Seneca Companies

The Complete Solution

HEADQUARTERS
Des Moines, Iowa

4140 E. 14th Street
Des Moines, IA 50313
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CON 12-15
Doc # 28249

March 25, 2013

Contaminated Sites
Iowa Department of Natural Resources
502 E. 9th Street
Des Moines, IA 50319

RE: PHASE II ENVIRONMENTAL SITE ASSESSMENT
PROPOSED KUM AND GO #4098, 7229 UNIVERSITY AVENUE, WINDSOR HEIGHTS, POLK COUNTY, IA

Seneca completed a Phase II Environmental Site Assessment for the commercial property located at 7229 Windsor Heights, Polk County, IA. All activities are based on directive from Kum & Go LC and conditions identified during the site inspection.

During the Phase II Environmental Site Assessment soil and groundwater samples were collected. Groundwater concentrations exceeded Iowa Department of Natural Resources Statewide Standards for Arsenic. Seneca recommended the submittal of the Phase II Environmental Site Assessment to the Iowa Department of Natural Resources for review.

If you have any questions please feel free to contact me at 515-261-7759.

Sincerely,
Seneca Environmental Services

Jennifer Baker
Certified Groundwater Professional #2086

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Seneca Companies, Inc.
Des Moines, IA

PHASE II ENVIRONMENTAL SITE ASSESSMENT

KUM AND GO #4098
7229 UNIVERSITY AVENUE
WINDSOR HEIGHTS, POLK COUNTY, IA

PREPARED FOR

MR. JOHN THATCHER
KUM AND GO, L.C.
6400 WESTOWN PARKWAY
WEST DES MOINES, IA 50266

AND

MR. NICK HALFHILL
KUM AND GO, L.C.
6400 WESTOWN PARKWAY
WEST DES MOINES, IA 50266

PREPARED BY

JENNIFER BAKER, CGP #2086

SENECA ENVIRONMENTAL SERVICES
4140 E. 14TH STREET
DES MOINES, IA 50313

SENECA PROJECT No. 6509806
MARCH 20, 2013 - REVISED

Table of Contents

TABLES

APPENDICES

INTRODUCTION

This report summarizes the data, observations, and conclusions of the drilling and sampling conducted at the Kum and Go #4098 located at 7229, Windsor Heights, Polk County, IA. This report was completed in response to a request for a Phase II Environmental Site Assessment (ESA) as a result of the Recognized Environmental Conditions (RECs) identified during the Phase I Environmental Site Assessment issued January 18, 2013. The following RECs were addressed with the field investigation during the Phase II ESA:

1. 7229 University Avenue, Kum & Go #4098, UST 198609198, LUST ID 8LTQ33 and 9LTH22.
2. A Vapor Encroachment Screening was conducted for the Subject Property. The Kum & Go #4098 is considered a VEC.
3. 7229 University Parcel was previously a chemical manufacturing facility.

This report was prepared for Mr. John Thatcher and Mr. Nick Halfhill with Kum and Go, L.C.

SITE HISTORY

7229 University Avenue

The 7729 University Avenue parcel is owned by Kum & Go L.C. Historically the parcel has been utilized as a gas station and chemical manufacturing facility. The parcel is referenced as, RCRA IAD000805374, SPILL ID 040903-RLT-1035, UST 198609198, LUST ID 8LTQ33 and 9LTH22. The site is listed as a handler Non-generator which does not generate waste. A focused compliance inspection was completed in 09/14/1994 and no violations were found on site. A spill was reported 04/09/2003, when a nozzle fell out of a vehicle and spilled one half gallon of gasoline on the concrete pad. Windsor Heights Fire Department responded and contained the spill with peat moss. The site has two (2) (1-12,000 gallon gasoline and 1-10,000 gallon gasoline) active USTs. The site previously had three (3) (1-500 gallon used oil and 2-8,000 gallon gasoline) additional USTs. The 500 gallon and 8,000 gallon USTs were installed in 1966 and the removed in 1991. The other 8,000 gallon UST was installed in 1966 and removed in 1988. The LUST claim 8LTQ33 began on 10/01/1991. The release was not verified due to comingled contamination from the LUST site directly to the east, the 7215 University Avenue parcel. The site earned its No Action required status 1/27/1992. The LUST claim 9LTH22 began 1/6/1999. The release was not verified and the site earned its No Action required status 7/2/1999.

SCOPE OF WORK

Based on these recognized environmental conditions, the proposed scope of work was developed:

- Drilling one (1) soil boring down-gradient of the existing UST system. Collect one (1) soil and one (1) groundwater sample for analysis of volatile organic compounds (VOCs), semi volatile organic compounds (sVOCs), and RCRA 8 Metals including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and

silver by EPA Methods 8260, 8270, and RCRA 8 Metals from the subsurface interval exhibiting the greater volatiles reading on a Mini Rae 2000 PID.

- Drilling one (1) soil boring at the location of the proposed new tank basin. Collect one (1) soil and one (1) groundwater sample for analysis of volatile organic compounds (VOCs), semi volatile organic compounds (sVOCs), and RCRA 8 Metals including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver by EPA Methods 8260, 8270, and RCRA 8 Metals from the subsurface interval exhibiting the greater volatiles reading on a Mini Rae 2000 PID.
- Drilling one (1) soil boring down-gradient of the former UST system. Collect one (1) soil and one (1) groundwater sample for analysis of volatile organic compounds (VOCs), semi volatile organic compounds (sVOCs), and RCRA 8 Metals including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver by EPA Methods 8260, 8270, and RCRA 8 Metals from the subsurface interval exhibiting the greater volatiles reading on a Mini Rae 2000 PID.

FIELD ACTIVITIES

Three (3) soil borings were installed on the parcel for the acquisition of soil and groundwater samples. Field activities were completed on February 1, 2013, utilizing a truck-mounted geo-probe unit. The soil borings were completed by utilizing direct push technology. A photo-ionization detector (PID) was used for field screening soil samples. Soil borings were advanced to a depth of twenty feet bgs. Soil samples of the sediment core were placed in a labeled Zip-Lock™ baggie. Following sufficient time for vapor equilibration, the PID was used to detect volatile organic compounds (VOCs) inside the soil sample bags. Soil samples were collected at areas exhibiting high PID values to evaluate native soil. Soil samples were collected utilizing nitrile gloves to eliminate the risk of cross-contamination. Soil samples were placed in laboratory provided, clean four-ounce glass jars and sent to a certified laboratory for analysis. The soil borings were then converted to temporary monitoring wells. Groundwater was noted at 8 to 10' below grade. Groundwater samples were stored on ice until they were received by a certified laboratory for analysis, along with the chain-of-custody forms for the sample.

A site map showing the borehole locations is included in **Appendix A**. Lithologic Logs can be found in **Appendix C** of this report.

DATA ANALYSIS

Iowa State-wide Standards Non-Protected Groundwater Source

An Iowa Department of Natural Resources online water search was completed for the site. There are no wells identified within 1000' of the subject property. A county ordinance was in place at the time of issuance of the no further action certificate for LUST 7LTM84, which regulates the installation of drinking and non-drinking water wells. Therefore, the Iowa Department of Natural Resources Statewide Standards Non-Protected Groundwater Source (Statewide Standards) target levels were used for the subject property.

Groundwater Analysis

Three (3) groundwater samples were collected on the 7229 property (SB1, SB2, and SB3). Groundwater concentrations exceeded Statewide Standards for Arsenic.

SB1: Groundwater concentrations exceeded Statewide Standards for arsenic. The Statewide Standard for arsenic is 0.05 mg/L, while sample results were 0.0507 mg/L. Historically the 7229 property has been utilized as a gas station and chemical manufacturing facility. This boring was installed down-gradient of the former UST basin.

SB2: Groundwater concentrations exceeded Statewide Standards for arsenic. The Statewide Standard for arsenic is 0.05 mg/L, while sample results were 0.111 mg/L. The boring was completed in the vicinity of the new UST basin. Historically the 7229 property has been utilized as a gas station and chemical manufacturing facility.

If dewatering for tank installation is necessary the chemicals exceeding statewide standards may have special disposal requirements.

The following table presents the chemicals that exceeded the standards list.

Table 1
Groundwater Analytical Results

Well	Arsenic
SB1	0.0507
SB2	0.111
Non-Protected GW Source	0.05

- results presented in mg/L

Soil Analysis

Three (3) soil samples were collected on the 7229 property (SB1, SB2, and SB3). Concentrations exceeded laboratory detection limits; however they did not exceed the Statewide Standards list. It should be noted that concentrations did exceed laboratory detection limits for metals and volatile organic compounds. If soil needs to be hauled offsite these contaminants may require special disposal requirements.

Vapor Encroachment

Soil analysis and field screening were completed at all the soil borings on the subject property. Field screening was completed using a photo-ionization detector (PID) to detect volatile organic compounds (VOCs). Soil samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (sVOCs), and metals; no samples exceeded Statewide Standards.

The IDNR target level for VOCs during field screening is 10 ppm. Field screening results at SB1, SB2, and SB3, located on the 7229 University property, were less than 10 ppm. Soil samples from these borings were less than laboratory detection limits for VOCs and sVOCs.

The IDNR sets regulations for vapor migration into enclosed spaces for VOCs and sVOCs, such as basements (potential confined space, PCS) and sanitary sewer utility lines (potential sanitary sewer, PSS). These regulations are based on groundwater and soil contamination levels. The following table lists the IDNR Tier 1 Target Levels for soil and groundwater for the PCS/PSS receptors.

Table 2.
IDNR Tier 1 Target Levels

Media	Benzene	Toluene	Ethylbenzene	Diesel
Groundwater (ug/L)	1,540	20,190	46,000	2,200,000
Soil (mg/Kg)	1.16	48	79	47,500

Soil and groundwater contamination is less than Tier 1 Target Levels for the IDNR Tier 1 vapor pathway.

The analytical results of the soil and groundwater samples and the chain-of-custody form are included in **Appendix D**.

DATA REVIEW AND RECOMMENDATIONS:

Groundwater concentrations exceeded Statewide Standards Non-Protected Groundwater Source target levels for arsenic, at SB1 and SB2. Soil concentrations are less than Statewide Standards. This soil may require disposal at a local landfill.

Seneca recommends the report be submitted to the Contaminated Sites Division of the Iowa Department of Natural Resources due to the presence of arsenic concentrations greater than the Iowa Statewide Standards.

LIMITATIONS

This report has been prepared on behalf of and exclusively for use by Kum and Go, L.C., West Des Moines, IA. The information contained in this report is based on a limited number of boreholes, monitoring wells, and a limited analytical suite. The samples that were collected are assumed to be representative of the small area surrounding the borehole or monitoring well. Failure to discover hazardous substances or conditions at the time of this report through appropriate techniques does not guarantee that additional hazardous materials or substances do not exist at the site. We make no warranty, expressed or implied, for this property nor make certification of the suitability of future use of the property based on the results of this assessment, except that our services were performed in accordance with the level of care and skill ordinarily practiced by members of the profession in this area at this time under similar budget and time constraints.

APPENDIX A

SITE MAP

Seneca Environmental Services		Courtesy of BING MAPS	
Kum & Go #4098 7229 & 7215 University Avenue Windsor Heights, IA	Seneca Job No. 6509806	Site Vicinity Map	N

APPENDIX B

SITE VICINITY MAP

Seneca Environmental Services

Courtesy of BING MAPS

Kum & Go #4098
7229 & 7215 University Avenue
Windsor Heights, IA

Seneca Job No. 6509800

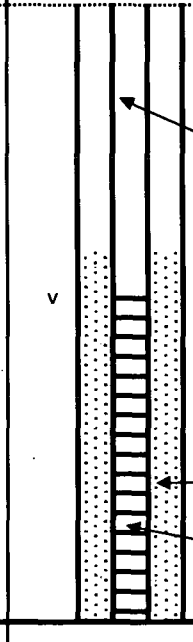
Site Vicinity Map

APPENDIX C

LITHOLOGIC LOGS

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

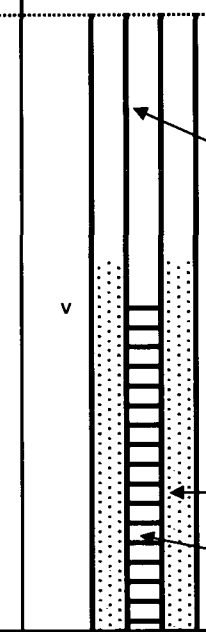
Boring/Well Identification:	SB1	UST Registration No. :	198609198	LUST No.:	8LTQ33/9LTH22
Boring Depth (ft.) X Diameter (in):	20' x 2.25"	Well Owner's Name:	KUM & GO #4098		
Start Date: 1/31/2013	Finish Date: 1/31/2013	Drilling Method:	DP		
Permanent Well: NO	Temporary Well: YES	Depth to Static Water Level:	Approx. 9.67'		
		Ground:	NA		
Total Depth of Well: 20'	Depth to Bedrock: NA	Top of Casing:	NA		
Drilling Company:	SABERPROBE	Top of Screen:	NA		
Company Address: 14506 SCHRAM ROAD		City, State, ZIP: OMAHA, NE 68138			
Certified Driller's Signature:		**Logged by:**	TYLER WINKLEMAN		
Driller's Registration Number:	7946	Date Logged:	1/31/2013		

Depth (feet)	Well Construction Details Well casing-1" Dia. Sched 40 PVC	Sample No.	Sample Type*	PID/FID Reading	USCS Class.	Soil Classification rock formation, soil, color, observations
0				-		Overlay Material - Concrete 6"
1				1.9	CL	**1-9'**: Lean CLAY with gravel (<15%) and sand, dark brown, firm, damp, no odor
2				0.6		
3				1		
4				2.1		
5				0.45		
6				0.7		
7				1.2		
8				0.9		
9				1.8	SW	**9-16'**: SAND, rounded, light brown, well sorted, loose, damp, no odor
10		SB1	DP	3.3		
11				0.4		
12				0.5		**12'**: Moist
13				1.5		**13'**: Dark Brown
14				1.7		
15				0.6		
16				1.6	ML	**16-20'**: SILT, dark brownish gray, firm, moist, no odor
17				1.4		
18				1		
19				0.5		
20				0.7		
21						**END OF BORING**
22						
23						
24						
25						
26						
27						
28						
29						
30						

*SS (Split Spoon) DP(Direct Push) CC (Continuous Core) HA (Hand Auger) SG (Soil Gas)

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well Identification:	SB2	UST Registration No. :	198609198	LUST No.:	8LTQ33/9LTH22
Boring Depth (ft.) X Diameter (in):	20' x 2.25"	Well Owner's Name:	KUM & GO #4098		
Start Date: 1/31/2013	Finish Date: 1/31/2013	Drilling Method:	DP		
Permanent Well: NO	Temporary Well: YES	Depth to Static Water Level:	Approx. 9.91'		
		Ground:	NA		
Total Depth of Well: 20'	Depth to Bedrock: NA	Top of Casing:	NA		
Drilling Company:	SABERPROBE	Top of Screen:	NA		
Company Address:	14506 SCHRAM ROAD	City, State, ZIP:	OMAHA, NE 68138		
Certified Driller's Signature:		**Logged by:**	TYLER WINKLEMAN		
Driller's Registration Number:	7946	Date Logged:	1/31/2013		

Depth (feet)	Well Construction Details Well casing-1" Dia. Sched 40 PVC	Sample No.	Sample Type*	PID/FID Reading	USCS Class.	Soil Classification rock formation, soil, color, observations
0				-		Overlay Material - Concrete 6"
1				2.3	CL	**1-3':** Lean CLAY with sand and gravel, firm, damp, no odor
2		SB2	DP	2.9		
3				2.3	CL	**3-8':** Sandy lean CLAY with gravel, firm, damp, no odor
4				1.9		
5				1.5		
6				2.2		
7				1.9		
8				1.9	SW	**8-16':** SAND well graded, loose, light brown, no odor
9				1.5		
10				1.6		
11				1.6		**11':** Moist
12				1.5		
13				1.2		
14				0.9		
15				0.7		
16				0.2	ML	**16-20':** SILT, dark grayish brown, firm, damp, no odor
17				0.1		
18				0.1		
19				0.2		
20				0.2		
21						**END OF BORING**
22						
23						
24						
25						
26						
27						
28						
29						
30						

*SS (Split Spoon) DP(Direct Push) CC (Continuous Core) HA (Hand Auger) SG (Soil Gas)

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well Identification:	SB3	UST Registration No. :	198609198	LUST No.:	8LTQ33/9LTH22
Boring Depth (ft.) X Diameter (in):	20' x 2.25"	Well Owner's Name:	KUM & GO #4098		
Start Date:	1/31/2013	Finish Date:	1/31/2013	Drilling Method:	DP
Permanent Well:	NO	Temporary Well:	YES	Depth to Static Water Level:	Approx. 10.97'
				Ground:	NA
Total Depth of Well:	20'	Depth to Bedrock:	NA	Top of Casing:	NA
Drilling Company:	SABERPROBE			Top of Screen:	NA
Company Address:	14506 SCHRAM ROAD			City, State, ZIP:	OMAHA, NE 68138
Certified Driller's Signature:				**Logged by:**	TYLER WINKLEMAN
Driller's Registration Number:	7946			Date Logged:	1/31/2013

Depth (feet)	Well Construction Details Well casing-1" Dia. Sched 40 PVC	Sample No.	Sample Type*	PID/FID Reading	USCS Class.	Soil Classification rock formation, soil, color, observations
0				-		Overlay Material - Concrete 6"
1				0.9	SW	**1-18'**: SAND, light brown, loose, rounded, well sorted, no odor
2				0.8		
3				0.9		
4				1		
5	riser			0.7		
6				0.7		
7				0.6		
8				0.5		
9				0.5		
10				0.7		
11	v			1.1		**11'**: Moist, With gravel
12				1.3		
13		SB3	DP	1.5		
14				1.2		
15				1		
16	sand			0.8	ML	**18-20'**: SILT, very dark grayish brown, firm, damp, no odor
17				0.9		
18	screen			0		
19				0.4		
20				0.3		
21						**END OF BORING**
22						
23						
24						
25						
26						
27						
28						
29						
30						

*SS (Split Spoon) DP(Direct Push) CC (Continuous Core) HA (Hand Auger) SG (Soil Gas)

APPENDIX D

LABORATORY ANALYSIS OF SOIL AND GROUNDWATER SAMPLES
CHAIN OF CUSTODY FORM

Client: Seneca Companies
Project/Site: K & G # 4098 -Windsor Heights

TestAmerica Job ID: 310-1813-1
SDG: 6509806

Client Sample ID: SB-1
Date Collected: 02/01/13 09:30
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-1
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			02/04/13 22:03	1
Benzene	<0.500		0.500		ug/L			02/04/13 22:03	1
Bromobenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
Bromochloromethane	<5.00		5.00		ug/L			02/04/13 22:03	1
Bromodichloromethane	<1.00		1.00		ug/L			02/04/13 22:03	1
Bromoform	<5.00		5.00		ug/L			02/04/13 22:03	1
Bromomethane	<4.00		4.00		ug/L			02/04/13 22:03	1
2-Butanone (MEK)	<10.0		10.0		ug/L			02/04/13 22:03	1
n-Butylbenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
sec-Butylbenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
tert-Butylbenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
Carbon disulfide	<1.00		1.00		ug/L			02/06/13 15:46	1
Carbon tetrachloride	<2.00		2.00		ug/L			02/04/13 22:03	1
Chlorobenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
Chlorodibromomethane	<5.00		5.00		ug/L			02/04/13 22:03	1
Chloroethane	<4.00		4.00		ug/L			02/04/13 22:03	1
Chloroform	<1.00		1.00		ug/L			02/04/13 22:03	1
Chloromethane	<3.00		3.00		ug/L			02/04/13 22:03	1
2-Chlorotoluene	<1.00		1.00		ug/L			02/04/13 22:03	1
4-Chlorotoluene	<1.00		1.00		ug/L			02/04/13 22:03	1
1,2-Dibromo-3-Chloropropane	<10.0		10.0		ug/L			02/04/13 22:03	1
1,2-Dibromoethane (EDB)	<10.0		10.0		ug/L			02/04/13 22:03	1
Dibromomethane	<1.00		1.00		ug/L			02/04/13 22:03	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			02/04/13 22:03	1
1,1-Dichloroethane	<1.00		1.00		ug/L			02/04/13 22:03	1
1,2-Dichloroethane	<1.00		1.00		ug/L			02/04/13 22:03	1
1,1-Dichloroethene	<2.00		2.00		ug/L			02/04/13 22:03	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			02/04/13 22:03	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			02/04/13 22:03	1
1,2-Dichloropropane	<1.00		1.00		ug/L			02/04/13 22:03	1
1,3-Dichloropropane	<1.00		1.00		ug/L			02/04/13 22:03	1
2,2-Dichloropropane	<4.00		4.00		ug/L			02/04/13 22:03	1
1,1-Dichloropropene	<1.00		1.00		ug/L			02/04/13 22:03	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			02/04/13 22:03	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			02/04/13 22:03	1
Ethylbenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
Hexachlorobutadiene	<5.00		5.00		ug/L			02/04/13 22:03	1
Hexane	<1.00		1.00		ug/L			02/04/13 22:03	1
Isopropylbenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
p-Isopropyltoluene	<1.00		1.00		ug/L			02/04/13 22:03	1
Methylene Chloride	<5.00		5.00		ug/L			02/04/13 22:03	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			02/04/13 22:03	1
Naphthalene	<5.00		5.00		ug/L			02/04/13 22:03	1
N-Propylbenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
Styrene	<1.00		1.00		ug/L			02/04/13 22:03	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			02/04/13 22:03	1

Client Sample ID: SB-1
Date Collected: 02/01/13 09:30
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-1
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			02/04/13 22:03	1
Tetrachloroethene	<1.00		1.00		ug/L			02/04/13 22:03	1
Toluene	<1.00		1.00		ug/L			02/04/13 22:03	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			02/04/13 22:03	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			02/04/13 22:03	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			02/04/13 22:03	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			02/04/13 22:03	1
Trichloroethene	<1.00		1.00		ug/L			02/04/13 22:03	1
Trichlorofluoromethane	<4.00		4.00		ug/L			02/04/13 22:03	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			02/04/13 22:03	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			02/04/13 22:03	1
Vinyl chloride	<1.00		1.00		ug/L			02/04/13 22:03	1
Xylenes, Total	<3.00		3.00		ug/L			02/04/13 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*75 - 110*		*02/04/13 22:03*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 110*		*02/06/13 15:46*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*02/04/13 22:03*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*02/06/13 15:46*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/04/13 22:03*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*02/06/13 15:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Benzo[a]anthracene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Benzo[a]pyrene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Benzidine	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Benzo[b]fluoranthene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Benzo[g,h,i]perylene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Benzo[k]fluoranthene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Acenaphthene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Acenaphthylene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Benzyl alcohol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Butyl benzyl phthalate	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Bis(2-chloroethyl)ether	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Bis(2-chloroethoxy)methane	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Bis(2-ethylhexyl) phthalate	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
bis (2-chloroisopropyl) ether	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
4-Bromophenyl phenyl ether	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Carbazole	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
4-Chloroaniline	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2-Chloronaphthalene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
4-Chlorophenyl phenyl ether	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Chrysene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Dibenz(a,h)anthracene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Dibenzofuran	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Di-n-butyl phthalate	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
1,2-Dichlorobenzene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1

Client Sample ID: SB-1
Date Collected: 02/01/13 09:30
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-1
Matrix: Ground Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
1,4-Dichlorobenzene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
3,3'-Dichlorobenzidine	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Diethyl phthalate	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Dimethyl phthalate	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2,4-Dinitrotoluene	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2,6-Dinitrotoluene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Fluorene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Hexachlorobenzene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Hexachlorobutadiene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Hexachlorocyclopentadiene	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Hexachloroethane	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Di-n-octyl phthalate	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Fluoranthene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Indeno[1,2,3-cd]pyrene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Isophorone	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2-Methylnaphthalene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Naphthalene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2-Nitroaniline	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
3-Nitroaniline	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
4-Nitroaniline	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Nitrobenzene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
N-Nitrosodiphenylamine	<92.6		92.6		ug/L		02/04/13 21:39	02/05/13 15:45	1
N-Nitrosodi-n-propylamine	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
N-Nitrosodimethylamine	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Phenanthrene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Pyrene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Pyridine	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
1,2,4-Trichlorobenzene	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Benzoic acid	<92.6		92.6		ug/L		02/04/13 21:39	02/05/13 15:45	1
4-Chloro-3-methylphenol	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2-Chlorophenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Total Cresols	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2,4-Dichlorophenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2,4-Dimethylphenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2,4-Dinitrophenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
4,6-Dinitro-2-methylphenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2-Methylphenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Methylphenol, 3 & 4	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2-Nitrophenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
4-Nitrophenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Pentachlorophenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
Phenol	<18.5	*	18.5		ug/L		02/04/13 21:39	02/05/13 15:45	1
2,4,5-Trichlorophenol	<9.26	*	9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1
2,4,6-Trichlorophenol	<9.26		9.26		ug/L		02/04/13 21:39	02/05/13 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*41*		*10 - 45*	*02/04/13 21:39*	*02/05/13 15:45*	*1*
Phenol-d6 (Surr)	*32*		*10 - 35*	*02/04/13 21:39*	*02/05/13 15:45*	*1*
Nitrobenzene-d5 (Surr)	*59*		*20 - 80*	*02/04/13 21:39*	*02/05/13 15:45*	*1*

Client Sample ID: SB-1
Date Collected: 02/01/13 09:30
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-1
Matrix: Ground Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*25 - 80*	*02/04/13 21:39*	*02/05/13 15:45*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*30 - 95*	*02/04/13 21:39*	*02/05/13 15:45*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 105*	*02/04/13 21:39*	*02/05/13 15:45*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0507**		0.00500		mg/L		02/05/13 16:25	02/12/13 15:13	5
Barium	**3.07**		0.00500		mg/L		02/05/13 16:25	02/09/13 00:20	5
Cadmium	**0.00628**		0.00250		mg/L		02/05/13 16:25	02/09/13 00:20	5
Chromium	**0.0297**		0.0250		mg/L		02/05/13 16:25	02/09/13 00:20	5
Lead	**0.0415**		0.00250		mg/L		02/05/13 16:25	02/09/13 00:20	5
Selenium	<0.0250		0.0250		mg/L		02/05/13 16:25	02/09/13 00:20	5
Silver	<0.00250		0.00250		mg/L		02/05/13 16:25	02/09/13 00:20	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		02/06/13 19:43	02/07/13 14:36	1

Client: Seneca Companies
Project/Site: K & G # 4098 -Windsor Heights

TestAmerica Job ID: 310-1813-1
SDG: 6509806

Client Sample ID: SB-2
Date Collected: 02/01/13 10:00
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-2
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			02/04/13 22:29	1
Benzene	<0.500		0.500		ug/L			02/04/13 22:29	1
Bromobenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
Bromochloromethane	<5.00		5.00		ug/L			02/04/13 22:29	1
Bromodichloromethane	<1.00		1.00		ug/L			02/04/13 22:29	1
Bromoform	<5.00		5.00		ug/L			02/04/13 22:29	1
Bromomethane	<4.00		4.00		ug/L			02/04/13 22:29	1
2-Butanone (MEK)	<10.0		10.0		ug/L			02/04/13 22:29	1
n-Butylbenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
sec-Butylbenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
tert-Butylbenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
Carbon disulfide	<1.00		1.00		ug/L			02/07/13 11:10	1
Carbon tetrachloride	<2.00		2.00		ug/L			02/04/13 22:29	1
Chlorobenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
Chlorodibromomethane	<5.00		5.00		ug/L			02/04/13 22:29	1
Chloroethane	<4.00		4.00		ug/L			02/04/13 22:29	1
Chloroform	<1.00		1.00		ug/L			02/04/13 22:29	1
Chloromethane	<3.00		3.00		ug/L			02/04/13 22:29	1
2-Chlorotoluene	<1.00		1.00		ug/L			02/04/13 22:29	1
4-Chlorotoluene	<1.00		1.00		ug/L			02/04/13 22:29	1
1,2-Dibromo-3-Chloropropane	<10.0		10.0		ug/L			02/04/13 22:29	1
1,2-Dibromoethane (EDB)	<10.0		10.0		ug/L			02/04/13 22:29	1
Dibromomethane	<1.00		1.00		ug/L			02/04/13 22:29	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			02/04/13 22:29	1
1,1-Dichloroethane	<1.00		1.00		ug/L			02/04/13 22:29	1
1,2-Dichloroethane	<1.00		1.00		ug/L			02/04/13 22:29	1
1,1-Dichloroethene	<2.00		2.00		ug/L			02/04/13 22:29	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			02/04/13 22:29	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			02/04/13 22:29	1
1,2-Dichloropropane	<1.00		1.00		ug/L			02/04/13 22:29	1
1,3-Dichloropropane	<1.00		1.00		ug/L			02/04/13 22:29	1
2,2-Dichloropropane	<4.00		4.00		ug/L			02/04/13 22:29	1
1,1-Dichloropropene	<1.00		1.00		ug/L			02/04/13 22:29	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			02/04/13 22:29	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			02/04/13 22:29	1
Ethylbenzene	**1.34**		1.00		ug/L			02/07/13 11:10	1
Hexachlorobutadiene	<5.00		5.00		ug/L			02/04/13 22:29	1
Hexane	<1.00		1.00		ug/L			02/04/13 22:29	1
Isopropylbenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
p-Isopropyltoluene	<1.00		1.00		ug/L			02/04/13 22:29	1
Methylene Chloride	<5.00		5.00		ug/L			02/04/13 22:29	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			02/04/13 22:29	1
Naphthalene	<5.00		5.00		ug/L			02/04/13 22:29	1
N-Propylbenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
Styrene	<1.00		1.00		ug/L			02/04/13 22:29	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			02/04/13 22:29	1

Client Sample ID: SB-2
Date Collected: 02/01/13 10:00
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-2
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			02/04/13 22:29	1
Tetrachloroethene	<1.00		1.00		ug/L			02/04/13 22:29	1
Toluene	**1.40**		1.00		ug/L			02/04/13 22:29	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			02/04/13 22:29	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			02/04/13 22:29	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			02/04/13 22:29	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			02/04/13 22:29	1
Trichloroethene	<1.00		1.00		ug/L			02/04/13 22:29	1
Trichlorofluoromethane	<4.00		4.00		ug/L			02/04/13 22:29	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			02/04/13 22:29	1
1,2,4-Trimethylbenzene	**1.79**		1.00		ug/L			02/07/13 11:10	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			02/04/13 22:29	1
Vinyl chloride	<1.00		1.00		ug/L			02/04/13 22:29	1
Xylenes, Total	**3.92**		3.00		ug/L			02/07/13 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*75 - 110*		*02/04/13 22:29*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 110*		*02/07/13 11:10*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 120*		*02/04/13 22:29*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*02/07/13 11:10*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/04/13 22:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/07/13 11:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Benzo[a]anthracene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Benzo[a]pyrene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Benzidine	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Benzo[b]fluoranthene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Benzo[g,h,i]perylene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Benzo[k]fluoranthene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Acenaphthene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Acenaphthylene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Benzyl alcohol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Butyl benzyl phthalate	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Bis(2-chloroethyl)ether	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Bis(2-chloroethoxy)methane	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Bis(2-ethylhexyl) phthalate	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
bis (2-chloroisopropyl) ether	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
4-Bromophenyl phenyl ether	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Carbazole	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
4-Chloroaniline	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2-Chloronaphthalene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
4-Chlorophenyl phenyl ether	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Chrysene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Dibenz(a,h)anthracene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Dibenzofuran	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Di-n-butyl phthalate	**22.1**		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
1,2-Dichlorobenzene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1

Client Sample ID: SB-2
Date Collected: 02/01/13 10:00
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-2
Matrix: Ground Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
1,4-Dichlorobenzene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
3,3'-Dichlorobenzidine	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Diethyl phthalate	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Dimethyl phthalate	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2,4-Dinitrotoluene	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2,6-Dinitrotoluene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Fluorene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Hexachlorobenzene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Hexachlorobutadiene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Hexachlorocyclopentadiene	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Hexachloroethane	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Di-n-octyl phthalate	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Fluoranthene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Indeno[1,2,3-cd]pyrene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Isophorone	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2-Methylnaphthalene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Naphthalene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2-Nitroaniline	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
3-Nitroaniline	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
4-Nitroaniline	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Nitrobenzene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
N-Nitrosodiphenylamine	<109		109		ug/L		02/04/13 21:39	02/05/13 16:16	1
N-Nitrosodi-n-propylamine	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
N-Nitrosodimethylamine	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Phenanthrene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Pyrene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Pyridine	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
1,2,4-Trichlorobenzene	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Benzoic acid	<109		109		ug/L		02/04/13 21:39	02/05/13 16:16	1
4-Chloro-3-methylphenol	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2-Chlorophenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Total Cresols	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2,4-Dichlorophenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2,4-Dimethylphenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2,4-Dinitrophenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
4,6-Dinitro-2-methylphenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2-Methylphenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Methylphenol, 3 & 4	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2-Nitrophenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
4-Nitrophenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Pentachlorophenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
Phenol	<21.7	*	21.7		ug/L		02/04/13 21:39	02/05/13 16:16	1
2,4,5-Trichlorophenol	<10.9	*	10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1
2,4,6-Trichlorophenol	<10.9		10.9		ug/L		02/04/13 21:39	02/05/13 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*36*		*10 - 45*	*02/04/13 21:39*	*02/05/13 16:16*	*1*
Phenol-d6 (Surr)	*30*		*10 - 35*	*02/04/13 21:39*	*02/05/13 16:16*	*1*
Nitrobenzene-d5 (Surr)	*48*		*20 - 80*	*02/04/13 21:39*	*02/05/13 16:16*	*1*

Client Sample ID: SB-2
Date Collected: 02/01/13 10:00
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-2
Matrix: Ground Water

6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*45*		*25 - 80*	*02/04/13 21:39*	*02/05/13 16:16*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*30 - 95*	*02/04/13 21:39*	*02/05/13 16:16*	*1*
Terphenyl-d14 (Surr)	*48*		*30 - 105*	*02/04/13 21:39*	*02/05/13 16:16*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.111**		0.00500		mg/L		02/05/13 16:25	02/12/13 15:32	5
Barium	**3.67**		0.00500		mg/L		02/05/13 16:25	02/09/13 00:40	5
Cadmium	**0.00353**		0.00250		mg/L		02/05/13 16:25	02/09/13 00:40	5
Chromium	**0.0362**		0.0250		mg/L		02/05/13 16:25	02/09/13 00:40	5
Lead	**0.0643**		0.00250		mg/L		02/05/13 16:25	02/09/13 00:40	5
Selenium	<0.0250		0.0250		mg/L		02/05/13 16:25	02/09/13 00:40	5
Silver	<0.00250		0.00250		mg/L		02/05/13 16:25	02/09/13 00:40	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		02/06/13 19:43	02/07/13 14:41	1

Client: Seneca Companies
Project/Site: K & G # 4098 -Windsor Heights

TestAmerica Job ID: 310-1813-1
SDG: 6509806

Client Sample ID: SB-3
Date Collected: 02/01/13 09:10
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-3
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			02/04/13 22:54	1
Benzene	<0.500		0.500		ug/L			02/04/13 22:54	1
Bromobenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
Bromochloromethane	<5.00		5.00		ug/L			02/04/13 22:54	1
Bromodichloromethane	<1.00		1.00		ug/L			02/04/13 22:54	1
Bromoform	<5.00		5.00		ug/L			02/04/13 22:54	1
Bromomethane	<4.00		4.00		ug/L			02/04/13 22:54	1
2-Butanone (MEK)	<10.0		10.0		ug/L			02/04/13 22:54	1
n-Butylbenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
sec-Butylbenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
tert-Butylbenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
Carbon disulfide	<1.00		1.00		ug/L			02/06/13 16:08	1
Carbon tetrachloride	<2.00		2.00		ug/L			02/04/13 22:54	1
Chlorobenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
Chlorodibromomethane	<5.00		5.00		ug/L			02/04/13 22:54	1
Chloroethane	<4.00		4.00		ug/L			02/04/13 22:54	1
Chloroform	<1.00		1.00		ug/L			02/04/13 22:54	1
Chloromethane	<3.00		3.00		ug/L			02/04/13 22:54	1
2-Chlorotoluene	<1.00		1.00		ug/L			02/04/13 22:54	1
4-Chlorotoluene	<1.00		1.00		ug/L			02/04/13 22:54	1
1,2-Dibromo-3-Chloropropane	<10.0		10.0		ug/L			02/04/13 22:54	1
1,2-Dibromoethane (EDB)	<10.0		10.0		ug/L			02/04/13 22:54	1
Dibromomethane	<1.00		1.00		ug/L			02/04/13 22:54	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			02/04/13 22:54	1
1,1-Dichloroethane	<1.00		1.00		ug/L			02/04/13 22:54	1
1,2-Dichloroethane	<1.00		1.00		ug/L			02/04/13 22:54	1
1,1-Dichloroethene	<2.00		2.00		ug/L			02/04/13 22:54	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			02/04/13 22:54	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			02/04/13 22:54	1
1,2-Dichloropropane	<1.00		1.00		ug/L			02/04/13 22:54	1
1,3-Dichloropropane	<1.00		1.00		ug/L			02/04/13 22:54	1
2,2-Dichloropropane	<4.00		4.00		ug/L			02/04/13 22:54	1
1,1-Dichloropropene	<1.00		1.00		ug/L			02/04/13 22:54	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			02/04/13 22:54	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			02/04/13 22:54	1
Ethylbenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
Hexachlorobutadiene	<5.00		5.00		ug/L			02/04/13 22:54	1
Hexane	<1.00		1.00		ug/L			02/04/13 22:54	1
Isopropylbenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
p-Isopropyltoluene	<1.00		1.00		ug/L			02/04/13 22:54	1
Methylene Chloride	<5.00		5.00		ug/L			02/04/13 22:54	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			02/04/13 22:54	1
Naphthalene	<5.00		5.00		ug/L			02/04/13 22:54	1
N-Propylbenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
Styrene	<1.00		1.00		ug/L			02/04/13 22:54	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			02/04/13 22:54	1

Client Sample ID: SB-3
Date Collected: 02/01/13 09:10
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-3
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			02/04/13 22:54	1
Tetrachloroethene	<1.00		1.00		ug/L			02/04/13 22:54	1
Toluene	<1.00		1.00		ug/L			02/04/13 22:54	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			02/04/13 22:54	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			02/04/13 22:54	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			02/04/13 22:54	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			02/04/13 22:54	1
Trichloroethene	<1.00		1.00		ug/L			02/04/13 22:54	1
Trichlorofluoromethane	<4.00		4.00		ug/L			02/04/13 22:54	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			02/04/13 22:54	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			02/04/13 22:54	1
Vinyl chloride	<1.00		1.00		ug/L			02/04/13 22:54	1
Xylenes, Total	<3.00		3.00		ug/L			02/04/13 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*75 - 110*		*02/04/13 22:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 110*		*02/06/13 16:08*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*02/04/13 22:54*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*02/06/13 16:08*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/04/13 22:54*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*02/06/13 16:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Benzo[a]anthracene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Benzo[a]pyrene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Benzidine	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Benzo[b]fluoranthene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Benzo[g,h,i]perylene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Benzo[k]fluoranthene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Acenaphthene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Acenaphthylene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Benzyl alcohol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Butyl benzyl phthalate	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Bis(2-chloroethyl)ether	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Bis(2-chloroethoxy)methane	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Bis(2-ethylhexyl) phthalate	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
bis (2-chloroisopropyl) ether	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
4-Bromophenyl phenyl ether	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Carbazole	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
4-Chloroaniline	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2-Chloronaphthalene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
4-Chlorophenyl phenyl ether	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Chrysene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Dibenz(a,h)anthracene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Dibenzofuran	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Di-n-butyl phthalate	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
1,2-Dichlorobenzene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1

Client Sample ID: SB-3
Date Collected: 02/01/13 09:10
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-3
Matrix: Ground Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
1,4-Dichlorobenzene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
3,3'-Dichlorobenzidine	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Diethyl phthalate	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Dimethyl phthalate	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2,4-Dinitrotoluene	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2,6-Dinitrotoluene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Fluorene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Hexachlorobenzene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Hexachlorobutadiene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Hexachlorocyclopentadiene	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Hexachloroethane	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Di-n-octyl phthalate	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Fluoranthene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Indeno[1,2,3-cd]pyrene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Isophorone	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2-Methylnaphthalene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Naphthalene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2-Nitroaniline	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
3-Nitroaniline	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
4-Nitroaniline	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Nitrobenzene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
N-Nitrosodiphenylamine	<96.2		96.2		ug/L		02/04/13 21:39	02/05/13 16:47	1
N-Nitrosodi-n-propylamine	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
N-Nitrosodimethylamine	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Phenanthrene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Pyrene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Pyridine	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
1,2,4-Trichlorobenzene	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Benzoic acid	<96.2		96.2		ug/L		02/04/13 21:39	02/05/13 16:47	1
4-Chloro-3-methylphenol	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2-Chlorophenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Total Cresols	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2,4-Dichlorophenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2,4-Dimethylphenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2,4-Dinitrophenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
4,6-Dinitro-2-methylphenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2-Methylphenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Methylphenol, 3 & 4	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2-Nitrophenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
4-Nitrophenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Pentachlorophenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
Phenol	<19.2	*	19.2		ug/L		02/04/13 21:39	02/05/13 16:47	1
2,4,5-Trichlorophenol	<9.62	*	9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1
2,4,6-Trichlorophenol	<9.62		9.62		ug/L		02/04/13 21:39	02/05/13 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*39*		*10 - 45*	*02/04/13 21:39*	*02/05/13 16:47*	*1*
Phenol-d6 (Surr)	*30*		*10 - 35*	*02/04/13 21:39*	*02/05/13 16:47*	*1*
Nitrobenzene-d5 (Surr)	*57*		*20 - 80*	*02/04/13 21:39*	*02/05/13 16:47*	*1*

Client Sample ID: SB-3
Date Collected: 02/01/13 09:10
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-3
Matrix: Ground Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*25 - 80*	*02/04/13 21:39*	*02/05/13 16:47*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*30 - 95*	*02/04/13 21:39*	*02/05/13 16:47*	*1*
Terphenyl-d14 (Surr)	*78*		*30 - 105*	*02/04/13 21:39*	*02/05/13 16:47*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0380**		0.00500		mg/L		02/05/13 16:25	02/12/13 15:38	5
Barium	**1.90**		0.00500		mg/L		02/05/13 16:25	02/09/13 00:46	5
Cadmium	**0.0130**		0.00250		mg/L		02/05/13 16:25	02/09/13 00:46	5
Chromium	<0.0250		0.0250		mg/L		02/05/13 16:25	02/09/13 00:46	5
Lead	**0.0232**		0.00250		mg/L		02/05/13 16:25	02/09/13 00:46	5
Selenium	<0.0250		0.0250		mg/L		02/05/13 16:25	02/09/13 00:46	5
Silver	<0.00250		0.00250		mg/L		02/05/13 16:25	02/09/13 00:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		02/06/13 19:43	02/07/13 14:44	1

Client Sample ID: SB-1 10'
Date Collected: 01/31/13 14:35
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-6
Matrix: Soil
Percent Solids: 77.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<159		159		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Benzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Bromobenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Bromochloromethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Bromodichloromethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Bromoform	<31.8		31.8		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Bromomethane	<63.5		63.5		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
2-Butanone (MEK)	<159		159		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
n-Butylbenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
sec-Butylbenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
tert-Butylbenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Carbon disulfide	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Carbon tetrachloride	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Chlorobenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Chlorodibromomethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Chloroethane	<63.5		63.5		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Chloroform	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Chloromethane	<63.5		63.5		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
2-Chlorotoluene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
4-Chlorotoluene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,2-Dibromo-3-Chloropropane	<159		159		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,2-Dibromoethane (EDB)	<159		159		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Dibromomethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,2-Dichlorobenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,3-Dichlorobenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,4-Dichlorobenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Dichlorodifluoromethane	<47.6		47.6		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,1-Dichloroethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,2-Dichloroethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,1-Dichloroethene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
cis-1,2-Dichloroethene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
trans-1,2-Dichloroethene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,2-Dichloropropane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,3-Dichloropropane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
2,2-Dichloropropane	<63.5		63.5		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,1-Dichloropropene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
cis-1,3-Dichloropropene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
trans-1,3-Dichloropropene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Ethylbenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Hexachlorobutadiene	<79.4		79.4		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Hexane	<79.4		79.4		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Isopropylbenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
p-Isopropyltoluene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Methylene Chloride	<159		159		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Methyl tert-butyl ether	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Naphthalene	<79.4		79.4		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
N-Propylbenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Styrene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,1,1,2-Tetrachloroethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1

Client Sample ID: SB-1 10'
Date Collected: 01/31/13 14:35
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-6
Matrix: Soil
Percent Solids: 77.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Tetrachloroethene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Toluene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,2,3-Trichlorobenzene	<79.4		79.4		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,2,4-Trichlorobenzene	<79.4		79.4		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,1,1-Trichloroethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,1,2-Trichloroethane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Trichloroethene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Trichlorofluoromethane	<63.5		63.5		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,2,3-Trichloropropane	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,2,4-Trimethylbenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
1,3,5-Trimethylbenzene	<15.9		15.9		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Vinyl chloride	<47.6		47.6		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1
Xylenes, Total	<47.6		47.6		ug/Kg	☼	02/06/13 08:26	02/06/13 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*	*02/06/13 08:26*	*02/06/13 15:58*	*1*
Dibromofluoromethane (Surr)	*81*		*75 - 125*	*02/06/13 08:26*	*02/06/13 15:58*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*02/06/13 08:26*	*02/06/13 15:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Benzo[a]anthracene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Benzo[a]pyrene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Benzidine	<9.89		9.89		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Benzo[b]fluoranthene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Benzo[g,h,i]perylene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Benzo[k]fluoranthene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Acenaphthene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Acenaphthylene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Benzyl alcohol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Butyl benzyl phthalate	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Bis(2-chloroethyl)ether	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Bis(2-chloroethoxy)methane	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Bis(2-ethylhexyl) phthalate	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
bis (2-chloroisopropyl) ether	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
4-Bromophenyl phenyl ether	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Carbazole	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
4-Chloroaniline	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2-Chloronaphthalene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
4-Chlorophenyl phenyl ether	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Chrysene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Dibenz(a,h)anthracene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Dibenzofuran	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Di-n-butyl phthalate	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
1,2-Dichlorobenzene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
1,3-Dichlorobenzene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
1,4-Dichlorobenzene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
3,3'-Dichlorobenzidine	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1

Client: Seneca Companies
Project/Site: K & G # 4098 -Windsor Heights

TestAmerica Job ID: 310-1813-1
SDG: 6509806

Client Sample ID: SB-1 10'
Date Collected: 01/31/13 14:35
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-6
Matrix: Soil
Percent Solids: 77.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Dimethyl phthalate	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2,4-Dinitrotoluene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2,6-Dinitrotoluene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Fluorene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Hexachlorobenzene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Hexachlorobutadiene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Hexachlorocyclopentadiene	<1.98		1.98		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Hexachloroethane	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Di-n-octyl phthalate	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Fluoranthene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Indeno[1,2,3-cd]pyrene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Isophorone	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2-Methylnaphthalene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Naphthalene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2-Nitroaniline	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
3-Nitroaniline	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
4-Nitroaniline	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Nitrobenzene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
N-Nitrosodiphenylamine	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
N-Nitrosodi-n-propylamine	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
N-Nitrosodimethylamine	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Phenanthrene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Pyrene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Pyridine	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
1,2,4-Trichlorobenzene	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Benzoic acid	<1.98		1.98		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
4-Chloro-3-methylphenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2-Chlorophenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Total Cresols	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2,4-Dichlorophenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2,4-Dimethylphenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2,4-Dinitrophenol	<1.98		1.98		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
4,6-Dinitro-2-methylphenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2-Methylphenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Methylphenol, 3 & 4	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2-Nitrophenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
4-Nitrophenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Pentachlorophenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
Phenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2,4,5-Trichlorophenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1
2,4,6-Trichlorophenol	<0.989		0.989		mg/Kg	☼	02/05/13 17:16	02/06/13 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*52*		*15 - 90*	*02/05/13 17:16*	*02/06/13 20:44*	*1*
Phenol-d6 (Surr)	*60*		*20 - 90*	*02/05/13 17:16*	*02/06/13 20:44*	*1*
Nitrobenzene-d5 (Surr)	*59*		*15 - 90*	*02/05/13 17:16*	*02/06/13 20:44*	*1*
2-Fluorobiphenyl (Surr)	*63*		*20 - 90*	*02/05/13 17:16*	*02/06/13 20:44*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*25 - 105*	*02/05/13 17:16*	*02/06/13 20:44*	*1*
Terphenyl-d14 (Surr)	*92*		*35 - 110*	*02/05/13 17:16*	*02/06/13 20:44*	*1*

Client Sample Results

Client: Seneca Companies
Project/Site: K & G # 4098 -Windsor Heights

TestAmerica Job ID: 310-1813-1
SDG: 6509806

Client Sample ID: SB-1 10'
Date Collected: 01/31/13 14:35
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-6
Matrix: Soil
Percent Solids: 77.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.50**		3.43		mg/Kg	☼	02/05/13 12:41	02/12/13 13:00	1
Barium	**57.5**		0.429		mg/Kg	☼	02/05/13 12:41	02/12/13 13:00	1
Cadmium	<0.859		0.859		mg/Kg	☼	02/05/13 12:41	02/12/13 13:00	1
Chromium	**5.99**		0.859		mg/Kg	☼	02/05/13 12:41	02/12/13 13:00	1
Lead	<4.29		4.29		mg/Kg	☼	02/05/13 12:41	02/12/13 13:00	1
Selenium	<6.44		6.44		mg/Kg	☼	02/05/13 12:41	02/12/13 13:00	1
Silver	<0.859		0.859		mg/Kg	☼	02/05/13 12:41	02/12/13 13:00	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0181		0.0181		mg/Kg	☼	02/14/13 18:12	02/15/13 13:39	1

Client Sample ID: SB-2 2'
Date Collected: 01/31/13 15:30
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-7
Matrix: Soil
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<144		144		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Benzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Bromobenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Bromochloromethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Bromodichloromethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Bromoform	<28.8		28.8		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Bromomethane	<57.6		57.6		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
2-Butanone (MEK)	<144		144		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
n-Butylbenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
sec-Butylbenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
tert-Butylbenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Carbon disulfide	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Carbon tetrachloride	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Chlorobenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Chlorodibromomethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Chloroethane	<57.6		57.6		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Chloroform	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Chloromethane	<57.6		57.6		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
2-Chlorotoluene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
4-Chlorotoluene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,2-Dibromo-3-Chloropropane	<144		144		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,2-Dibromoethane (EDB)	<144		144		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Dibromomethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,2-Dichlorobenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,3-Dichlorobenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,4-Dichlorobenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Dichlorodifluoromethane	<43.2		43.2		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,1-Dichloroethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,2-Dichloroethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,1-Dichloroethene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
cis-1,2-Dichloroethene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
trans-1,2-Dichloroethene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,2-Dichloropropane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,3-Dichloropropane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
2,2-Dichloropropane	<57.6		57.6		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,1-Dichloropropene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
cis-1,3-Dichloropropene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
trans-1,3-Dichloropropene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Ethylbenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Hexachlorobutadiene	<72.0		72.0		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Hexane	<72.0		72.0		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Isopropylbenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
p-Isopropyltoluene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Methylene Chloride	<144		144		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Methyl tert-butyl ether	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Naphthalene	<72.0		72.0		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
N-Propylbenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Styrene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,1,1,2-Tetrachloroethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1

Client Sample ID: SB-2 2'
Date Collected: 01/31/13 15:30
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-7
Matrix: Soil
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Tetrachloroethene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Toluene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,2,3-Trichlorobenzene	<72.0		72.0		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,2,4-Trichlorobenzene	<72.0		72.0		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,1,1-Trichloroethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,1,2-Trichloroethane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Trichloroethene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Trichlorofluoromethane	<57.6		57.6		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,2,3-Trichloropropane	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,2,4-Trimethylbenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
1,3,5-Trimethylbenzene	<14.4		14.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Vinyl chloride	<43.2		43.2		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1
Xylenes, Total	<43.2		43.2		ug/Kg	☼	02/06/13 08:26	02/06/13 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*	*02/06/13 08:26*	*02/06/13 16:20*	*1*
Dibromofluoromethane (Surr)	*80*		*75 - 125*	*02/06/13 08:26*	*02/06/13 16:20*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*02/06/13 08:26*	*02/06/13 16:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Benzo[a]anthracene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Benzo[a]pyrene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Benzidine	<39.2		39.2		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Benzo[b]fluoranthene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Benzo[g,h,i]perylene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Benzo[k]fluoranthene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Acenaphthene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Acenaphthylene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Benzyl alcohol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Butyl benzyl phthalate	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Bis(2-chloroethyl)ether	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Bis(2-chloroethoxy)methane	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Bis(2-ethylhexyl) phthalate	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
bis (2-chloroisopropyl) ether	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
4-Bromophenyl phenyl ether	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Carbazole	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
4-Chloroaniline	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2-Chloronaphthalene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
4-Chlorophenyl phenyl ether	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Chrysene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Dibenz(a,h)anthracene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Dibenzofuran	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Di-n-butyl phthalate	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
1,2-Dichlorobenzene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
1,3-Dichlorobenzene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
1,4-Dichlorobenzene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
3,3'-Dichlorobenzidine	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10

Client Sample ID: SB-2 2'
Date Collected: 01/31/13 15:30
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-7
Matrix: Soil
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Dimethyl phthalate	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2,4-Dinitrotoluene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2,6-Dinitrotoluene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Fluorene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Hexachlorobenzene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Hexachlorobutadiene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Hexachlorocyclopentadiene	<7.85		7.85		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Hexachloroethane	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Di-n-octyl phthalate	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Fluoranthene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Indeno[1,2,3-cd]pyrene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Isophorone	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2-Methylnaphthalene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Naphthalene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2-Nitroaniline	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
3-Nitroaniline	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
4-Nitroaniline	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Nitrobenzene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
N-Nitrosodiphenylamine	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
N-Nitrosodi-n-propylamine	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
N-Nitrosodimethylamine	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Phenanthrene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Pyrene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Pyridine	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
1,2,4-Trichlorobenzene	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Benzoic acid	<7.85		7.85		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
4-Chloro-3-methylphenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2-Chlorophenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Total Cresols	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2,4-Dichlorophenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2,4-Dimethylphenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2,4-Dinitrophenol	<7.85		7.85		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
4,6-Dinitro-2-methylphenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2-Methylphenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Methylphenol, 3 & 4	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2-Nitrophenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
4-Nitrophenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Pentachlorophenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
Phenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2,4,5-Trichlorophenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10
2,4,6-Trichlorophenol	<3.92		3.92		mg/Kg	☼	02/05/13 17:16	02/06/13 23:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*55*		*15 - 90*	*02/05/13 17:16*	*02/06/13 23:19*	*10*
Phenol-d6 (Surr)	*65*		*20 - 90*	*02/05/13 17:16*	*02/06/13 23:19*	*10*
Nitrobenzene-d5 (Surr)	*68*		*15 - 90*	*02/05/13 17:16*	*02/06/13 23:19*	*10*
2-Fluorobiphenyl (Surr)	*68*		*20 - 90*	*02/05/13 17:16*	*02/06/13 23:19*	*10*
2,4,6-Tribromophenol (Surr)	*59*		*25 - 105*	*02/05/13 17:16*	*02/06/13 23:19*	*10*
Terphenyl-d14 (Surr)	*79*		*35 - 110*	*02/05/13 17:16*	*02/06/13 23:19*	*10*

Client: Seneca Companies
Project/Site: K & G # 4098 -Windsor Heights

TestAmerica Job ID: 310-1813-1
SDG: 6509806

Client Sample ID: SB-2 2'
Date Collected: 01/31/13 15:30
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-7
Matrix: Soil
Percent Solids: 83.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.71**		3.69		mg/Kg	☼	02/05/13 12:41	02/12/13 13:30	1
Barium	**92.7**		0.462		mg/Kg	☼	02/05/13 12:41	02/12/13 13:30	1
Cadmium	<0.924		0.924		mg/Kg	☼	02/05/13 12:41	02/12/13 13:30	1
Chromium	**10.8**		0.924		mg/Kg	☼	02/05/13 12:41	02/12/13 13:30	1
Lead	**25.4**		4.62		mg/Kg	☼	02/05/13 12:41	02/12/13 13:30	1
Selenium	<6.93		6.93		mg/Kg	☼	02/05/13 12:41	02/12/13 13:30	1
Silver	<0.924		0.924		mg/Kg	☼	02/05/13 12:41	02/12/13 13:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0181		0.0181		mg/Kg	☼	02/14/13 18:12	02/15/13 13:43	1

Client: Seneca Companies
Project/Site: K & G # 4098 -Windsor Heights

TestAmerica Job ID: 310-1813-1
SDG: 6509806

Client Sample ID: SB-3 13'
Date Collected: 01/31/13 16:20
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-8
Matrix: Soil
Percent Solids: 75.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<157		157		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Benzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Bromobenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Bromochloromethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Bromodichloromethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Bromoform	<31.4		31.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Bromomethane	<62.7		62.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
2-Butanone (MEK)	<157		157		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
n-Butylbenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
sec-Butylbenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
tert-Butylbenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Carbon disulfide	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Carbon tetrachloride	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Chlorobenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Chlorodibromomethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Chloroethane	<62.7		62.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Chloroform	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Chloromethane	<62.7		62.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
2-Chlorotoluene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
4-Chlorotoluene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,2-Dibromo-3-Chloropropane	<157		157		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,2-Dibromoethane (EDB)	<157		157		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Dibromomethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,2-Dichlorobenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,3-Dichlorobenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,4-Dichlorobenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Dichlorodifluoromethane	<47.0		47.0		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,1-Dichloroethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,2-Dichloroethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,1-Dichloroethene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
cis-1,2-Dichloroethene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
trans-1,2-Dichloroethene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,2-Dichloropropane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,3-Dichloropropane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
2,2-Dichloropropane	<62.7		62.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,1-Dichloropropene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
cis-1,3-Dichloropropene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
trans-1,3-Dichloropropene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Ethylbenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Hexachlorobutadiene	<78.4		78.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Hexane	<78.4		78.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Isopropylbenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
p-Isopropyltoluene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Methylene Chloride	<157		157		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Methyl tert-butyl ether	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Naphthalene	<78.4		78.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
N-Propylbenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Styrene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,1,1,2-Tetrachloroethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1

Client Sample ID: SB-3 13'
Date Collected: 01/31/13 16:20
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-8
Matrix: Soil
Percent Solids: 75.8

6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Tetrachloroethene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Toluene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,2,3-Trichlorobenzene	<78.4		78.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,2,4-Trichlorobenzene	<78.4		78.4		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,1,1-Trichloroethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,1,2-Trichloroethane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Trichloroethene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Trichlorofluoromethane	<62.7		62.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,2,3-Trichloropropane	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,2,4-Trimethylbenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
1,3,5-Trimethylbenzene	<15.7		15.7		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Vinyl chloride	<47.0		47.0		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1
Xylenes, Total	<47.0		47.0		ug/Kg	☼	02/06/13 08:26	02/06/13 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*02/06/13 08:26*	*02/06/13 16:44*	*1*
Dibromofluoromethane (Surr)	*79*		*75 - 125*	*02/06/13 08:26*	*02/06/13 16:44*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*02/06/13 08:26*	*02/06/13 16:44*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Benzo[a]anthracene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Benzo[a]pyrene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Benzidine	<10.5		10.5		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Benzo[b]fluoranthene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Benzo[g,h,i]perylene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Benzo[k]fluoranthene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Acenaphthene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Acenaphthylene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Benzyl alcohol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Butyl benzyl phthalate	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Bis(2-chloroethyl)ether	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Bis(2-chloroethoxy)methane	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Bis(2-ethylhexyl) phthalate	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
bis (2-chloroisopropyl) ether	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
4-Bromophenyl phenyl ether	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Carbazole	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
4-Chloroaniline	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2-Chloronaphthalene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
4-Chlorophenyl phenyl ether	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Chrysene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Dibenz(a,h)anthracene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Dibenzofuran	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Di-n-butyl phthalate	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
1,2-Dichlorobenzene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
1,3-Dichlorobenzene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
1,4-Dichlorobenzene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
3,3'-Dichlorobenzidine	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1

Client Sample ID: SB-3 13'
Date Collected: 01/31/13 16:20
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-8
Matrix: Soil
Percent Solids: 75.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Dimethyl phthalate	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2,4-Dinitrotoluene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2,6-Dinitrotoluene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Fluorene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Hexachlorobenzene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Hexachlorobutadiene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Hexachlorocyclopentadiene	<2.11		2.11		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Hexachloroethane	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Di-n-octyl phthalate	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Fluoranthene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Indeno[1,2,3-cd]pyrene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Isophorone	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2-Methylnaphthalene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Naphthalene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2-Nitroaniline	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
3-Nitroaniline	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
4-Nitroaniline	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Nitrobenzene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
N-Nitrosodiphenylamine	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
N-Nitrosodi-n-propylamine	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
N-Nitrosodimethylamine	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Phenanthrene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Pyrene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Pyridine	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
1,2,4-Trichlorobenzene	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Benzoic acid	<2.11		2.11		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
4-Chloro-3-methylphenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2-Chlorophenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Total Cresols	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2,4-Dichlorophenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2,4-Dimethylphenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2,4-Dinitrophenol	<2.11		2.11		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
4,6-Dinitro-2-methylphenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2-Methylphenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Methylphenol, 3 & 4	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2-Nitrophenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
4-Nitrophenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Pentachlorophenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
Phenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2,4,5-Trichlorophenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1
2,4,6-Trichlorophenol	<1.05		1.05		mg/Kg	☼	02/05/13 17:16	02/06/13 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*62*		*15 - 90*	*02/05/13 17:16*	*02/06/13 21:15*	*1*
Phenol-d6 (Surr)	*69*		*20 - 90*	*02/05/13 17:16*	*02/06/13 21:15*	*1*
Nitrobenzene-d5 (Surr)	*67*		*15 - 90*	*02/05/13 17:16*	*02/06/13 21:15*	*1*
2-Fluorobiphenyl (Surr)	*66*		*20 - 90*	*02/05/13 17:16*	*02/06/13 21:15*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*25 - 105*	*02/05/13 17:16*	*02/06/13 21:15*	*1*
Terphenyl-d14 (Surr)	*76*		*35 - 110*	*02/05/13 17:16*	*02/06/13 21:15*	*1*

Client: Seneca Companies
Project/Site: K & G # 4098 -Windsor Heights

TestAmerica Job ID: 310-1813-1
SDG: 6509806

Client Sample ID: SB-3 13'
Date Collected: 01/31/13 16:20
Date Received: 02/01/13 18:00

Lab Sample ID: 310-1813-8
Matrix: Soil
Percent Solids: 75.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<3.79		3.79		mg/Kg	☼	02/05/13 12:41	02/12/13 13:32	1
Barium	**69.6**		0.473		mg/Kg	☼	02/05/13 12:41	02/12/13 13:32	1
Cadmium	<0.947		0.947		mg/Kg	☼	02/05/13 12:41	02/12/13 13:32	1
Chromium	**8.94**		0.947		mg/Kg	☼	02/05/13 12:41	02/12/13 13:32	1
Lead	**6.04**		4.73		mg/Kg	☼	02/05/13 12:41	02/12/13 13:32	1
Selenium	<7.10		7.10		mg/Kg	☼	02/05/13 12:41	02/12/13 13:32	1
Silver	<0.947		0.947		mg/Kg	☼	02/05/13 12:41	02/12/13 13:32	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0199**		0.0197		mg/Kg	☼	02/14/13 18:12	02/15/13 13:48	1

APPENDIX E

IOWA DEPARTMENT OF NATURAL RESOURCES ONLINE WELL SEARCH

Well Search Print | Help |

Well Search Report

Included in search	No. of wells	Database
X	0	IGS well database General well database maintained by IGS, location accuracy varies 3,730 to 25 ft., last updated 8/2005.
X	0	Public wells Muncipal and nonmunicipal public well databases maintained by IGS, location varies 3,730 to 25 ft., under development.
X	0	SDWIS public wells Public well database developed from the Safe Drinking Water Information System database maintained by IDNR, estimated locational accuracy varies from 15m. to 3300m. Created from 5/2005 data.
X	0	Private well tracking system IDNR database management system for Grants-to-counties-covered wells. Locational accuracy unknown, assumed to be +/- 17 m., Last update 7/2005.
X	0	Wells registered for testing Wells tested under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	0	Permitted private wells Wells permitted under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	10	Registered abandoned wells Wells abandoned under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	0	Water use facilities Wells used by facilities permitted to withdraw >25,000 gallons per day, locational accuracy is +/-20m to 1150 m. Created from 7/2005 data.
X	0	Municipal wells and intakes Locational accuracy 220 m., last updated 8/96.
X	0	Ag drainage wells Locational accuracy 100 m., last updated 4/98.

Well Search Detail

Subject: XY UTM Coordinates: 440236/4605685
Search Radius (feet): 1000

IGS Well Database

Map ID	Well No.	Location Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source							

Public Wells

Map ID	Well No.	Location Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source							

SDWIS public wells

Map ID	Well No.	Location Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source							

Private Well Tracking System

Map ID	Well No.	Location Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source							

Wells Registered For Testing

Map ID	Well No.	Location Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source							

Permitted Private Wells

Map ID	Well No.	Location Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source							

Abandoned Wells (plugged)

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
151128	36043	T. 79 N., R. 25 W., Sec. 35, SE, SE, SE	Calc. +/- 140m.	117 (m)	19	n.a.	City Of Windsor Heights	Well plugged: 3/16/1999; Well type: < 18" dia.

151129	37458	T. 79 N., R. 25 W., Sec. 35, SE, SE, SE	Calc. +/- 140m.	118 (m)	20	n.a.	City Of Windsor Heights	Well plugged: 3/16/1999; Well type: < 18" dia.
151131	36044	T. 79 N., R. 25 W., Sec. 35, SE, SE, SE	Calc. +/- 140m.	119 (m)	23	n.a.	City Of Windsor Heights	Well plugged: 3/16/1999; Well type: < 18" dia.
151132	37459	T. 79 N., R. 25 W., Sec. 35, SE, SE, SE	Calc. +/- 140m.	109 (m)	15	n.a.	City Of Windsor Heights	Well plugged: 3/16/1999; Well type: < 18" dia.
151135	36045	T. 79 N., R. 25 W., Sec. 35, SE, SE, SE	Calc. +/- 140m.	107 (m)	18	n.a.	City Of Windsor Heights	Well plugged: 3/16/1999; Well type: < 18" dia.
151140	37457	T. 79 N., R. 25 W., Sec. 35, SE, SE, SE	Calc. +/- 140m.	100 (m)	20	n.a.	City Of Windsor Heights	Well plugged: 3/16/1999; Well type: < 18" dia.
151157	36046	T. 79 N., R. 25 W., Sec. 35, SE, SE, SE	Calc. +/- 140m.	112 (m)	20	n.a.	City Of Windsor Heights	Well plugged: 3/16/1999; Well type: < 18" dia.
151160	28995	T. 79 N., R. 25 W., Sec. 35, SE, SE, SE	Calc. +/- 140m.	109 (m)	15	n.a.	Windsor Heights, City Of	Well plugged: 5/6/1997; Well type: < 18" dia.
151251	28997	T. 79 N., R. 25 W., Sec. 36, SW, SW, SW	Calc. +/- 140m.	125 (m)	15	n.a.	Windsor Heights, City Of	Well plugged: 5/6/1997; Well type: < 18" dia.
151143	28996	T. 79 N., R. 25 W., Sec. 35, SE, SE, SE	Calc. +/- 140m.	102 (m)	14	n.a.	Windsor Heights, City Of	Well plugged: 5/6/1997; Well type: < 18" dia.

Water Use Facilities

Map ID	Well No.	Location Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source							

Municipal Wells And Intakes

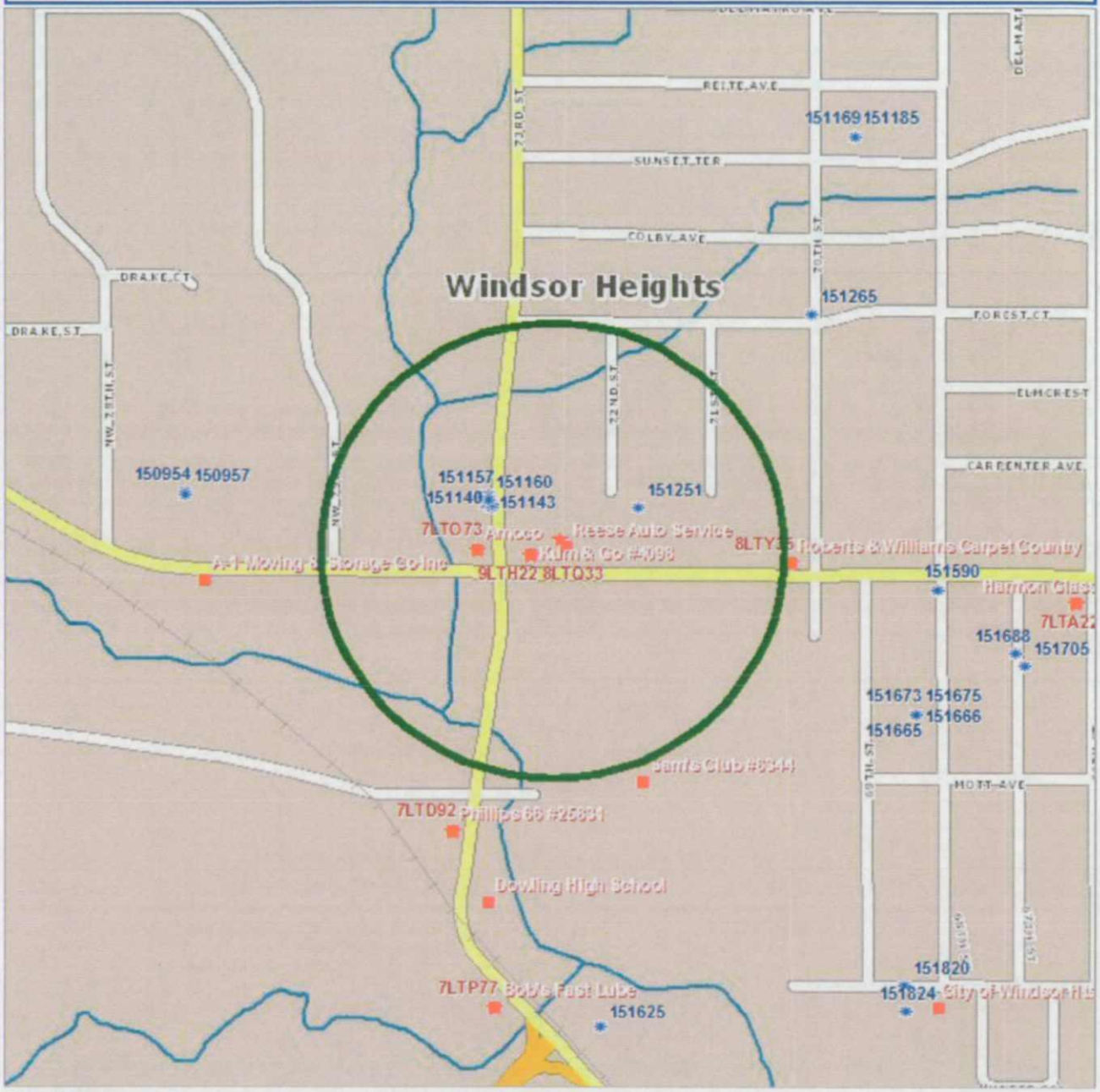
Map ID	Well No.	Location Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source							

Ag Drainage Wells

Map ID	Well No.	Location Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source							

Well Search Buffered Map

Subject: XY UTM Coordinates: 440236/4605685
Search Radius (feet): 1000



Map Notes:

- ■ UST
- ★ LUST
- ✳ Wells
- Please refer to the Accuracy column in Well Search Detail.
- Since multiple points can be at the same spot (as those located to the center of a quarter section), points were randomly dispersed within 10 meters around that spot so all points can be seen.