

Engineering and constructing a better tomorrow

July 24, 2009

Mr. Brian Jankauskas

New York State Department of Environmental Conservation

Division of Environmental Remediation

Remedial Bureau E, 12th Floor

625 Broadway

Albany, New York 12233-7012

Subject: Vapor Investigation Report – Amendment 1

Eugene's Dry Cleaners, Site No. 1-52-157

Work Assignment #D004434-27

MACTEC Engineering and Consulting, P.C., Project No. 3612072087

Dear Mr. Jankauskas:

In March, 2009, MACTEC Engineering and Consulting, P.C. (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC), conducted additional field sampling as part of a Vapor Investigation (VI) at the Eugene's Dry Cleaners site (Site) (Site # 1-52-157) in the town of Babylon, Suffolk County (Figure 1). This letter report documents the scope of work and the results of sampling performed.

The Site is the location of a former dry cleaning facility with known releases of organic chlorinated solvent chemicals. This VI was conducted in accordance with the NYSDEC requirements described in Work Assignment No. D004434-27, dated March 28, 2007 (NYSDEC, 2007), and with the April 2006 Superfund Standby Contract No. D004434 between the NYSDEC and MACTEC. The additional activities were described in Amendment 1 to the WA, which was approved by the NYSDEC in February 2009 (NYSDEC, 2009). Additional details on Site History and previous VI results are provided in the Final Vapor Investigation Report (MACTEC, 2008).

Amendment 1 activities were conducted in accordance with procedures described in an earlier Work Plan (WP) (MACTEC, 2007). For the March 2009 field work, MACTEC prepared an

updated Site-specific Health and Safety Plan (HASP) (MACTEC 2009) that supports a program HASP (MACTEC 2005). Sampling methods and equipment were the same as those described in the 2008 VI Report. Air and soil vapor samples were analyzed by Con-Test Laboratory of East Longmeadow, Massachusetts (see Attachment 6). The groundwater samples were analyzed by Mitkem Laboratory of Warwick, Rhode Island. Both are New York State Department of Health (NYSDOH)-approved and Environmental Laboratory Accreditation Program-certified laboratories and were the laboratories used during the earlier sampling work at the Site.

AMENDMENT 1 SCOPE OF WORK

The March 2009 additional sampling event included the following activities:

- Installation of two permanent sub-slab sampling points at Structure 05 (05A and 05B),
- Indoor Air Sampling at one structure (05),
- Installation of two monitoring wells (PW-9 and PW-10),
- Abandonment of one existing monitoring well (PW-6),
- Groundwater sampling of eight on-site monitoring wells, and
- Elevation survey of the eight wells

These activities are documented in more detail below. Sample locations are illustrated on Figure 2.

<u>Indoor Air Sampling.</u> MACTEC collected a second round of basement air samples at Structure 05, a commercial structure located adjacent and to the east of the former dry cleaner. When first sampled in January 2008, basement air in the crawlspace of Structure 05 contained low levels (9.8 micrograms per cubic meter $[\mu g/m^3]$) of tetrachloroethene (PCE). No sub-slab sample was collected at that time.

On March 23, 2009, two permanent sub-slab sampling points were installed in the crawlspace of Structure 05. Two sub-slab samples (ECSS05A and ECSS05B) and one basement air sample (ECBA05C) were collected over a 24-hour period starting on March 24, 2009. A sample of the outdoor (ambient) air (ECAA003) was also collected over the same time period from a location inside the Site fence to the west of Structure 05.

Soil vapor samples were collected into clean-certified, SUMMA-type canisters. In all cases, flow rates were less than 0.2 liters per minute, as requested by NYSDOH. Samples were shipped to Con-Test laboratory and analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15 with minimum reporting limits of 1.0 ug/m³. March 2009 indoor air results are attached in Table 1.

The Indoor Air Quality Questionnaire and Inventory Form are attached in Appendix A. Photographs of the deployed canisters are attached in Appendix B.

Monitoring Well Installation. On March 24 and March 25, 2009, Aquifer Drilling and Testing (ADT) of New York, under subcontract to MACTEC, installed two monitoring wells in the city of Babylon right-of-way south of the Site. MACTEC worked closely with the NYSDEC, the Site property owner, neighboring property owners, and utility companies while obtaining access to these exploration locations. To assist the assessment of groundwater flow direction at the Site, two Geoprobe® borings were completed as monitoring wells (PW-9 and PW-10). These locations were chosen to determine groundwater conditions down-gradient to the Site and to replace an existing monitoring well (PW-6) that was found to be obstructed.

ADT used a Geoprobe[®] 6610 DT rubber-mounted track rig sampling device to collect soil and install monitoring wells. The Geoprobe[®] pushed and/or hammered rods and probe tips into the subsurface for soil collection. Soils were collected in a two-inch acetate tube using a 5-foot long core sampler. Upon retrieval, the tubes were removed from the core barrel and opened lengthwise to provide access to the soils. Soils were logged and based on the PID readings and physical evidence such as color or odor. Visible contamination or odors were not detected in either boring.

Groundwater at the Site was encountered at approximately 6 feet bgs. The two-inch diameter monitoring wells were installed after soils were removed from each boring, by advancing four-inch hollow stem augers (HSA). Monitoring wells were constructed using two-inch inside diameter schedule 40 polyvinyl chloride (PVC), with 10 foot lengths of 0.01-inch machine slotted well screens. The wells were screened across the water table to determine water table elevations and provide data to map water table elevations. The wells were constructed with #00N sand pack from the well bottom to two feet above the screen top, a minimum two feet of bentonite seal placed above the sand pack, and native soil as backfill. Wells were sealed at the ground surface with

Portland Cement. The wells were fit with a two-inch compression cap and a six-inch flush mount road box. Soil boring and monitoring well construction field data records are included in Appendix A. The wells were developed no sooner than 24 hours after installation by using pump and surge techniques as described in the Section 4.4.4 of the QAPP (MACTEC, 2007).

<u>Monitoring Well Abandonment.</u> Monitoring well PW-6, an existing well, was abandoned due to an obstruction that prevented sampling. PW-6 was overdrilled using HSAs to remove a section of the well riser. The resulting borehole was backfilled with bentonite and native soil to the ground surface.

Groundwater Elevations. Groundwater level measurements were collected from the eight existing monitoring wells on Site on March 24, 2009. Well caps were opened and the wells were allowed to equilibrate to atmospheric pressure. The depths to water were measured from the top of well risers using a conductivity probe. Groundwater table elevations were calculated from the well riser elevations. Well information and groundwater measurements are presented in Table 2. Groundwater elevation contours at the Site are detailed in Figure 3.

Groundwater Sampling. To assess groundwater conditions at and adjacent to the Site, eight monitoring wells were sampled. Groundwater samples were obtained from March 24 through March 26, 2009 using low-flow sampling procedures as described in the WP. Groundwater parameters including water levels, turbidity, temperature, dissolved oxygen, specific conductance, pH and redox potential were recorded on a field data record. Low flow sampling requirements were met while sampling these eight monitoring wells. Groundwater samples were submitted to Mitkem Laboratories for analysis for VOCs by Method 8260.

Groundwater field data records are attached in Appendix A. The March 2009 groundwater sampling results are attached in Table 3.

Elevation Survey. An elevation survey was performed by YEC, Inc. The survey provided Sata Plan coordinates for all well locations and determined well rim and riser elevations in NACD88 to 0.01 foot accuracy. These elevations are provided on Table 3.

DATA USABILITY ASSESSMENT

MACTEC reviewed the laboratory data results to establish that the results met data quality objectives.

Project chemist review was completed based on NYSDEC Division of Environmental Remediation

guidance for Data Usability Summary Reports (DUSR) (NYSDEC, 2002). The review included

evaluations of sample collection, data package completeness, holding times, quality control data

(blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data

transcription, electronic data reporting, calculations, and data qualification.

Air samples and soil vapor samples were analyzed by Con-Test Analytical Laboratory of East

Longmeadow, Massachusetts for VOCs by USEPA Method TO-15. Groundwater samples were

analyzed by Mitkem Laboratory of Warwick, Rhode Island. Both laboratories provided Category

B deliverables as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2000).

Separate DUSRs were prepared for the groundwater samples and the air/soil vapor samples

(Attachment C). With the exception of the items discussed in the DUSR, the results are interpreted

to be usable as reported by the laboratory. The chemist review added various data validation

qualifiers, as dictated by the guidelines. These include:

• U indicates that the analyte was not detected above the reported detection limit

UJ indicates that the analyte was not detected above the reported detection limit

and the detection limit is estimated

• J indicates that the concentration is estimated

RESULTS

Summary tables presenting detected compounds are presented in the following tables:

Table 1:

March 2009 Indoor Air Results

Table 3:

March 2009 Groundwater Results

<u>Indoor Air.</u> Two permanent sub-slab sampling points were installed in the basement crawlspace at

Structure 05. At sub-slab sample ECSS05A (located near the west wall of Structure 05 and therefore

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closest to the nearby former dry-cleaner) PCE was reported at 3,400 $\mu g/m^3$. PCE in ECSS05B was reported at 300 $\mu g/m^3$. Crawlspace air sample ECBA05C contained PCE at 2.1 $\mu g/m^3$. This is slightly lower than the result from 2008 (9.8 $\mu g/m^3$).

In June 2009, a sub-slab vapor mitigation system was installed in the western portion of the basement crawlspace at Structure 05.

Groundwater. Groundwater samples from Site monitoring wells contained low levels of chlorinated hydrocarbons. The highest reported levels of PCE (43 J micrograms per liter (μg/L) and TCE (5.2 J μg/L) were reported at well PW-8. PW-10, located downgradient of PW-8, contained PCE and TCE as well as cis-1,2-dichloroethene and vinyl chloride, two compounds that may indicate that natural biodegradation is occurring as impacted groundwater migrates southward. No VOCs were detected in the sample from PW-4, located in the neighborhood to the south of the Site.

MACTEC understands that the NYSDEC will review this data and, in consultation with the New York State Department of Health (NYSDOH), determine if further characterization is warranted

MACTEC appreciates the opportunity to support the NYSDEC at the Eugene's Dry Cleaners Site.

Sincerely,

MACTEC Engineering and Consulting, P.C.

John W. Peterson.

Principal Professional

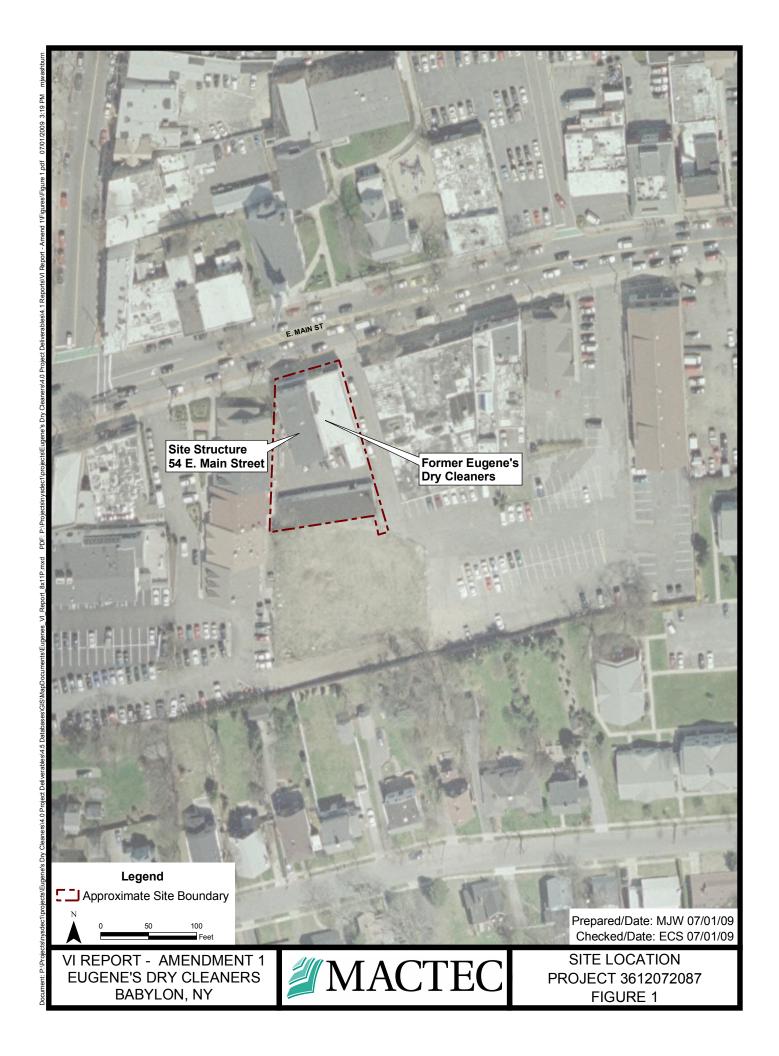
Éric C. Sandin

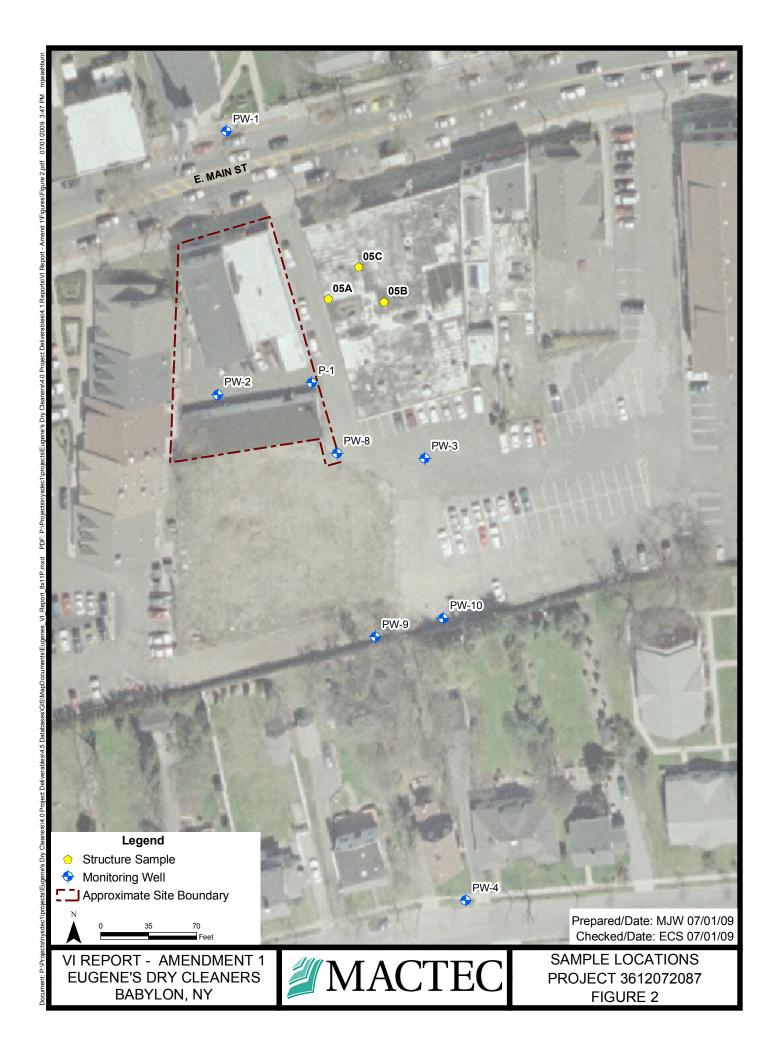
Project Manager

Enclosures (3)

REFERENCES

- MACTEC Engineering and Consulting, Inc. P.C., 2005. *Program Health and Safety Plan*. Prepared for New York State Department of Environmental Conservation, Albany, New York. 2005.
- MACTEC Engineering and Consulting, Inc. P.C., 2008. Vapor Investigation Work Plan Eugene's Dry Cleaner Site No. 1-52-157, Final, August 2007
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- New York State Department of Environmental Conservation (NYSDEC), 2000. "Analytical Services Protocols"; 6/00 Edition, June 2000.
- New York State Department of Environmental Conservation (NYSDEC), 2002. "Guidance for the Development of Data Usability Reports"; Division of Environmental Remediation; 2002.
- New York State Department of Environmental Conservation (NYSDEC), 2007. Work Assignment #D003826-26, Active Industrial Uniform, Site # 1-52-125 letter dated March 28, 2007.
- New York State Department of Environmental Conservation (NYSDEC), 2009. Letter from Cruden, Michael J. to Weber, William (MACTEC) February 6, MACTEC Engineering and Consulting, Portland, Maine





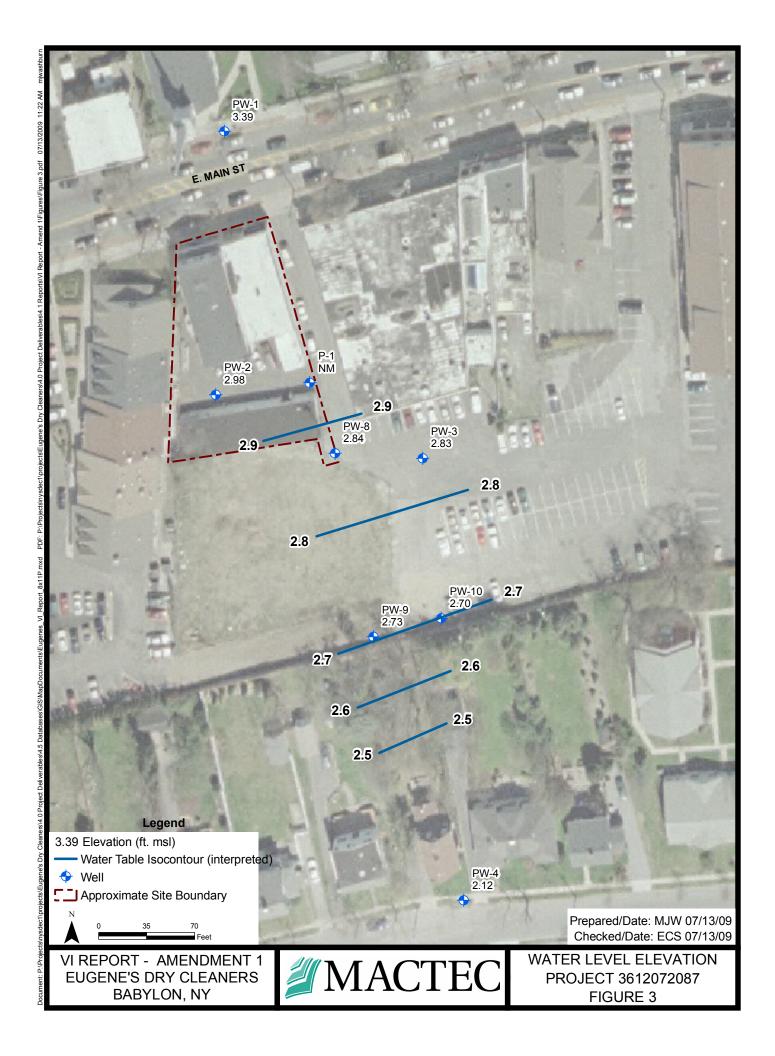


Table 1 - March 2009 Indoor Air Sampling Results

Structure ID	Ambie	ent Air			Struct	ure 05		
Location ID	AA	-03	BA-	-05C	SS-	05A	SS-	05B
Field Sample ID	3/24/	2009	3/24/	2009	3/24/	2009	3/24/	2009
Field Sample Date	ECA	A003	ECB.	A05C	ECS	S05A	ECS	S05B
QC Code	F	S	F	S	F	S	F	S
Parameter Name	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.19	UJ	0.19	UJ	0.54		0.67	J
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.27	_	0.49		0.76	U	0.76	U
1,2,4-Trimethylbenzene	0.18	U	0.46		0.5	U	0.5	U
1,4-Dichlorobenzene	0.21		5.1		0.67		0.88	
2-Butanone	0.13	U	3.5		2.4	U	4.5	
2-Hexanone	0.14	U	0.58		0.4	U	0.4	U
2-Propanol	0.7	J	3.3		3.3	J	2.6	
Acetone	11	UJ	12	UJ	28		38	J
Benzene	0.12		0.52		0.32	U	0.74	
Carbon disulfide	0.12		0.12	U	1.4		2.9	
Carbon tetrachloride	0.22		0.4		0.62	U	0.62	U
Chloroform	0.17	U	0.17	U	1.4		1.7	
Chloromethane	1.1		1.1		0.2	U	0.2	U
Dichlorodifluoromethane	2		2		2.2		3.9	
Ethanol	4.2		36	J	3.7		4.8	
Ethyl benzene	0.16		0.25		0.44		0.44	U
Heptane	0.14		0.62		0.4	U	0.79	
Hexane	0.13	U	0.42		1.2		0.82	
Methylene chloride	6.6		1.7	U	2.9	U	2.6	U
Tetrachloroethene	0.24		2.1		3400		300	
Toluene	0.14		4.4		0.66		2	
Trichloroethene	0.19	U		U	8.7	_	0.54	U
Trichlorofluoromethane	0.96		1.1		1		1.3	
Xylene, m/p	0.31		0.64		0.86		0.86	U
Xylene, o	0.16	U	0.26		0.44	U	0.44	U

Notes:

Only Detected Compounds shown.

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SS = Sub-Slab Soil Vapor; BA = Basement Air

Results in microgram per cubic meter (µg/m³)

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated value

Detections are indicated in BOLD

Created by: BAS 05/13/2009 Checked by: TC 05/13/2009

Table 2: Survey Data and Water Level Measurements

Well ID	Northing	Easting	Casing Elevation	PVC Rim Elevation	Measured Depth to Water**	Water Elevation
PW-1	193878.66	1172198.14	10.13	9.83	6.44	3.39
PW-2	193686.92	1172192.01	11.05	10.85	7.87	2.98
PW-3	193640.51	1172342.86	9.78	9.59	6.76	2.83
PW-4	193318.14	1172372.79	7.46	7.31	5.19	2.12
PW-8	193643.95	1172278.86	10.38	10.20	7.36	2.84
PW-9	193510.31	1172307.02	9.38	8.65	5.92	2.73
PW-10	193523.86	1172356.50	8.99	8.69	5.99	2.70
P-1	193695.22	1172260.62	11.07	NM*	NM	NA

Notes:

Elevations are in feet above mean sea level (NAVD88)

Wells were surveyed by YEC, Inc. April 2009

NM = Not measured NA = Not available

Prepared by: ECS 7/1/2009 Checked by: BAS 7/13/2009

^{*} Outer casing only was surveyed at P-1, a 3/4-inch PVC piezometer with loose inner PVC.

^{**} Water level measurements were obtained on 3/24 and 3/25/2009.

Table 3 - March 2009 Groundwater Sample Results

	Location	P-1		PW-1	PW-2		PW-3	PV	W-3	PV	V-4	PV	V-8	PV	V-9	PV	W-10
Field Sa	ample Date	3/24/200)9	3/25/2009	3/25/2009		3/24/2009	3/24	/2009	3/24/	2009	3/24	/2009	3/26	/2009	3/20	5/2009
Field	Sample ID	ECP01		ECPW1	ECPW2		ECPW3	ECPV	V3DUP	ECI	PW4	EC.	PW8	EC.	PW9	EC	PW10
	QC Code	FS		FS	FS		FS	F	FD.	F	S	F	FS	I	FS		FS
Parameter Name	Criteria	Result Qu	alifier	Result Qualifier	Result Quali	fier	Result Qualifier	Result	Qualifier								
1,2,3-Trichlorobenzene	5*	5 U		5 U	5 U		5 U	2.5	J	5	U	5	U	5	U		5 U
1,2,4-Trichlorobenzene	5*	5 U		5 U	5 U		5 U	1.4	J	5	U	5	U	5	U		5 U
Chloroform	7*	5 U		5 U	5 U		5 U	1.1	J	5	U	5	U	5	U		5 U
Cis-1,2-Dichloroethene	5	5 U		5 U	5 U		5 U	5	U	5	U	3.3	J	5	U	9	3 J
Hexachlorobutadiene	0.5*	5 U		5 U	5 U		5 U	2.3	J	5	U	5	U	5	U		5 U
Methyl Tertbutyl Ether	10	1.4 J		5 U	5 U		5 U	5	U	5	U	5	U	5	U	1.0	6 J
Naphthalene	10	5 U		5 U	5 U		5 U	1.9	J	5	U	5	U	5	U		5 U
Tetrachloroethene	5	1.7 J		5 U	5 U		5 U	5	U	5	U	43	J	1.0	J	13	2 J
Trichloroethene	5	5 U		5 U	5 U		5 U	5	U	5	U	5.2	J	5	U	4.	1 J
Vinyl chloride	2	5 U		5 U	5 U		5 U	5	U	5	U	5	U	5	U	1.1	1 J

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

Criteria = Values from Technical and Operational

Guidance Series (TOGS) 1.1.1, Ambient Water

Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 2008).

* = New York State Standard

Detections are indicated in BOLD

Highlighted results exceed criteria

4.1 Table_3.xls Page 1 of 1

Created by: BAS 05/12/2009 Checked by: TC 05/12/2009

ATTACHMENT A

MARCH 2009 FIELD DATA RECORDS

INDOOR AIR SAMPLING RECORD Project Name: Evgene's Dry Cleaners Client: NYSDEC Location ID: Talbot's Project Number: 3612072087 Collector: PSM/ BAS Date: 3.22.09 SUMMA Canister Record Information: INDOOR AIR - EIRST FLOOR INDOOR AIR - BASEMENT SUBSLAB SOIL VAPOR SAMPLE ASSOCIATED AMBIENT Flow Regulator No: 3256 Flow Regulator No: Flow Regulator No: 3345 3023 3172 Flow Regulator No: Flow Rate (mL/min): Flow Rate (mL/min): Flow Rate (mL/min): Flow Rate (mL/min): Canister Serial No: 1853 Canister Serial No: Canister Serial No: 1784 1199 1386 Canister Serial No: 3.23.09 3.23.09 3.23.09 3.23.09 Start Date/Time: Start Date/Time: Start Date/Time: 1628 1615 1633 Start Date/Time: 2053 -30+ Start Pressure ("Hg): Start Pressure ("Hg): Start Pressure ("Hg): -30 -304 -29 Start Pressure ("Hg): Stop Date/Time: 3 - 24 - 09 3.24.09 3.24-09 3-24-09 Stop Date/Time: Stop Date/Time: 1648 1640 1651 Stop Date/Time: 1706 Stop Pressure ("Hg): Stop Pressure ("Hg): Stop Pressure ("Hg): - 8 -12 Stop Pressure ("Hg): Sample ID: Sample ID: Sample ID: Sample ID: ELSS 05A ECAA003 ELBA 05L ELSS 05 B Other Sampling Information: Finished Basement, Crawl Crawi crawl Direction from Story/Level: Story/Level: Crawl Space, Unfinished sporce space Building: W space Basement Thickness Room Distance from evaul 24 2. ti Floor Slab Thickness: Room: Building: grace Potential Vapor Entry 50mpf Potential Vapor Entry Potential Vapor Entry Distance from Sumpl some / Points: entition Points: Roadway Points: util HES Concrete Floor Surface: Floor Surface: Floor Surface: Ground Surface: Concrete asphalt concrete Noticable Odor: Noticable Odor: Noticable Odor: Noticable Odor: none none none none PID Reading (pp): 200 F (F) PID Reading (ppb): PID Reading (ppb): PID Reading (ppb): 0 20.1 ntake Hoicht Intake Hieght Above 7" below 31 Intake Depth/I-leight: Intake Height: 2' Ground Surface: Helson test Helium Test Conducted? Indoor Air Temp: 55°F Intake Tubing Used? No Yes Breakthrough %:

Comments/Location Sketch:



AIR SAMPLING RECORD

MACTEC ENGIN	EERING & CO	ONSULTING,	NC.					. •	PAGE _1 OF	1
FIELD DATA	RECORE	- GROUN	IDWATER	RSAMPL	ING				•	
PROJECT	Evgene	is Dry	Cleaners		3	6120720	87		DATE 3.24.	9
WELL ID	P-1						1.4		BOTTLE	
SAMPLE ISIS ID	ELP	21			START	1310	END 1415	2	TIME 1406	
QC SAM		DUPLICATE ID								
COLLEC		MS ID	16						•	•
		· MSD ID	_/							
WATER LEVEL / \	WELL DATA				PROTE			PROTECTIV		
MEASURED WELL DEPTH	FT		TORICAL L DEPTH	4.7°=⊤ (TC	OR) (FROM	GROUND)	FT	CASING / W		FT
DEPTH TO WATER	- FT		GTH	- FŢ	WELL	ER 3/4	IN	WELL MATERIAL	PVC	
HEIGHT OF WATER COLUM	IN T	FT x	0.16 GAL/FT (2 0.65 GAL/FT (4			GAL/VOL	TOTAL	VOLUME PURG	ED 3.7 G	SAL
WATER COLUM		—╜^님	1.5 GAL/FT (6					VOLUME I ONO		
Total purge volu	me = (ml per mir	ı.) x lime (min.) x	0.00026 gal/ml		AMBIEN	IT AIR D. () PPM	WELL MOU	O.0 P	РМ
PURGE DATA						uslem				
TIME	DEPTH TO	PURGE RATE	TEMP.		TURBIDITY (NTU)	SPEC. COND.	D.O. (ma/L)	ORP (mV)	Comments	
1317	WATER (II)	(nim/lmi)	(degrees C)	oH (unils)	on L/min	411111111111111111111111111111111111111	D.O. (Md/L)	ORF (IIIV)	clear	
1321	 2~~~		····		27.2			.,	31	
1322	(49	nect d	o YSI						11	
1325		300	9,55	6.58	6.75	307	10.31	-25.8	j.	
1330		300	9,94	6.66	5,84	308	6.93	-55.8	21	4
1335	-	300	4.47	6.68	4 .2	309	4.23	-69.2	J,	_
1340		300	10.00	6.70	2,21	308	2.36	-74.3	",	_
1345		300	10.08	6.71	1,98	308	1.23	-78.9	"	_
1350		300	80.01	6.71	1.46	308 308	0.79	-81.4	11	-
1355		300	10.14	6.72	1.32	308	0.63	-81.0	17	
1405	_	300	10.16	6.70	0.98	307	0.62	-81.0	11	
			L				L			
EQUIPMENT DO		N	140		-	he ECP				
PURGING SA		TALTIC PUMP	DECO	N FLUIDS US METHANOL			ELECT	RIC COND. PRO		
	BLADE	ERSIBLE PUMP ER PUMP		POTABLE W			· KECK	ACTIVATED	OBE	
	TEFLO	ILICON TUBING IN/SILICON TUB	ING ·	DEIONIZED HEXANE NITRIC ACIE			X non	·	- '	
		ERA E FILTER SIVAC FILTER	X	NONE- Dedi			NUMBER OF F	ILTERS USED_	_ J	
	H Prices	SVAC FILTER								
ANALYTICAL PA	ARAMETERS		METHOD)	PRESER'	VATION V	OLUME	SAMPLE	SAMPLE BOT	TLE
TX1 -1	TLLVOCS		NUMBER	FILTER	RED METH	IOD RE	QUIRED	COLLECTED	ID NUMBER	
			8260 B	N	11	-1/ 2 4%.	x 40mL			
			•			-				
					•					
					•					
NOTES AND SA	MPLE OBSER	VATIONS				Stabiliza	ation is considered a	chieved when three	consecutive readings are take	nat 3 to 5 min.
ľ		licator	does not	fit		intervals	within the following	limits:	10%; Sp. Cond 3%; pH - 0.	
		Headspo				remp	5 70, FORGISHY 1078	,		, 1
l l	= 0 p	•		A *		SIGNATI	JRE:	enge de	ue_ f. Mul — B. Shaw	er
tobio	is inta	ke o	vi (Toi	z)		BECEIVE	BY:		- B.Shaw	

MACTEC ENGINEE	RING & CC	NSULTING,	NC.						PAGE OF
FIELD DATA F	RECORD	- GROUN	IDWATER	SAMPL	.ING				
PROJECT	ugene	's Dry	Cleaners		30	0120720	87	I	DATE 3.25.09
WELL ID	w-1								BOTTLE
					START C	905	END /51:	0	TIME /ODD
SAMPLE ISIS ID	ELPV					 .			
QC SAMPL		DUPLICATE ID MS ID							
COLLEGIE		MSD ID		4					
WATER LEVEL / WE	ELL DATA								
MEASURED WELL DEPTH	9,9 FT		TORICAL LL DEPTH	=T (TC	CASING	CTIVE . S STICKUP [GROUND)	FT	PROTECTIV CASING / W DIFFERENCE	ELL 225
DEPTH TO WATER	6.44 FT	(TOR) LEN	REEN GTH	FT FT	WELL DIAMET	ER 1	L IN	WELL MATERIAL	HOPE
HEIGHT OF		`	0.16 GAL/FT (2						,
WATER COLUMN	3.5	FT ×	0.65 GAL/FT (4 1.5 GAL/FT (6		0.14	GAL/VOL	TOTAL	VOLUME PURGE	ED 2.7 GAL
Total purge volume	e = (ml per min	ı.) x time (min.) x	0.00026 gal/ml	. ;	AMBIEN	IT AIR O	PPM	WELL MOU	TH 1.3 PPM
PURGE DATA			·			uslim		· · · · · · · · · · · · · · · · · · ·	
{/ IIVIL	DEPTH TO	PURGE RATE	TEMP.	all (vaila)	TURBIDITY (NTU)	SPEC. COND.	D.O. (mg/L)	ORP (mV)	Comments
0925	WATER (ft) Beg	(mL/min) N Pura	(degrees C)	pH (units)		(dilitios/CIII)	D.O. (IIIG/L)	OLVE (IIIA)	Clear
 	9.51	300	ines &		19.5				29
0932	Hook		YSI		<u> </u>				40
	9.52	300	11.17	6.57	12,5	273		191.7	#4
0943	9.52	300	11.16	657	5.76	273		192.6	44 .
0948	9.52	300	11.14	6.54	3.07	273		194,9	34
0953	9.52	300	11.21	6.53	2.76	274	,	196,0	44
0958	9.52	300	11.23	6.54	1.80	277		196.4	e,
1000	Lell	ect San	ple	ELPW	1				
									• .
	<u></u>								
	2		1						·
EQUIPMENT DOC	IMENTATIO	NI .							
EQUIPMENT DOCK	*	IN	5500				MATER LEVEL	. EQUIPMENT U	SED
	<u></u>	TALTIC PUMP	DECO	N FLUIDS US METHANOL	ĖD		ELECT	RIC COND. PRO	
	BLADE	ERSIBLE PUMP DER PUMP		LIQUINOX POTABLE W				ACTIVATED INTERFACE PRO	OBE
		ILICON TUBING N/SILICON TUB		DEIONIZED HEXANE	WATER		□		_
	WATTI IN LINI	ERA E FILTER	7	NONE- Dedi			NUMBER OF F	ILTERS USED_	
	PRESS	S/VAC FILTER	4_						
ANALYTICAL PAR	RAMETERS			· · · · · · · · · · · · · · · · · · ·					
ANALITOALITAN	VAINE LE IVO		METHOD NUMBER		PRESER'		OLUME QUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE <u>ID NUMBERS</u>
X T	LL VOL	\$	6260		H-(2x40mL		ELIPWI
							•		
					•				
							•	昌	
			•						
NOTES AND SAM	IPLE OBSER	RVATIONS							consecutive readings are taken at 3 to
Purae	e wate	diff v	headsp	ace =	0 ppm		s within the following 3 %: Turbidity 10%	=	10%; Sp. Cond 3%; pH - 0.1 unit; 0
,			·		-	SIGNAT	ure:	1 1 C	use P. Mue
						RECEIVED			BShand
						I CEIVEL			COLUMBA

CTEC ENGINEERING & CONSULTING, INC.
ELD DATA RECORD - GROUNDWATER SAMPLING
DJECT Eugene's Dry Cleaners 3612072087 DATE 3.24.09
LID PW-Z BOTTLE
START 1140 END 1400 TIME 1850
PLE ISIS ID ELPWZ
QC SAMPLES DUPLICATE ID COLLECTED MS ID
MSD ID
TER LEVEL / WELL DATA PROTECTIVE PROTECTIVE
WEASURED CASING STICKUP CASING STICKUP CASING WELL DEPTH WELL DEPTH FT DIFFERENCE 0.25 FT
PETH TO SCREEN WELL WELL TIME
WATER 7.87 FT (TOR) LENGTH FT DIAMETER IN MATERIAL
IEIGHT OF
VATER COLUMN 2.6 FT X 0.65 GAL/FT (4 IN) = 0.11 GAL/VOL TOTAL VOLUME PURGED 3.7 GAL
Total purge volume = (ml per min.) x time (min.) x 0.00026 gal/ml AMBIENT AIR OCO PPM WELL MOUTH OLG PPM
GE DATA
IME DEPTH TO PURGE RATE TEMP. TURBIDITY SPEC. COND.
WATER (ft) (mL/min) (degrees C) pH (units) (NTU) (uhmos/cm) D.O. (mg/L) ORP (mV) Comments
1200 Begin pergity & 300 intimiz
1202 8.00 -2.00300 (IM) 103 clearing
1205 Housey to YSI clear 1207 8.02 300 8.16 6.48 101 291 23.07 145,0 11
1212 8.01 300 8.35 6.53 102 286 23.06 142.8 11
1217 8.01 300 8.33 6.58 133 291 19.69 142.7 11
1222 8.01 300 8.40 6.58 72.9 287 13.92 141.6 11
1227 8.01 300 8.39 6.62 25.7 295 8.44 141.3 11
1232 8.01 300 8.45 6.62 20.7 296 8.93 141.4 11
1237 8,01 300 8.48 6.63 16.9 296 8.40 141.4 11
1242 8.01 300 8.44 6.65 14.7 298 8.36 141.6 11
1247 8.01 300 6.42 6.65 14.3 297 8.21 141.9 4
AGING SAMPLING PERISTALTIC PUMP SUBMERSIBLE PUMP BLADDER PUMP PVC/SILICON TUBING TEFLON/SILICON TUBING WATTERA WATTERA IN LINE FILTER PRESS/VAC FILTER PRESS/VAC FILTER JECON FLUIDS USED WATTER LEVEL EQUIPMENT USED WATTER LEVEL EQUIPMENT USED METHANOL LIQUINOX POTABLE WATER LIQUINOX POTABLE WATER DEIONIZED WATER HEXANE NITRIC ACID NONE- Dedicated Tubing NUMBER OF FILTERS USED
ALYTICAL PARAMETERS METHOD PRESERVATION VOLUME SAMPLE SAMPLE BOTTLE NUMBER FILTERED METHOD REQUIRED COLLECTED ID NUMBERS TLL VOLS 82608 N 1+c1/ 2x4011
TES AND SAMPLE OBSERVATIONS Stabilization is considered achieved when three consecutive readings are taken at 3
a.6 ppm for head space on purge writer Temp3 %: Turbidity 10% > than 1 NTU: DO - 10%; Sp. Cond3%: pH - 0.1 unit
the for accomplance on boase Multer
SIGNATURE Pala Jule 1. My
RECEIVED BY B. SKIW

MACTEC ENGINEERING & CONSULTING	3, INC.					PAGEOF	<u>E</u>
FIELD DATA RECORD - GRO	JNDWATER SAMP	LING					
PROJECT Eugene's bry	Cheners	36	120720	87	ı	DATE 3.24.09	
WELL ID PW-3						BOTTLE	
SAMPLE ISIS ID		START /	90	END 1/20		TIME IIIO]
		. 27					
QC SAMPLES DUPLICATE I COLLECTED MS						•	`
MSD		,			·		
WATER LEVEL / WELL DATA	,	2222	~" (=		2207547		
	HISTORICAL TO TO THE TOTAL TO THE TOTAL TO		STICKUP GROUND)	FT	PROTECTIV CASING / W DIFFERENC	ELL A 75	
WATER 6.76 FT (TOR)	SCREEN FT	WELL DIAMET	ER [IN	WELL MATERIAL	HOPE	
	0.16 GAL/FT (2 IN)		CALAGO	TOTAL	VOLUME BURGE	70 12 18 011	
WATER COLUMN 3.2 FT ×	0.65 GAL/FT (4 IN) = 1.5 GAL/FT (6 IN)	0,13	GAL/VOL	TOTAL	VOLUME PURGE	2.6 GAL	
Total purge volume = (ml per min.) x time (min	.) x 0.00026 gal/ml	AMBIEN	T AIR D.	O PPM	WELL MOU	rh D PPM	
PURGE DATA							
TIME DEPTH TO PURGE RAT	Е ТЕМР.	TURBIDITY	SPEC. COND.		•		
WATER (ft) (mL/min)	(degrees C) pH (units)	(NTU)	(uhmes/cm)	D.O. (mg/L)	ORP (mV)	Comments	
1035 Begin Purgio	4 @ 280 mL/	imin				clear	İ
1040 7.27 280		16.2				tlear	
1042 Hok up h			246	25 4 12	10 - 5	***	
		1		15.43	110.6		
	11.13 2.64	1.56	248 249	10.36	119,2 120,5	· · · · · · · · · · · · · · · · · · ·	
1057 7.30 300	10.04 5.87	1.08	253	7.83	121.6	• • • • • • • • • • • • • • • • • • • •	
1167 7.30 300			254	6.81	127.5	71	
illo Collect San				W3M5	TECOW"		
						(Sin)	
1	and	FCPWS	MS/MSD	<u> </u>			
				-			
FOLIDATATION					·		
EQUIPMENT DOCUMENTATION							
PURGING SAMPLING PERISTALTIC PUMI SUBMERSIBLE PUA BLADDER PUMP PVC/SILICON TUBIN TEFLON/SILICON T WATTERA IN LINE FILTER PRESS/VAC FILTEF	MP LIQUINOX POTABLE V NG DEIONIZED UBING HEXANE NITRIC ACI NONE- Ded	NATER) WATER		ELECTI FLOAT	EQUIPMENT US RIC COND. PRO ACTIVATED NTERFACE PRO ILTERS USED	BE	
ANALYTICAL PARAMETERS				<u>.</u>			
TLL YOLS	METHOD NUMBER FILTER 426°B N		OD RE	OLUME QUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS E4 PW / 3 /	
	W W		/4°C 2:	x TV in h		EAPW3DUP !	
	ji H	**************************************	71 •	h		EAPW3 MS M	4SP
NOTES AND SAMPLE OBSERVATIONS			Stabiliza	tion is considered a	chieved when three o	consecutive readings are taken at 3	to 5 min
	PW3MS) are	, one	intervals	within the following	limits:		
sample labelled one for headspace			Temp : SIGNATU	A	> than 1 NTU; DO - , , Ly Ir - CALL	10%; Sp. Cond 3%; pH - 0.1 unit;	1
O. C som hackeness	- govano mada	<u>~~</u>	RECEVED		77.04	A. Show	
In . Me sushings	1 - 1 De marie	·	RECEMEN			D. JANON.	

LOW FLOW GROUNDWATER SAMPLING RECORD	
PROJECT EUGENES ON CHOWN SAMPLE I.D. NUMBER	ECPW4 SAMPLETIME 1550
EXPLORATION ID: PW - 4 ST	E Babylon NY DATE 3-24-99
TIME START 1445 END 1555 JOB NUMBER	3612072087 FILETYPE NYDEC
WATER LEVEL / PUMP SETTINGS MEASUREMENT POINT TOP OF WELL RISER	PROTECTIVE PROTECTIVE
TOP OF PROTECTIVE CASING OTHER	CASING STICKUP (FROM GROUND) 6 0 FT DIFFERENCE 0.2 FT
INITIAL DEPTH TO WATER 5.19 FT WELL DEPTH (TOR)	PID WELL IN DIAMETER IN
FINAL DEPTH TO WATER FT SCREEN LENGTH WILL KNOWN FT	PID WELL YES NO, N/A MOUTH PPM INTEGRITY: CAP 1/2
DRAWDOWN VOLUME (initial - final x 0.16 (2-inch) or x 0.65 (4-inch)) RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	PRESSURE LOCKED LOCKED COLLAR LOCKED
TOTAL VOL.	REFILL DISCHARGE
PURGED GAL (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	TIMER SECONDS TIMER SECONDS SETTING
PURGE DATA SPECIFIC	PUMP DISS. 02 TURBIDITY REDOX INTAKE
DEPTH TO PURGE TEMP. CONDUCTANCE PH TIME WATER (ft) RATE (ml/m) (deg. c) (ms/cm) (units)	(mg/L) (ntu) (mv) DEPTH (ft) COMMENTS
1458 Jump of PW +4 1502 9.8 0.173 58	25 414 220 1 plus. 52
1505 - 250 9.5 0.173 5.8 1508 - 250 9.7 0.169 5.9	3.0 459 230 Ourgo water beginn
1513 - 250 9.5 0.165 5.4	3.1 127 250 to dea.
1518 - 250 94 0.163 5.1	40 61.1 270
$\frac{1523}{1528} - \frac{250}{750} = \frac{9.4}{750} = \frac{0.164}{750} = \frac{5.1}{1520} = \frac{11.4}{750} = \frac{5.1}{1520} = \frac{11.4}{750} = 11$	3.9 45.9 276
15)8 - 250 9.3 6.164 5.0	3.6 31.8 270
1537 - 250 9.4 0.167 5.	1 3.8 29.0 260
1543 - 250 9.4 0.168 15.	3.8 28.1 260
1548 - 250 94 0.168 5.1	3.8 27.8. 260
1550 Sample ting (2/W-4	Sample the
1553 prup off - remove much of	te sit in Row.
13	
EQUIPMENT DOCUMENTATION	
TYPE OF PUMP TYPE OF TUBING	TYPE OF PUMP MATERIAL TYPE OF BLADDER MATERIAL POLYVINYL CHLORIDE TEFLON
MARSCHALK BLADDER V SILASTIC SIMCO BLADDER V HIGH DENSITY POLYETHYLENE	STAINLESS STEEL OTHER NOTE
GEOPUMP OTHER	VOTHER NOVE
ANALYTICAL PARAMETERS To Be Collected NUMBER VALUES	PRESERVATION VOLUME SAMPLE METHOD REQUIRED COLLECTE HCI /4 DEG C 2 X 40 mL TAVOC
8260B 17 Ce3, 170 6	4 DEG. C 2 X 1 L AG SVOC
PEST / PCBs CLP TAL INORGANICS CLP	4 DEG. C 2 X 1 L AG PEST / PCBs HNO3 to pH <2 1 x 1 L P TAL INORGANICS
Other	
PURGE OBSERVATIONS	NOTES/LOCATIONS KETCH
PURGE WATER CONTAINERIZED YES NO NUMBER OF GALLONS GENERATED 7.9	sty of the state o
CONTRACTOR OF THE PARTY OF THE	property pro Jan XPN-8
Signature:	
Oigitable.	A Chilb
MACTEC	PW-9 PV-10 FIGURE 4-16
	LOW FLOW GROUNDWATER DATA RECORD NYSDEC QUALITY ASSURANCE PROGRAM PLAN
511 Congress Street, Portland, Maine 04101	X DW-4

MACTEC ENGINEERING & CONSULTING, INC.												
FIEL® DATA RECORD - GROUNDWATER SAMPLING												
PROJECT Evapene's Dry Clemers 3612072007 DATE 3.24.09												
WELL ID PW 9												
SAMPLE ISIS ID ECPW 8												
QC SAMPLES DUPLICATE ID												
COLLECTED MS ID MSD ID												
WATER LEVEL / WELL DATA												
MEASURED HISTORICAL PROTECTIVE CASING / WELL DEPTH FT (TOR) (FROM GROUND) FT DIFFERENCE D. Z FT												
DEPTH TO 7.36 FT (TOR) SCREEN WELL IN MATERIAL HOPE												
WATER T. 36 FT (TOR) LENGTH FT DIAMETER IN MATERIAL HTDPE HEIGHT OF 0.16 GAL/FT (2 IN)												
WATER COLUMN 3, 9 FT × 0.65 GAL/FT (4 IN) = 0.16 GAL/VOL TOTAL VOLUME PURGED 3, 9 GAL 1.5 GAL/FT (6 IN)												
Total purge volume = (ml per min.) x time (min.) x 0.00026 gal/ml AMBIENT AIR PPM WELL MOUTH PPM												
PURGE DATA												
TIME DEPTH TO PURGE RATE TEMP. TURBIDITY SPEC. COND. WATER (ft) (mL/min) (degrees C) pH (units) (NTU) (unacetern) D.O. (mg/L) ORP (mV) Comments												
1455 Begin purging @ 300 ml/min cloudy												
1458 7.42 300 58.3 clearing												
1459 Comect to YSI Electing												
1501 7.43 300 10.22 6.32 27.9 344 9.83 103.4 Clear												
1506 7.43 300 9.82 6.30 19.3 333 8.73 107.9 11												
1511 7.43 300 9.74 6.32 15.1 327 8.99 112.4 11												
1516 7.43 300 9.72 6.33 8.38 321 9.10 116.0 11 1521 7.43 300 9.67 6.34 6.22 320 8.67 117.6 11												
1526 7.43 3°0 9.70 6.34 4.57 318 7.78 117.3 " 1531 7.43 300 9.65 6.33 3.09 314 7.17 116.1 "												
1536 7.43 300 9.67 6.34 2.64 313 7.11 115.3 "												
1541 7.43 300 9.68 6.33 2.16 312 680 115.0 11												
EQUIPMENT DOCUMENTATION 1545 Collect Sample ELPWB												
PURGING SAMPLING DECON FLUIDS USED WATER LEVEL EQUIPMENT USED												
PERISTALTIC PUMP METHANOL ELECTRIC COND. PROBE SUBMERSIBLE PUMP LIQUINOX FLOAT ACTIVATED												
BLADDER PUMP POTABLE WATER KECK INTERFACE PROBE PVC/SILICON TUBING DEIONIZED WATER												
TEFLON/SILICON TUBING HEXANE WATTERA NITRIC ACID												
IN LINE FILTER NONE- Dedicated Tubing NUMBER OF FILTERS USED PRESS/VAC FILTER												
ANALYTICAL PARAMETERS METHOD PRESERVATION VOLUME SAMPLE BOTILE NUMBER FILTERED METHOD REQUIRED COLLECTED ID NUMBERS												
TCL VOCS B260B N HCI/ 2040mL EFPW9												
42												
NOTES AND SAMPLE OBSERVATIONS Stabilization is considered achieved when three consecutive readings are taken at 3 to 5 min. intervals within the following limits:												
Porge water 100 = 0 pm Temp3 %: Turbidity 10% > than 1 NTU: DO -10%: Sp. Cond3%: pH - @ lunit; ORP - 10 m												
SIGNATURE: _ P.Muller												
RECEIVED B. Show												
b.s.uw.												

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ACTEC ENGIN				R SAMPI	LING				PAGE OF 1
ROJECT	Evijene's	Dry Ci	eaners		3	6120720	87		DATE 3.26.09
/ELL ID	PW-9								BOTTLE
AMPLE ISIS ID	ELP	w a			START	1400	END 15 4	0	TIME 1535
QC SAI	MPLES	DUPLICATE ID MS ID MSD ID		6					
VATER LEVEL /	WELL DATA				PROTE	CTIVE			
MEASURED WELL DEPTH	15, 1 F	HIS T (TOR) WE	TORICAL LL DEPTH	5.1 = _{T (TC}	- CARINI	GROUND)	FT FT	PROTECTIV CASING / W DIFFERENCE	ELL
DEPTH TO WATER	5,92 F	SCI (TOR) LEN	REEN NGTH	6 FT	WELL DIAME	TER	2. IN	WELL MATERIAL	PYL
HEIGHT OF WATER COLUM	vin 9.2	X	0.16 GAL/FT (1.5	GAL/VOL	TŌTAL	VOLUME PURGE	ED 3.0 GAL
Total aurae volu		a) v lime (min) :	1.5 GAL/FT (6			NTAIR D.			
URGE DATA	ane – (iii bet mil	n.) x time (min.) x	. v.uuuzo gai/mi		AMBIEI	VI AIR	C PPM	WELL MOU	TH PPM
	DEPTH TO	PURGE RATE	TEMP.	· · · · · · · · · · · · · · · · · · ·	TURBIDITY	SPEC. COND.	E.c.	· I	
TIME	WATER (ft)	(mL/min)	(degrees C)	pH (units)	(NTU)	(ubmos/em)	D.O. (mg/L)	ORP (mV)	Comments
1457	Begin		iviez G	300	ml/min				dear
1500	5.92	300			14.9				11
1562	How Ku		SI		10.03				87
1502	5.92	300	9.21	.6.59	12.9	501		206.8	e _f
1507	5.92	300	9.28	6.55	11.5	480		199.6	l i
1512	5.92	300	9.32	6.55	8.33	480		195.3	
1517	5.92	300	9.33	6.54	6.79	481	<u> </u>	187.7	8,
1522	5,92	300	9.34	6.56	4.77	484		180.4	3,
1527	5.92	300	9.33	6.56	4.21	486		175.0	31
1532	5.92	300		6.56	2.92	486		170.9	8"
1535	Collec	Samp	HE E	-PW"					
5		<u> </u>	L						
PURGING SA	MPLING PERIS' SUBME BLADD PVC/SI TEFLO WATTE	FALTIC PUMP ERSIBLE PUMP ER PUMP LICON TUBING N/SILICON TUB		N FLUIDS USI METHANOL LIQUINOX POTABLE W DEIONIZED HEXANE NITRIC ACIC NONE- Dedic	ATER WATER		ELECT FLOAT	EQUIPMENT US RIC COND. PRO ACTIVATED NTERFACE PRO ILTERS USED	BE
ANALYTICAL PA	ARAMETERS	\$	METHOD NUMBER 8260				OLUME QUIRED 2x40mL	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS ECTIVAT
					·	-			
NOTES AND SA	MPLE OBSER		2' bgs			intervals	within the following	limits:	onsecutive readings are that 3 to 5 in 10%; Sp. Cond 3%; PH-thunit; ORP
						SIGNATU	IRE: A.	ly for	

MACTE	EC ENGIN	EERING & CO	ONSULTING,	INC.					•	PAGE OF	
FIELI	D DATA	RECOR	o - GROUI	IDWATE	RSAMPI	LING				· .	ł
PROJEC	T E	Eugene	's Dry	Cleaner	<u>.</u>	3	6120720	67		DATE 3 26 0	9
WELL ID	·	PW-10				START	1545	END 6	i.e	TIME 635	
SAMPLE	E ISIS ID	EL	PWIO			START	1377	END (TIME	
ME			DUPLICATE ID		/.			·			
	COLLEC	CTED	MS ID MSD ID		5						
WATER	R LEVEL / I	WELL DATA									
	ASURED [15.4 FT	(TOR) HIS	TORICAL LL DEPTH	5.4 =T (TC	PROTE CASING OR) (FROM	GROUND)	FT FT	PROTECTIN CASING / W DIFFERENCE	/ELL]
DEP WAT	TH TO [5,49 F	(TOR) SCI	REEN /	C FT	WELL DIAME	TER	2 IN	WELL MATERIAL	PVC]
l .	GHT OF TER COLUM	n 01.4	FT x	0.16 GAL/FT (2 0.65 GAL/FT (4		1.5	GAL/VOL	TOTAL	VOLUME PURG	ED 3.1 GAL	
				1.5 GAL/FT (6	-		-				, i
		me = (ml per mir	n.) x lime (min.) x	0,00026 gal/ml		AMBIEI	NT AIR C	PPM	WELL MOU	тн D РРМ	
l —	DATA				· · · · · · · · · · · · · · · · · · ·		ance estim				,
TIM		DEPTH TO WATER (ft)	PURGE RATE (mL/min)	TEMP. (degrees C)	pH (units)	TURBIDITY (NTU)	SPEC. COND. (uhmos/cm)	D.O. (mg/L)	ORP (mV)	Comments	
I —	555	Begin		ing (<u>ම</u> 36ට	int/m	in	ADD.		clear	
. —	558 559	6.01	300	Ve		29.5		· —		Jr	
	600	HOOK. 6.01	up to 300	YSI 9.40	6.76	21.0	519		~18.4	9 /	1 1
	605	6.00	300	9.46	6.83	20,1	521		-60.5		1
1 —	610	6.01	300	9.53	6-85	17.4	520		-71.2	ie	
	1615	6.01	300	4152	6.86	12.5	520		-60,9	·	
	620	6.01	300	9,57	6.67	7.80	517	450	-83.2	υġ	
	625	6.01	300	9.53	6.68	6,69	520	Sic.	- 86.3	. 7/	
1 -	635	6.01	300	9.54	688	5.78	517	-	- & % &	1/	
1	635	_ Collei	T Sa	myle	ECPU	V/6					-
	<u> </u>							1			J
EQUIP	MENT DO	CUMENTATIO	N .								
PURGI	PURGING SAMPLING DECON FLUIDS USED WATER LEVEL EQUIPMENT USED PERISTALTIC PUMP METHANOL ELECTRIC COND. PROBE SUBMERSIBLE PUMP LIQUINOX FLOAT ACTIVATED BLADDER PUMP POTABLE WATER PVC/SILICON TUBING DEIONIZED WATER TEFLON/SILICON TUBING HEXANE WATTERA NITRIC ACID IN LINE FILTER NONE- Dedicated Tubing NUMBER OF FILTERS USED PRESS/VAC FILTER										
ANAL`	YTICAL PA	RAMETERS	i 						0.01515		
	*	ZL Voc	Š	METHOD NUMBER B2601				OLUME COUIRED 2x40 ml	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS EE PW 10	/
NOTE		MPLE OBSER		h 2 5	- ¥02-			ation is considered at within the following		consecutive readings are taken at	3 to 5 min.
	gura st i	e wat	etroleun	odor	16m			3 %: Turbidity 10%		10%; Sp. Cond 3%; pH - 0.1 unit P.M. B. Shaw	: ORP - 10

		Test Boring L	00		
Project Fugen	's Dry (Lenner	Boring/Well No.	Project No. 361207208	7
Client NYSDEC	Site	Babylon, NY	Sheet No.	1 of 2	
Logged By B Sha	Groun	d Elevation 9.38 us Start	arch 24,2009	March 24, 200	9
Drilling Contractor	14-19		AWENTUK Rig Type		rte
Drilling Method		· · · · · · · · · · · · · · · · · · ·	P.I.D. (eV) Casing S	NA 31/8	. "
Soil Drilled	ock Drilled	Total Depth 16 Depth t	o Groundwater/Date 25/25/25/25/25/25/25/25/25/25/25/25/25/2	Piez Well Borin	9
	SPT Blows/6" or Core Rec./Rqd. % SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Notes on Drilling PI Meter Field Scan PI Meter Head Space	Lab Tests
7 35/		0-1.5 DKolik, 5 locan, dup, WG, d SP/ND, some root/ 1.5-3.8 brown. She dup, PS, NP, Dense gravel, well cirale 3.8-5 Ltyellarish gravelly Sund, 10 RS, well rounded dap, NP	lense Imperse Tressonic orange sand British. Some fine d brann oce Imperse	 	1 . +2
5-1	5	1	7/13/09)-		
			TYPICAL T JALITY ASSURANC	FIGURE 4-6 FEST BORING LOG E PROGRAM PLAN	i I

9404014D(z) L33

等 经验证的			Test Boring L	,				
Project Eug	we's Dry	Chan	ers	Boring/Well No.	Project	No. 2072087		
Client NYS	DEC	Site	Babylin, NY	Sheet		_ of		
Logged By B	Shaw	Ground	Elevation Start I	oate 24,2009	Finish Date	ch 24, 2009		
Drilling Contract	tor ADT - N	/ E	Villaria Nama and a t	a wan ice Rig T	1 ·	1-600mbe		
Drilling Method	IHSA				g Size JA	Auger Size,		
Soil Drilled	 	NAT	Total Depth 16 Depth to	Groundwater/Date (702); 03/25/2604	Piez	Well Boring		
			10 3.16		M	onitoring		
eet) Lo. & tion/ (Feet)	Type ws/6" Rqd. °	/Ft.)	Sample	SS	- HO - CF	opm) v		
Depth(Feet) Sample No. & Penetration/ Recovery (Feet)	Sample Type SPT Blows/6" or Core Rec./Rqd. %	(Blows/Ft.) Graphic Log	Description		Notes on Drilling	Space Space		
Sal Pe Rec	Sa SP Core	= 0	M	Č	Notes of Meter Field Scan	PI Meter Head Space		
5			6-10 Hellewish	-orange				
φ <u></u>			5-10 Hyellowish sand of some gr gravel to Mccar	aicl, fine-	4,(
			gravel to Mcan	se sund,				
h <u>-</u>]			DS, NP, 1 wie, d Seturated (Co	emp 10				
30			well rounded to	rounded.	0.6			
5.0			the gravels		1 6			
					1.3	3 4		
19-			•		6, 6			
				-	. هـ ۲	- (
10-					+			
1 - 1								
			16					
				. \				
			MW (07	113/04)	Į.	FIGURE 4-6		
		•	NVCDEC OF		L TEST BO	ORING LOG		
	NYSDEC QUALITY ASSURANCE PROGRAM PLAN ———————————————————————————————————							

9404014D(z) L33

Overburden Well Constr	uction Diagr	am		Well No.:	PW-9
Project No.: 3612072087	Project Name:	Eugens's	Doy C	kaners	
	Project Area:	Babylon,	NY -	- NYSD	ec
Contractor: ADT, NV Driller: J	iri Kameniu	Method:	at Push	JHSA	
Logged By: B. Shaw	•	Date Started: //	1grah 24	Completed	1:03-24-69
Checked By: PASYGURN Date	= 7 13 09	Well Developme	ent Date: M	arth 25,	2009
Not To Scale	1				
Lock Identification:	<u> </u>	Elevation of	f top of	9.38 ms	A STATE OF THE STA
Surface Casing Type:		——— Surface C	Casing:		7
Mush Mount Stel.	*	Elevation of Rise	f top of r Pipe:	8.65	ucl.
Ground Surface Elevation:		Type of S		akrete Co	were te
Surface Casing			- TOR		
Diameter: 7 1		(The)	1012	1	
Inside Diameter of Surface Casing:		Borehole Di	iameter:	0'0	
~ 0.6		Inside Diar Borehole		NA	
		•			
Depth/Elevation of		Type of	Backfill: Sp	11 autr	4
Top of Well Seal:				d to pv	1
Depth/Elevation of				~ (1	
Top of Sand:		Riser Inside D	the state of the s		Title
		Туре	of Seal:	Bensen	THUR play
Depth/Elevation of Top of Screen:					
5.7 bys, 3.7 ms		——Type of Sar	nd Pack:	fon In	dusmill
DTW: (03-25-09) water 16			. 1	Quar	72
6.09' (TOR). / 3.29' ms/		Type of	Screen:	Stotted	Pre
7, 3.0,		Slot Size x	(Lenath:	0.010 × 11	o'
		Inside [Diameter	" ر	
Depth/Elevation of		. Oī	f Screen:		
Bottom of Screen: 15.6 631 -6.2 mr/		_	: :		
Depth/Elevation of	18804	Depth of S	Sediment vith Plug:	15.7	2 pd
Bottom of Boring:					
IVIACIEC OVE	RBURDEN MON	ITORING WE	LL CONST	and the second second	URE 4-7 AGRAM
511 Congress Street Portland, ME 04101		DEC QUALITY		:	
PORT2007022f.cdr			-		• 8 • • • • •

WELL DEVELOPMENT REC	ORD
Project: Eugene's Dry Cleaners Well Installation Date: 4	2009 3612072087
Client: NYSDEC - Babyon, N Well Development Date:	2009 RAS MW 07111 64)
Well/Site I.D.: PW-9 Weather: "F, Suny	Start Date: Finish Date: 3-25-69
Well Construction Record Data: Well Diamete	
Bottom of Screen	
Sediment Sump/Plug	m Top of Riser 🗹
Screen Length O. L. ft. Q. Q ft. Fluids Lost during Drilling	Ø gal.
Protective Casing Stick-up (a) Frotective Casing/Well Diff. (b) Frotective Casing/Well Diff.	Well Mouth _ /
	20. ppm
Well Levels: Sediment:	t 15,08 ft. (from top of PVC)
End of Development () M ft. Well Depth after Development	15.08 ft.
24 Hours after Development Nr. ft. Sediment Depth Removed	Ø ft.
HT of Water Column Of the state of the stat	gal./vol. *for 4" HSA Installed Wells;
Equipment: Dedicated Submersible Pump Approximate Recharge Rage Surge Block + What Column Bailer D 2" D Total Gallons Removed Grundfos Pump 2" 4"	1.7 gpm 2.32 gal. Yes∕No
Notes:	Well water clear to unaided eye Sediment thickness remaining in well is <1.0% of screen length Total water removed = a minimum of 5x calculated well volume plus
	5x drilling fluid lost Turbidity < 5NTUs 10% change in field parameters
Water Parameter Measurements	
Record at start, twice during and at the end of development (minimum):	ms/on
Time Volume Total Gallons pH Temp.	Conductance Turbidity Pumping Rate
1053 590 - 3.6 6.8 9-8	512 71000
1050 109M - 71 69 96	505 71000
1059 1547 ~10.7 6.9 9.7	507 76.3
1102 20 gr 14.3 6.9 9.7	507 9.6
100 30 11 27 70 9.6	760 38
Well Developer's Signature	
Alto	FIGURE 4-9
MACTEC	WELL DEVELOPMENT RECORD
511 Congress Steet Portland, ME 04101 NYSDEC QUALIT	Y ASSURANCE PROGRAM PLAN

	Desire						Test Boring		No.	Pr	oject No	. 1	· ·	
		*Eug					aver	Boring/Well	10	13	oject No <u>(al.)</u> 0	720	87	_
ı	Client	NYS			Site		Sheet No. 1 of 2					<u> </u>		
	Logge	d By 185	She	7	Gro		8.49 ms1 M	ever 2		ستبيكي	Date		2009	
		g Contract	or	HT_1	11	1	oriller's Name	kamen icek	Rig Typ			/_		
•	Drilling	g Method	/_ارْهُ	Au	cr CHS	MP	Protection Level	P.I.D. (eV)	Casing	Size		luger S		7 4
•	Soil D)	Rock Dri	AV	Т	otal Depth 6 Depth 5.9	to Groundwater	7/Date 3/25 204	19	Piez `	Well B	oring	
		£		,	%						Mon (ppr	itoring		
	Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6"	SPT-N (Blows/Ft.)	Graphic Log	Sampl		USCS Group Symbol	Notes on Drilling				Lab Tests
	Depth(Feet)	Sample No. 8 Penetration/ lecovery (Fee	ample	PT BI	SP (Blow	3raph	Descript	ion	US	otes o	PI Meter Field Scan	Pl Meter Head Space		Lab
•		S. B.	·	S	Ö					ž	PI M Field	Heag Heag		
							0-2 DKOINE	Sandy lean I film army						
•		,					WG, St. omp , h	bounto	F7/1			,	•	
1	-						WB, SP. dup, w 2-5 PKorange If orange bran incoarse sund, t p 2-23; PS, No	, she to				,		1
Sı	-						incoarse sind, t	race silt	Plans	ic		•		
~)_	12/	.				10 2-23; \$5, No	1st, wetts	-					
		3/					armo, minuse.	10 100g C	-∤`		0.0			X
947 T	3_	15.0	·						1		~		į	Z
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	-													•
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	-						16		4					
	_	<u>-</u>												
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• ! ;		. 4					NW	7/13/09 T				GURE		
					•			UALITY AS	YPICAL SURAN					
:	9404	1014D(z) L3	33					·	ABB Env	ironn	nental S	ervices	s, inc	

						Test Boring L	og						
Projec	Project Eligene of Dry Cle					inur8	Boring/Well N	10	Pr	oject N	10. 720	18-	7
Client	NYS	DEC		Site	ľ	Subylon, NY	nk s	Sheet No		2	of	}-	
Logge	ed By B	Sha	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Gro	und	Elevation Start	Date and 24	200	Finish <i>M</i>	Date	25	7,20	109
Drillin	Drilling Contractor AT NV Driller's Name JW Kamenieck Rig Type (610) Geografie								'				
Drillin	Drilling Method Dush A Protection Level 1). P.I.D. (ev) Casing Size A Auger Size								8"				
	Prilled (6	F	Rock Drilled	NA	7 7		Groundwater/				Well		
											nitoring		
Depth(Feet)	Sample No. & Penetration/ ecovery (Fee	ө Туре	lows/6 or o./Rqd	SPT-N (Blows/Ft.)	Graphic Log	Sample		Symb	n Drilli	(pp			Lab Tests
Depth	Sample No. & Penetration/ Recovery (Feet)	ЅапірІе Туре	SPT Blows/6" or Core Rec./Rqd. %	SP (Blow	Grapt	Description	on	USCS Group Symbol	Notes on Drilling	PI Meter Field Scan	PI Meter Head Space		Lab
			Ü			1011-0			Z	PI N Field	PI №	-	
75			•			5.6,8 Horang five to acourse	sund,						
6_						dup, PS, NP, 1008	?						1
						6.8-9.2 Orange/	wan,						
1	4.3			,·		in course sund, PS, I Mouve	Mei , solori)			·	1		
	5,0					9.2-10 it Brown	-1 bringe].			,		
						brown gravely 5	mel, fine				1.07		4
18-						9.2-10 it Brown brown gravely 5 gravel to fines, D WG, Suturated, M	k				7		Z
													1
9-	<u> </u>							-			1		
													1
- 116-								-			-		
-	<u> </u>						• • • • • • • • • • • • • • • • • • •						
<u> </u>	1					6		-					
_	1		-			1 / 3	1					·	
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	,							1/13/64 PICAL			GURE		
						NYSDEC QU	ALITY ASSU	JRANC	E PF	ROGR	AM PL	_AN	
ļ			·				A	BB Envi	ronme	ental S	ervices	i, Inc	

9404014D(z) L33

Overburden Well Constru	uction Diagr	am		Well	io.: PW.	- 10
Project No.: 3612072087	Project Name: ;	Flaguert's	Dry	Cleane	rS	
	Project Area:	Babylon	, NY	- NYJDI	ZC	
Contractor: Apt NY Driller: Ji	i Kamentak	Method: Ŋ∤	est 1	Mars / +	ISA	
Logged By: B. Thaw		Date Started: (13-25	-09 Comp	leted:03 -)	25-64
Checked By: Date	: 4 12/09	Well Developm	ent Date	mard D	5,2009	.pr -
Not To Scale						
Lock Identification:	1	- 1	: :	~ ~ ~ .	1 .	
Surface Casing Type:		Elevation of Surface (8.99	mrl	
Flash Mann Stel.		Elevation o		7.69	us!	
Ground Surface Elevation:			er Pipe: -			a lists
7.99 msl		, Type or	Seal: -	Quikrefe	(onene	He
Surface Casing	1	2	-10C-	TOR	3'	
Diameter: -0.6	38 - RF2		•			
Inside Diameter of		Borehole D	iameter:	~0.4		
Surface Casing:		Inside Dia	meter of			
		Borehole		NA		
·			• !	Soil a	1-1-1-01	
Depth/Elevation of Top of Well Seal:						
~1 5/5/ B md	 	Туре	of Riser:.	Sch 40	Prc	
Depth/Elevation of Top of Sand:		Riser Inside D		2		
~ 3 by 6' ms				_	/111.	
	.	Туре	of Seal:	Benseal	/HULP	ng
Depth/Elevation of Top of Screen:		9	:			
4.9 bg) / 4.1 msl		Type of Sa	nd Pack:	40N IN	ustrial	Bhartz
water			:			
D((03-15-04) + + + + + + + + + + + + + + + + + + +		Type e	f Screen:	SLH	d PVC	
6.12 (TOR) /2.57 mst		•		0.010 x	101	
		Slot Size : Inside	k Length: Diameter	7 to 10 7 to 10	10	
Depth/Elevation of		0	f Screen:			
Bottom of Screen: AS 695 / -58 ms/		•				
Depth/Elevation of		Depth of S		(01)	154	ha"
Bottom of Boring:		Sump v	vith Plug:	(0.6)	1 0-1	1
~16' 1 -7' mst				· · · · · · · · · · · · · · · · · · ·	•	
■ MACTEC →					FIGURE 4	-7
511 Congress Street Portland, ME 04101	RBURDEN MON NYSD	ITORING WE EC QUALITY				
PORT2007022f.cdr					I -	

WELL C	EVELOPMENT RECORD		
Project: Eugene's Dry Cleaners	Well Installation Date: March 25/2	2009	Project No. 7612072087
Client: NYSDEC-Babylon, NY	Well Development Date: MWW 25 Jood	Logged by:	MN(0 7113 04)
Well/Site I.D.: PW- IØ	Weather:	Start Date: 3-25-69	Finish Date: 3-25-09
Well Construction Record Data: Bottom of Screen	Well Diameter in	Start Time:	Finish Time: 1840
Sediment Sump/Plug	rom Ground Surface From Top of Riser 8		
Screen Length qq ft.	Fluids Lost during Drilling ga		
Protective Casing Stick-up ft. Protect	ive Casing/Well Diff. 0,75 ft. PID Re	eadings: Ambient Well Mo	∠o \ ppm
	ment:		1 3 H 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Initial U.12 ft. W	ell Depth before Development 15.15 f	(from top of P\	/C)
End of Development	ell Depth after Development 15.15		· · · · · · · · · · · · · · · · · · ·
24 Hours after Development NA ft. Se	ediment Depth Removed		
HT of Water Column rt. x	1,68* gal./ft. = 1.4	gal./vol. *for 4" HSA Ir	nstalled Wells
Surge Block & when the Dhame	roximate Recharge Rage ~ gp	7	YeszNo
Well Development Criteria Met: Notes:	well is <1.0% c	r to unaided eye ness remaining in f screen length noved = a minimu	
	5x drilling fluid		
End of Well Development Sample (1 pint) Collected?	Yes No ■ Turbidity < 5N ■ 10% change in		
Water Parameter Measurements		`	
Record at start, twice during and at the end of developr	pH Temp. Conductance	Turbidity	Pumping Rate
1811 -34 5 1815 - 71 1817 - 10.7	1.9 10.3 525 7.9 10.3 525 10.1 534	71000 71000 177	
18.24 - 14.3 - 20 - 17.4 - 25 - 18.33 - 121.5 - 30	$\begin{array}{c cccc} 7.0 & 10.0 & 533 \\ 7.0 & 10.1 & 527 \\ 7.0 & 10.1 & 524 \end{array}$	17.5	
Well Developer's Signature			
MACTEC		ELOPMENT	
511 Congress Steet Portland, ME 04101	NYSDEC QUALITY ASSURAI	ICE PROGRA	AM PLAN

ATTACHMENT B

MARCH 2009 PHOTOGRAPH LOG



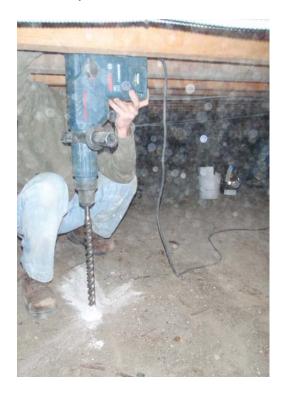
Entrance to Structure 05.



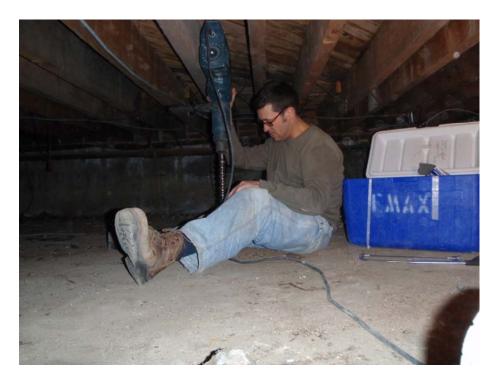
Basement layout at Structure 05.



Basement layout at Structure 05 (continued).



Installing soil vapor sampling point SV-5A.



Installing soil vapor sampling point SV-5A (continued).



Sub slab sampling at SV-5A.

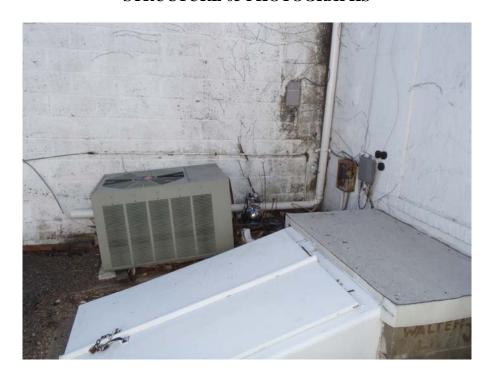


Indoor air sampling at Structure 05.



Sub slab sampling at SV-5B.

STRUCTURE 05 PHOTOGRAPHS



Ambient air sample at Eugene's Dry Cleaners.



Ambient air sample at Eugene's Dry Cleaners (continued).

ATTACHMENT C

DATA USABILITY SUMMARY REPORTS

DATA USABILITY SUMMARY REPORT 2009 SAMPLING EVENT EUGENES DRY CLEANERS SITE BABYLON, NEW YORK

1.0 Introduction:

Sub-slab vapor, indoor air samples, and outdoor air samples were collected at the Eugene's Dry Cleaners site (Site) from March 23rd through March 24th, 2009. Samples were analyzed by Contest Analytical Laboratory (Contest) in East Longmeadow, Massachusetts. A listing of samples included in this investigation is presented in Table 1. Samples were analyzed for Volatile Organic Compounds (VOCs) by EPA Method TO-15.

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory quality control (QC) limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification.

Final sample results are presented on Table 2. The following qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit

J = concentration is estimated

UJ = target analyte is not detected at the reported detection limit and is estimated

With the exception of the items discussed below, results are interpreted to be usable as reported by the laboratory.

2.0 Volatile Organic Compounds

Blank Contamination

Acetone, 2-butanone, ethanol, and methylene chloride are reported in the method blanks associated with samples ECBA05C and ECAA003. Acetone, 2-butanone, and methylene chloride are reported in the method blanks associated with samples ECSS05A and ECSS05B. Action limits were established at ten times the reported concentrations for acetone, 2-butanone, and methylene chloride, and five times the reported concentrations for ethanol. Results for acetone, 2-butanone, ethanol, and methylene chloride less than the action limits were qualified non-detect (U). The following samples were qualified:

Field Sample ID	QC code	Analyte	Final Conc. (µg/m³)	Final Qual	Lab Conc. (µg/m³)	Lab Qual
ECAA003	FS	Acetone	11	UJ	11	
ECAA003	FS	2-Butanone	0.13	U	0.13	
ECBA05C	FS	Acetone	12	UJ	12	
ECBA05C	FS	Methylene chloride	1.7	U	1.7	
ECSS05A	FS	Methylene chloride	2.9	U	2.9	
ECSS05A	FS	2-Butanone	2.4	U	2.4	
ECSS05B	FS	Methylene chloride	2.6	U	2.6	

Initial Calibration

In the initial calibration, the percent relative standard deviation (RSD) for propene (37), acetone (42), and ethanol (41) exceeds the QC limit of 30. The results for propene, acetone, and ethanol were qualified estimated (J/UJ).

Continuing Calibration

In the continuing calibration, the percent difference for 1,2-dichloroethane (22), 1,1,1-trichloroethane (22), 2-propanol (isopropanol) (21), and 1,2,4-trichlorobenzene (21) exceed the QC limit of 20. The results for 1,2-dichloroethane (22), 1,1,1-trichloroethane, 2-propanol (isopropanol), and 1,2,4-trichlorobenzene were qualified estimated (J/UJ).

VOC- Sample Reporting

The following samples were analyzed at dilutions due to elevated concentrations of target compounds above the instrument calibration range. Target compounds which were not detected were reported with elevated reporting limits:

Field Sample ID	QC code	Dilution Factor
ECSS05A	FS	2
ECSS05B	FS	2

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Wolfgang Calicchio
Date: May 1, 2009
Quality Assurance Officer: Chris Ricardi, NRCC-EAC
Date:

TABLE 1 - DUSR - EUGENES DRY CLEANERS SITE

SDG	Sample ID	QC Code	Lab ID	Method	Sample Date	Notes
LIMT-24321	ECAA003	FS	09B09632	TO-15	3/24/2009	
LIMT-24321	ECBA05C	FS	09B09631	TO-15	3/24/2009	
LIMT-24321	ECSS05A	FS	09B09629	TO-15	3/24/2009	
LIMT-24321	ECSS05B	FS	09B09630	TO-15	3/24/2009	

TABLE 2 - RESULTS SUMMARY DATA USABILITY SUMMARY REPORT MARCH 2009 SOIL VAPOR AND AMBIENT AIR SAMPLING EUGENES CLEANERS SITE BABYLON, NEW YORK

r						
	Lab Sample De		LIMT-24321	LIMT-24321	LIMT-24321	LIMT-24321
		Loc Name	SS-05A	SS-05B	BA-05C	AA-03
		Sample Date	3/24/2009	3/24/2009	3/24/2009	3/24/2009
	Fie	eld Sample Id	ECSS05A	ECSS05B	ECBA05C	ECAA003
		Qc Code	FS	FS	FS	FS
Analysis Method	Param Name	Units	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier
TO-15	1,1,1-Trichloroethane	ug/m3	0.54 UJ	0.67 J	0.19 UJ	0.19 UJ
TO-15	1,1,2,2-Tetrachloroethane	ug/m3	0.68 U	0.68 U	0.24 U	0.24 U
TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.76 U	0.76 U	0.49	0.27 U
TO-15	1,1,2-Trichloroethane	ug/m3	0.54 U	0.54 U	0.19 U	0.19 U
TO-15	1,1-Dichloroethane	ug/m3	0.4 U	0.4 U	0.14 U	0.14 U
TO-15	1,1-Dichloroethene	ug/m3	0.4 U	0.4 U	0.14 U	0.14 U
TO-15	1,2,4-Trichlorobenzene	ug/m3	0.74 UJ	0.74 UJ	0.26 UJ	0.26 UJ
TO-15	1,2,4-Trimethylbenzene	ug/m3	0.5 U	0.5 U	0.46	0.18 U
TO-15	1,2-Dibromoethane	ug/m3	0.76 U	0.76 U	0.27 U	0.27 U
TO-15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3	0.7 U	0.7 U	0.25 U	0.25 U
TO-15	1,2-Dichlorobenzene	ug/m3	0.6 U	0.6 U	0.21 U	0.21 U
TO-15	1,2-Dichloroethane	ug/m3	0.4 UJ	0.4 UJ	0.14 UJ	0.14 UJ
TO-15	1,2-Dichloropropane	ug/m3	0.46 U	0.46 U	0.17 U	0.17 U
TO-15	1,3,5-Trimethylbenzene	ug/m3	0.5 U	0.5 U	0.18 U	0.18 U
TO-15	1,3-Dichlorobenzene	ug/m3	0.6 U	0.6 U	0.21 U	0.21 U
TO-15	1,4-Dichlorobenzene	ug/m3	0.67	0.88	5.1	0.21 U
TO-15	2-Butanone	ug/m3	2.4 U	4.5	3.5	0.13 U
TO-15	2-Hexanone	ug/m3	0.4 U	0.4 U	0.58	0.14 U
TO-15	2-Propanol	ug/m3	3.3 J	2.6 J	3.3 J	0.7 J
TO-15	4-Ethyltoluene	ug/m3	0.5 U	0.5 U	0.18 U	0.18 U
TO-15	4-Methyl-2-pentanone	ug/m3	0.4 U	0.4 U	0.14 U	0.14 U
TO-15	Acetone	ug/m3	28 J	38 J	12 UJ	11 UJ
TO-15	Benzene	ug/m3	0.32 U	0.74	0.52	0.12 U
TO-15	Benzyl chloride	ug/m3	0.52 U	0.52 U	0.19 U	0.19 U
TO-15	Bromodichloromethane	ug/m3	0.66 U	0.66 U	0.24 U	0.24 U
TO-15	Bromoform	ug/m3	1.1 U	1.1 U	0.36 U	0.36 U
TO-15	Bromomethane Butadiene, 1.3-	ug/m3	0.38 U	0.38 U	0.14 U	0.14 U
TO-15 TO-15	Carbon disulfide	ug/m3	0.22 U 1.4	0.22 U 2.9	0.08 U 0.12 U	0.08 U 0.12 U
	Carbon distillide Carbon tetrachloride	ug/m3		=-/		
TO-15 TO-15	Chlorobenzene	ug/m3 ug/m3	0.62 U 0.46 U	0.62 U 0.46 U	0.4 0.17 U	0.22 U 0.17 U
TO-15	Chlorodibromomethane	ug/m3	0.46 U	0.46 U	0.17 U	0.17 U
TO-15	Chloroethane	ug/m3	0.26 U	0.26 U	0.31 U	0.31 U
TO-15	Chloroform	ug/m3	1.4	1.7	0.1 U	0.17 U
TO-15	Chloromethane	ug/m3	0.2 U	0.2 U	1.1	1.1
TO-15	Cis-1,2-Dichloroethene	ug/m3	0.4 U	0.4 U	0.14 U	0.14 U
TO-15	cis-1,3-Dichloropropene	ug/m3	0.44 U	0.44 U	0.14 U	0.14 U
TO-15	Cyclohexane	ug/m3	0.34 U	0.34 U	0.10 U	0.10 U
TO-15	Dichlorodifluoromethane	ug/m3	2.2	3.9	2	2
TO-15	Ethanol	ug/m3	3.7 J	4.8 J	36 J	4.2 J
TO-15	Ethyl acetate	ug/m3	0.73 U	0.73 U	0.26 U	0.26 U
TO-15	Ethyl benzene	ug/m3	0.44 U	0.44 U	0.25	0.16 U
TO-15	Heptane	ug/m3	0.4 U	0.79	0.62	0.14 U
TO-15	Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	0.75 U	0.75 U
TO-15	Hexane	ug/m3	1.2	0.82	0.42	0.13 U
TO-15	Methyl Tertbutyl Ether	ug/m3	0.36 U	0.36 U	0.13 U	0.13 U
TO-15	Methylene chloride	ug/m3	2.9 U	2.6 U	1.7 U	6.6
TO-15	Naphthalene	ug/m3	1.3 U	1.3 U	0.45 U	0.45 U
TO-15	o-Xylene	ug/m3	0.44 U	0.44 U	0.26	0.16 U
TO-15	Propylene	ug/m3	0.35 UJ	0.35 UJ	0.13 UJ	0.13 UJ
TO-15	Styrene	ug/m3	0.42 U	0.42 U	0.15 U	0.15 U
TO-15	Tetrachloroethene	ug/m3	3,400	300	2	0 U
TO-15	Tetrahydrofuran	ug/m3	0.3 U	0.3 U	0.11 U	0.11 U
TO-15	Toluene	ug/m3	0.66	2	4.4	0.14 U
TO-15	trans-1,2-Dichloroethene	ug/m3	0.4 U	0.4 U	0.14 U	0.14 U
TO-15	trans-1,3-Dichloropropene	ug/m3	0.44 U	0.44 U	0.16 U	0.16 U
TO-15	Trichloroethene	ug/m3	8.7	0.54 U	0.19 U	0.19 U
TO-15	Trichlorofluoromethane	ug/m3	1	1.3	1.1	0.96
TO-15	Vinyl acetate	ug/m3	1.5 U	1.5 U	0.5 U	0.5 U
TO-15	Vinyl chloride	ug/m3	0.26 U	0.26 U	0.1 U	0.1 U

Notes:

 $\mu g/m3 = micorgrams \; per \; cubic \; meter$

Qualifiers

U = not detected at the reporting limit

J = estimated concentration

QC Code

FS = Field Sample

DATA USABILITY SUMMARY REPORT 2009 GROUNDWATER SAMPLING EVENT EUGENES DRY CLEANERS SITE BABYLON, NEW YORK

1.0 Introduction

Eleven groundwater samples were collected at the Eugene's Dry Cleaners site (Site) from March 23rd through March 26th, 2009. Samples were analyzed by Mitkem Laboratory (Mitkem) in Warwick, Rhode Island. A listing of samples included in this investigation is presented in Table 1. Samples were analyzed for the following parameters:

Volatile Organic Compounds (VOCs) by USEPA Method 8260B

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory quality control (QC) limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification.

A summary of the final field sample data is presented in Table 2. Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

U = target analyte is not detected at the reported detection limit

J = concentration is estimated

UJ = target analyte is not detected at the reported detection limit and is estimated

With the exception of the items discussed below, results are interpreted to be usable as reported by the laboratory.

2.0 Volatile Organic Compounds

Initial Calibration

The initial calibration had relative response factors (RRFs) that were below the validation guideline response goal of 0.05 for acetone (0.026) and 2-butanone (0.019). Relative standard deviation (RSD) criteria for initial calibration were met for these compounds indicating that a linear calibration was obtained for the working range of the instrument. Validation guidelines specify the rejection (R qualification) of results with low RRF, but based on initial calibration RSD and professional judgment, reporting limits for acetone and 2-butanone were non-detect and were qualified estimated (UJ) in all samples due to the low response factors.

Continuing Calibration

The continuing calibration had RRFs that were below the validation guideline response goal of 0.05 for acetone (0.027) and 2-butanone (0.019). Continuing calibration percent difference met method goals for these compounds indicating accurate measurements were made using these RRF values. Based on professional judgment, reporting limits for acetone and 2-butanone were qualified estimated (UJ) due to the low response factors.

In addition, the percent difference between the initial and continuing calibration factors was greater than the control limit of 25 for trichlorofluoromethane (30), 1,2-dichloroethane (25). The results for trichlorofluoromethane and 1,2-dichloroethane were non-detect for all samples and were qualified as estimated (UJ).

Surrogate Recoveries

The surrogate dibromofluoromethane exceeded the upper QC limit of 115 percent recovery for all samples associated with the data package (ranging from 116 percent to 123 percent recovery). Results could potentially be biased high due to the high surrogate recovery. With the exception of samples ECPW8 and ECPW10, no compounds were detected above the quantitation limits in samples. Detected results for cis-1,2-dichloroethene, tetrachloroethene and trichloroethene reported in samples ECPW8 and ECPW10 were qualified as estimated (J) and may be slightly biased high.

Matrix Spike/Matrix Duplicate Spike Samples

Sample ECPW3 was analyzed as the MS/MSD. The MS/MSD associated with sample ECPW3 reported relative percent differences (RPDs) for dichlorodifluoromethane (44), trichlorofluoromethane (42) and 1,1,2-trichloro-1,2,2-trifluoroethane (51) that were greater than laboratory control limits indicating a potential high bias. The results for associated compounds were non-detect and therefore required no further action. In addition, the percent recoveries for 1,1-dichloropropene (74), 1,1,2-trichloro-1,2,2-trifluoroethane (63), cyclohexane (57) and methylcyclohexane (57) were below laboratory control limits indicating a potential low bias. The results for these compounds were non-detect in samples ECGS0403 and ECGS0403DUP and were qualified as estimated (UJ) for all samples in the data set.

TABLE 1 SAMPLE SUMMARY

SDG	Sample Name	Date Collected	Method	Parameter	Type
H0507	ECP01	03/24/2009	8260	VOC	FS
H0507	ECPW1	03/25/2009	8260	VOC	FS
H0507	ECPW2	03/25/2009	8260	VOC	FS
H0507	ECPW3	03/24/2009	8260	VOC	FS
H0507	ECPW3DUP	03/24/2009	8260	VOC	FD
H0507	ECPW3MS/MSD	03/24/2009	8260	VOC	MS/MSD
H0507	ECPW4	03/24/2009	8260	VOC	FS
H0507	ECPW8	03/24/2009	8260	VOC	FS
H0507	ECPW9	03/26/2009	8260	VOC	FS
H0507	ECPW10	03/26/2009	8260	VOC	FS
H0507	Trip blank	03/26/2009	8260	VOC	QC

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Brandon A. L. Shaw

Date: May 2, 2009

Quality Assurance Officer: Chris Ricardi, NRCC-EAC

Date: May 11, 2009

	BABILON, NEW TORK								
	Lab Sample Delivery	-		H0507	H0507	H0507	H0507	H0507	H0507
	Loc Nam		P-1	PW-1	PW-10	PW-2	PW-3	PW-3	PW-4
	Field Samp		3/24/2009	3/25/2009	3/26/2009	3/25/2009	3/24/2009	3/24/2009	3/24/2009
	Field San	-	ECP01	ECPW1	ECPW10	ECPW2	ECPW3	ECPW3DUP	ECPW4
		C Code		FS	FS	FS	FS	FD	FS
Analysis Method		Units	Result Qualifier						
SW8260	1,1,1,2-Tetrachloroethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1,1-Trichloroethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260		ug/l	5 UJ						
SW8260	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1-Dichloroethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1-Dichloroethene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1-Dichloropropene	ug/l	5 UJ						
SW8260	1,2,3-Trichlorobenzene	ug/l	5 U	5 U	5 U	5 U	5 U	2.5 J	5 U
SW8260	1,2,3-Trichloropropane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2,4-Trichlorobenzene	ug/l	5 U	5 U	5 U	5 U	5 U	1.4 J	5 U
SW8260	1,2,4-Trimethylbenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2-Dibromo-3-chloropropane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2-Dibromoethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2-Dichlorobenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2-Dichloroethane	ug/l	5 UJ						
SW8260	1,2-Dichloropropane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,3,5-Trimethylbenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,3-Dichlorobenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,3-Dichloropropane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,4-Dichlorobenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	2,2-Dichloropropane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	2-Butanone	ug/l	5 UJ						
SW8260	2-Chlorotoluene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	2-Hexanone	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	4-Chlorotoluene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	4-iso-Propyltoluene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Acetic acid, methyl ester	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Acetone	ug/l	5 UJ						
SW8260	Benzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromobenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromochloromethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromodichloromethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromoform	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromomethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Carbon disulfide	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Carbon tetrachloride	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Chlorobenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Chlorodibromomethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Chloroethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Chloroform	ug/l	5 U	5 U	5 U	5 U	5 U	1.1 J	5 U
SW8260	Chloromethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Created by: BCG 05/12/2009 Checked by: BAS 05/12/2009

	2.22.20.1,1.21.20.12								
	Lab Sample Delivery	Group	H0507						
	Loc Name		P-1	PW-1	PW-10	PW-2	PW-3	PW-3	PW-4
	Field Samp	le Date	3/24/2009	3/25/2009	3/26/2009	3/25/2009	3/24/2009	3/24/2009	3/24/2009
	Field Sample ID		ECP01	ECPW1	ECPW10	ECPW2	ECPW3	ECPW3DUP	ECPW4
	Qe	C Code	FS	FS	FS	FS	FS	FD	FS
Analysis Method	Parameter	Units	Result Qualifier						
SW8260	Cis-1,2-Dichloroethene	ug/l	5 U	5 U	9.3 J	5 U	5 U	5 U	5 U
SW8260	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Cyclohexane	ug/l	5 UJ						
SW8260	Dibromomethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Dichlorodifluoromethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Ethyl benzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Hexachlorobutadiene	ug/l	5 U	5 U	5 U	5 U	5 U	2.3 J	5 U
SW8260	Iodomethane	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Isopropylbenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Methyl cyclohexane	ug/l	5 UJ						
SW8260	Methyl Tertbutyl Ether	ug/l	1.4 J	5 U	1.6 J	5 U	5 U	5 U	5 U
SW8260	Methylene chloride	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	n-Butylbenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Naphthalene	ug/l	5 U	5 U	5 U	5 U	5 U	1.9 J	5 U
SW8260	Propylbenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	sec-Butylbenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Styrene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	tert-Butylbenzene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Tetrachloroethene	ug/l	1.7 J	5 U	12 J	5 U	5 U	5 U	5 U
SW8260	Toluene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Trichloroethene	ug/l	5 U	5 U	4.1 J	5 U	5 U	5 U	5 U
SW8260	Trichlorofluoromethane	ug/l	5 UJ						
SW8260	Vinyl acetate	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Vinyl chloride	ug/l	5 U	5 U	1.1 J	5 U	5 U	5 U	5 U
SW8260	Xylene, m/p	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Xylene, o	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Xylenes, Total	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Created by: BCG 05/12/2009 Checked by: BAS 05/12/2009

	Lab Sample Delivery	Group	H0507	H0507	H0507
	Loc	c Name	PW-8	PW-9	QC
	Field Samp	le Date 3/24/2009		3/26/2009	3/26/2009
	Field San	nple ID	ECPW8	ECPW9	TRIP BLANK
	Q	C Code	FS	FS	TB
Analysis Method	Parameter	Units	Result Qualifier	Result Qualifier	Result Qualifier
SW8260	1,1,1,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260	1,1,1-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	5 UJ	5 UJ	5 U
SW8260	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260	1,1-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260	1,1-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260	1,1-Dichloropropene	ug/l	5 UJ	5 UJ	5 U
SW8260	1,2,3-Trichlorobenzene	ug/l	5 U	5 U	5 U
SW8260	1,2,3-Trichloropropane	ug/l	5 U	5 U	5 U
SW8260	1,2,4-Trichlorobenzene	ug/l	5 U	5 U	5 U
SW8260	1,2,4-Trimethylbenzene	ug/l	5 U	5 U	5 U
SW8260	1,2-Dibromo-3-chloropropane	ug/l	5 U	5 U	5 U
SW8260	1,2-Dibromoethane	ug/l	5 U	5 U	5 U
SW8260	1,2-Dichlorobenzene	ug/l	5 U	5 U	5 U
SW8260	1,2-Dichloroethane	ug/l	5 UJ	5 UJ	5 U
SW8260	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260	1,3,5-Trimethylbenzene	ug/l	5 U	5 U	5 U
SW8260	1,3-Dichlorobenzene	ug/l	5 U	5 U	5 U
SW8260	1,3-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260	1,4-Dichlorobenzene	ug/l	5 U	5 U	5 U
SW8260	2,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260	2-Butanone	ug/l	5 UJ	5 UJ	5 U
SW8260	2-Chlorotoluene	ug/l	5 U	5 U	5 U
SW8260	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260	4-Chlorotoluene	ug/l	5 U	5 U	5 U
SW8260	4-iso-Propyltoluene	ug/l	5 U	5 U	5 U
SW8260	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U
SW8260	Acetic acid, methyl ester	ug/l	5 U	5 U	5 U
SW8260	Acetone	ug/l	5 UJ	5 UJ	5 U
SW8260	Benzene	ug/l	5 U	5 U	5 U
SW8260	Bromobenzene	ug/l	5 U	5 U	5 U
SW8260	Bromochloromethane	ug/l	5 U	5 U	5 U
SW8260	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260	Bromoform	ug/l	5 U	5 U	5 U
SW8260	Bromomethane	ug/l	5 U	5 U	5 U
SW8260	Carbon disulfide	ug/l	5 U	5 U	5 U
SW8260	Carbon tetrachloride	ug/l	5 U	5 U	5 U
SW8260	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260	Chlorodibromomethane	ug/l	5 U	5 U	5 U
SW8260	Chloroethane	ug/l	5 U	5 U	5 U
SW8260	Chloroform	ug/l	5 U	5 U	5 U
SW8260	Chloromethane	ug/l	5 U	5 U	5 U

	Lab Sample Delivery	Group	H0507	H0507	H0507
	Loc	Name	PW-8	PW-9	QC
	Field Samp	le Date	3/24/2009	3/26/2009	3/26/2009
	Field San	ple ID	ECPW8	ECPW9	TRIP BLANK
	Qe	C Code	FS	FS	TB
Analysis Method	Parameter Uni		Result Qualifier	Result Qualifier	Result Qualifier
SW8260	Cis-1,2-Dichloroethene	ug/l	3.3 J	5 U	5 U
SW8260	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260	Cyclohexane	ug/l	5 UJ	5 UJ	5 U
SW8260	Dibromomethane	ug/l	5 U	5 U	5 U
SW8260	Dichlorodifluoromethane	ug/l	5 U	5 U	5 U
SW8260	Ethyl benzene	ug/l	5 U	5 U	5 U
SW8260	Hexachlorobutadiene	ug/l	5 U	5 U	5 U
SW8260	Iodomethane	ug/l	5 U	5 U	5 U
SW8260	Isopropylbenzene	ug/l	5 U	5 U	5 U
SW8260	Methyl cyclohexane	ug/l	5 UJ	5 UJ	5 U
SW8260	Methyl Tertbutyl Ether	ug/l	5 U	5 U	5 U
SW8260	Methylene chloride	ug/l	5 U	5 U	5 U
SW8260	n-Butylbenzene	ug/l	5 U	5 U	5 U
SW8260	Naphthalene	ug/l	5 U	5 U	5 U
SW8260	Propylbenzene	ug/l	5 U	5 U	5 U
SW8260	sec-Butylbenzene	ug/l	5 U	5 U	5 U
SW8260	Styrene	ug/l	5 U	5 U	5 U
SW8260	tert-Butylbenzene	ug/l	5 U	5 U	5 U
SW8260	Tetrachloroethene	ug/l	43 J	1 J	5 U
SW8260	Toluene	ug/l	5 U	5 U	5 U
SW8260	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260	Trichloroethene	ug/l	5.2 J	5 U	5 U
SW8260	Trichlorofluoromethane	ug/l	5 UJ	5 UJ	5 U
SW8260	Vinyl acetate	ug/l	5 U	5 U	5 U
SW8260	Vinyl chloride	ug/l	5 U	5 U	5 U
SW8260	Xylene, m/p	ug/l	5 U	5 U	5 U
SW8260	Xylene, o	ug/l	5 U	5 U	5 U
SW8260	Xylenes, Total	ug/l	5 U	5 U	5 U