM LAB SAMPLE NUMBER
1	12/29/05	1040		X	Effluent	Water	10	X	X	X	X	X	X	X				plus 1 extra liter	14830
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:
CONTAINER TYPE: [ ] PRESERVATIONS: [ ] HOLDING TIME: [ ] TEMPERATURE: [ ] 10°

Sampled By: Dennis Peck	Date/Time: 12/29/05 1040	Relinquished By:	Date/Time:
Relinquished By: Dennis Peck	Date/Time: 12/29/05 1202	Received By:	Date/Time:
Received By:	Date/Time: 12/29/05 1202	Received @ Lab By: Tom J Burgess	Date/Time: 12/29/05 1205

Total Cost:

P.I.F.

Appendic C
Air Emissions Mass Balance Calculations

City of Rochester - Division of Environmental Quality
Rochester Fire Academy Contaminant Recovery
Monitoring Period: February 28, 2005 to May 11, 2005

Parameter	AS Influent Contaminant Concentrations ug/l	AS Eff. (CD Influent) Contaminant Concentrations (ug/l)	Flow Rate Q (gal/min)	Constant (min/hr)	Constant (l/gal)	Constant (lb/ug)	Emissions Rate (lb/hr)	Hourly ERP Emissions (lb/hr)
Vinyl Chloride	ND(1000)	ND(2.0)	1.48	60.00	3.785	2.21E-009	0.0000	0.004
1,1-Dichloroethane	2,110.0	7.07	1.48	60.00	3.785	2.21E-009	0.0016	0.020
1,2-Dichloroethane	ND(1000)	3.78	1.48	60.00	3.785	2.21E-009	0.0000	0.001
1,1-Dichloroethene	ND(1000)	ND(2.0)	1.48	60.00	3.785	2.21E-009	0.0000	0.002
1,1,1-Trichloroethane	17,900.0	76.40	1.48	60.00	3.785	2.21E-009	0.0132	0.158
Trichloroethene	ND(1000)	3.00	1.48	60.00	3.785	2.21E-009	-0.0000	0.019
Toluene	1,890.0	2.38	1.48	60.00	3.785	2.21E-009	0.0014	0.002

* Notes: 1. Calculations assume the system is closed with no fugitive emissions.

City of Rochester - Division of Environmental Quality
Rochester Fire Academy Contaminant Recovery
Monitoring Period: May 11, 2005 to August 12, 2005

Parameter	AS Influent Contaminant Concentrations ug/l	AS Eff. (CD Influent) Contaminant Concentrations (ug/l)	Flow Rate Q (gal/min)	Constant (min/hr)	Constant (L/gal)	Constant (lb/ug)	Emissions Rate (lb/hr)	Hourly ERP Emissions (lb/hr)
Vinyl Chloride	1,230.0	ND(4.0)	2.32	60.00	3.785	2.21E-009	0.0014	0.004
1,1-Dichloroethane	2,300.0	11.5	2.32	60.00	3.785	2.21E-009	0.0027	0.020
1,2-Dichloroethane	ND(1000)	ND(4.0)	2.32	60.00	3.785	2.21E-009	0.0000	0.001
1,1-Dichloroethene	ND(1000)	ND(4.0)	2.32	60.00	3.785	2.21E-009	0.0000	0.002
1,1,1-Trichloroethane	20,100.0	70.7	2.32	60.00	3.785	2.21E-009	0.0233	0.158
Trichloroethene	ND(1000)	ND(4.0)	2.32	60.00	3.785	2.21E-009	0.0000	0.019
Toluene	3,340.0	11.9	2.32	60.00	3.785	2.21E-009	0.0039	0.002

* Notes: 1. Calculations assume the system is closed with no fugitive emissions.

City of Rochester - Division of Environmental Quality
Rochester Fire Academy Contaminant Recovery
Monitoring Period: August 12, 2005 to November 22, 2005

Parameter	AS Influent Contaminant Concentrations ug/l	AS Eff. (CD Influent) Contaminant Concentrations (ug/l)	Flow Rate Q (gal/min)	Constant (min/hr)	Constant (L/gal)	Constant (lb/ug)	Emissions Rate (lb/hr)	Hourly ERP Emissions (lb/hr)
Vinyl Chloride	ND(1000)	ND(4.0)	3.60	60.00	3.785	2.21E-009	0.0000	0.004
1,1-Dichloroethane	1,610.0	14.1	3.60	60.00	3.785	2.21E-009	0.0029	0.020
1,2-Dichloroethane	ND(1000)	ND(4.0)	3.60	60.00	3.785	2.21E-009	0.0000	0.001
1,1-Dichloroethene	ND(1000)	ND(4.0)	3.60	60.00	3.785	2.21E-009	0.0000	0.002
1,1,1-Trichloroethane	16,200.0	44.2	3.60	60.00	3.785	2.21E-009	0.0291	0.158
Trichloroethene	ND(1000)	ND(4.0)	3.60	60.00	3.785	2.21E-009	0.0000	0.019
Toluene	1,740.0	5.34	3.60	60.00	3.785	2.21E-009	0.0031	0.002

* Notes: 1. Calculations assume the system is closed with no fugitive emissions.

Appendix D
Quarterly Inspection and Maintenance Schedule Checklists

Rochester Fire Academy
Cover System Inspection Checklist

Date: 12/28/2004
Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling/ Ponding				✓	
f. Undesirable Species					
2. South Disposal Are	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling/ Ponding				✓	
f. Undesirable Species					
3. Training Grounds Area	✓				
a. Surface Coarse Integrity				✓	
b. Cracking				✓	
c. Potholes				✓	
d. Pooling/ Ponding				✓	
e. Undesirable Species					
4. Other Comments/ Problems:					

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Rochester Fire Academy
Groundwater Collection and Treatment System
Equipment Maintenance Schedule Checklist

Date: 12/28/2004
Inspected By: JMHF

Item	Maintenance Activity	Recommended Frequency	Date Performed	Notes
Sequestering Agent Feed Pumps	Replace Seal Rings	Annually	N/A	
	Replace Check Valve Balls	Annually	N/A	
	Replace Check Valve Springs	Annually	N/A	
Bag Filter Unit	Replace Bags	When differential pressure exceeds 10 psi	N/A	Unit #1: 12/28/2004 Unit #2: 12/28/2004
	Lubricate swing davits	Annually	N/A	
Feed Tank	Clean Solids	When necessary	N/A	
Air Stripper	Examine Trays	Bi-Weekly	N/A	
	Clean/ De-scale	Semi-annually*	N/A	
Activated Carbon Vessels	Backflush	When differential pressure exceeds 5 psi above clean container or 10 psi total	N/A	CDs taken off-line permanently 05/00.
	Replace	Based on analytical results	N/A	
Discharge Tank	Clean solids	As necessary	N/A	
* Frequency may need to be adjusted based on field observations.				

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Rochester Fire Academy

Storm Water Collection System Inspection Checklist

Date: 12/28/2004

Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)		Remarks
	Present	Not Present	
1. Drainage Channels			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Severe Cracking		✓	
d. Erosion		✓	
e. Slope Loss		✓	
2. South Disposal Are			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Broken Pipe		✓	
d. Slope Loss		✓	
e. Grate Clogging		✓	
3. Drainage Structures #1, #2, #3			
a. Flapper Valve Functioning	✓		
b. Broken/ Cracked pipe		✓	
c. Cracked headwall structure		✓	
4. Other Comments/ Problems:			

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Rochester Fire Academy
Cover System Inspection Checklist

Date: 02/28/2005
Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. ~~Pooling/ Ponding~~				✓	
f. Undesirable Species				✓	
2. South Disposal Are	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling/ Ponding				✓	
f. Undesirable Species				✓	
3. Training Grounds Area	✓				
a. Surface Coarse Integrity				✓	
b. Cracking				✓	
c. Potholes				✓	
d. Pooling/ Ponding				✓	
e. Undesirable Species				✓	
4. Other Comments/ Problems:					

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Rochester Fire Academy
Groundwater Collection and Treatment System
Equipment Maintenance Schedule Checklist

Date: 02/28/2005
Inspected By: JMHF

Item	Maintenance Activity	Recommended Frequency	Date Performed	Notes
Sequestering Agent Feed Pumps	Replace Seal Rings	Annually	N/A	
	Replace Check Valve Balls	Annually	N/A	
	Replace Check Valve Springs	Annually	N/A	
Bag Filter Unit	Replace Bags	When differential pressure exceeds 10 psi	N/A	Unit #2: 02/23/2005
	Lubricate swing davits	Annually	N/A	
Feed Tank	Clean Solids	When necessary	N/A	
Air Stripper	Examine Trays	Bi-Weekly	N/A	
	Clean/ De-scale	Semi-annually*	N/A	
Activated Carbon Vessels	Backflush	When differential pressure exceeds 5 psi above clean container or 10 psi total	N/A	CDs taken off-line permanently 05/00.
	Replace	Based on analytical results	N/A	
Discharge Tank	Clean solids	As necessary	N/A	
* Frequency may need to be adjusted based on field observations.				

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Rochester Fire Academy

Storm Water Collection System Inspection Checklist

Date: 02/28/2005

Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check) Present	Condition (Check) Not Present	Remarks
1. Drainage Channels			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Severe Cracking		✓	
d. Erosion		✓	
e. Slope Loss		✓	
2. South Disposal Are			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Broken Pipe		✓	
d. Slope Loss		✓	
e. Grate Clogging		✓	
3. Drainage Structures #1, #2, #3			
a. Flapper Valve Functioning	✓		
b. Broken/ Cracked pipe		✓	
c. Cracked headwall structure		✓	
4. Other Comments/ Problems:			

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Rochester Fire Academy
Cover System Inspection Checklist

Date: 05/11/2005
Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling/ Ponding				✓	
f. Undesirable Species					
2. South Disposal Are	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling/ Ponding				✓	
f. Undesirable Species					
3. Training Grounds Area	✓				
a. Surface Coarse Integrity				✓	
b. Cracking				✓	
c. Potholes				✓	
d. Pooling/ Ponding				✓	
e. Undesirable Species					
4. Other Comments/ Problems:					

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Rochester Fire Academy
Groundwater Collection and Treatment System
Equipment Maintenance Schedule Checklist

Date: 05/11/2005
Inspected By: JMHF

Item	Maintenance Activity	Recommended Frequency	Date Performed	Notes
Sequestering Agent Feed Pumps	Replace Seal Rings	Annually	N/A	
	Replace Check Valve Balls	Annually	N/A	
	Replace Check Valve Springs	Annually	N/A	
Bag Filter Unit	Replace Bags	When differential pressure exceeds 10 psi	N/A	Unit #1: 04/05/2005 Unit #2: 04/07/2005
	Lubricate swing davits	Annually	N/A	
Feed Tank	Clean Solids	When necessary	N/A	
Air Stripper	Examine Trays	Bi-Weekly	N/A	
	Clean/ De-scale	Semi-annually*	N/A	
Activated Carbon Vessels	Backflush	When differential pressure exceeds 5 psi above clean container or 10 psi total	N/A	CDs taken off-line permanently 05/00.
	Replace	Based on analytical results	N/A	
Discharge Tank	Clean solids	As necessary	N/A	
* Frequency may need to be adjusted based on field observations.				

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Rochester Fire Academy

Storm Water Collection System Inspection Checklist

Date: 05/11/2005

Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)		Remarks
	Present	Not Present	
1. Drainage Channels			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Severe Cracking		✓	
d. Erosion		✓	
e. Slope Loss		✓	
2. South Disposal Are			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Broken Pipe		✓	
d. Slope Loss		✓	
e. Grate Clogging		✓	
3. Drainage Structures #1, #2, #3			
a. Flapper Valve Functioning	✓		
b. Broken/ Cracked pipe		✓	
c. Cracked headwall structure		✓	
4. Other Comments/ Problems:			

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Rochester Fire Academy

Cover System Inspection Checklist

Date: 08/12/2005
Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling/ Ponding				✓	
f. Undesirable Species				✓	
2. South Disposal Are	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling/ Ponding				✓	
f. Undesirable Species				✓	
3. Training Grounds Area	✓				
a. Surface Coarse Integrity				✓	
b. Cracking				✓	
c. Potholes				✓	
d. Pooling/ Ponding				✓	
e. Undesirable Species				✓	
4. Other Comments/ Problems:					

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Rochester Fire Academy
Groundwater Collection and Treatment System
Equipment Maintenance Schedule Checklist

Date: 08/12/2005
Inspected By: JMHF

Item	Maintenance Activity	Recommended Frequency	Date Performed	Notes
Sequestering Agent Feed Pumps	Replace Seal Rings	Annually	N/A	
	Replace Check Valve Balls	Annually	N/A	
	Replace Check Valve Springs	Annually	N/A	
Bag Filter Unit	Replace Bags	When differential pressure exceeds 10 psi	N/A	
	Lubricate swing davits	Annually	N/A	
Feed Tank	Clean Solids	When necessary	N/A	
Air Stripper	Examine Trays	Bi-Weekly	N/A	
	Clean/ De-scale	Semi-annually*	N/A	
Activated Carbon Vessels	Backflush	When differential pressure exceeds 5 psi above clean container or 10 psi total	N/A	CDs taken off-line permanently 05/00.
	Replace	Based on analytical results	N/A	
Discharge Tank	Clean solids	As necessary	N/A	
* Frequency may need to be adjusted based on field observations.				

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Rochester Fire Academy

Storm Water Collection System Inspection Checklist

Date: 08/12/2005

Inspected By: JMHF

VISUAL EVALUATION ITEMS	Condition (Check)		Remarks
	Present	Not Present	
1. Drainage Channels			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Severe Cracking		✓	
d. Erosion		✓	
e. Slope Loss		✓	
2. South Disposal Are			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Broken Pipe		✓	
d. Slope Loss		✓	
e. Grate Clogging		✓	
3. Drainage Structures #1, #2, #3			
a. Flapper Valve Functioning	✓		
b. Broken/ Cracked pipe		✓	
c. Cracked headwall structure		✓	
4. Other Comments/ Problems:			

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Rochester Fire Academy
Cover System Inspection Checklist

Date: 11/22/2005
Inspected By: DP

VISUAL EVALUATION ITEMS	Condition (Check)				Remarks
	Acceptable	Not Acceptable	Present	Not Present	
1. North Disposal Area	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling/ Ponding				✓	
f. Undesirable Species					
2. South Disposal Are	✓				
a. Vegetative cover integrity				✓	
b. Erosion				✓	
c. Settling				✓	
d. Slope Loss				✓	
e. Pooling/ Ponding				✓	
f. Undesirable Species					
3. Training Grounds Area	✓				
a. Surface Coarse Integrity				✓	
b. Cracking				✓	
c. Potholes				✓	
d. Pooling/ Ponding				✓	
e. Undesirable Species					
4. Other Comments/ Problems:					

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Rochester Fire Academy
Groundwater Collection and Treatment System
Equipment Maintenance Schedule Checklist

Date: 11/22/2005
Inspected By: DP

Item	Maintenance Activity	Recommended Frequency	Date Performed	Notes
Sequestering Agent Feed Pumps	Replace Seal Rings	Annually	N/A	
	Replace Check Valve Balls	Annually	N/A	
	Replace Check Valve Springs	Annually	N/A	
Bag Filter Unit	Replace Bags	When differential pressure exceeds 10 psi	N/A	
	~~Lubricate swing davits~~	~~Annually~~	~~N/A~~	
Feed Tank	Clean Solids	When necessary	N/A	
Air Stripper	Examine Trays	Bi-Weekly	N/A	
	Clean/ De-scale	Semi-annually*	N/A	
Activated Carbon Vessels	Backflush	When differential pressure exceeds 5 psi above clean container or 10 psi total	N/A	CDs taken off-line permanently 05/00.
	Replace	Based on analytical results	N/A	
Discharge Tank	Clean solids	As necessary	N/A	
* Frequency may need to be adjusted based on field observations.				

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Rochester Fire Academy

Storm Water Collection System Inspection Checklist

Date: 11/22/2005

Inspected By: DP

VISUAL EVALUATION ITEMS	Condition (Check) Present	Condition (Check) Not Present	Remarks
1. Drainage Channels			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Severe Cracking		✓	
d. Erosion		✓	
e. Slope Loss		✓	
2. South Disposal Are			
a. Sediment Build-up		✓	
b. Pooling/ Ponding		✓	
c. Broken Pipe		✓	
d. Slope Loss		✓	
e. Grate Clogging		✓	
3. Drainage Structures #1, #2, #3			
a. Flapper Valve Functioning	✓		
b. Broken/ Cracked pipe		✓	
c. Cracked headwall structure		✓	
4. Other Comments/ Problems:			

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 12/28/2004 Location: *Groundwater Collection Trench*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Piezometers	Checked with water level indicator to ensure drawdown to desired elevation	Working	✔	
		Not Working		
2) Sediment Build-up in Manholes	Visually inspected manholes and pump station for sediment and obstructions	Present		
		Not Present	✔	
3) Settling Along Ground Surface	Visually inspected ground surface along collection trench	Settling		
		Not Settling	✔	
4) Manhole Covers	Visually inspected manhole and pump station covers	Present	✔	
		Not Present		
5) Pumps	Refer to Manufacturer's O&M manuals for inspection procedure	Checked	✔	
		Not Checked		
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		Pumps running within acceptable parameters. Confined space.
		No	✔	
2) Additional Maintenance Performed		none		
3) Additional Maintenance Performed				

C:\JANES MISCELLANEOUS (A tr)\JANESTUF\RFA Annual Reports\2005 Report\O&M Schedule 12-28-2004.wpd

Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 12/28/2004 Location: *Sequestering Agent Feed System*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Feed Pump	Visually inspected feed pump and its in-feed and out-feed lines	Acceptable Not Acceptable	✔	
2) Calibration	Checked calibration chamber to verify pumping rate	Calibrated Not Calibrated	✔	Approximately monthly
3) Sequestering Agent	Visually inspected sequestering agent, holding area and drums	Acceptable Not Acceptable	✔	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Calibrate Pumps	Calibrate pumps during every other (6 months) quarterly inspection	Yes No	✔	Occassional loss of pump prime required repriming and re-calibration.
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 12/28/2004 Location: *Filter Bag Unit(s)*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Filter Bag Unit(s)	Visually inspect overall system	Acceptable Not Acceptable	✔	
2) Filter Bags	Check pressure relief differential. Refer to O&M manual	Checked Not Checked	✔	Filter Bags in Filter Unit #1 changed and Filter Unit cleaned 12/28/2004. Filter Bags in Filter Unit #2 changed and Filter Unit cleaned 12/28/2004.
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Swing Davit	Apply a small amount of grease to the swing davit every other (6 months) quarterly inspection	Yes No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 12/28/2004 Location: *Feed Tank*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Feed Tank	Visually inspected tank for solids build-up	Solids Present	✔	
		Solids NOT Present		
2) Feed Tank	Visually inspected overall system	Acceptable	✔	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Tank	If solids build up, refer to O&M manual for procedure	Yes		
		No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 12/28/2004 Location: *Air Stripper and Feed Pumps*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Air Stripper	Visually inspected overall system	Acceptable	✔	
		Not Acceptable		
2) Stripper Trays	Visually inspected trays and checked air pressure	Acceptable	✔	
		Not Acceptable		
3) Feed Pumps	Visually inspected feed pumps and all lines	Acceptable	✔	
		Not Acceptable		
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		
		No	✔	
2) Stripper Trays	Clean trays every other (6 months) quarterly inspection, or when pressure is greater than 18" water	Yes		
		No	✔	
3) Additional Maintenance Performed				

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Rochester Fire Academy
Quarterly Inspection and Maintenance Schedule Checklist

Date: 12/28/2004 Location: *Activated Carbon System*
Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) System	Visually inspected overall system	Acceptable Not Acceptable		N/A - Carbon Drums no longer on-line.
2) Carbon Drums	Tested for PCB breakthrough	Present Not Present		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Carbon Drums	As part of routine maintenance, check pressure drop	Yes No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 12/28/2004 Location: *Instrumentation*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Instrumentation	Visually inspected overall system	Acceptable		GWTS Logic Controller Program panel damaged by lightning strike on or about July 28, 2004. The system was shut down until re-programming of the PLC could be completed.
		Not Acceptable	✔	
2) Instrumentation	Visually inspected each instrument	Acceptable		
		Not Acceptable	✔	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Instrumentation	Refer to each instrumentation manufacturer's O&M manual	Yes	✔	
		No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 12/28/2004 Location: *Building Sump Pit and Pumps*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) North Pump	Visually inspected overall system (pump and lines)	Acceptable	✔	
		Not Acceptable		
2) South Pump	Visually inspected shaft seal and motor	Acceptable	✔	
		Not Acceptable		
3) Sump Pit	Visually onspected pit for defects and obstructions	Acceptable	✔	
		Not Acceptable		
4) Floats	Visually inspected automatic floats	Acceptable	✔	
		Not Acceptable		
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to manufacturer's O&M manuals for maintenance	Yes		
		No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 12/28/2004 Location: *Treatment Building & Facility Access*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Building	Visually inspected overall appearance of the GWTP	Acceptable	✔	
		Not Acceptable		
2) Concrete	Visually inspected all concrete for cracks or other indications of structural failure	Acceptable	✔	
		Not Acceptable		
3) Building Enclosures	Visually inspected walls for bowing or indications of failure	Acceptable	✔	
		Not Acceptable		
4) Utilities	Visually inspected and checked utility service to entire building	Present	✔	
		Not Present		
5) Facility Access	Visually inspected roads, fences and gates	Acceptable	✔	
		Not Acceptable		
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Overhead Door	Apply grease to track as needed	Yes		Functioning properly.
		No	✔	
2) Facility Access System	See Table 7-1 of GWTP O&M manual	Yes		Functioning properly.
		No	✔	
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/28/2005 Location: *Groundwater Collection Trench*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Piezometers	Checked with water level indicator to ensure drawdown to desired elevation	Working Not Working	✔ 	
2) Sediment Build-up in Manholes	Visually inspected manholes and pump station for sediment and obstructions	Present Not Present	 ✔	
3) Settling Along Ground Surface	Visually inspected ground surface along collection trench	Settling Not Settling	 ✔	
4) Manhole Covers	Visually inspected manhole and pump station covers	Present Not Present	✔ 	
5) Pumps	Refer to Manufacturer's O&M manuals for inspection procedure	Checked Not Checked	 ✔	Pumps re-started and tested after reprogramming of PLC was completed on February 18, 2005.
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes No	 ✔	Pumps running within acceptable parameters. Confined space.
2) Additional Maintenance Performed		none		
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/28/2005 Location: *Sequestering Agent Feed System*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Feed Pump	Visually inspected feed pump and its in-feed and out-feed lines	Acceptable Not Acceptable	✔	LMI pump re-started and tested after reprogramming of PLC was completed on February 18, 2005.
2) Calibration	Checked calibration chamber to verify pumping rate	Calibrated Not Calibrated	✔	Approximately monthly
3) Sequestering Agent	Visually inspected sequestering agent holding area and drums	Acceptable Not Acceptable	✔	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Calibrate Pumps	Calibrate pumps during every other (6 months) quarterly inspection	Yes No	✔	Occassional loss of pump prime required repriming and re-calibration.
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/28/2005 Location: *Filter Bag Unit(s)*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Filter Bag Unit(s)	Visually inspect overall system	Acceptable Not Acceptable	✔	
2) Filter Bags	Check pressure relief differential. Refer to O&M manual	Checked Not Checked	✔	Filter Bags in Filter Unit #2 changed and Filter Unit cleaned 02/23/2005.
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Swing Davit	Apply a small amount of grease to the swing davit every other (6 months) quarterly inspection	Yes No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/28/2005 Location: *Feed Tank*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Feed Tank	Visually inspected tank for solids build-up	Solids Present	✔	
		Solids NOT Present		
2) Feed Tank	Visually inspected overall system	Acceptable	✔	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Tank	If solids build up, refer to O&M manual for procedure	Yes		
		No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/28/2005 Location: *Air Stripper and Feed Pumps*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Air Stripper	Visually inspected overall system	Acceptable	✔	AS re-started and tested after reprogramming of PLC was completed on February 18, 2005.
		Not Acceptable		
2) Stripper Trays	Visually inspected trays and checked air pressure	Acceptable	✔	
		Not Acceptable		
3) Feed Pumps	Visually inspected feed pumps and all lines	Acceptable	✔	
		Not Acceptable		
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		
		No	✔	
2) Stripper Trays	Clean trays every other (6 months) quarterly inspection, or when pressure is greater than 18" water	Yes		
		No	✔	
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/28/2005 Location: *Activated Carbon System*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) System	Visually inspected overall system	Acceptable Not Acceptable		N/A - Carbon Drums no longer on-line.
2) Carbon Drums	Tested for PCB breakthrough	Present Not Present		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Carbon Drums	As part of routine maintenance, check pressure drop	Yes No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/28/2005 Location: *Instrumentation*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Instrumentation	Visually inspected overall system	Acceptable Not Acceptable	✔	System instruments re-started and tested after reprogramming of PLC was completed on February 18, 2005.
2) Instrumentation	Visually inspected each instrument	Acceptable Not Acceptable	✔	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Instrumentation	Refer to each instrumentation manufacturer's O&M manual	Yes No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/28/2005 Location: *Building Sump Pit and Pumps*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) North Pump	Visually inspected overall system (pump and lines)	Acceptable	✔	
		Not Acceptable		
2) South Pump	Visually inspected shaft seal and motor	Acceptable	✔	
		Not Acceptable		
3) Sump Pit	Visually onspected pit for defects and obstructions	Acceptable	✔	
		Not Acceptable		
4) Floats	Visually inspected automatic floats	Acceptable	✔	
		Not Acceptable		
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to manufaeturer's O&M manuals for maintenance	Yes		
		No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 02/28/2005 Location: *Treatment Building & Facility Access*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Building	Visually inspected overall appearance of the GWTP	Acceptable	✔	
		Not Acceptable		
2) Concrete	Visually inspected all concrete for cracks or other indications of structural failure	Acceptable	✔	
		Not Acceptable		
3) Building Enclosures	Visually inspected walls for bowing or indications of failure	Acceptable	✔	
		Not Acceptable		
4) Utilities	Visually inspected and checked utility service to entire building	Present	✔	
		Not Present		
5) Facility Access	Visually inspected roads, fences and gates	Acceptable	✔	
		Not Acceptable		
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Overhead Door	Apply grease to track as needed	Yes		Functioning properly.
		No	✔	
2) Facility Access System	See Table 7-1 of GWTP O&M manual	Yes		Functioning properly.
		No	✔	
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/11/2005 Location: *Groundwater Collection Trench*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Piezometers	Checked with water level indicator to ensure drawdown to desired elevation	Working	✔	
		Not Working		
2) Sediment Build-up in Manholes	Visually inspected manholes and pump station for sediment and obstructions	Present		
		Not Present	✔	
3) Settling Along Ground Surface	Visually inspected ground surface along collection trench	Settling		
		Not Settling	✔	
4) Manhole Covers	Visually inspected manhole and pump station covers	Present	✔	
		Not Present		
5) Pumps	Refer to Manufacturer's O&M manuals for inspection procedure	Checked	✔	
		Not Checked		
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		Pumps running within acceptable parameters. Confined space.
		No	✔	
2) Additional Maintenance Performed		none		
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/11/2005 Location: *Sequestering Agent Feed System*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Feed Pump	Visually inspected feed pump and its in-feed and out-feed lines	Acceptable Not Acceptable	✔	
2) Calibration	Checked calibration chamber to verify pumping rate	Calibrated Not Calibrated	✔	Approximately monthly
3) Sequestering Agent	Visually inspected sequestering agent, holding area and drums	Acceptable Not Acceptable	✔	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Calibrate Pumps	Calibrate pumps during every other (6 months) quarterly inspection	Yes No	✔	Occassional loss of pump prime required repriming and re-calibration.
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/11/2005 Location: *Filter Bag Unit(s)*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Filter Bag Unit(s)	Visually inspect overall system	Acceptable Not Acceptable	✔	
2) Filter Bags	Check pressure relief differential. Refer to O&M manual	Checked Not Checked	✔	Filter Bags in Filter Unit #1 changed and Filter Unit cleaned 04/05/2005 & 05/05/2005. Filter Bags in Filter Unit #2 changed and Filter Unit cleaned 04/07/2005.
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Swing Davit	Apply a small amount of grease to the swing davit every other (6 months) quarterly inspection	Yes No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/11/2005 Location: *Feed Tank*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Feed Tank	Visually inspected tank for solids build-up	Solids Present	✔	
		Solids NOT Present		
2) Feed Tank	Visually inspected overall system	Acceptable	✔	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Tank	If solids build up, refer to O&M manual for procedure	Yes		
		No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/11/2005 Location: *Air Stripper and Feed Pumps*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Air Stripper	Visually inspected overall system	Acceptable	✔	
		Not Acceptable		
2) Stripper Trays	Visually inspected trays and checked air pressure	Acceptable	✔	
		Not Acceptable		
3) Feed Pumps	Visually inspected feed pumps and all lines	Acceptable	✔	
		Not Acceptable		
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		
		No	✔	
2) Stripper Trays	Clean trays every other (6 months) quarterly inspection, or when pressure is greater than 18" water	Yes		
		No	✔	
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/11/2005 Location: *Activated Carbon System*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) System	Visually inspected overall system	Acceptable Not Acceptable		N/A - Carbon Drums no longer on-line.
2) Carbon Drums	Tested for PCB breakthrough	Present Not Present		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Carbon Drums	As part of routine maintenance, check pressure drop	Yes No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/11/2005 Location: *Instrumentation*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Instrumentation	Visually inspected overall system	Acceptable Not Acceptable	✔	
2) Instrumentation	Visually inspected each instrument	Acceptable Not Acceptable	✔	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Instrumentation	Refer to each instrumentation manufacturer's O&M manual	Yes No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/11/2005 Location: *Building Sump Pit and Pumps*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) North Pump	Visually inspected overall system (pump and lines)	Acceptable	✔	
		Not Acceptable		
2) South Pump	Visually inspected shaft seal and motor	Acceptable	✔	
		Not Acceptable		
3) Sump Pit	Visually onspected pit for defects and obstructions	Acceptable	✔	
		Not Acceptable		
4) Floats	Visually inspected automatic floats	Acceptable	✔	
		Not Acceptable		
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to manufacturer's O&M manuals for maintenance	Yes		
		No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 05/11/2005 Location: *Treatment Building & Facility Access*

Inspected By: JMHF

Inspection

Item	Action	Action Result		Notes
1) Building	Visually inspected overall appearance of the GWTP	Acceptable	✔	
		Not Acceptable		
2) Concrete	Visually inspected all concrete for cracks or other indications of structural failure	Acceptable	✔	
		Not Acceptable		
3) Building Enclosures	Visually inspected walls for bowing or indications of failure	Acceptable	✔	
		Not Acceptable		
4) Utilities	Visually inspected and checked utility service to entire building	Present	✔	
		Not Present		
5) Facility Access	Visually inspected roads, fences and gates	Acceptable	✔	
		Not Acceptable		
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Overhead Door	Apply grease to track as needed	Yes		Functioning properly.
		No	✔	
2) Facility Access System	See Table 7-1 of GWTP O&M manual	Yes		Functioning properly.
		No	✔	
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/22/2005 Location: *Groundwater Collection Trench*

Inspected By: DP

Inspection

Item	Action	Action Result		Notes
1) Piezometers	Checked with water level indicator to ensure drawdown to desired elevation	Working	✔	
		Not Working		
2) Sediment Build-up in Manholes	Visually inspected manholes and pump station for sediment and obstructions	Present		
		Not Present	✔	
3) Settling Along Ground Surface	Visually inspected ground surface along collection trench	Settling		
		Not Settling	✔	
4) Manhole Covers	Visually inspected manhole and pump station covers	Present	✔	
		Not Present		
5) Pumps	Refer to Manufacturer's O&M manuals for inspection procedure	Checked	✔	
		Not Checked		
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		Pumps running within acceptable parameters. Confined space.
		No	✔	
2) Additional Maintenance Performed		none		
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/22/2005 Location: *Sequestering Agent Feed System*

Inspected By: DP

Inspection

Item	Action	Action Result		Notes
1) Feed Pump	Visually inspected feed pump and its in-feed and out-feed lines	Acceptable Not Acceptable	✔	
2) Calibration	Checked calibration chamber to verify pumping rate	Calibrated Not Calibrated	✔	Approximately monthly
3) Sequestering Agent	Visually inspected sequestering agent, holding area and drums	Acceptable Not Acceptable	✔	
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Calibrate Pumps	Calibrate pumps during every other (6 months) quarterly inspection	Yes No	✔	Occassional loss of pump prime required repriming and re-calibration.
2) Additional Maintenanec Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/22/2005 Location: *Filter Bag Unit(s)*

Inspected By: DP

Inspection

Item	Action	Action Result		Notes
1) Filter Bag Unit(s)	Visually inspect overall system	Acceptable Not Acceptable	✔	
2) Filter Bags	Check pressure relief differential. Refer to O&M manual	Checked Not Checked	✔	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Swing Davit	Apply a small amount of grease to the swing davit every other (6 months) quarterly inspection	Yes No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/22/2005 Location: *Feed Tank*

Inspected By: DP

Inspection

Item	Action	Action Result		Notes
1) Feed Tank	Visually inspected tank for solids build-up	Solids Present	✔	
		Solids NOT Present		
2) Feed Tank	Visually inspected overall system	Acceptable	✔	
		Not Acceptable		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Tank	If solids build up, refer to O&M manual for procedure	Yes		
		No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/22/2005 Location: *Air Stripper and Feed Pumps*

Inspected By: DP

Inspection

Item	Action	Action Result		Notes
1) Air Stripper	Visually inspected overall system	Acceptable	✔	
		Not Acceptable		
2) Stripper Trays	Visually inspected trays and checked air pressure	Acceptable	✔	
		Not Acceptable		
3) Feed Pumps	Visually inspected feed pumps and all lines	Acceptable	✔	
		Not Acceptable		
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Feed Pumps	Refer to Manufacturer's O&M manuals for maintenance	Yes		
		No	✔	
2) Stripper Trays	Clean trays every other (6 months) quarterly inspection, or when pressure is greater than 18" water	Yes		
		No	✔	
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/22/2005 Location: *Activated Carbon System*

Inspected By: DP

Inspection

Item	Action	Action Result		Notes
1) System	Visually inspected overall system	Acceptable Not Acceptable		N/A - Carbon Drums no longer on-line.
2) Carbon Drums	Tested for PCB breakthrough	Present Not Present		
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Carbon Drums	As part of routine maintenance, check pressure drop	Yes No		
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/22/2005 Location: *Instrumentation*

Inspected By: DP

Inspection

Item	Action	Action Result		Notes
1) Instrumentation	Visually inspected overall system	Acceptable Not Acceptable	✔ 	
2) Instrumentation	Visually inspected each instrument	Acceptable Not Acceptable	✔ 	
3) Additional Items Inspected				
4) Additional Items Inspected				
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Instrumentation	Refer to each instrumentation manufacturer's O&M manual	Yes No	 ✔	All instruments in working order.
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Rochester Fire Academy

Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/22/2005 Location: *Building Sump Pit and Pumps*

Inspected By: DP

Inspection

Item	Action	Action Result		Notes
1) North Pump	Visually inspected overall system (pump and lines)	Acceptable	✔	
		Not Acceptable		
2) South Pump	Visually inspected shaft seal and motor	Acceptable	✔	
		Not Acceptable		
3) Sump Pit	Visually onspected pit for defects and obstructions	Acceptable	✔	
		Not Acceptable		
4) Floats	Visually inspected automatic floats	Acceptable	✔	
		Not Acceptable		
5) Additional Items Inspected				
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Pumps	Refer to manufacturer's O&M manuals for maintenance	Yes		
		No	✔	
2) Additional Maintenance Performed				
3) Additional Maintenance Performed				

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Quarterly Inspection and Maintenance Schedule Checklist

Date: 11/22/2005 Location: *Treatment Building & Facility Access*

Inspected By: DP

Inspection

Item	Action	Action Result		Notes
1) Building	Visually inspected overall appearance of the GWTP	Acceptable	✔	
		Not Acceptable		
2) Concrete	Visually inspected all concrete for cracks or other indications of structural failure	Acceptable	✔	
		Not Acceptable		
3) Building Enclosures	Visually inspected walls for bowing or indications of failure	Acceptable	✔	
		Not Acceptable		
4) Utilities	Visually inspected and checked utility service to entire building	Present	✔	
		Not Present		
5) Facility Access	Visually inspected roads, fences and gates	Acceptable	✔	
		Not Acceptable		
6) Additional Items Inspected				

Maintenance

Item	Maintenance Activity	Maintenance Performed		Description of Maintenance Performed or Reason NOT Performed
1) Overhead Door	Apply grease to track as needed	Yes		Functioning properly.
		No	✔	
2) Facility Access System	See Table 7-1 of GWTP O&M manual	Yes		Functioning properly.
		No	✔	
3) Additional Maintenance Performed				

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