DATA PACKAGE LIMITED GROUNDWATER STUDY

62-64 SCIO STREET ROCHESTER, NEW YORK

Prepared For:	City of Rochester 30 Church Street, Room 300B Rochester, New York
Prepared By:	Day Environmental, Inc. 40 Commercial Street Rochester, New York 14614
Project Number	3869S-06
Date	June 2007

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1.0 INTRODUCTION

The subject property consists of an approximate 0.25-acre vacant parcel addressed as 62-64 Scio Street, Rochester, New York (Site). The location of the Site is shown on the Project Locus Map that is included as Figure 1. This report summarizes the field activities conducted and presents the data obtained as part of a limited groundwater study conducted at the Site by Day Environmental, Inc. (DAY).

1.1 Background

A report titled "Underground Storage Tank Closure and Limited Subsurface Study Report" prepared by DAY, dated December 18, 2006 describes the removal of one 2,000 gallon underground storage tank (UST) and approximately 30.27 tons of petroleum-contaminated soil. In addition, the December 18, 2006 report describes the advancement of 14 overburden test borings and the sampling/analysis of select soil/fill samples. As described in the report, petroleum-contaminated soil and fill containing ash, cinders, brick, concrete, wood and asphalt were encountered in selected test borings. As a result, the City of Rochester (City) notified the New York State Department of Environmental Conservation (NYSDEC), which generated NYSDEC Spill File #0650898.

1.2 Purpose

The purpose of the work described in this data package was to evaluate groundwater quality and flow conditions at the Site in relation to petroleum contamination that was previously documented at the Site.

2.0 FIELDWORK AND ANAYTICAL LABORATORY TESTING

This section describes the fieldwork and analytical laboratory testing completed as part of this study.

2.1 Test Boring/Monitoring Well Installation

DAY retained SJB Services (SJB) to install two new overburden/bedrock interface wells at the Site [designated as Test Boring TB-15 (MW-2) and Test Boring TB-16 (MW-3)] using 4.25" inner diameter hollow stem augers. These test borings/monitoring wells were installed on April 17, 2007 and April 18, 2007, and their locations are shown on Figure 2. Overburden soil samples were collected in consecutive two-foot intervals using split spoon sampling devices ahead of the 4.25" inner diameter hollow stem augers. Auger refusal was encountered at approximately 12.5' below the ground surface (bgs) at TB-15 and approximately 11.0' bgs at TB-16. Subsequent to auger refusal, approximately 5.5 feet of bedrock was cored at TB-15 using a HQ-size core barrel for a total boring depth of 18.0' bgs, and approximately 5.0 feet of bedrock was cored at TB-16 for a total boring depth of 16.0' bgs using a HQ-sized core barrel. [Note: Approximately 125 gallons of drill water was lost into the formation during coring at TB-15, and approximately 200 gallons of drill water was lost during coring at TB-16.]

The recovered soil/bedrock samples were visually examined by a DAY representative for evidence of suspect contamination (e.g., staining, unusual odors). The ambient and/or headspace air above different portions of the recovered soil/bedrock samples was screened with a MiniRae Model 2000 PID equipped with a 10.6 eV lamp. A DAY representative recorded pertinent information for the test borings on logs, copies of which are included in Appendix A.

Groundwater monitoring wells identified as MW-2 and MW-3 were installed within test boring TB-15 and TB-16, respectively. These wells consist of a ten-foot long 10-slot screen constructed of 2-inch inner diameter schedule 40 PVC, attached to riser constructed of the same material. The screened section was placed in each boring to intercept the overburden/bedrock interface. Each monitoring well was finished with a flush mount curb box. Monitoring well construction diagrams are included in Appendix B.

2.2 Monitoring Well Development/Sampling

On April 26, 2007, a DAY representative developed the monitoring wells by removing stagnant water and sediment to the extent possible. Well development consisted of removing a minimum of three well casing volumes of groundwater using a submersible pump (i.e., approximately 20 gallons was removed from MW-2, and approximately 25 gallons was removed from MW-3). No fluids were added to the wells during development. Select water quality parameters were considered stabilized subsequent to the removal of groundwater in each well. Refer to well development logs included in Appendix C.

On May 30, 2007, a DAY representative collected samples of groundwater from MW-2, MW-3, and a pre-existing groundwater monitoring well identified as MW-1 (refer to Figure 2). Groundwater samples were collected subsequent to removing approximately 3 well casing volumes of water from each well using dedicated disposable bailers. Monitoring well sampling

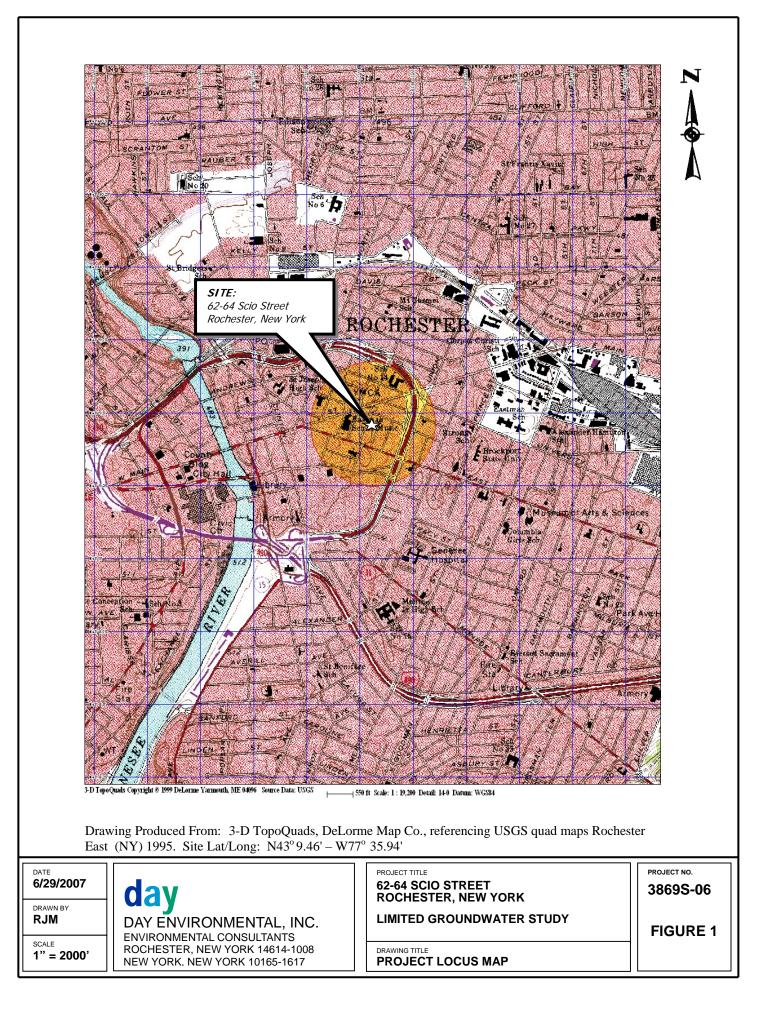
logs are provided in Appendix D. The NAD83 horizontal coordinates and NAVD88 vertical elevations for the three wells surveyed by James Parker, L.S., the static water levels measured at each well on May 30, 2007, and the calculated groundwater elevations for each well for May 30, 2007 are included on Table 1. The horizontal coordinates and calculated elevations for each well were input into the Surfer 8® software program. The output from this program was used to develop the potentiometric groundwater contour map that is included as Figure 3.

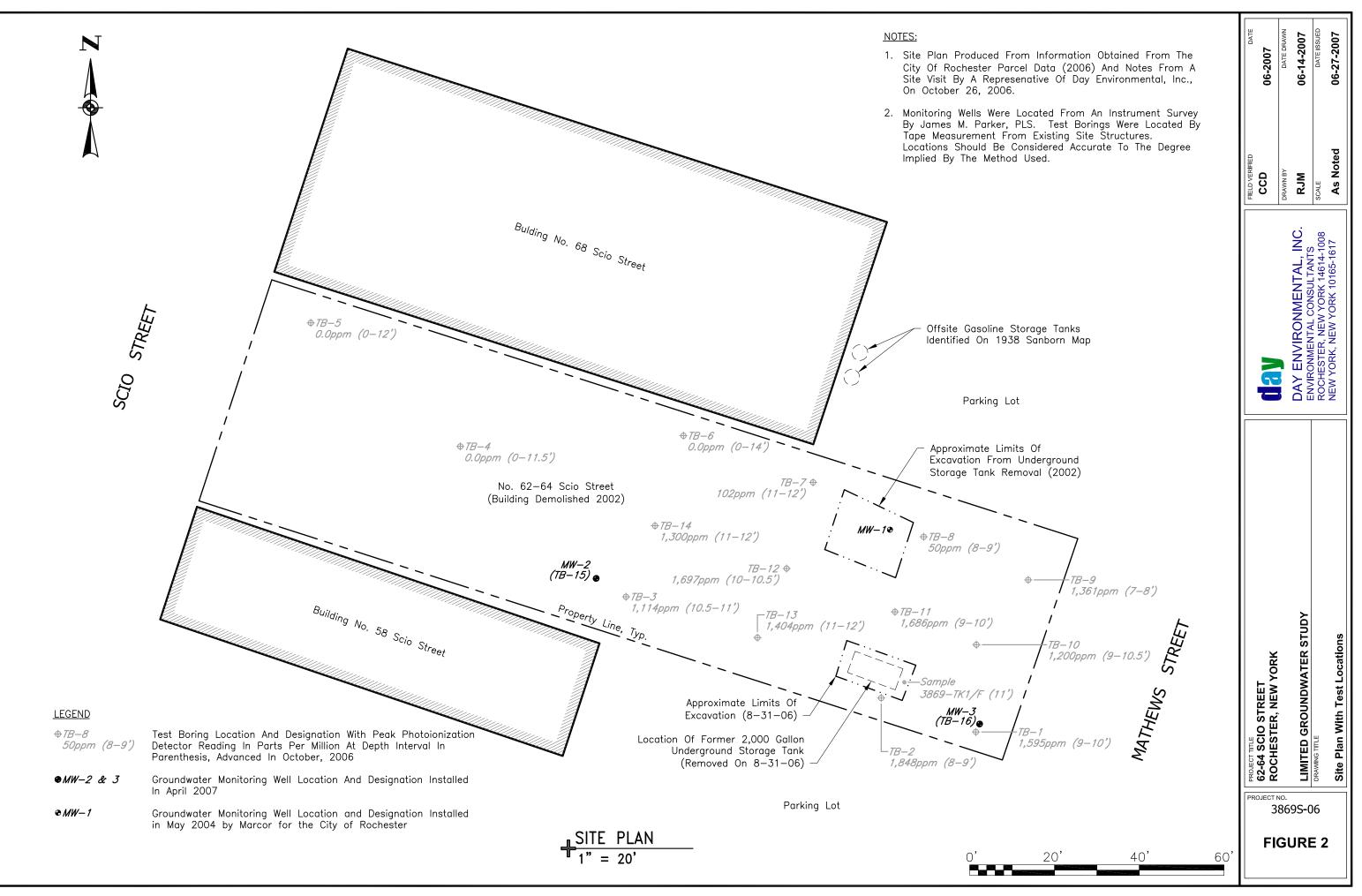
2.3 Analytical Laboratory Testing

The groundwater samples collected on May 30, 2007 were delivered under chain-of-custody control to Paradigm Environmental Services, Inc. (Paradigm) for testing. Paradigm is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory. Paradigm analyzed the groundwater samples for the following parameters:

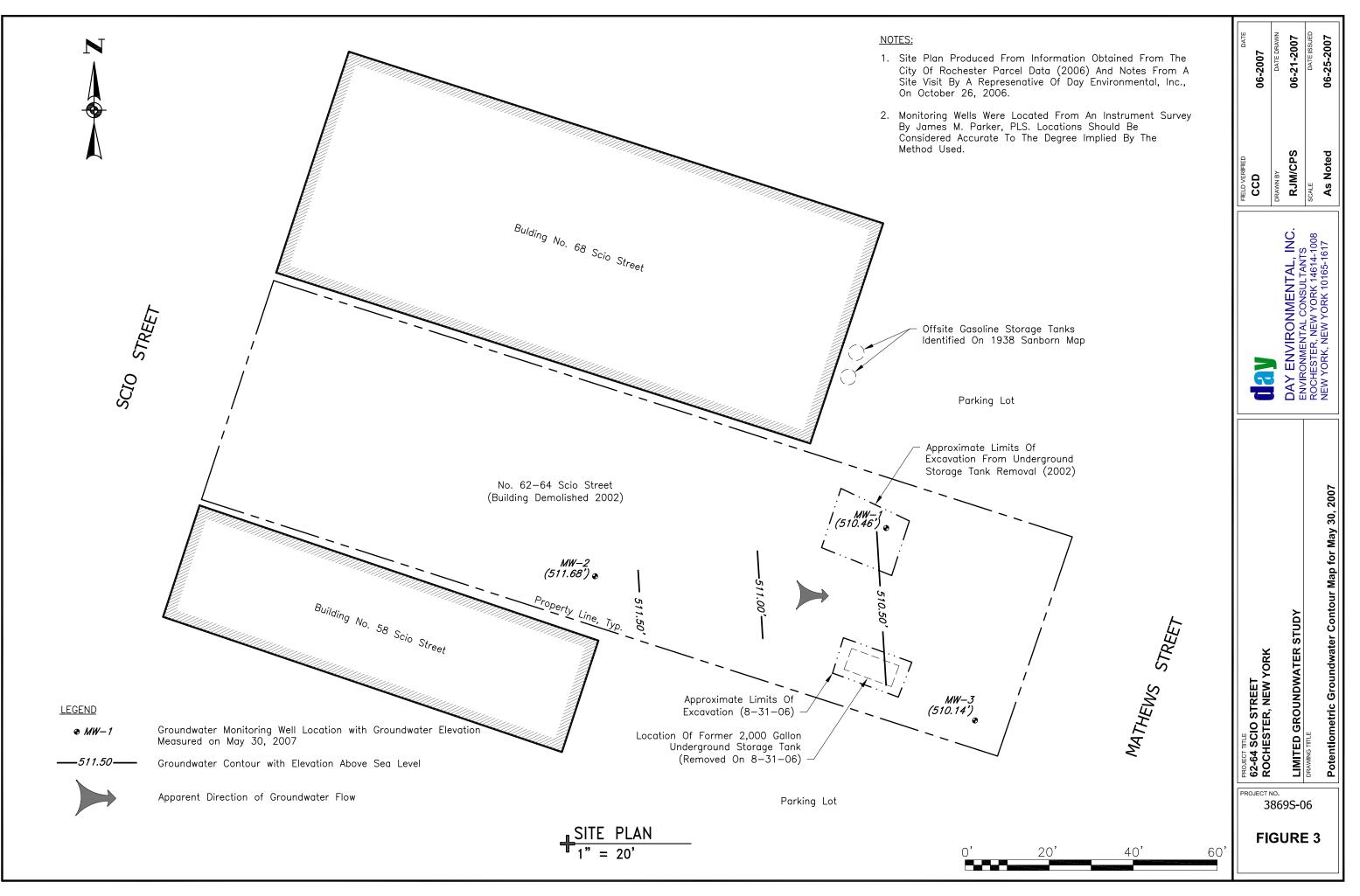
- United States Environmental Protection Agency (USEPA) Target Compound List (TCL) and NYSDEC Spill Technology and Remediation Series (STARS)-list Volatile Organic Compounds (VOCs) using USEPA Method 8260; and,
- NYSDEC STARS-list semi-volatile organic compounds (SVOCs) using USEPA Method 8270.

Copies of the analytical laboratory test reports prepared by Paradigm and executed chain-ofcustody documentation are included in Appendix E. Table 2 compares the detected concentrations of VOCs to groundwater standards or guidance values as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000. Table 3 compares the detected concentrations of SVOCs to groundwater standards or guidance values as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000. FIGURES





Ref1: Ref2: Ref3:



TABLES

Table 162-64 Scio StreetRochester, New York

Coordinate System and Groundwater Elevations for May 30, 2007

Elevations in Feet Above Mean Sea Level

Monitoring Well	Northing*	hing* Easting*		TOC Elevation**	Static Water Level (from TOC)	Groundwater Elevation**
MW-1	1152076.93	1410981.82	518.96	518.65	8.19	510.46
MW-2	1152065.44	1410912.48	522.27	522.09	10.41	511.68
MW-3	1152031.08	1411002.98	518.43	518.29	8.15	510.14

TOC = Top of Casing

* = NAD83 Coordinates

** = NAVD88 Coordinates

Coordinate system and elevations obtained from a land survey by James M. Parker Land Surveying in May 2007.

Table 262-64 Scio StreetRochester, New York

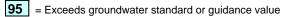
Summary of Detected Volatile Organic Compounds (VOCs) and Naphthalene in ug/L or Parts per Billion (ppb)

Detected Compound	Groundwater Standard or Guidance Value (1)	MW-1	MW-2	MW-3
Benzene	1	24.1	ND	1,660
Toluene	5	31.4	ND	1,260
Ethylbenzene	5	385	ND	1,530
Xylene (total)	5	231.4	ND	4,876
n-Propylbenzene	5	95	ND	154
Isopropylbenzene	5	38.3	ND	79.9
1,2,4-Trimethylbenzene	5	156	ND	1,210
1,3,5-Trimethylbenzene	5	ND	ND	249
TOTAL VOCS	NA	961.2	ND	11,018.9
Naphthalene	10	ND	ND	438

May 30, 2007 Groundwater Samples

NA = Not available

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000



ND = Not detected at concentration above reported analytical laboratory detection limit

Table 362-64 Scio StreetRochester, New York

Summary of Detected Semi-Volatile Organic Compounds (SVOCs) in ug/L or Parts per Billion (ppb)

May 30, 2007 Groundwater Samples

Detected Compound	Groundwater Standard or Guidance Value (1)	MW-1	MW-2	MW-3
Naphthalene	10	16.7	ND	254
TOTAL SVOCS*	NA	16.7	ND	254

NA = Not Available

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000

254

= Exceeds groundwater standard or guidance value

ND = Not detected at concentration above reported analytical laboratory detection limit

APPENDIX A

Test Boring Logs

da	day ENVIRONMENTAL CONSULTANTS								
DAY	ENVIR	ONME	NTAL, IN	IC.				AN	I AFFILIATE OF DAY ENGINEERING, P.C.
Projec	t #:		3869S-0	6					
	t Addres	ss:	62-64 Se		et				TEST BORING TB-15 (MW-2)
			Rochest	er, New	York			Ground Elevation: 522.27' Datum: NAVD 88	Page 1 of 2
	Represer		C. David				•	Date Started: 4/17/2007 Date Ended: 4/17/2007	
	g Contrac ing Meth		SJB Ser 2' Split S		O-Core		•	Borehole Depth: 18.0' Borehole Diameter: 8.5" Completion Method: ■ Well Installed □ Backfilled with Grout □ Backfilled	d with Cuttings
Gampi	ing wea	100.	2 0011 0	0001/11			•	Water Level (Date): 10.41' from TOC (5/30/07)	
						ê			
			÷		%	Headspace PID (ppm)	Ê		
	.5 ft.	nber	th (f		gD	G	dd) f		Neter
(H	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	pace	PID Reading (ppm)	Sample Description	Notes
Depth (ft)	SWC	mple	mple	Reco	Valu	adsp	0 Re		
De		Sa	Sa	%	ź	원	I		
	2						0.0	Brown, Sandy SILT, trace Organics (roots), trace Gravel, moist	
1	2	S-1	0-2	25	3	0.0	0.0		
	1								
	2						0.0		
2	2						0.0	-	
	4	S-2	2-4	58	7	0.0	0.0		
3	3	02		00		0.0	0.0	-	
4	4						0.0		
	1							rock in shoe	
5	2	S-3	4-6	0	3	NA	NA		
Ĵ	1								
	14								
6	27						0.0	Brown, Clayey SILT, trace Sand, moist	
	12	S-4	6-8	8"	35	0.0			
7	23						0.0	-	
	16						0.0		
8								-	
	13								
9	4	S-5	8-10	4	10	NA	0.0	-	
	6								
10	15								
10	15	5-6	10-10.9	8	NA	0.0	0.0		
	50/4"								
11								- Split spoon refusal @ 10.9'	
	NA	NA	10.9-	NA	NA	NA	NA		
12			12.5					-	
13								Auger refusal @ 12.5'	
							0.0	Light Gray DOLOSTONE, some vugs, some horizontal fractures	
14								-	
15	NA	C-1	12.5- 16.5	NA	38%	NA	0.0		
15									
16									
Notes:	1) Water	r levels w	ere made	at the tim	es and un	der condi	tions state	ed. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.	
								ns may be gradual.	
			are referent able or Not			tandard m	neasured i	in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.	TEST BORING TB-15 (MW-2)
) readings			by moistu	ire		
40 CO	MMERC	CIAL STI	REET						
			ORK 146	614-1008	В				NEW YORK, NEW YORK 10165-1617
	454-0210								(212) 986-8645
FAX (5	585) 454	-0825						www.dayenvironmental.com	FAX (212) 986-8657

da										ENVIRONMENTAL CONSULTANTS
da				_						
DAY	ENVIRC	ONMEN	ITAL, IN	C.					AN AFFIL	LATE OF DAY ENGINEERING, P.C.
Projec	t #: t Address	<u>.</u>	3869S-0		•					TEST BORING TB-15 (MW-2)
FIOJEC	Audres	5.	Rochest				-	Ground Elevation: 522.27' Datum: NAVD 88		Page 2 of 2
DAY R	epresen	tative:	C. David					Date Started: 4/17/2007 Date Ended: 4/17/2007		
-	Contrac		SJB Ser				•	Borehole Depth: 18.0' Borehole Diameter: 8.5"		_
Sampl	ng Meth	iod:	2' Split S	poon/H	Q-Core			Completion Method: Well Installed Backfilled with Grout Backfilled Water Level (Date): 10.41' from TOC (5/30/07) 5/30/07)	ackfilled with C	uttings
						_			1	
Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description		Notes
17.5	NA	C-2	16.5- 18.0	NA	86%	NA	0.0	Light Gray, DOLOSTONE, some vugs, trace fracturing	_	
18.5								Boring Complete @ 18.0'	-	
19.5									-	
20.5									_	
21.5									-	
22.5									-	
23.5									-	
24.5									_	
24.0										
25.5									-	
26.5									-	
27.5									-	
28.5									_	
29.5									-	
30.5									-	
31.5									-	
32.5										
32.3										
Notes:								A Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.		
								ns may be gradual. in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.		
	4) NA = N	Not Availa	able or Not	Applicab	le					TEST BORING TB-15 (MW-2)
	5) Heads MMERC		readings	may be ir	ifluenced	by moistu	ire			
			ORK 146	14-1008	3					NEW YORK, NEW YORK 10165-1617
	54-0210									(212) 986-8645
FAX (5	85) 454-	-0825						www.dayenvironmental.com		FAX (212) 986-8657

day ENVIRONMENTAL CONSULTANTS										
		ONMEN	NTAL, IN	IC.					AN AFFIL	IATE OF DAY ENGINEERING, P.C.
			,							
Project #: 3869S-06 Project Address: 62-64 Scio Street									TEST BORING TB-16 (MW-3)	
Projec	t Addres	55:	Rochest					Ground Elevation: 518.42' Datum: NAVD 88		Page 1 of 1
DAY F	Represer	ntative:	C. David					Date Started: 4/17/2007 Date Ended: 4/18/2007		
	g Contra		SJB Ser					Borehole Depth: 16.0' Borehole Diameter: 8.5"		_
Samp	ing Meth	nod:	2' Split S	Spoon/H	Q-Core			Completion Method: Well Installed Backfilled with Grout Back Water Level (Date): 8.15' from TOC (5/30/07)	kfilled with C	uttings
						_				
			¢		*	Headspace PID (ppm)	Ê			
	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	-	N-Value or RQD%	GI	PID Reading (ppm)	Samula Description		Notes
ŧ	per (e Nu	e Del	% Recovery	e or	pace	adin	Sample Description		NOLES
Depth (ft)	ows	due	due	Rec	Valu	eads	DRe			
ă		š	š	%	ż	Ť				
	1						0.0	Brown, Sandy Silt, trace Organics (roots)		
1	1	S-1	0-2	33	2	0.0	0.0	moist (FILL)	-	
	1									
2	2						0.0	-	-	
	2						0.0			
3	8	S-2	2-4	42	13	0.0	0.0	-	-	
-	5									
4	6						0.0		_	
-	14							rock in shoe	-	
	12	S-2	4-6	0	27	NA	NA			
5	15							-	-	
	12									
6	14						0.0	Brown, Sandy SILT, trace Gravel, moist	-	
	19	S-4	6-8	42	24	0.0				
7	5						0.0	-	-	
	6									Black staining
8	12									black stairing
	22	S-5	8-10	25	30	25.1	10.3			
9	18	00	0.0	20	00	2011	10.0	-	-	
	20									
10	9	S-6	10-11	7	NA	279	25.3	-	-	Petroleum-type odor
	50/4"	3-0	10-11	'	INA	219	20.0			
11	50/4							Split Spoon and Auger Refusal @ 11.0'	-	
12							0.0	Light Gray DOLOSTONE, some vugs, some hairline vertical fractures	-	
								g		
13							0.0	-	-	
14	NA	C-1	11-16	NA	67%	NA	0.0	-	-	
15							0.0	-	-	
16									-	
								Boring complete @ 16.0'		
Notes:								d. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions. ns may be gradual.		
								n the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.		
			able or Not			h				TEST BORING TB-16 (MW-3)
40 CC	5) Heads	-	0 readings REET	rnay be ir	nuenced	by moistu	re			I
			ORK 146	614-1008	3					NEW YORK, NEW YORK 10165-1617
(585)	454-021	0								(212) 986-8645
FAX (585) 454	-0825						www.dayenvironmental.com		FAX (212) 986-8657

APPENDIX B

Monitoring Well Construction Diagrams

day DAY ENVIRONMENTAL, INC.		AN AFFII		AL CONSULTANTS NGINEERING, P.C.
	MONITORING WELL CONSTRUCTION DIA	GRAM		
Project #: <u>3869S-07</u> Project Address: 62-64 Scio Street	-			WELL MW-2
Rochester, NY DAY Representative: C. Davidson Drilling Contractor: SJB Services	Ground Elevation: 522.27' Date Started: 4/18/2007 Water Level (Date): 10.41' (5/30/07) Top of Casing (TOC): 0.18' below grade	Datum: Date Ended:	NAVD 88 4/18/2007	Page 1 of 1
Refer to Test Boring Log TB- 15 for Soil Description	Flush Mounted Roadbox O.18 Depth to Top of Riser Pipe (ft) 1.5 Depth to Bottom of Cement Surface Patcl Backfill Type Bentonite 1.5 Depth to Top of Bentonite Seal (ft) 3.5 Depth to Bottom of Bentonite Seal (ft) 5.5 Depth to Top of Well Screen (ft) 8.5 Diameter of Borehole (in) Backfill Type SAND 2.0 Inside Diameter of Well (in) Type of Pipe PVC Screen slot size 10 15.5 Depth to Bottom of Well Screen (ft) 18.0 Depth of Borehole (ft)	h (ft) 		
Notes: 1) Water levels were made at the times and u 2) NA = Not Available or Not Applicable	nder conditions stated. Fluctuations of groundwater levels may o	occur due to seasonal fact	tors and other conditions.	
				WELL MW-2

S:\Fieldforms\Monitoring Well Installation Log (revised October 2006)

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day DAY ENVIRONMENTAL, INC.	AN AFF	ENVIRONMENTAL CONSULTANTS FILIATE OF DAY ENGINEERING, P.C.
	MONITORING WELL CONSTRUCTION DIAGRAM	
Project #: <u>3869S-07</u> Project Address: 62-64 Scio Street	-	MONITORING WELL MW-3
Rochester, NY DAY Representative: C. Davidson Drilling Contractor: SJB Services	Ground Elevation: 518.42' Datum: Date Started: 4/18/2007 Date Ended: Water Level (Date): 8.15' (5/30/07)	NAVD 88 Page 1 of 1 4/18/2007
Refer to Test Boring Log TB- 16 for Soil Description	Flush Mounted Roadbox 0.14 Depth to Top of Riser Pipe (ft) 1.0 Depth to Bottom of Cement Surface Patch (ft) Backfill Type Bentonite 1.0 Depth to Top of Bentonite Seal (ft) 3.0 Depth to Bottom of Bentonite Seal (ft) 4.0 Depth to Top of Well Screen (ft) 8.5 Diameter of Borehole (in) Backfill Type SAND 2.0 Inside Diameter of Well (in) Type of Pipe PVC Screen slot size 10 16.0 Depth to Bottom of Well Screen (ft)	
Notes: 1) Water levels were made at the times and u 2) NA = Not Available or Not Applicable	nder conditions stated. Fluctuations of groundwater levels may occur due to seasonal f	actors and other conditions.
		MONITORING WELL MW-3

S:\Fieldforms\Monitoring Well Installation Log (revised October 2006)

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APPENDIX C

Monitoring Well Development Logs

WELL DEVELOPMENT DATA **MW-2**

SITE LOCATION: <u>62 – 64 Scio Street, Rochester, NY</u>

EVACUATION METHOD	Submersible	a 1		4-26-07	4-26-07		
	Pump	Submersible Pump	Submersible Pump	Submersible Pump	Submersible Pump		
PID/FID (PPM)	27.3	NC	NC	NC	NC		
DEPTH OF WELL (FT)	14.95	NC	NC	NC	14.97		
STATIC WATER LEVEL (SWL) FT	9.20	NC	NC	NC	12.31		
VOLUME EVACUATED (GAL)	0	5	5	5	5		
TOTAL VOLUME EVACUATED (GAL)	0	5	10	15	20		
TEMPERATURE (^O C)	12.5	12.7	13.3	13.9	14.5		
pН	7.62	7.65	7.71	7.69	7.58		
ORP (mV)	25	31	54	44	40		
CONDUCTIVITY (µs/cm)	1.39	1.39	1.44	1.42	1.42		
TURBIDITY (NTU)	>999	>999	>999	512	160		
VISUAL OBSERVATION	Muddy	Slightly Muddy	Slightly Muddy	Cloudy	Slightly Cloudy		

ND = Not Detected

*= Not Measurable

Day Environmental, Inc. 40 Commercial Street Rochester, New York 14614

JOB#: <u>3869S-06</u>

WELL DEVELOPMENT DATA MW-3

SITE LOCATION: <u>62 – 64 Scio Street, Rochester, NY</u>

DATE/	1145	1152	1200	1209	1215	1220	1221	
TIME	4-26-07	4-26-07	4-26-07	4-26-07	4-26-07	4-26-07	4-26-07	
EVACUATION METHOD	Submersible Pump	Submersible Pump	Submersible Pump	Submersible Pump	Submersible Pump	Submersible Pump	Submersible Pump	
PID/FID (PPM)	240	NC	NC	NC	NC	NC	NC	
DEPTH OF WELL (FT)	13.95	NC	NC	NC	NC	13.95	NC	
STATIC WATER LEVEL (SWL) FT	7.04	NC	NC	NC	NC	11.2	9.25	
VOLUME EVACUATED (GAL)	0	5	5	5	5	5	0	
TOTAL VOLUME EVACUATED (GAL)	0	5	10	15	20	25	25	
TEMPERATURE (^O C)	11.5	11.7	11.7	10.7	11.0	11.1	NC	
pН	6.44	7.08	7.20	7.36	7.28	7.25	NC	
ORP (mV)	93	-53	-61	-110	-101	-108	NC	
CONDUCTIVITY (µs/cm)	2.63	2.25	2.31	2.30	2.31	2.31	NC	
TURBIDITY (NTU)	>999	>999	598	400	171	51	NC	
VISUAL OBSERVATION	Petro-odor, muddy	Petro-odor, muddy	Petro-odor, cloudy	Petro-odor, cloudy	Petro-odor, clear	Petro-odor, clear	NC	

LEGEND:

NC = Not Collected ND = Not Detected

*= Not Measurable

Day Environmental, Inc. 40 Commercial Street Rochester, New York 14614

JOB#:<u>3869S-06</u>

APPENDIX D

Monitoring Well Sampling Logs

DAY ENVIRONMENTAL, INC. MONITORING WELL SAMPLING LOG

WELL MW-1

SECTION 1 - SITE INFORMATION							
SITE LOCATION: 62-64 Scio Street, Rochester, NY	JOB #: <u>3869S-06</u>						
PROJECT NAME: Limited Groundwater Study	DATE : <u>5/30/07</u>						
SAMPLE COLLECTOR(S): C. Davidson							
WEATHER CONDITIONS:75°F Sunny	PID IN WELL (PPM): <u>0.0</u>						
SECTION 2 - P	PURGE INFORMATION						
DEPTH OF WELL [FT]: <u>14.40</u>	(MEASURED FROM TOP OF CASING - T.O.C.)						
STATIC WATER LEVEL (SWL) [FT]: 8.19	(MEASURED FROM T.O.C.)						
THICKNESS OF WATER COLUMN [FT]: 6.21	(DEPTH OF WELL - SWL)						
CALCULATED VOL. OF H ₂ O PER WELL CASING [G.	AL]: <u>1.0</u> CASING DIA.: <u>2</u> "						
CALCULATIONS: CASING DIA. (FT) WELL CONSTANT(GAL/FT) O ¾" (0.0625) 0.023 V0 1" (0.0833) 0.041 V1 1¼" (0.1041) 0.063 V1 2" (0.1667) 0.1632 V1 3" (0.250) 0.380 V1 4" (0.3333) 0.6528 V1/2" 4/2" (0.375) 0.826 6" (0.5000) 1.4688 8" (0.666) 2.611 2.611	OL. OF H₂O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT						
ACTUAL VOLUME PURGED [GAL]: ~3.0	_ (*						
PURGE METHOD: <u>3' disposable bailer</u>	- PURGE START: <u>09:40</u> END: <u>09:50</u>						

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS							
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)				
MW-1	5/30/07 / 09:55	3' Disposable Bailer	TCL & STARS VOC; STARS SVOC				

	SECTION 4 - WATER QUALITY DATA									
SWL (FT)	TEMP (°C)	рН	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL			
14.40	15.2	7.17	2.34	875	6.91	~106	Cloudy, slight petroleum-type odor			

DAY ENVIRONMENTAL, INC. MONITORING WELL SAMPLING LOG

WELL MW-2

SECTION 1 - SITE INFORMATION								
SITE LOCATION: 62-64 Scio Street, Rochester, NY	JOB #:3869S-06							
PROJECT NAME: Limited Groundwater Study	DATE : <u>5/30/07</u>							
SAMPLE COLLECTOR(S): C. Davidson								
WEATHER CONDITIONS: ~75°F Sunny PID IN WELL (PPM): 2.2								
SECTION 2	2 - PURGE INFORMATION							
DEPTH OF WELL [FT]: <u>15.30</u>	(MEASURED FROM TOP OF CASING - T.O.C.)							
STATIC WATER LEVEL (SWL) [FT]: 10.41	(MEASURED FROM T.O.C.)							
THICKNESS OF WATER COLUMN [FT]: 4.89	(DEPTH OF WELL - SWL)							
CALCULATED VOL. OF H2O PER WELL CASING	[GAL]: <u>0.8</u> CASING DIA.: <u>2</u> "							
CALCULATIONS: CASING DIA. (FT) $\frac{3}{4''}$ (0.0625)0.0231" (0.0833)0.041 $1^{4''}$ (0.1041)0.0632" (0.1667)0.16323" (0.250)0.3804" (0.3333)0.6528 $4^{42"}$ (0.375)0.8266" (0.5000)1.46888" (0.666)2.611	VOL. OF H₂O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT							
CALCULATED PURGE VOLUME [GAL]: 2.4	(3 TIMES CASING VOLUME)							
ACTUAL VOLUME PURGED [GAL]: <u>~2.5</u>								
PURGE METHOD: <u>3' disposable bailer</u>	PURGE START: <u>10:18</u> END: <u>10:28</u>							

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS							
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)				
MW-2	5/30/07 / 10:35	3' Disposable Bailer	TCL & STARS VOC; STARS SVOC				

	SECTION 4 - WATER QUALITY DATA									
SWL (FT)	TEMP (°C)	рН	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL			
10.41	15.7	7.50	1.14	>990	8.1	69	Cloudy, slight petroleum-type odor			

DAY ENVIRONMENTAL, INC. MONITORING WELL SAMPLING LOG

WELL MW-3

SECTION 1 - SITE INFORMATION							
SITE LOCATION: <u>62-64 Scio Street, Rochester, NY</u>	JOB #: <u>3869S-06</u>						
PROJECT NAME: Limited Groundwater Study	DATE : <u>5/30/07</u>						
SAMPLE COLLECTOR(S): C. Davidson							
WEATHER CONDITIONS: ~75°F Sunny	PID IN WELL (PPM): <u>83.0</u>						
SECTION 2	- PURGE INFORMATION						
DEPTH OF WELL [FT]: <u>14.0</u>	(MEASURED FROM TOP OF CASING - T.O.C.)						
STATIC WATER LEVEL (SWL) [FT]: 8.15	(MEASURED FROM T.O.C.)						
THICKNESS OF WATER COLUMN [FT]: <u>5.85</u>	(DEPTH OF WELL - SWL)						
CALCULATED VOL. OF H2O PER WELL CASING	[GAL]: 0.95 CASING DIA.: 2"						
CALCULATIONS: WELL CONSTANT(GAL/FT) ¾" (0.0625) 0.023 1" (0.0833) 0.041 1¼" (0.1041) 0.063 2" (0.1667) 0.1632 3" (0.250) 0.380 4" (0.3333) 0.6528 4½" (0.375) 0.826 6" (0.5000) 1.4688 8" (0.666) 2.611	$\underline{CALCULATIONS}$ VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT						
CALCULATED PURGE VOLUME [GAL]: 2.8	(3 TIMES CASING VOLUME)						
ACTUAL VOLUME PURGED [GAL]: ~3.0							
PURGE METHOD: <u>3' disposable bailer</u>	PURGE START: <u>11:00</u> END: <u>11:10</u>						

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS							
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)				
MW-3	5/30/07 / 11:15	3' Disposable Bailer	TCL & STARS VOC; STARS SVOC				

	SECTION 4 - WATER QUALITY DATA									
SWL (FT)	TEMP (°C)	рН	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL			
8.15	14.0	7.20	2.20	>990	4.50	~108	Cloudy, slight petroleum-type odor			

APPENDIX E

Analytical Laboratory Report and Chain-of-Custody Documentation



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

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: DAY Environmental

Client Job Site:	62-64 Scio St. Rochester, NY	Lab Project Number: Lab Sample Number:	
Client Job Number:	3869S-06		
Field Location:	MW-1	Date Sampled:	05/30/2007
Field ID Number:	N/A	Date Received:	05/30/2007
Sample Type:	Water	Date Analyzed:	06/05/2007

Base / Neutrals		Results in ug / L	
Acenaphthene		ND< 10.0	
Acenaphthylene		ND< 10.0	
Anthracene		ND< 10.0	
Benzo (a) anthra	acene	ND< 10.0	
Benzo (a) pyren	e	ND< 10.0	
Benzo (b) fluora	nthene	ND< 10.0	
Benzo (g,h,i) per	ylene	ND< 10.0	
Benzo (k) fluorai	nthene	ND< 10.0	
Chrysene		ND< 10.0	
Dibenz (a,h) anthracene		ND< 10.0	
Fluoranthene		ND< 10.0	
Fluorene		ND< 10.0	
Indeno (1,2,3-cd) pyrene	ND< 10.0	1
Naphthalene		16.7	
Phenanthrene		ND< 10.0	
Pyrene		ND< 10.0	
ELAP Number 10958	Method: EPA 8270C	Data File: S3	4923.D

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

HANT H

Signature:

Bruce Hoogesteger/ Technical Director

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

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: DAY Environmental

Client Job Site:	62-64 Scio St. Rochester, NY	Lab Project Number: Lab Sample Number:	
Client Job Number:	3869S-06		
Field Location:	MW-2	Date Sampled:	05/30/2007
Field ID Number:	N/A	Date Received:	05/30/2007
Sample Type:	Water	Date Analyzed:	06/05/2007

Base / Neut	rals	Results in ug / L	
Acenaphther	ne	ND< 10.0	Τ
Acenaphthyl	ene	ND< 10.0	
Anthracene		ND< 10.0	
Benzo (a) an	thracene	ND< 10.0	
Benzo (a) py	rene	ND< 10.0	
Benzo (b) flu	oranthene	ND< 10.0	
Benzo (g,h,i)	perylene	ND< 10.0	
Benzo (k) flu	oranthene	ND< 10.0	
Chrysene		ND< 10.0	
Dibenz (a,h)	anthracene	ND< 10.0	
Fluoranthene		ND< 10.0	
Fluorene		ND< 10.0	Í
Indeno (1,2,3	-cd) pyrene	ND< 10.0	
Naphthalene		ND< 10.0	
Phenanthren	e	ND< 10.0	ľ
Pyrene		ND< 10.0	
ELAP Number 10958	Method: EPA 8270C	Data File: S34924	.D

8270C

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

Bruce Hoogesteger: Technical Director

Signature:

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Semi -Volatile STARS Analysis Report for Non-potable Water

Client: DAY Environmental

62-64 Scio St.		
Rochester, INY	Lab Sample Number:	0039
3869S-06		
MW-3	Date Sampled:	05/30/2007
N/A	Date Received:	05/30/2007
Water	Date Analyzed:	06/05/2007
	Rochester, NY 3869S-06 MW-3 N/A	Rochester, NYLab Sample Number:3869S-06Date Sampled:MW-3Date Sampled:N/ADate Received:

Base / Neutrais		Results in u	ig/L
Acenaphthene		ND< 10	0.0
Acenaphthylene		ND< 10	0.0
Anthracene		ND< 1(0.0
Benzo (a) anthra	icene	ND< 10	0.0
Benzo (a) pyrene	e	ND< 10	0.0
Benzo (b) fluorar	nthene	ND< 10).0
Benzo (g,h,i) per	ylene	ND< 10).0
Benzo (k) fluorar	thene	ND< 10	0.0
Chrysene		ND< 10	0.0
Dibenz (a,h) anth	nracene	ND< 10).0
Fluoranthene		ND< 10).0
Fluorene		ND< 10	0.0
Indeno (1,2,3-cd)) pyrene	ND< 10).0
Naphthalene		25	54
Phenanthrene		ND< 10	0.0
Pyrene		ND< 10).0
ELAP Number 10958	Method: EPA 8270C	Da	ata File: S34925.D

Method: EPA 8270C

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

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Signature:

Bruce Hoogesteger, Technical Director

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Volatile Analysis Report for Non-potable Water

Client: DAY Environmental

Client Job Site:	62-64 Scio Street Rochester, NY	Lab Project Number: Lab Sample Number:	
Client Job Number:	38695-06		
Field Location:	MW-1	Date Sampled:	05/30/2007
Field ID Number:	N/A	Date Received:	05/30/2007
Sample Type:	Water	Date Analyzed:	06/05/2007

Halocarbons	Results in ug / L	Aromatics	Results in ug / L
Bromodichloromethane	ND< 20.0	Benzene	24.1
Bromomethane	ND< 20.0	Chlorobenzene	ND< 20.0
Bromoform	ND< 20.0	Ethylbenzene	385
Carbon Tetrachloride	ND< 20.0	Toluene	31.4
Chloroethane	ND< 20.0	m,p-Xylene	156
Chloromethane	ND< 20.0	o-Xylene	75.4
2-Chloroethyl vinyl Ether	ND< 20.0	Styrene	ND< 20.0
Chloroform	ND< 20.0	1,2-Dichlorobenzene	ND< 20.0
Dibromochloromethane	ND< 20.0	1,3-Dichlorobenzene	ND< 20.0
1,1-Dichloroethane	ND< 20.0	1,4-Dichlorobenzene	ND< 20.0
1,2-Dichloroethane	ND< 20.0		
1,1-Dichloroethene	ND< 20.0	Ketones	Results in ug / L
cis-1,2-Dichloroethene	ND< 20.0	Acetone	ND< 100
trans-1,2-Dichloroethene	ND< 20.0	2-Butanone	ND< 50.0
1,2-Dichloropropane	ND< 20.0	2-Hexanone	ND< 50.0
cis-1,3-Dichloropropene	ND< 20.0	4-Methyl-2-pentanone	ND< 50.0
trans-1,3-Dichloropropene	ND< 20.0		
Methylene chloride	ND< 50.0	Miscellaneous	Results in ug / L
1,1,2,2-Tetrachloroethane	ND< 20.0	Carbon disulfide	ND< 50.0
Tetrachloroethene	ND< 20.0	Vinyl acetate	ND< 50.0
1,1,1-Trichloroethane	ND< 20.0		
1,1,2-Trichloroethane	ND< 20.0		
Trichloroethene	ND< 20.0		
Trichlorofluoromethane	ND< 20.0		
Vinyl chloride	ND< 20.0		
ELAP Number 10958	Method	EPA 82608	Data File: V44930.D

ELAP Number 10958

Method: EPA 8260B

Data File: V44930.D

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

Signature:

Bruce Hoogestege Technical Director

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

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: DAY Environmental

Client Job Site:	62-64 Scio Street Rochester, NY	Lab Project Number: Lab Sample Number:	
Client Job Number:	3869S-06		
Field Location:	MW-1	Date Sampled:	05/30/2007
Field ID Number:	N/A	Date Received:	05/30/2007
Sample Type:	Water	Date Analyzed:	06/06/2007

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	ND< 20.0	1,2,4-Trimethylbenzene	156
sec-Butylbenzene	ND< 20.0	1,3,5-Trimethylbenzene	ND< 20.0
tert-Butyibenzene	ND< 20.0		
n-Propylbenzene	95.0	Miscellaneous	
Isopropylbenzene	38.3	Methyl tert-butyl Ether	ND< 20.0
p-Isopropyltoluene	ND< 20.0		
Naphthalene	ND< 50.0		
ELAP Number 10958	Method	: EPA 8260B	Data File: V44930.D

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

14

Signature:

Bruce Hoogesteger: Technical Director

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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: DAY Environmental

Client Job Site:	62-64 Scio Street Rochester, NY	Lab Project Number: Lab Sample Number:	
Client Job Number: Field Location: Field ID Number: Sample Type:	3869S-06 MW-2 N/A Water	Date Sampled: Date Received: Date Analyzed:	05/30/2007 05/30/2007 06/05/2007

Halocarbons	Results in ug / L	Aromatics	Results in ug / L
Bromodichloromethane	ND< 2.00	Benzene	ND< 0.700
Bromomethane	ND< 2.00	Chlorobenzene	ND< 2.00
Bromoform	ND< 2.00	Ethylbenzene	ND< 2.00
Carbon Tetrachloride	ND< 2,00	Toluene	ND< 2.00
Chloroethane	ND< 2.00	m,p-Xylene	ND< 2.00
Chloromethane	ND< 2.00	o-Xylene	ND< 2.00
2-Chloroethyl vinyl Ether	ND< 2.00	Styrene	ND< 2.00
Chloroform	ND< 2.00	1,2-Dichlorobenzene	ND< 2.00
Dibromochloromethane	ND< 2.00	1,3-Dichlorobenzene	ND< 2.00
1,1-Dichloroethane	ND< 2.00	1,4-Dichlorobenzene	ND< 2.00
1,2-Dichloroethane	ND< 2.00		
1,1-Dichloroethene	ND< 2.00	Ketones	Results in ug / L
cis-1,2-Dichloroethene	ND< 2.00	Acetone	ND< 10.0
trans-1,2-Dichloroethene	ND< 2.00	2-Butanone	ND< 5.00
1,2-Dichloropropane	ND< 2.00	2-Hexanone	ND< 5.00
cis-1,3-Dichloropropene	ND< 2.00	4-Methyl-2-pentanone	ND< 5.00
trans-1,3-Dichloropropene	ND< 2.00		
Methylene chloride	ND< 5.00	Miscellaneous	Results in ug / L
1,1,2,2-Tetrachloroethane	ND< 2.00	Carbon disulfide	ND< 5.00
Tetrachloroethene	ND< 2.00	Vinyl acetate	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00		
1,1,2-Trichloroethane	ND< 2.00		
Trichloroethene	ND< 2.00		
Trichlorofluoromethane	ND< 2.00		
/inyl chloride	ND< 2.00		
FLAP Number 10958	Method	: EPA 8260B	Data File: V44911

ELAP Number 10958

Method: EPA 8260B

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

Signature:

Bruce Hoogesteger: Technical Director

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

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: DAY Environmental

Client Job Site:	62-64 Scio Street	Lab Project Number:	07-1878
	Rochester, NY	Lab Sample Number:	6638
Client Job Number:	3869S-06		
Field Location:	MW-2	Date Sampled:	05/30/2007
Field ID Number:	N/A	Date Received:	05/30/2007
Sample Type:	Water	Date Analyzed:	06/05/2007

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	ND< 2.00	1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00	1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00		
n-Propylbenzene	ND< 2.00	Miscellaneous	
Isopropylbenzene	ND< 2.00	Methyl tert-butyl Ether	ND< 2.00
p-Isopropyltoluene	ND< 2.00		
Naphthalene	ND< 5.00		
ELAP Number 10958	Method	I: EPA 8260B	Data File: V44911.D

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

Signature:

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Bruce Hoogesteger: Technical Director

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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: DAY Environmental

Client Job Site:	62-64 Scio Street Rochester, NY	Lab Project Number: Lab Sample Number:	
Client Job Number:	3869S-06		
Field Location:	MW-3	Date Sampled:	05/30/2007
Field ID Number:	N/A	Date Received:	05/30/2007
Sample Type:	Water	Date Analyzed:	06/05/2007

- -

Halocarbons	Results in ug / L	Aromatics	Results in ug / L
Bromodichloromethane	ND< 20.0	Benzene	1,660
Bromomethane	ND< 20.0	Chlorobenzene	ND< 20.0
Bromoform	ND< 20.0	Ethylbenzene	1,530
Carbon Tetrachloride	ND< 20.0	Toluene	1,260
Chloroethane	ND< 20.0	m,p-Xylene	4,170
Chloromethane	ND< 20.0	o-Xylene	706
2-Chloroethyl vinyl Ether	ND< 20.0	Styrene	ND< 20.0
Chloroform	ND< 20.0	1,2-Dichlorobenzene	ND< 20.0
Dibromochloromethane	ND< 20.0	1,3-Dichlorobenzene	ND< 20.0
1,1-Dichloroethane	ND< 20.0	1,4-Dichlorobenzene	ND< 20.0
1,2-Dichloroethane	ND< 20.0		
1,1-Dichloroethene	ND< 20.0	Ketones	Results in ug / L
cis-1,2-Dichloroethene	ND< 20.0	Acetone	ND< 100
trans-1,2-Dichloroethene	ND< 20.0	2-Butanone	ND< 50.0
1,2-Dichloropropane	ND< 20.0	2-Hexanone	ND< 50.0
cis-1,3-Dichloropropene	ND< 20.0	4-Methyl-2-pentanone	ND< 50.0
trans-1,3-Dichloropropene	ND< 20.0		
Methylene chloride	ND< 50.0	Miscellaneous	Results in ug / L
1,1,2,2-Tetrachloroethane	ND< 20.0	Carbon disulfide	ND< 50.0
Tetrachloroethene	ND< 20.0	Vinyl acetate	ND< 50.0
1,1,1-Trichloroethane	ND< 20.0		
1,1,2-Trichloroethane	ND< 20.0		
Trichloroethene	ND< 20.0		100 March 100 Ma
Trichlorofluoromethane	ND< 20.0		
Vinyl chloride	ND< 20.0		
ELAP Number 10958	Method	EPA 8260B	Data File: V44912.D

ELAP Number 10958

Method: EPA 8260B

Data File: V44912.D

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

Signature:

Preliminon Bruce Hoogesteger: Technica Director

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

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: DAY Environmental

Client Job Site:	62-64 Scio Street	Lab Project Number:	07-1878
	Rochester, NY	Lab Sample Number:	6639
Client Job Number:	3869S-06		
Field Location:	MW-3	Date Sampled:	05/30/2007
Field ID Number:	N/A	Date Received:	05/30/2007
Sample Type:	Water	Date Analyzed:	06/05/2007

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	ND< 20.0	1,2,4-Trimethylbenzene	1,210
sec-Butylbenzene	ND< 20.0	1,3,5-Trimethylbenzene	249
tert-Butylbenzene	ND< 20.0		
n-Propylbenzene	154	Miscellaneous	
Isopropylbenzene	79.9	Methyl tert-butyl Ether	ND< 20.0
p-Isopropyltoluene	ND< 20.0		
Naphthalene	438		
ELAP Number 10958	Method	1: EPA 8260B	Data File: V44912.D

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

Signature:

Prelimina Y2 Bruce Hoogesteger: Technical Director

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PARADIGM ENVIRONMENTAL

CHAIN OF CUSTODY

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(585) 647-2530 • FAX: (585) 647-3	• (800) 724-1997 3311		Rect	Rochester	$^{state:}\mathcal{N}\mathcal{Y}$	^{ZIP:} 14614				STATE: ZIP:	TURNAROU	TURNAROUND TIME: (WORKING DAYS)	(ING DAYS)		
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