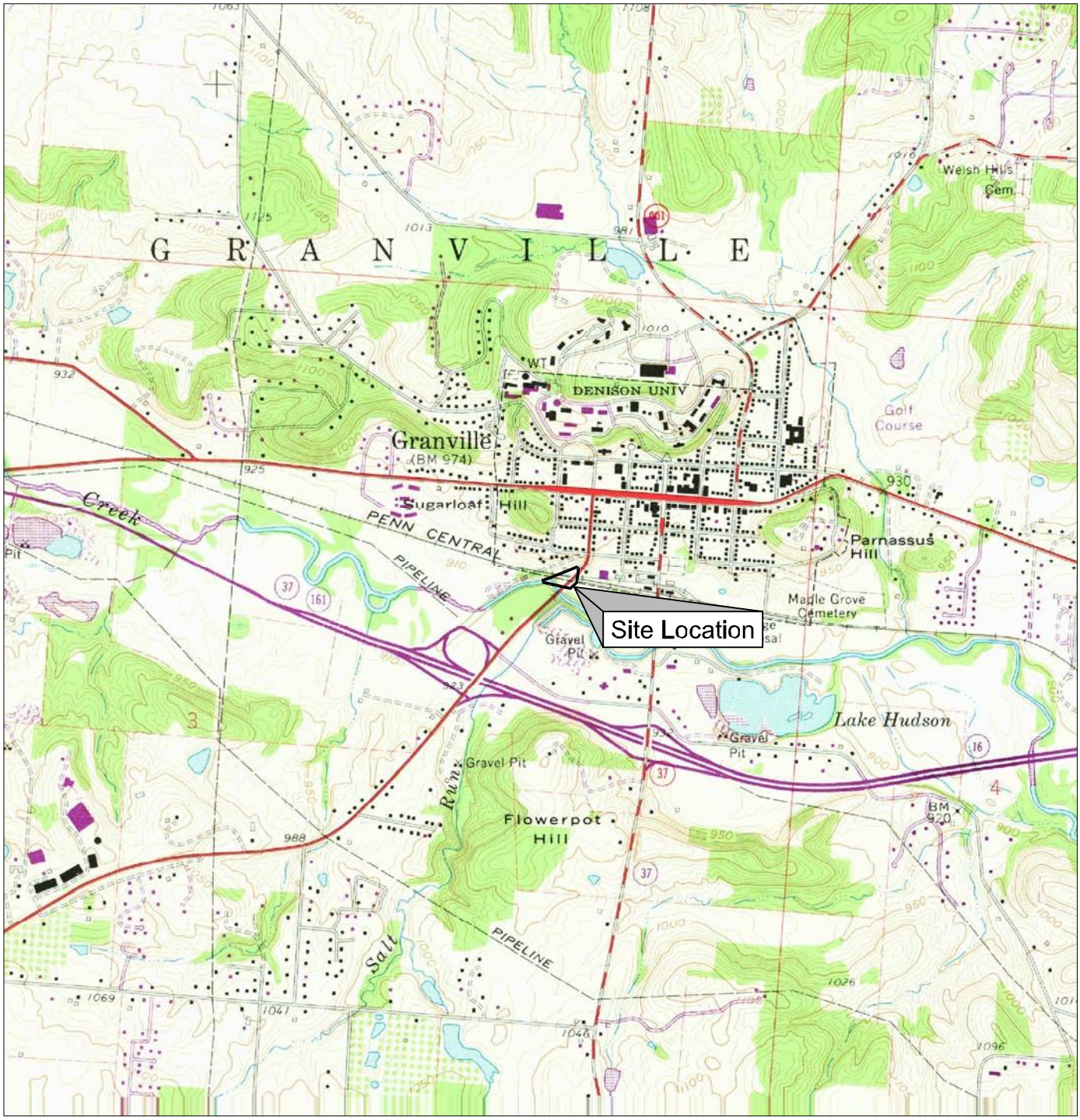
Figures

DRAFT



Quadrangle Location

Base Taken From USGS Granville, Ohio
7.5'-Series Topographic Quadrangle.
Date 1961. Photorevised 1974.
Scale 1:24.000.

N

0 2000' 4000'

1" = 2000'

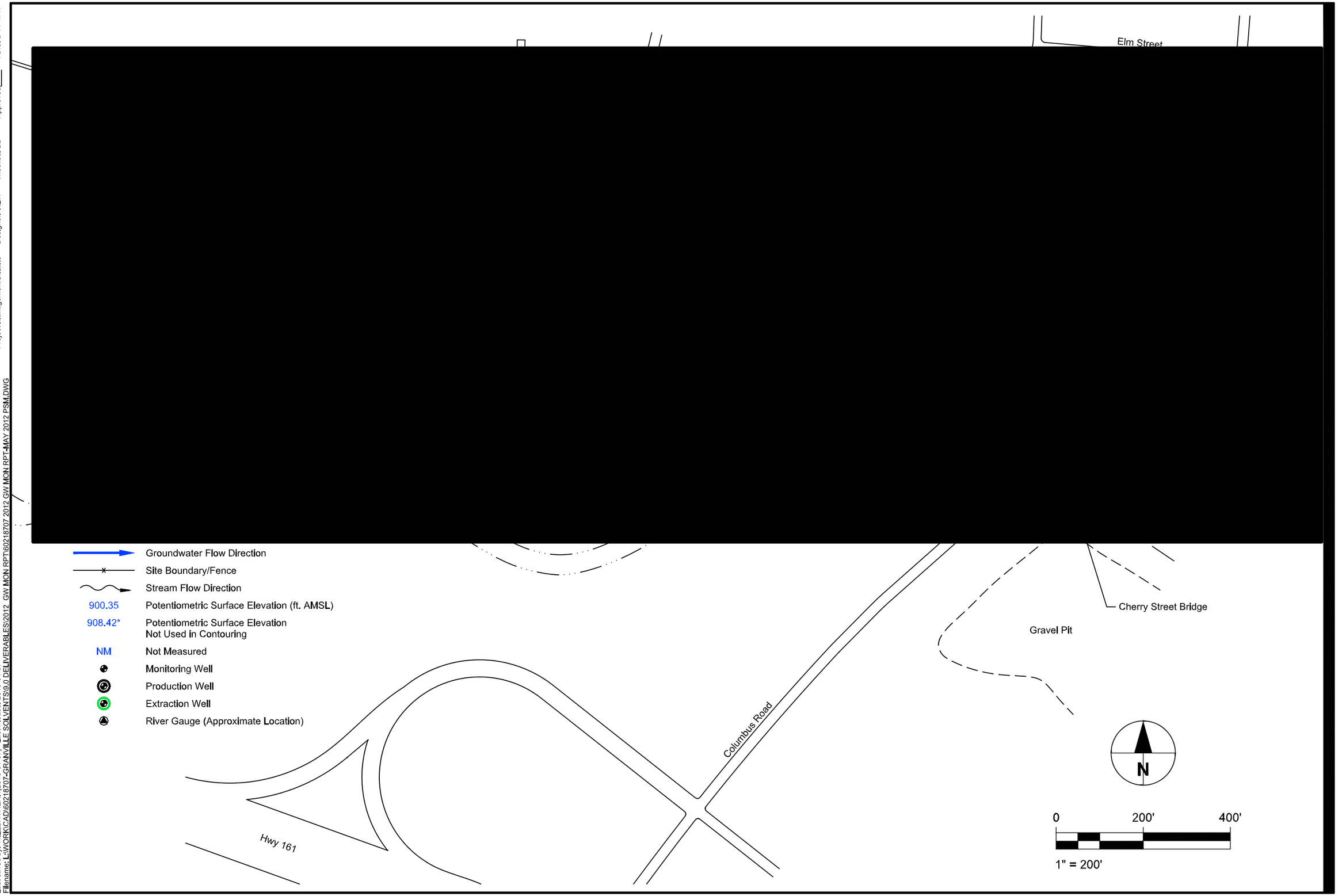
2012 ANNUAL GROUNDWATER MONITORING REPORT
GRANVILLE SOLVENTS SITE
GRANVILLE, OHIO
Project No.: 60218707 Date: 2012-12-19

SITE LOCATIAON MAP

AECOM

Figure: 1

Last saved by: WILZBACHERN(2012-12-19) Last Plotted: 2012-12-19
Filename: L:\WORK\CAD\60218707-GRANVILLE SOLVENTS\9.0 DELIVERABLES\2012 GW MON RPT\60218707 2012 GW MON RPT-SITE LOCATION.DWG
Project Management Initials: Designer: NLW Checked: RFR Approved: RFR ANSI A 8.5" x 11"



AECOM

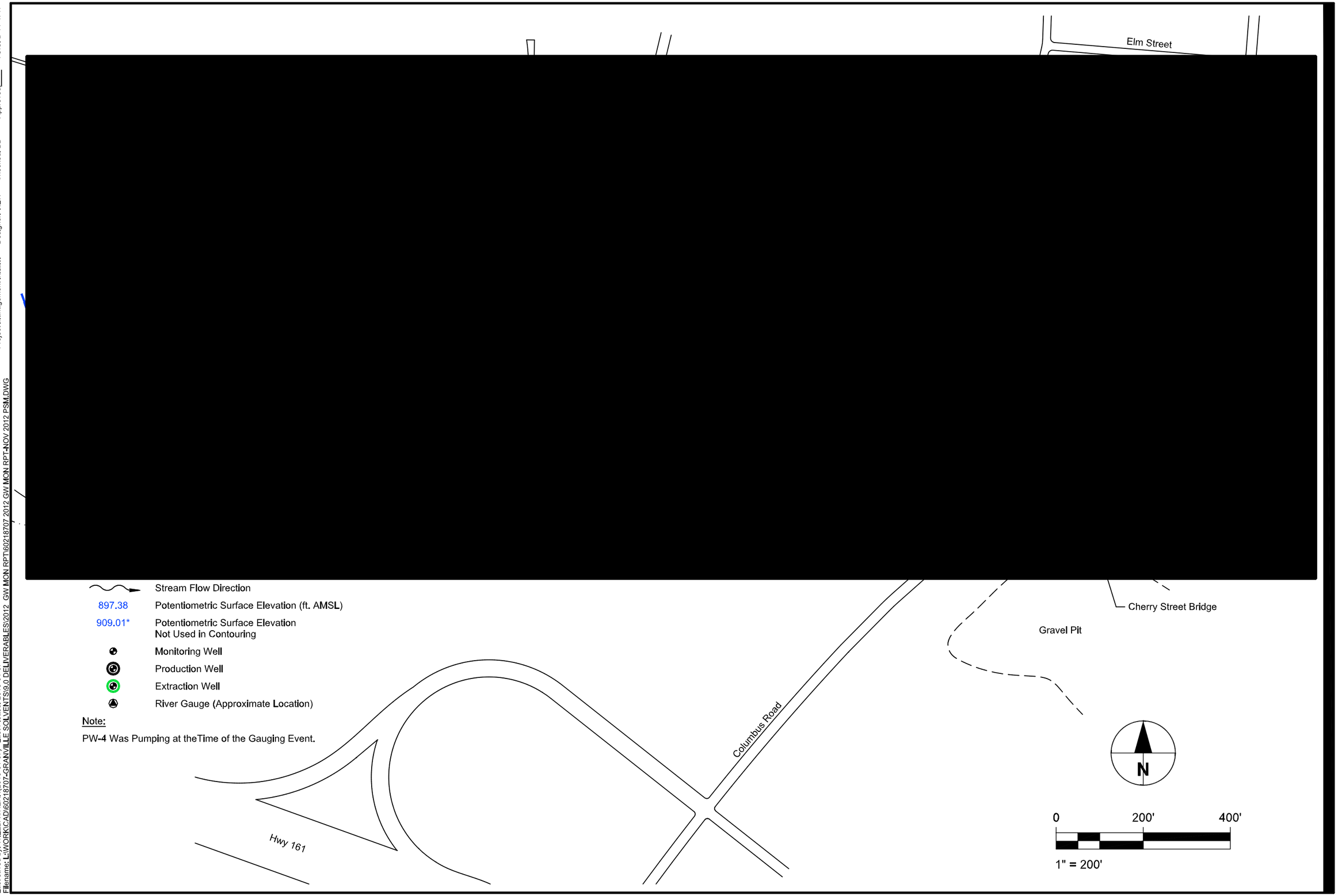
Figure: 2

POTENTIOMETRIC SURFACE MAP
MAY 5, 2012

2012 ANNUAL GROUNDWATER MONITORING REPORT
GRANVILLE SOLVENTS SITE
GRANVILLE, OHIO
Project No.: 60218707 Date: 2013-01-07

Last saved by: WILZBACHERN(2013-01-07) Last Plotted: 2013-01-07
Filename: L:\WORK\CAD\60218707-GRANVILLE SOLVENTS\9.0 DELIVERABLES\2012 GW MON RPT\60218707 2012 GW MON RPT-MAY 2012 PSM.DWG

Project Management Initials: Designer: NLW Checked: BB Approved:____ ANSI B 11" x 17"



AECOM

Figure: 3

POTENTIOMETRIC SURFACE MAP
NOVEMBER 12, 2012

2012 ANNUAL GROUNDWATER MONITORING REPORT
GRANVILLE SOLVENTS SITE
GRANVILLE, OHIO
Project No.: 60218707 Date: 2013-01-07

Last saved by: WILZBACHERN(2013-01-07) Last Plotted: 2013-01-07
Filename: L:\WORK\CAD\60218707-GRANVILLE SOLVENTS\9.0 DELIVERABLES\2012 GW MON RPT\60218707 2012 GW MON RPT-NOV 2012 PSM.DWG

Project Management Initials: Designer: NLW Checked: BB Approved:____ ANSI B 11" x 17"

Tables

DRAFT

Table 1. Water Level Measurements
Granville Solvents Site
Granville, Ohio

Well	Date	Measuring Point Elevation (ft. AMSL) [1]	Depth to Water (ft.)	Potentiometric Surface Elevation (ft. AMSL)
[redacted]	13-May-11	915.38	13.80	901.58
	2-Nov-11		16.40	898.98
	5-May-12		15.55	899.83
	12-Nov-12		18.27	897.11
	13-May-11	915.56	13.40	902.16
	2-Nov-11		16.35	899.21
	5-May-12		15.11	900.45
	12-Nov-12		18.18	897.38
	13-May-11	910.75	8.80	901.95
	2-Nov-11		11.67	899.08
	5-May-12		10.45	900.30
	12-Nov-12		13.44	897.31
	13-May-11	924.68	22.89	901.79
	2-Nov-11		25.55	899.13
	5-May-12		24.43	900.25
	12-Nov-12		27.36	897.32
	13-May-11	959.16	57.36	901.80
	2-Nov-11		60.07	899.09
	5-May-12		58.96	900.20
	12-Nov-12		61.95	897.21
	13-May-11	960.80	56.07	904.73
	Decomissioned			
	13-May-11	917.01	14.75	902.26
	2-Nov-11		17.94	899.07
	5-May-12		16.56	900.45
	12-Nov-12		19.73	897.28
	13-May-11	916.17	14.05	902.12
	2-Nov-11		17.20	898.97
	5-May-12		15.88	900.29
	12-Nov-12		19.13	897.04
	13-May-11	916.65	14.29	902.36
	2-Nov-11		17.65	899.00
	5-May-12		16.16	900.49
	12-Nov-12		19.35	897.30
	13-May-11	923.36	21.52	901.84
	2-Nov-11		24.16	899.20
	5-May-12		23.06	900.30
	12-Nov-12		26.04	897.32

Table 1. Water Level Measurements
Granville Solvents Site
Granville, Ohio

Well	Date	Measuring Point Elevation (ft. AMSL) [1]	Depth to Water (ft.)	Potentiometric Surface Elevation (ft. AMSL)
[redacted]	13-May-11	920.40	18.59	901.81
	2-Nov-11		21.18	899.22
	5-May-12		20.10	900.30
	12-Nov-12		23.02	897.38
	13-May-11	906.82	4.45	902.37
	2-Nov-11		7.75	899.07
	5-May-12		6.48	900.34
	12-Nov-12		9.76	897.06
	13-May-11	919.94	18.07	901.87
	2-Nov-11		20.75	899.19
	5-May-12		19.64	900.30
	12-Nov-12		22.61	897.33
	13-May-11	913.58	11.51	902.07
	2-Nov-11		14.45	899.13
	5-May-12		13.22	900.36
	12-Nov-12		16.26	897.32
	13-May-11	905.71	3.42	902.29
	2-Nov-11		6.84	898.87
	5-May-12		5.22	900.49
	12-Nov-12		8.55	897.16
	13-May-11	930.21	28.57	901.64
	2-Nov-11		31.17	899.04
	5-May-12		30.10	900.11
	12-Nov-12		33.04	897.17
	13-May-11	923.68	22.05	901.63
	2-Nov-11		24.68	899.00
	5-May-12		23.63	900.05
	12-Nov-12		26.56	897.12
	13-May-11	924.20	22.52	901.68
	2-Nov-11		25.13	899.07
	5-May-12		24.05	900.15
	12-Nov-12		26.99	897.21
	13-May-11	917.27	6.15	911.12
	2-Nov-11		5.40	911.87
	5-May-12		8.85	908.42
	12-Nov-12		8.26	909.01
	13-May-11	920.75	18.96	901.79
	2-Nov-11		21.54	899.21
	5-May-12		20.48	900.27
	12-Nov-12		23.40	897.35

Table 1. Water Level Measurements
Granville Solvents Site
Granville, Ohio

Well	Date	Measuring Point Elevation (ft. AMSL) [1]	Depth to Water (ft.)	Potentiometric Surface Elevation (ft. AMSL)
[redacted]	13-May-11	921.14	19.35	901.79
	2-Nov-11		21.92	899.22
	5-May-12		20.87	900.27
	12-Nov-12		23.87	897.27
	13-May-11	921.79	19.72	902.07
	2-Nov-11		22.28	899.51
	5-May-12		21.24	900.55
	12-Nov-12		24.16	897.63
	13-May-11	936.06	34.23	901.83
	2-Nov-11		36.86	899.20
	5-May-12		35.79	900.27
	12-Nov-12		38.73	897.33
	13-May-11	936.43	34.37	902.06
	2-Nov-11		37.03	899.40
	5-May-12		35.97	900.46
	12-Nov-12		38.91	897.52
	13-May-11	917.90	16.22	901.68
	2-Nov-11		18.78	899.12
	5-May-12		17.74	900.16
	12-Nov-12		20.60	897.30
	13-May-11	917.96	16.15	901.81
	2-Nov-11		18.89	899.07
	5-May-12		17.73	900.23
	12-Nov-12		20.73	897.23
	13-May-11	928.12	26.03	902.09
	2-Nov-11		29.05	899.07
	5-May-12		27.89	900.23
	12-Nov-12		30.91	897.21
	13-May-11	927.84	26.01	901.83
	2-Nov-11		28.83	899.01
	5-May-12		27.85	899.99
	12-Nov-12		30.69	897.15
	13-May-11	924.00	22.15	901.85
	2-Nov-11		24.71	899.29
	5-May-12		23.65	900.35
	12-Nov-12		26.60	897.40
	13-May-11	909.06	6.77	902.29
	28-Oct-11		8.33	900.73
	5-May-12		8.49	900.57
	12-Nov-12		11.75	897.31

Table 1. Water Level Measurements
Granville Solvents Site
Granville, Ohio

Well	Date	Measuring Point Elevation (ft. AMSL) [1]	Depth to Water (ft.)	Potentiometric Surface Elevation (ft. AMSL)
[redacted]	13-May-11	908.95	7.88	901.07
	28-Oct-11		9.17	899.78
	12-May-12		NC	NC
	12-Nov-12		13.50	895.45
	13-May-11	910.27	8.46	901.81
	28-Oct-11		10.17	900.10
	5-May-12		10.63	899.64
	12-Nov-12		14.54	895.73
	13-May-11	910.59	34.81	875.78
	28-Oct-11		10.50	900.09
	5-May-12		44.89	865.70
	12-Nov-12		16.49	894.10
	13-May-11	904.73	5.18	899.55
	3-Nov-11		4.30	900.43
	5-May-12		4.10	900.63
	12-Nov-12	River Gauge Destroyed[2]		899.09

ft - feet
amsl - above mean sea level
* Well equipped with a dedicated sampling pump.
[1] Based on Top of Casing survey conducted May 2011.
[2] 11/12/12: River Gauge Missing/Destroyed. Elevation derived from survey with laser level tied into MW-03.
NC - PW-02 guide pipe for gauging to narrow for Solinst 122 WL probe.

Comparison of Water Elevations between May 2012 and November 2012

Average May 2012 (ft.):	899.46
Average November 2012 (ft.):	897.49
Change in Average (ft):	-1.97

Table 2. Monitoring Well Purging Data
Granville Solvents Site
Granville, Ohio

Well	Date	Total Volume Purged (gal.)	Turbidity (NTU)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Specific Conductance (μS/cm)	Temp (ºC)
[redacted]	3-Nov-11	2.5	13.4	6.65	2.50	154	1,060	11.95
			13.0	6.67	2.42	153	1,060	11.90
			12.1	6.69	2.39	152	1,060	11.94
	30-May-12	1.95	21.3	6.67	NR	201	1,130	14.35
			20.9	6.67	NR	203	1,130	14.25
			20.4	6.69	NR	205	1,130	14.24
	14-Nov-12	1.75	9.00	6.99	1.58	198	3,739	11.53
			8.63	6.98	1.53	196	3,729	11.72
			6.28	6.99	1.47	194	3,724	11.73
	2-Nov-11	1.4	40.8	6.83	9.32	-11	987	18.46
			38.3	6.84	9.04	-12	983	18.77
			39.8	6.83	8.99	-11	983	18.85
	30-May-12	1.75	4.7	6.36	NR	210	897	18.53
			5.6	6.35	NR	210	894	18.93
			5.3	6.35	NR	211	889	19.16
	14-Nov-12	1.50	11.32	6.87	2.01	202	3,710	11.85
			10.64	6.86	1.97	200	3,721	11.87
			11.04	6.86	1.94	199	3,726	11.84
	3-Nov-11	5.0	0.0	6.85	3.46	75	1,120	18.12
			0.0	6.86	3.31	74	1,120	18.09
			0.0	6.85	3.22	72	1,120	18.36
	1-Jun-12	1.70	0.3	5.22	NR	280	1,310	14.02
			0.1	5.24	NR	278	1,300	13.97
			0.0	5.27	NR	276	1,300	13.89
	14-Nov-12	1.60	3.71	6.91	1.31	223	4,344	11.33
			4.30	6.90	1.25	221	4,352	11.45
			4.55	6.90	1.20	220	4,357	11.35
	3-Nov-11	3.25	23.6	6.81	0.39	18	1,180	19.25
			23.1	6.80	0.35	20	1,180	19.41
			22.8	6.81	0.32	21	1,180	19.61
	1-Jun-12	2.00	5.2	5.57	NR	216	1,250	14.73
			4.1	5.59	NR	210	1,250	14.70
			3.2	5.61	NR	207	1,250	14.67
	13-Nov-12	1.15	1.40	6.77	0.13	84	2,041	13.92
			1.00	6.77	0.12	84	2,077	13.92
			0.97	6.77	0.10	84	2,103	13.95
	3-Nov-11	2.25	2.3	6.94	4.48	101	807	14.69
			0.6	6.95	4.38	101	807	14.67
			0.7	6.95	4.32	102	804	14.60
	31-May-12	2.30	0.0	6.50	NR	248	696	12.86
			0.0	6.54	NR	243	698	12.83
			0.0	6.58	NR	240	698	12.89
	13-Nov-12	1.30	3.50	6.92	1.24	77	3,433	10.39
			3.50	6.92	1.24	77	3,433	10.39
			3.50	6.93	1.27	83	3,434	10.26
	2-Nov-11	3.75	12.5	7.26	5.77	95	1,220	13.23
			9.7	7.26	5.86	96	1,220	13.19
			9.3	7.26	5.85	98	1,220	13.18
	30-May-12	1.50	4.0	6.70	NR	146	1,420	15.25
			5.1	6.70	NR	144	1,420	15.12
			4.9	6.71	NR	143	1,420	15.08
	13-Nov-12	1.65	0.00	7.11	4.72	136	1,217	12.53
			0.00	7.12	4.70	136	1,242	12.50

Table 2. Monitoring Well Purging Data
Granville Solvents Site
Granville, Ohio

Well	Date	Total Volume Purged (gal.)	Turbidity (NTU)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Specific Conductance (μS/cm)	Temp (ºC)
			0.00	7.12	4.66	136	1,257	12.65
	3-Nov-11		2.8	6.78	0.33	77	930	17.28
		3.0	3.2	6.79	0.27	73	929	17.51
			3.2	6.79	0.24	69	927	17.58
	31-May-12		9.4	6.50	NR	104	968	13.99
		2.00	7.4	6.54	NR	100	965	13.88
			5.3	6.58	NR	96	964	13.86
	13-Nov-12		22.19	6.92	0.33	87	1,844	11.57
		1.75	20.16	6.92	0.27	82	1,856	11.46
			20.11	6.92	0.21	79	1,865	11.49
	3-Nov-11	NC	NC	NC	NC	NC	NC	NC
	31-May-12		18.2	6.80	NR	-57	792	16.00
		2.4	18.0	6.83	NR	-61	796	15.90
			17.7	6.87	NR	-65	791	15.94
	31-May-12		9.30	6.93	0.06	-75	1,350	13.80
		2.3	8.10	6.93	0.05	-76	1,364	13.83
			6.00	6.93	0.04	-77	1,378	13.81
	3-Nov-11		2.1	6.90	1.88	37	1,110	17.92
		5.0	4.6	6.91	1.70	37	1,110	18.66
			5.1	6.91	1.62	37	1,110	18.74
	30-May-12		25.7	5.59	NR	207	978	14.61
		1.50	25.4	6.62	NR	205	979	14.47
			25.3	6.66	NR	203	978	14.50
	14-Nov-12		8.10	6.83	1.20	235	4,144	12.70
		2.50	8.46	6.84	1.23	233	4,157	12.65
			7.85	6.84	1.28	231	4,152	12.68
	3-Nov-11		3.2	7.06	0.30	-104	1,140	13.83
		2.0	3.2	7.08	0.24	-109	1,150	13.96
			3.4	7.09	0.24	-112	1,150	14.05

Notes:
Purge data represents the last three consecutive readings collected prior to sampling.
Troll 9500 water quality Instrument w/Optical DO used to collect water quality readings on Nov-12. Horiba U-52 used prior to.
NR - No Reading/Equipment Malfunction
NC - Not purged/sampled. Poor well seal. Surface water/sediment has infiltrated into well. Requires re-development.

Table 3. Summary of Groundwater Analytical Results
Granville Solvents Site
Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1,1-TCA (µg/L)
MCL		**5**	**5**	**70**	**100**	**200**
MW-02D	8-May-96	430.0	590.0	250.0	---	350.0
	5-May-97	390.0	450.0	140.0	---	250.0
	5-May-98	400.0	380.0	110.0	---	220.0
	10-May-99	190.0	220.0	40.0	---	120.0
	15-May-00	210.0	220.0	42.0	---	120.0
	23-May-01	230.0	170.0	38.0	---	93.0
	6-May-02	160.0	120.0	13.0	---	55.0
	6-May-03	130.0	90.0	9.8	---	40.0
	10-May-04	68.0	34.0	6.6	---	17.0
	10-Aug-05	110.0	59.0	17.0	---	36.0
	4-May-06	51.0	63.0	16.0	---	31.0
	20-Jul-06	69.0	60.0	15.0	---	29.0
	16-May-07	130.0	130.0	28.0	1.1	71.0
	25-Sep-07	150.0	120.0	28.0	1.5	71.0
	25-Apr-08	140.0	150.0	38.0	1.7	81.0
	5-Sep-08	180.0	190.0	48.0	2.1	120.0
	31-Mar-09	150.0	180.0	1.7	2.5	98.0
	15-Sep-09	150.0	220.0	43.0	2.6	110.0
	11-May-11	140.0	190.0	35.0	2.4	100.0
	3-Nov-11	130.0	200.0	30.0	1.5	110.0
	30-May-12	180.0	350.0	41.0	2.4	200.0
	14-Nov-12	190.0	320.0	32.0	---	190.0
MW-04D	8-May-96	110.0	280	150	---	110
	6-May-97	66.0	440	97	---	170
	5-May-98	130.0	680	77	---	220
	10-May-99	64.0	360	59	---	100
	15-May-00	92.0	600	33	---	170
	23-May-01	510.0	320	93	---	68
	27-Feb-02	36.0	150	49	---	45
	6-May-02	87.0	150	27	---	37
	5-Aug-02	63.0	150	33	---	40
	6-Nov-02	59.0	340	---	---	130
	26-Feb-03	40.0	120	48	---	35
	6-May-03	59.0	190	32	---	59
	27-Aug-03	45.0	120	47	1.5	42
	10-May-04	41.0	73	26	0.79	23
	10-Aug-05	72.0	130	3.7	---	43
	4-May-06	54.0	100	---	---	38
	19-Jul-06	83.0	150	---	---	59
	16-May-07	64.0	110	15	0.83	44
	25-Sep-07	120.0	270	9.4	0.48	130
	25-Apr-08	56.0	51	7.7	0.43	28
	5-Sep-08	64.0	65	13	0.71	28
	31-Mar-09	64.0	91	---	0.75	40
	15-Sep-09	90.0	180	16	0.90	64
	11-May-11	79.0	91	5.7	---	46
	2-Nov-11	59.0	86	6.1	---	46
	30-May-12	46.0	59	0.62	---	38
	14-Nov-12	68.0	160	---	---	100

Table 3. Summary of Groundwater Analytical Results
Granville Solvents Site
Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1,1-TCA (µg/L)
MCL		**5**	**5**	**70**	**100**	**200**
MW-06	8-May-96	---	78.0	---	---	380
	6-May-97	---	47.0	---	---	430
	4-May-98	---	36.0	---	---	370
	10-May-99	---	23.0	---	---	330
	15-May-00	---	26.0	---	---	320
	23-May-01	---	31.0	---	---	340
	6-May-02	---	19.0	---	---	230
	26-Feb-03	---	0.10	---	---	0
	5-May-03	---	20.0	---	---	200
	10-May-04	---	10.0	---	---	180
	10-Aug-05	---	7.8	---	---	130
	4-May-06	2.8	12.0	---	---	130
	20-Jul-06	0.10	10.0	---	---	170
	17-May-07	0.10	13.0	---	---	220
	25-Sep-07	0.62	17.0	---	---	220
	25-Apr-08	0.61	16.0	---	---	180
	5-Sep-09	0.62	16.0	---	---	180
	31-Mar-09	0.49	13.0	---	---	180
	5-Sep-09	0.83	19.0	---	---	170
	11-May-11	0.68	16.0	---	---	140
	3-Nov-11	0.81	14.0	---	---	130
	1-Jun-12	0.10	15.0	---	---	150
	14-Nov-12	<5.0*	19.0	---	---	220
MW-07D	8-May-96	---	---	---	---	---
	5-May-97	---	---	---	---	---
	4-May-98	---	---	---	---	---
	10-May-99	---	---	---	---	---
	15-May-00	---	---	---	---	---
	23-May-01	---	---	---	---	---
	6-May-02	---	---	---	---	---
	5-May-03	---	---	---	---	---
	10-May-04	---	---	---	---	---
	10-Aug-05	---	---	---	---	---
	4-May-06	---	---	---	---	---
	19-Jul-06	---	---	---	---	---
	17-May-07	---	---	---	---	---
	25-Sep-07	---	---	---	---	---
	25-Apr-08	---	---	---	---	---
	5-Sep-08	---	---	---	---	---
	31-Mar-09	---	---	---	---	---
	14-Sep-09	---	---	---	---	---
	10-May-11	---	---	---	---	---
	3-Nov-11	---	---	---	---	---
	1-Jun-12	---	---	---	---	---
	13-Nov-12	---	---	---	---	---

Table 3. Summary of Groundwater Analytical Results
Granville Solvents Site
Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1,1-TCA (µg/L)
MCL		**5**	**5**	**70**	**100**	**200**
MW-08	8-May-96	---	---	---	---	---
	10-Dec-96	---	---	49	5.0	---
	19-Feb-97	---	---	55	5.8	---
	5-May-97	---	---	1.0	1.0	---
	12-Aug-97	---	0.9	36	3.0	---
	12-Dec-97	---	---	56	6.0	---
	1-Feb-98	---	---	50	5.4	---
	4-May-98	---	---	44	4.0	---
	6-Aug-98	---	---	51	5.4	---
	19-Nov-98	---	---	65	1.0	---
	5-Feb-99	---	---	45	3.3	---
	10-May-99	---	---	29	2.4	---
	5-Aug-99	---	---	79	8.0	---
	4-Nov-99	---	---	1.0	1.0	---
	2-Feb-00	---	---	85	9.9	---
	15-May-00	---	---	99	10	---
	21-Aug-00	---	---	75	8.3	---
	7-Nov-00	---	---	76	8.2	---
	23-May-01	---	---	69	7.4	---
	28-Nov-01	---	---	68	7.8	---
	27-Feb-02	---	---	68	6.9	---
	6-May-02	---	---	45	3.8	---
	5-Aug-02	---	---	60	5.0	---
	5-Nov-02	---	---	67	6.8	---
	26-Feb-03	---	---	77	7.8	---
	5-May-03	---	---	69	7.0	---
	27-Aug-03	---	---	56	6.4	---
	11-Nov-03	---	---	74	7.2	---
	3-Feb-04	---	---	53	4.8	---
	10-May-04	---	---	46	4.3	---
	4-Aug-04	---	---	70	7.2	---
	1-Feb-05	---	---	24	2.1	---
	11-Aug-05	---	---	36	3.6	---
	4-May-06	---	---	45	4.7	---
	20-Jul-06	---	---	28	3.1	---
	16-May-07	---	---	26	2.3	---
	25-Sep-07	---	---	73	9.3	---
	25-Apr-08	---	---	24	2.6	---
	5-Sep-08	---	---	34	3.7	---
	31-Mar-09	---	---	40	5.1	---
	14-Sep-09	---	---	68	8.9	---
	10-May-11	---	---	36	5.1	---
	3-Nov-11	---	---	34	4.5	---
	31-May-12	---	---	17	2.0	---
	13-Nov-12	---	---	70	8.2	---

Table 3. Summary of Groundwater Analytical Results
Granville Solvents Site
Granville, Ohio

Sample Location	Sample Date	PCE (μg/L)	TCE (μg/L)	cis-1,2-DCE (μg/L)	trans-1,2-DCE (μg/L)	1,1,1-TCA (μg/L)
MCL		**5**	**5**	**70**	**100**	**200**
MW-P1	8-May-96	540	1400	---	---	720
	6-May-97	340	730	---	---	460
	5-May-98	370	550	---	---	380
	10-May-99	170	380	---	---	350
	15-May-00	160	420	---	---	300
	23-May-01	180	330	---	---	300
	27-Feb-02	94	150	---	---	150
	6-May-02	110	140	---	---	130
	5-Aug-02	100	120	---	---	130
	6-Nov-02	120	110	---	---	82
	26-Feb-03	100	88	---	---	86
	6-May-03	100	88	---	---	100
	27-Aug-03	110	56	---	---	60
	10-May-04	53	55	---	---	160
	10-Aug-05	60	41	---	---	60
	4-May-06	45	36	---	---	38
	19-Jul-06	43	32	---	---	35
	16-May-07	50	36	---	---	39
	25-Sep-07	88	42	---	---	55
	25-Apr-08	19	21	2.3	---	12
	5-Sep-08	42	32	1.3	---	27
	31-Mar-09	41	27	---	0.33	22
	14-Sep-09	67	38	1.5	---	31
	11-May-11	83	34	1.9	---	29
	2-Nov-11	45	33	1.6	---	22
	30-May-12	54	33	---	---	30
	13-Nov-12	63	34	---	---	27

Table 3. Summary of Groundwater Analytical Results
Granville Solvents Site
Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1,1-TCA (µg/L)
MCL		**5**	**5**	**70**	**100**	**200**
GSSMW-08	9-May-96	---	---	---	---	---
	27-Aug-96	---	---	---	---	---
	10-Dec-96	---	---	---	---	---
	19-Feb-97	---	---	---	---	---
	5-May-97	---	---	---	---	---
	12-Aug-97	---	0.58	---	---	---
	11-Dec-97	---	---	---	---	---
	1-Feb-98	---	---	---	---	---
	4-May-98	---	---	---	---	---
	6-Aug-98	---	---	---	---	---
	19-Nov-98	---	---	---	---	---
	5-Feb-99	---	---	---	---	---
	10-May-99	---	---	---	---	---
	5-Aug-99	---	---	---	---	---
	2-Feb-00	---	---	---	---	---
	15-May-00	---	---	---	---	---
	21-Aug-00	---	---	---	---	---
	5-Feb-01	---	---	---	---	---
	23-May-01	---	---	---	---	---
	1-Aug-01	---	---	---	---	---
	28-Nov-01	---	---	---	---	---
	27-Feb-02	---	---	---	---	---
	6-May-02	---	---	---	---	---
	5-Aug-02	---	---	---	---	---
	5-Nov-02	---	---	---	---	---
	26-Feb-03	---	---	---	---	---
	5-May-03	---	---	---	---	---
	27-Aug-03	---	---	---	---	---
	11-Nov-03	---	---	---	---	---
	3-Feb-04	---	---	---	---	---
	10-May-04	---	---	---	---	---
	4-Aug-04	---	---	---	---	---
	1-Feb-05	---	---	---	---	---
	11-Aug-05	---	---	---	---	---
	4-May-06	---	---	---	---	---
	20-Jul-06	---	---	---	---	---
	17-May-07	---	---	---	---	---
	25-Sep-07	---	---	---	---	---
	25-Apr-08	---	---	---	---	---
	4-Sep-08	---	---	---	---	---
	30-Mar-09	---	---	---	---	---
	14-Sep-09	---	---	---	---	---
	10-May-11	---	---	---	---	---
	3-Nov-11	---	---	---	---	---
	31-May-12	---	---	---	---	---
	13-Nov-12	---	---	---	---	---

Table 3. Summary of Groundwater Analytical Results
Granville Solvents Site
Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1,1-TCA (µg/L)
MCL		**5**	**5**	**70**	**100**	**200**
GSSMW-09	9-May-96	---	---	---	---	---
	27-Aug-96	---	---	---	---	---
	10-Dec-96	---	---	---	---	---
	19-Feb-97	---	---	---	---	---
	5-May-97	---	---	---	---	---
	12-Aug-97	---	---	---	---	---
	11-Dec-97	---	---	---	---	---
	1-Feb-98	---	---	---	---	---
	4-May-98	---	---	---	---	---
	6-Aug-98	---	---	---	---	---
	19-Nov-98	---	---	---	---	---
	5-Feb-99	---	---	---	---	---
	10-May-99	---	---	---	---	---
	5-Aug-99	---	---	---	---	---
	4-Nov-99	---	---	---	---	---
	2-Feb-00	---	---	---	---	---
	15-May-00	---	---	---	---	---
	21-Aug-00	---	---	---	---	---
	7-Nov-00	---	---	---	---	---
	5-Feb-01	---	---	---	---	---
	23-May-01	---	---	---	---	---
	1-Aug-01	---	---	---	---	---
	28-Nov-01	---	---	---	---	---
	27-Feb-02	---	---	---	---	---
	6-May-02	---	---	---	---	---
	5-Aug-02	---	---	---	---	---
	5-Nov-02	---	---	---	---	---
	26-Feb-03	---	---	---	---	---
	5-May-03	---	---	---	---	---
	27-Aug-03	---	---	---	---	---
	11-Nov-03	---	---	---	---	---
	3-Feb-04	---	---	0.28	---	---
	10-May-04	---	---	---	---	---
	4-Aug-04	---	---	---	---	---
	1-Feb-05	---	---	---	---	---
	11-Aug-05	---	---	---	---	---
	4-May-06	---	---	---	---	---
	20-Jul-06	---	---	---	---	---
	16-May-07	---	---	---	---	---
	25-Sep-07	---	---	---	---	---
	25-Apr-08	---	---	---	---	---
	5-Sep-08	---	0.24	---	---	---
	31-Mar-09	---	---	---	---	---
	14-Sep-09	---	---	---	---	---
	10-May-11	---	---	---	---	---
	3-Nov-11	No Sample - Well Seal Compromised to Surface Water/Sediment.				
	31-May-12	---	---	---	---	---
	13-Nov-12	---	---	---	---	---

Table 3. Summary of Groundwater Analytical Results
Granville Solvents Site
Granville, Ohio

Sample Location	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1,1-TCA (µg/L)
MCL		**5**	**5**	**70**	**100**	**200**
GSSMW-15	9-Sep-05	6.1	25	6.1	---	21
	4-May-06	7.2	22	4.1	---	19
	14-Jun-06	13	23	6.0	---	19
	19-Jul-06	8.6	24	7.1	---	18
	16-May-07	7.8	37	13	0.74	30
	25-Sep-07	12	35	9.9	0.67	33
	25-Apr-08	11	41	17	1.2	35
	5-Sep-08	12	47	19	1.2	37
	31-Mar-09	8.9	35	8.9	0.61	30
	15-Sep-09	26	38	11	0.72	30
	11-May-11	12.0	44	11	0.74	34
	3-Nov-11	9.1	32	12	0.94	29
	30-May-12	9.2	43	20	1.4	42
	13-Nov-12	10.0	49	17	0.93	45
GSSEW-01	20-Jul-06	---	---	---	---	---
	17-May-07	---	---	0.50	---	---
	25-Apr-08	---	---	---	---	---
	30-Mar-09	---	---	0.79	---	---
	10-May-11	---	---	0.58	---	---
	3-Nov-11	---	---	---	---	---

Notes:
All results expressed in ug/l (parts per billion)
Sample results which are non-detect are shown as --- in the table
MCL - Maximum contaminant level
PCE - Tetrachloroethene
TCE - Trichloroethene
DCE - cis-1,2-Dichloroethene
trans-1,2-DCE - trans-1,2-Dichloroethene
1,1,1-TCA - 1,1,1-Trichloroethane
* - Lab attributed a Dilution Factor of 5 to this sample resulting in an elevated RL.

Appendix A

Sampling Procedure Change Notification - May 8, 2012

DRAFT

AECOM
4219 Malsbary Road
Cincinnati, Ohio 45242
www.aecom.com

513 878 6880 tel
513 878 6848 fax

May 8, 2012

Sheila A. Sullivan
Remedial Project Manager
Superfund Division
U.S. EPA, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Subject: Procedure Change Notification
Groundwater Monitoring Program
Granville Solvents Site
Granville, Licking County, Ohio
USEPA ID: OHD004495412

Dear Ms. Sullivan,

AECOM, on behalf of the Granville Solvents Site Removal Management Group, LLC, is submitting this notification regarding groundwater sampling procedures at the referenced site. These revised procedures will be used for the 2012 semi-annual and subsequent sampling events. The following provides an explanation for and description of the change.

Performance monitoring is defined by the Post-Shutdown Contingency Plan (Contingency Plan) dated January 31, 2005. The Contingency Plan includes a groundwater monitoring program consisting of semi-annual sampling of a minimum of eight (8) designated wells. Collected samples have been analyzed for VOCs following the procedures outlined in the *Groundwater Monitoring Program Plan for the Granville Solvents Site in Granvill*e, *Ohio* (M&E 1995) (Groundwater Monitoring Plan). Procedures for sampling groundwater are outlined in Sections 4.6 and 5.2.4 of the Groundwater Monitoring Plan and generally consist of using a submersible pump to purge 3 to 5 well volumes followed by extracting groundwater at a rate of 100 mL per minute to fill the sample vials.

The submersible pumps currently utilized at the site to collect groundwater samples consist of a Grundfos™ dedicated sampling pump and dedicated tubing. The pumps and tubing are in poor condition and several are not functional. The seals on most of the wellhead manifolds are not water tight, potentially causing any surface water entering the flush-mount boxes to enter the well casing.

In order to meet the requirement in Section 4.6 of the Groundwater Monitoring Plan to collect groundwater samples that are representative of groundwater within the aquifer at each monitoring well location, the monitoring wells will be purged and sampled using the following low-flow methods.

Purging

A non-dedicated pneumatic or electric submersible bladder pump with pump controller will be utilized to purge each monitoring well. The pump will be slowly lowered to the mid-point of the well screen and the pumping rate (100-500 mL/min.) for each well will be adjusted until it will be equal to the natural groundwater flow velocity. This be will be determined by measuring water column levels during pumping. A water quality meter with a flow-through cell will be utilized to monitor groundwater stabilization criteria, which will be collected every 3 to 5 minutes. A minimum of 3 sets of indicator parameters will be collected followed by additional sets until 3 consecutive readings meet the stabilization criteria. The well will be considered purged after the following parameters have stabilized:

Parameter	Stabilization Criteria
pH	± 0.1
Specific electric conductance	± 3%
Temperature	± 0.5°C
Turbidity	± 10% (when turbidity will be greater than 10 NTUs)

The pump used to purge and sample the wells will be decontaminated between sampling locations in accordance with Section 5.2.1 of the Groundwater Monitoring Plan. New disposable polyethylene bladders and tubing will be used between each well.

Sampling

The submersible pump and low-flow methods will be used to collect the groundwater samples. The in-line, flow-through water quality cells used during well purging will be disconnected prior to filling the sample bottles.

The existing dedicated sampling pump and tubing at each of the following wells will be replaced with a standard water-tight cap:

- MW-02D
- MW-04D
- MW-06
- MW-07D
- MW-08
- MW-P1
- GSSMW-15
- GSSEW-01
- GSSMW-08; and
- GSSMW-09.

Sampling reports will include a summary of the purge data and any deviations from this procedure will be noted.

If you have any questions regarding this procedure change, please contact me at (513) 878-6844 or e-mail me at ron.roelker@aecom.com.

Sincerely yours,

Ron Roelker, PE
Senior Project Manager

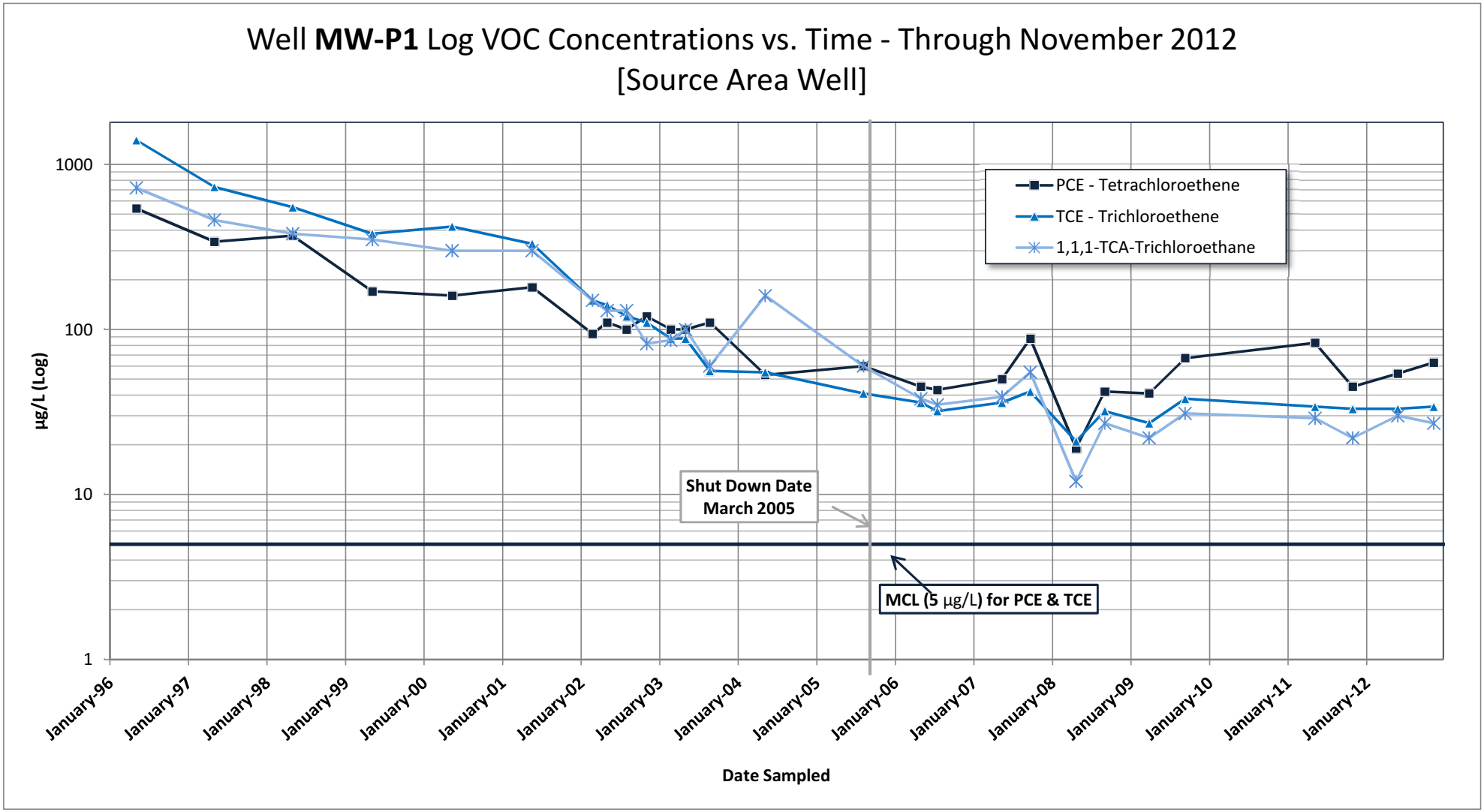
Mike Papp
Project Geologist

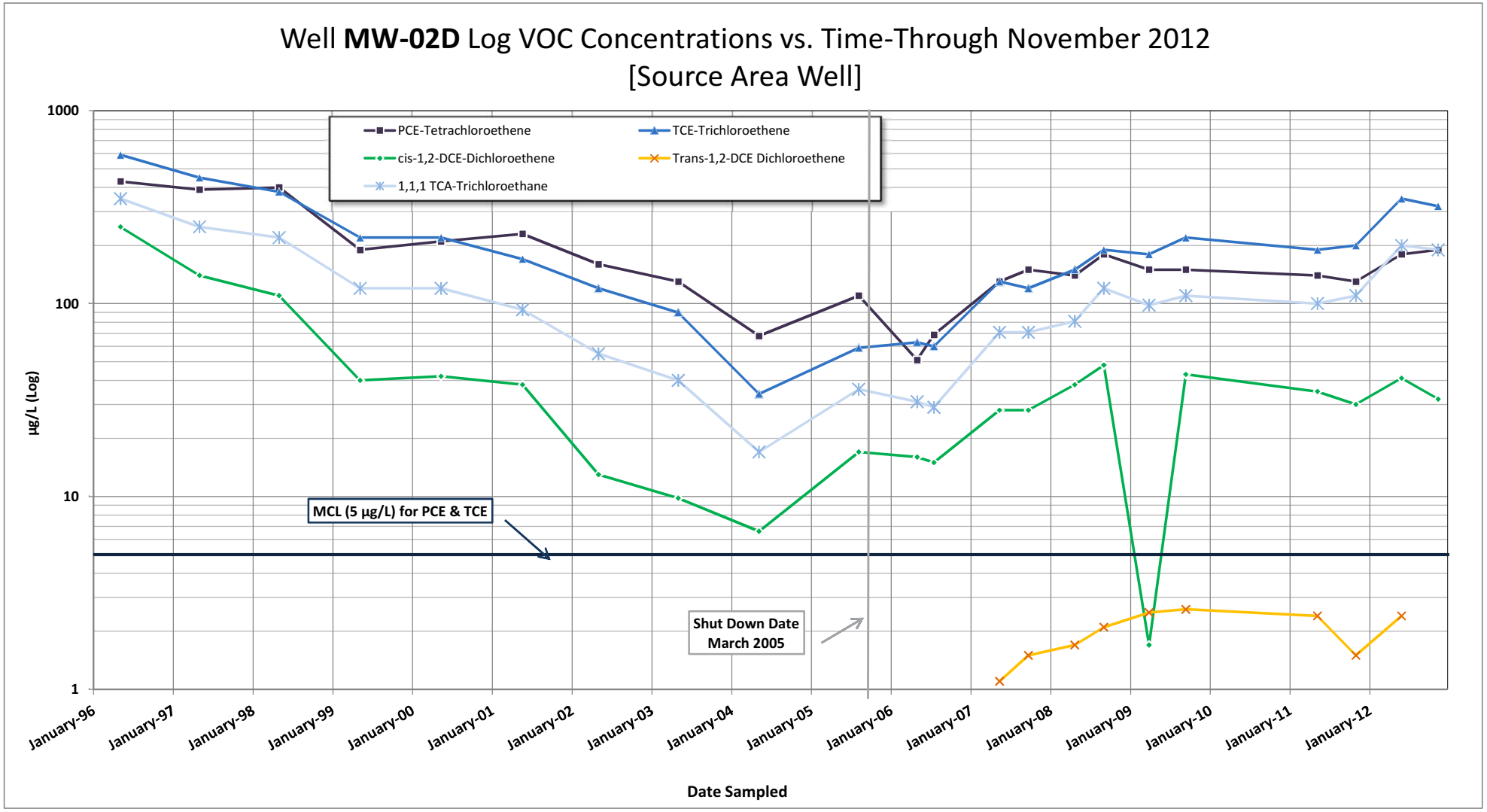
Cc: Bill Brewer, PhD, Granville Solvents SRM Group Site Manager
Fred Myers, Ohio EPA, DERR

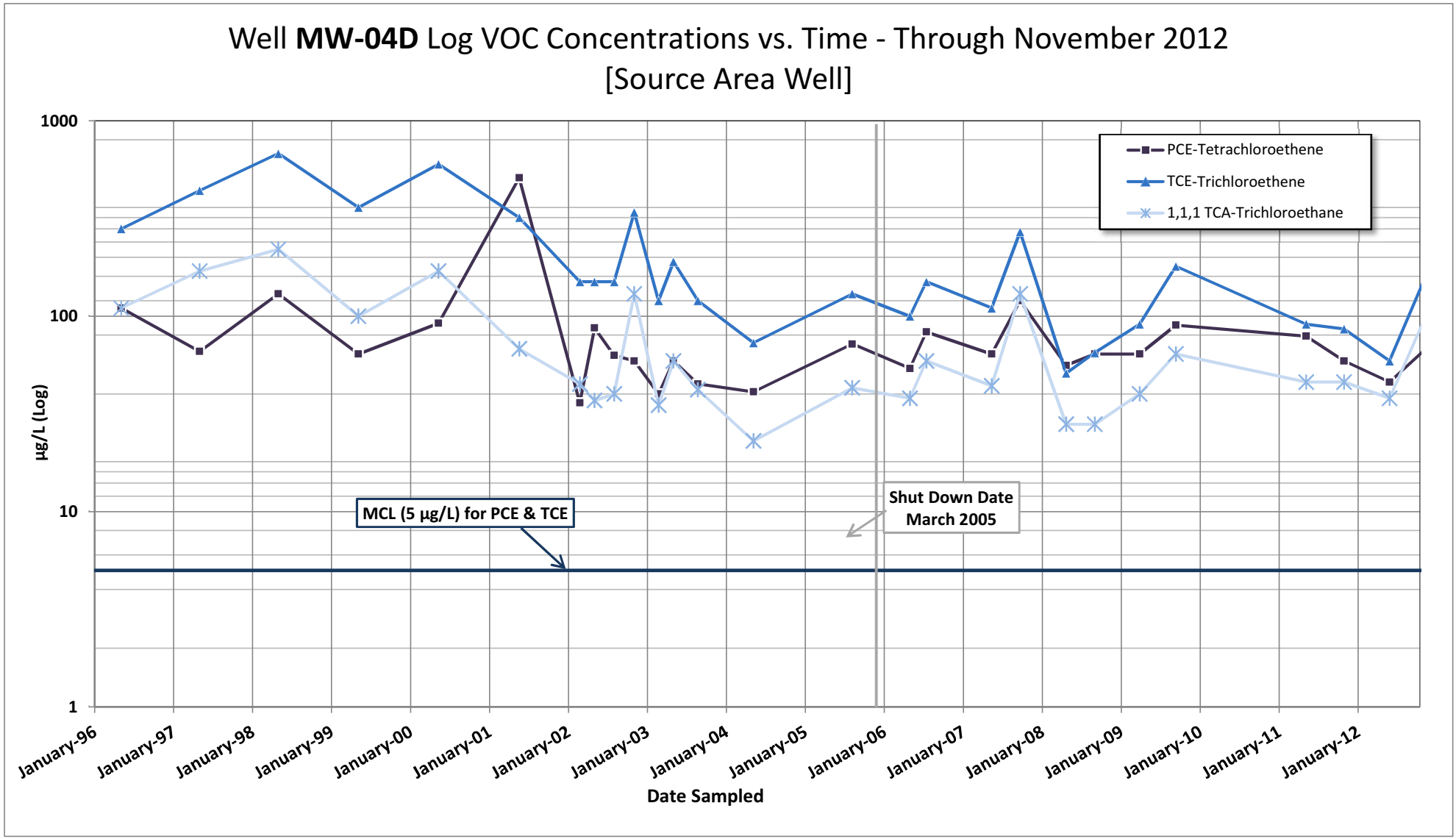
Appendix B

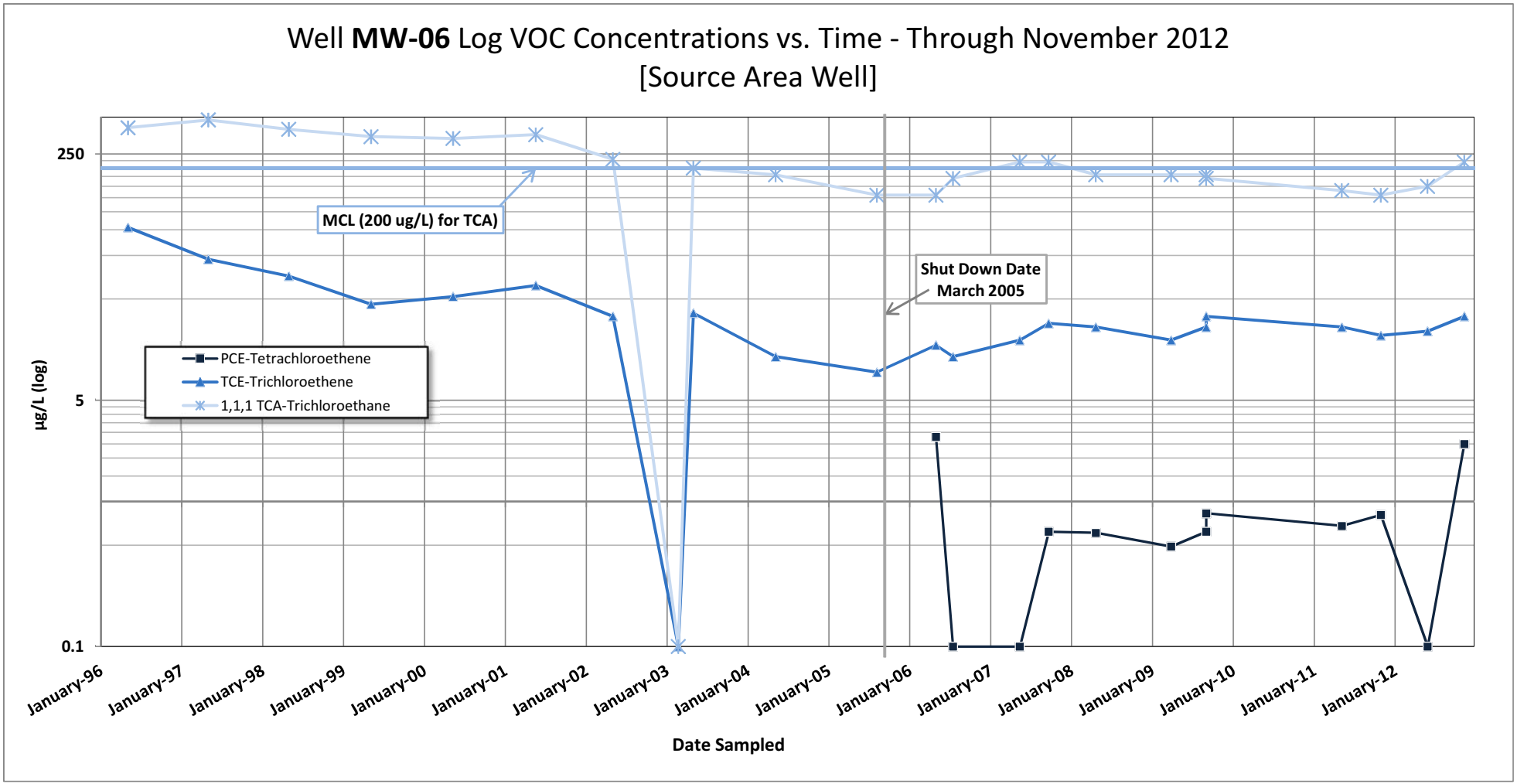
Concentration Trend Graphs

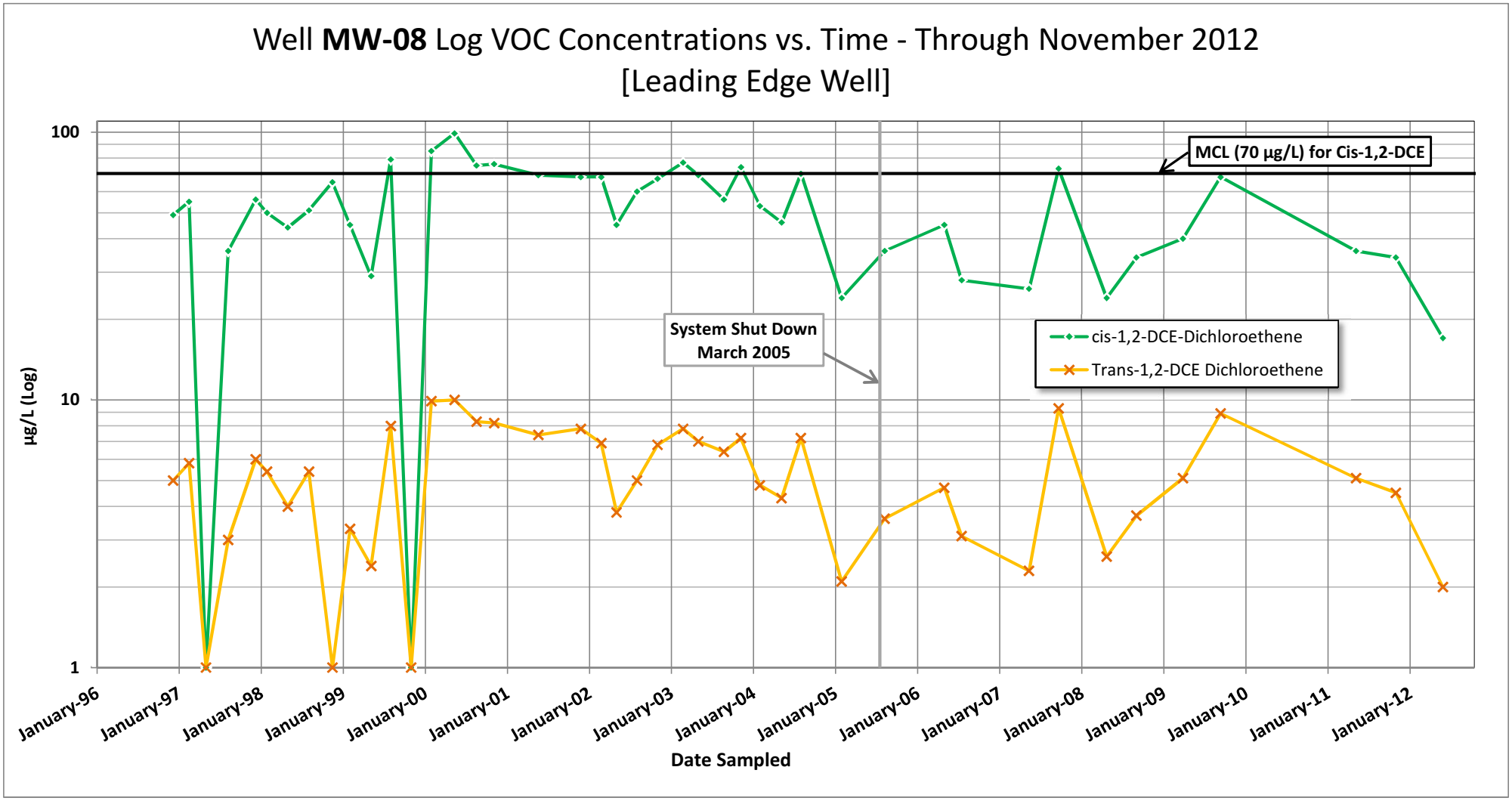
DRAFT

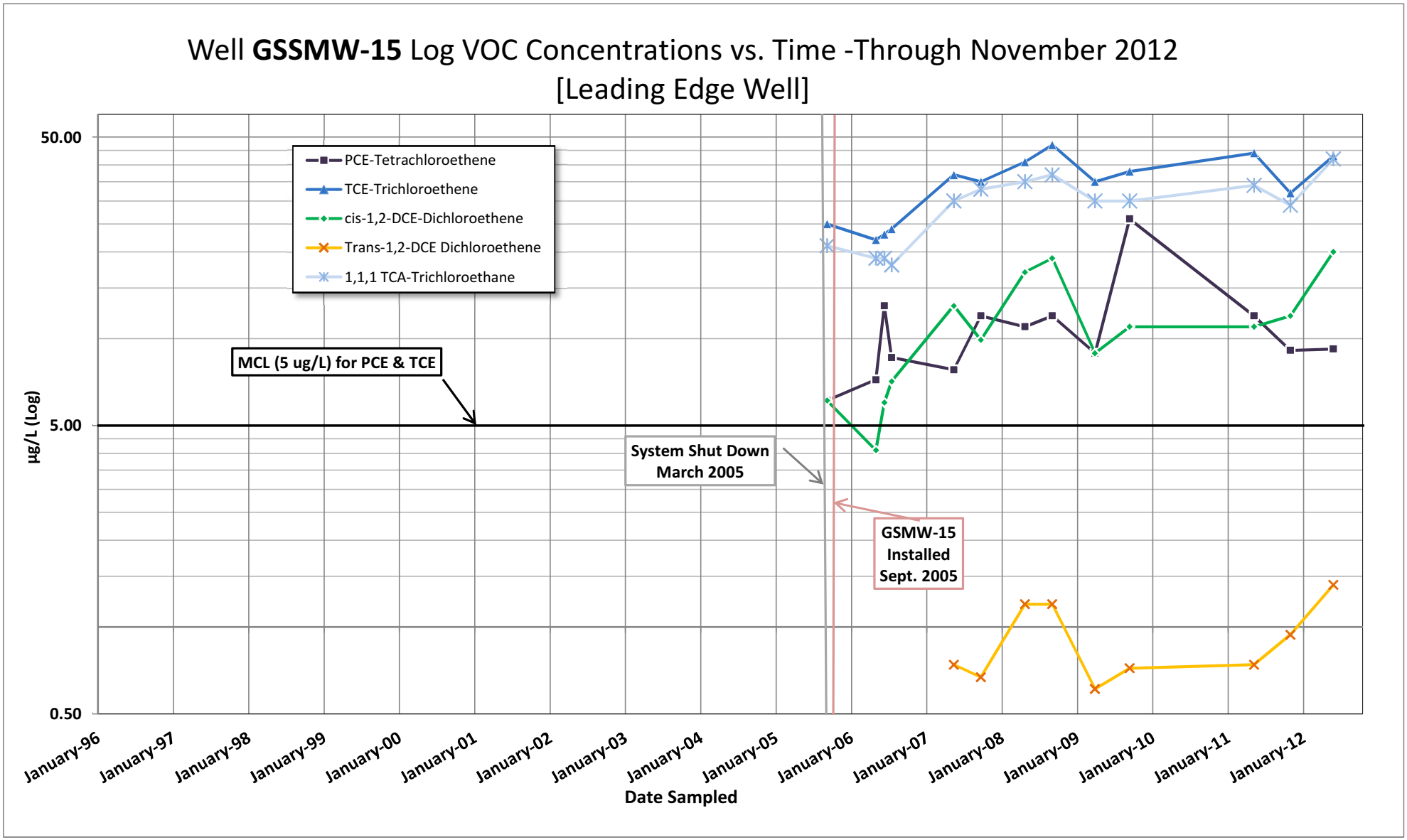

Well MW-P1 Log VOC Concentrations vs. Time - Through November 2012
[Source Area Well]
1000
100
10
1
µg/L (Log)
PCE - Tetrachloroethene
TCE - Trichloroethene
1,1,1-TCA-Trichloroethane
Shut Down Date
March 2005
MCL (5 µg/L) for PCE & TCE
January-96
January-97
January-98
January-99
January-00
January-01
January-02
January-03
January-04
January-05
January-06
January-07
January-08
January-09
January-10
January-11
January-12
Date Sampled


Well MW-02D Log VOC Concentrations vs. Time-Through November 2012
[Source Area Well]
PCE-Tetrachloroethene
TCE-Trichloroethene
cis-1,2-DCE-Dichloroethene
Trans-1,2-DCE Dichloroethene
1,1,1 TCA-Trichloroethane
MCL (5 µg/L) for PCE & TCE
Shut Down Date
March 2005
µg/L (Log)
1000
100
10
1
January-96
January-97
January-98
January-99
January-00
January-01
January-02
January-03
January-04
January-05
January-06
January-07
January-08
January-09
January-10
January-11
January-12
Date Sampled


Well MW-04D Log VOC Concentrations vs. Time - Through November 2012
[Source Area Well]
1000
100
10
1
µg/L (Log)
PCE-Tetrachloroethene
TCE-Trichloroethene
1,1,1 TCA-Trichloroethane
MCL (5 µg/L) for PCE & TCE
Shut Down Date
March 2005
January-96
January-97
January-98
January-99
January-00
January-01
January-02
January-03
January-04
January-05
January-06
January-07
January-08
January-09
January-10
January-11
January-12
Date Sampled


Well MW-06 Log VOC Concentrations vs. Time - Through November 2012
[Source Area Well]
250
5
0.1
µg/L (log)
MCL (200 ug/L) for TCA)
Shut Down Date
March 2005
PCE-Tetrachloroethene
TCE-Trichloroethene
1,1,1 TCA-Trichloroethane
January-96
January-97
January-98
January-99
January-00
January-01
January-02
January-03
January-04
January-05
January-06
January-07
January-08
January-09
January-10
January-11
January-12
Date Sampled

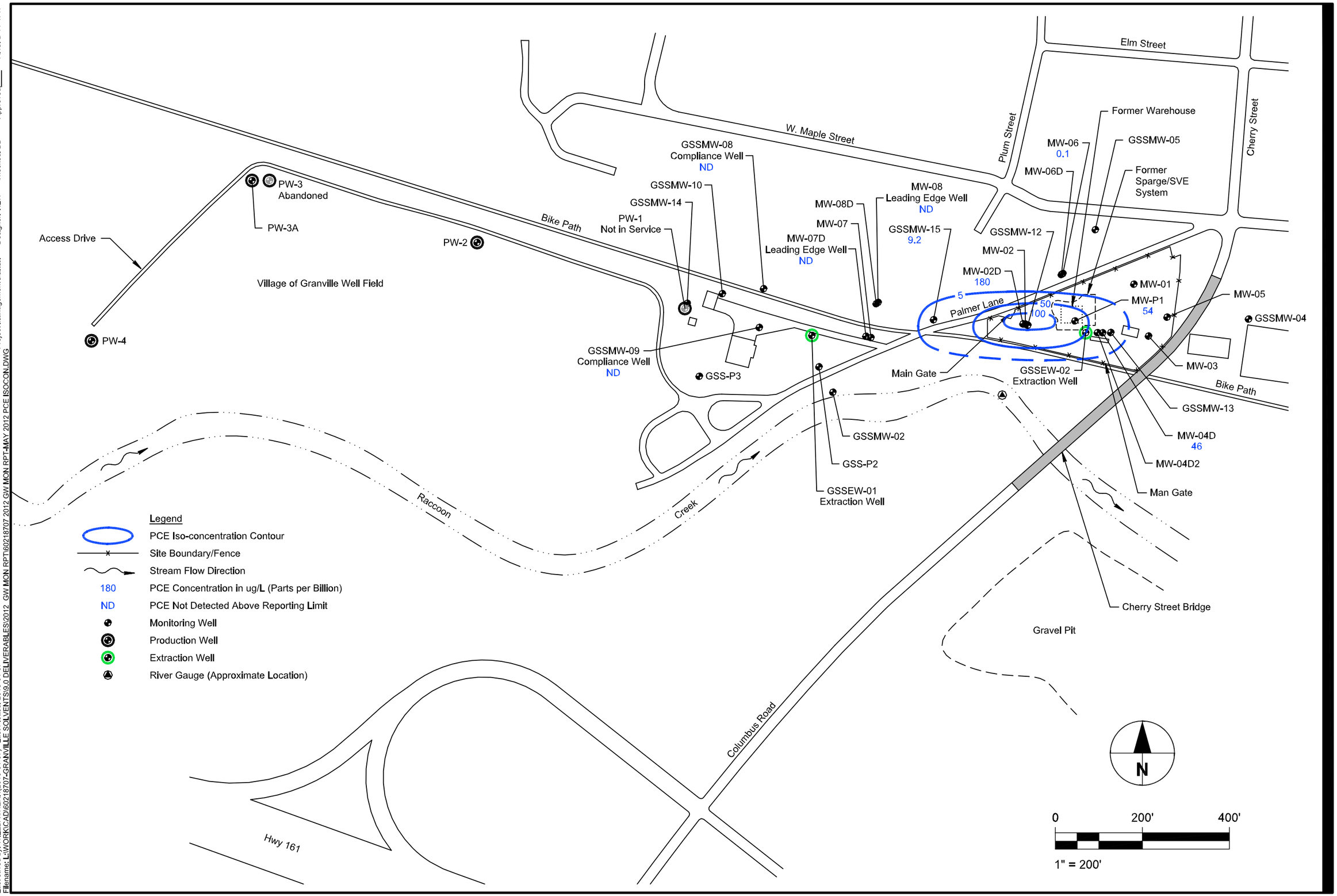

Well MW-08 Log VOC Concentrations vs. Time - Through November 2012
[Leading Edge Well]
100
10
1
µg/L (Log)
MCL (70 µg/L) for Cis-1,2-DCE
System Shut Down
March 2005
cis-1,2-DCE-Dichloroethene
Trans-1,2-DCE Dichloroethene
January-96
January-97
January-98
January-99
January-00
January-01
January-02
January-03
January-04
January-05
January-06
January-07
January-08
January-09
January-10
January-11
January-12
Date Sampled


Well GSSMW-15 Log VOC Concentrations vs. Time -Through November 2012
[Leading Edge Well]
PCE-Tetrachloroethene
TCE-Trichloroethene
cis-1,2-DCE-Dichloroethene
Trans-1,2-DCE Dichloroethene
1,1,1 TCA-Trichloroethane
MCL (5 ug/L) for PCE & TCE
System Shut Down
March 2005
GSMW-15
Installed
Sept. 2005
µg/L (Log)
50.00
5.00
0.50
January-96
January-97
January-98
January-99
January-00
January-01
January-02
January-03
January-04
January-05
January-06
January-07
January-08
January-09
January-10
January-11
January-12
Date Sampled

Appendix C

Iso-Concentration Maps- PCE, TCE, TCA

DRAFT



AECOM

APPENDIX B
PCE ISO-CONCENTRATION MAP
MAY 2012

2012 ANNUAL GROUNDWATER MONITORING REPORT
GRANVILLE SOLVENTS SITE
GRANVILLE, OHIO
Project No.: 60218707 Date: 2013-01-07

Last saved by: WILZBACHERN(2013-01-07) Last Plotted: 2013-01-07
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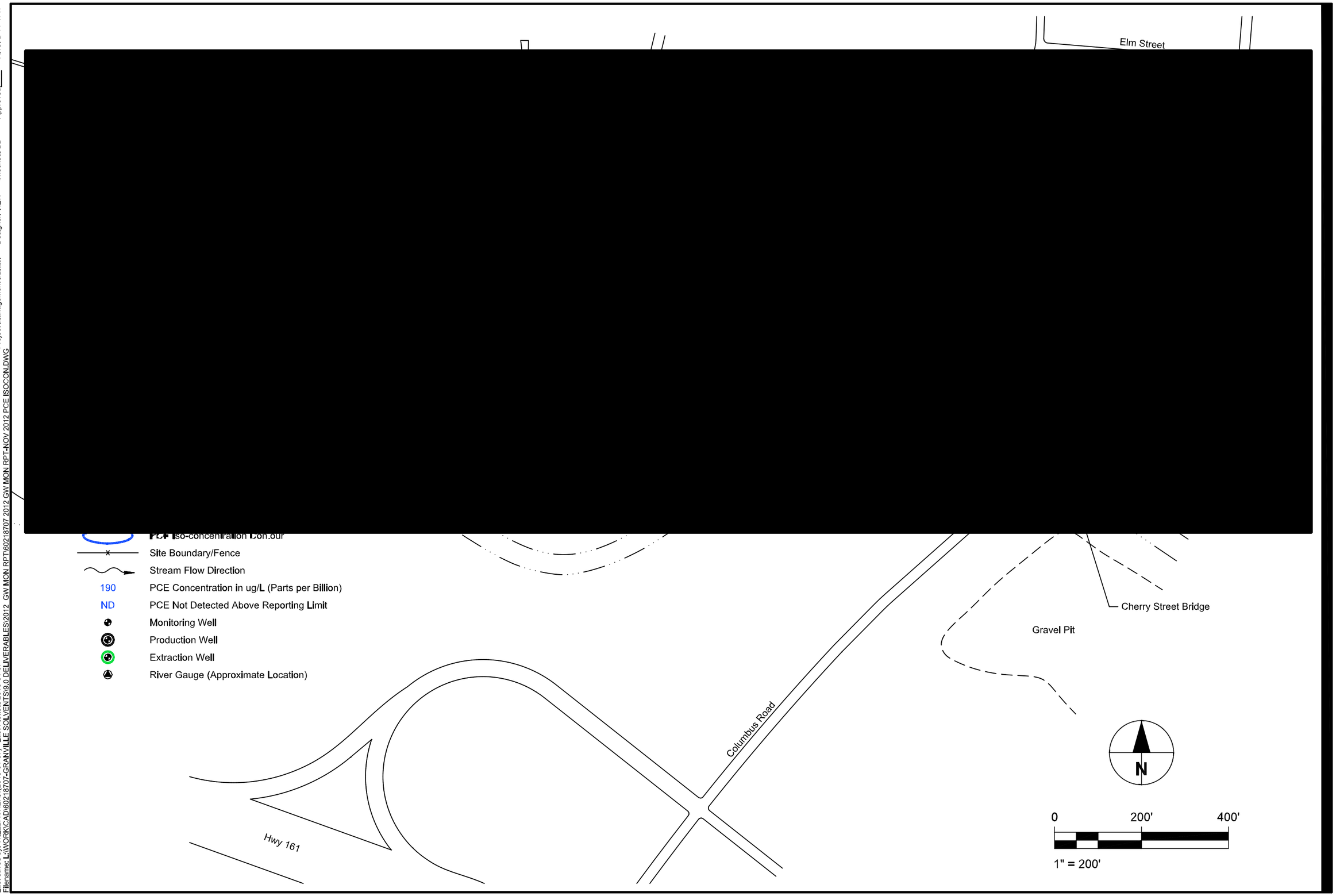
Project Management Initials: Designer: NLW Checked: BB Approved:____ ANSI B 11" x 17"



AECOM

APPENDIX B
PCE ISO-CONCENTRATION MAP
NOVEMBER 2012

2012 ANNUAL GROUNDWATER MONITORING REPORT
GRANVILLE SOLVENTS SITE
GRANVILLE, OHIO
Project No.: 60218707 Date: 2013-01-07

Last saved by: WILZBACHERN(2013-01-07) Last Plotted: 2013-01-07
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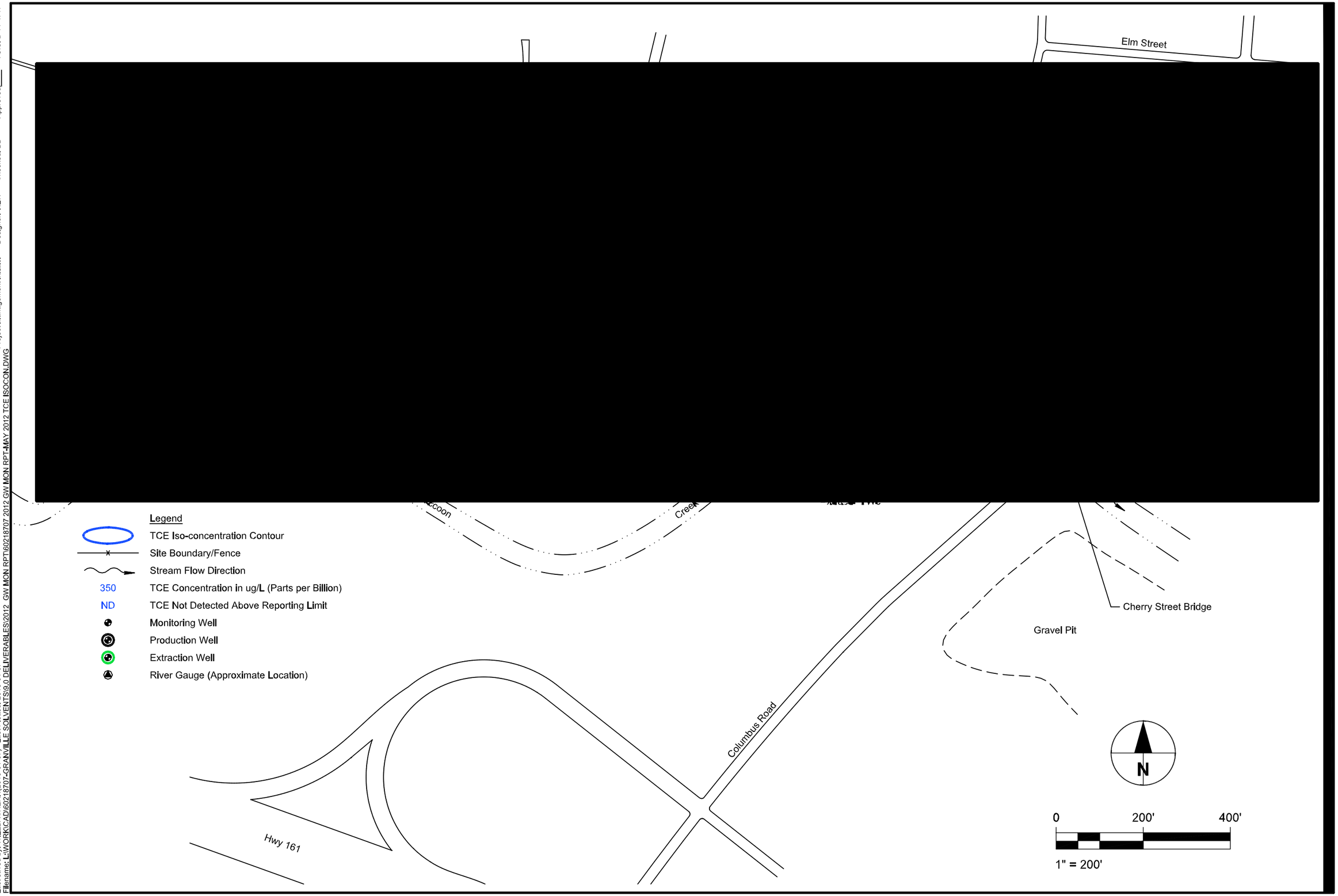

AECOM

APPENDIX B
TCE ISO-CONCENTRATION MAP
MAY 2012

2012 ANNUAL GROUNDWATER MONITORING REPORT
GRANVILLE SOLVENTS SITE
GRANVILLE, OHIO
Project No.: 60218707 Date: 2013-01-07

Last saved by: WILZBACHERN(2013-01-07) Last Plotted: 2013-01-07
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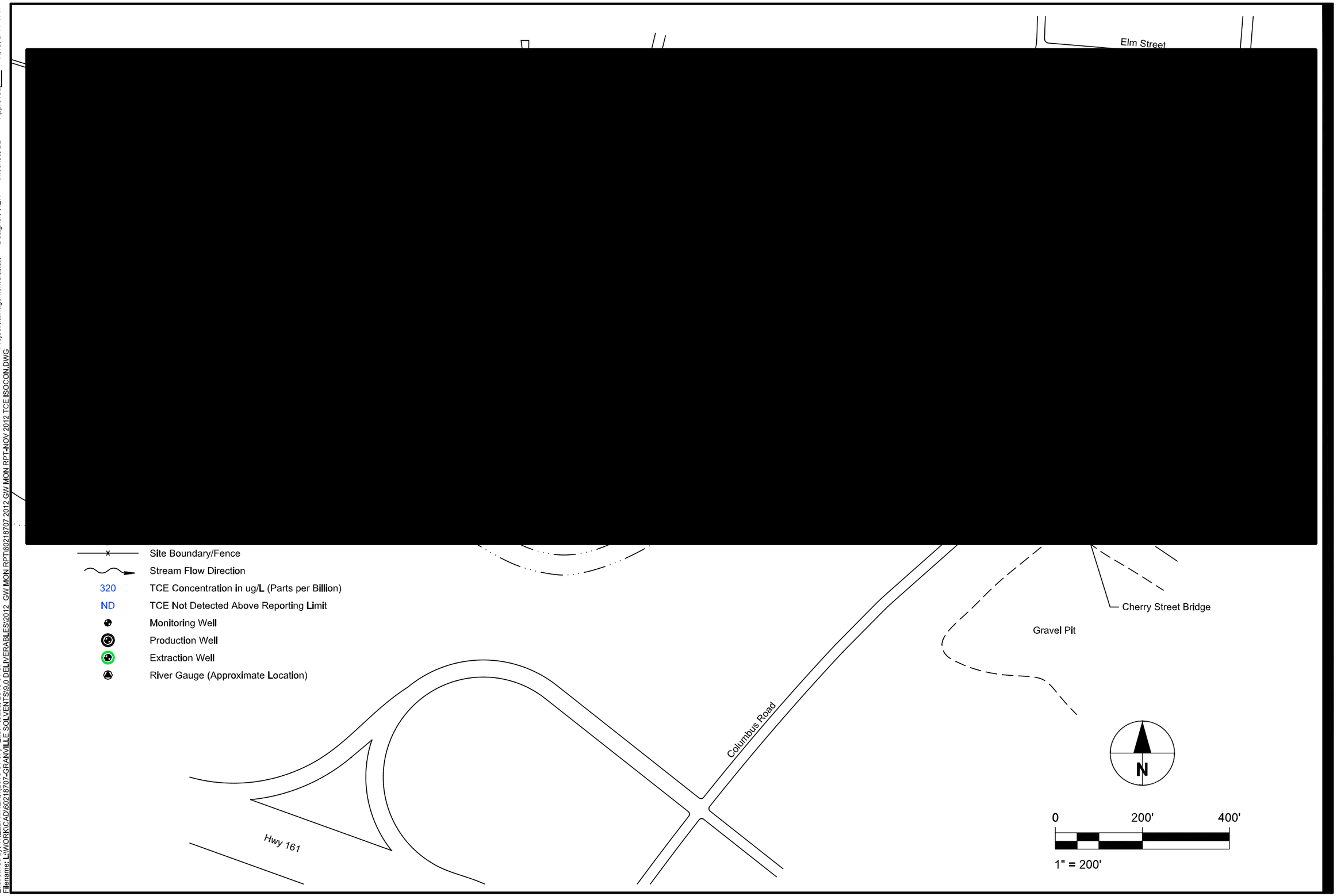


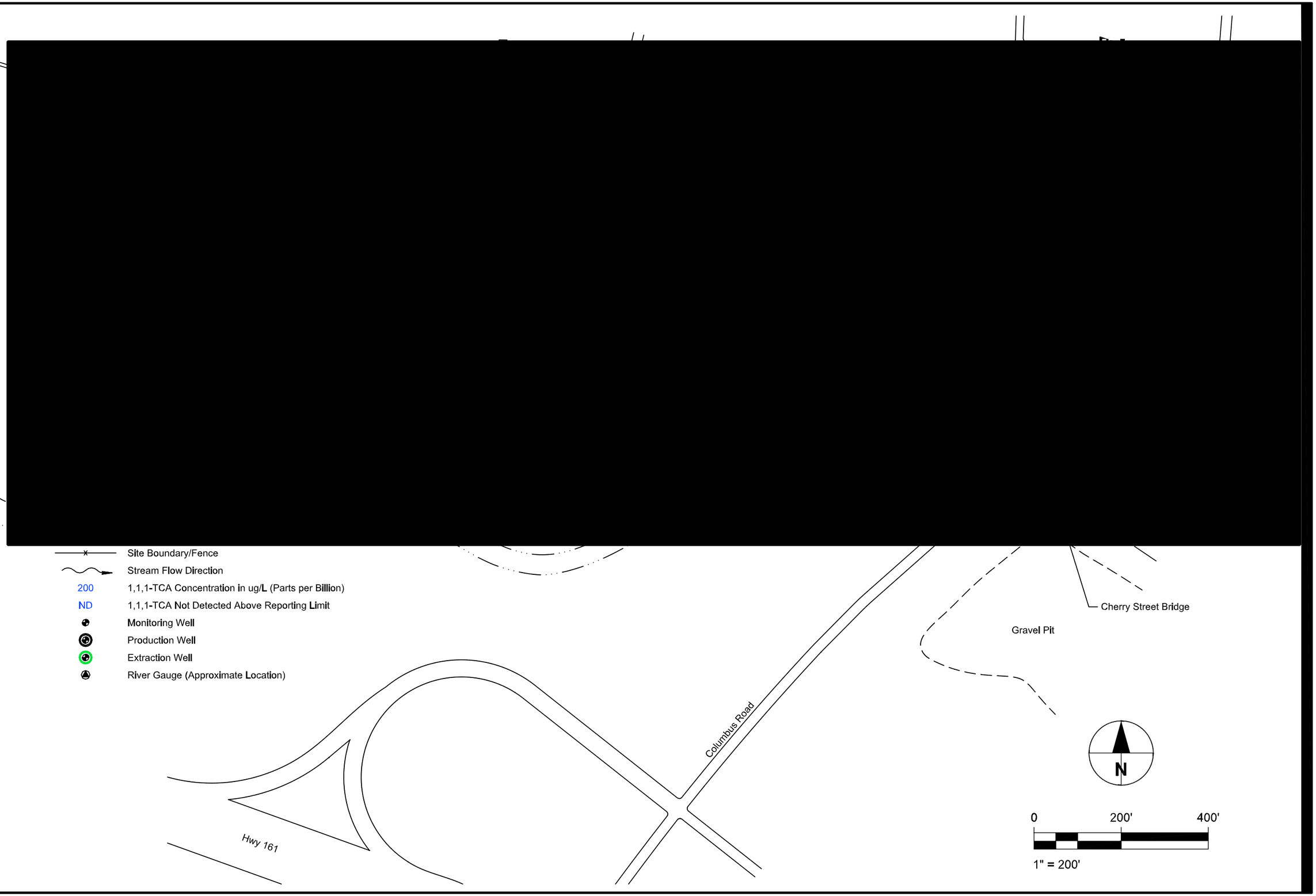
AECOM

APPENDIX B
TCE ISO-CONCENTRATION MAP
NOVEMBER 2012

2012 ANNUAL GROUNDWATER MONITORING REPORT
GRANVILLE SOLVENTS SITE
GRANVILLE, OHIO
Project No.: 60218707 Date: 2013-01-07

Last saved by: WILZBACHERN(2013-01-07) Last Plotted: 2013-01-07
Filename: L:\WORK\CAD\60218707-GRANVILLE SOLVENTS\9.0 DELIVERABLES\2012 GW MON RPT\60218707 2012 GW MON RPT-NOV 2012 TCE ISOCON.DWG

Project Management Initials: Designer: NLW Checked: BB Approved:____ ANSI B 11" x 17"



AECOM

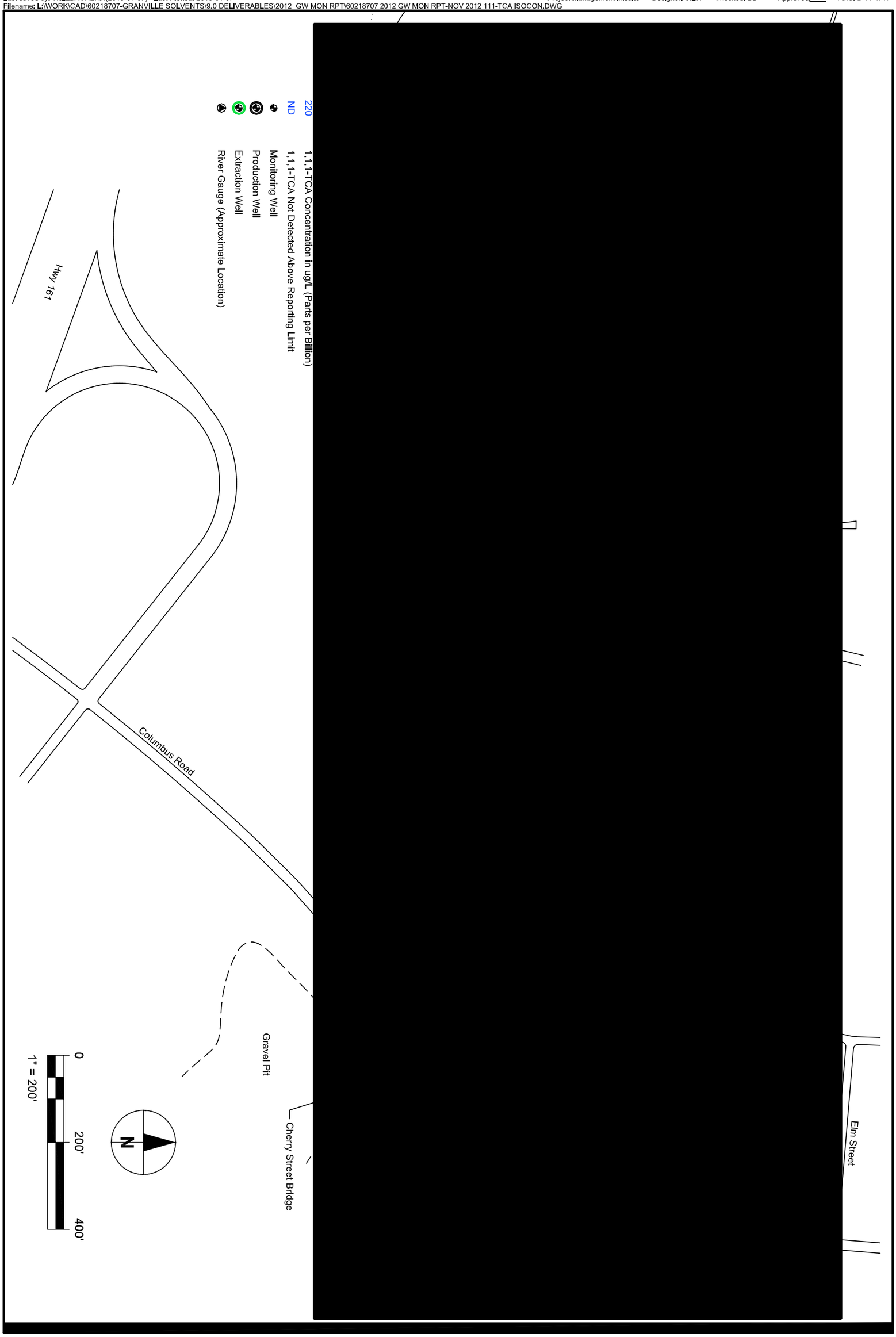
APPENDIX B
1,1,1-TCA ISO-CONCENTRATION MAP
MAY 2012

2012 ANNUAL GROUNDWATER MONITORING REPORT
GRANVILLE SOLVENTS SITE
GRANVILLE, OHIO
Project No.: 60218707 Date: 2013-01-07

Last saved by: WILZBACHERN(2013-01-07) Last Plotted: 2013-01-07
Filename: L:\WORK\CAD\60218707-GRANVILLE SOLVENTS\9.0 DELIVERABLES\2012 GW MON RPT\60218707 2012 GW MON RPT-MAY 2012 111-TCA ISOCON.DWG

Project Management Initials: Designer: NLW Checked: BB Approved:____ ANSI B 11" x 17"

Last saved by: WILZBACHERN(2013-01-07) Last Plotted: 2013-01-07 Project Management Initials: Designer: NLW Checked: BB Approved:____ ANSI B 11" x 17"
Filename: L:\WORK\CAD\60218707-GRANVILLE SOLVENTS\9.0 DELIVERABLES\2012_GW MON RPT\60218707 2012 GW MON RPT-NOV 2012 111-TCA ISOCON.DWG



2012 ANNUAL GROUNDWATER MONITORING REPORT
GRANVILLE SOLVENTS SITE
GRANVILLE, OHIO
Project No.: 60218707 Date: 2013-01-07

APPENDIX B
1,1,1-TCA ISO-CONCENTRATION MAP
NOVEMBER 2012

AECOM

Appendix D

Groundwater Analytical Reports

DRAFT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-84864-1
Client Project/Site: Granville Solvents Nov 2012

For:
AECOM, Inc.
4219 Malsbary Drive
Cincinnati, Ohio 45242

Attn: Michael Papp

Authorized for release by:
11/28/2012 6:12:51 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-84864-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: AECOM, Inc.

Project: Granville Solvents Nov 2012

Report Number: 680-84864-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/15/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW02D-111412 (680-84864-1), MW04D-111412 (680-84864-2), MW06-111412 (680-84864-3), MW07D-111312 (680-84864-4), MW08-111312 (680-84864-5), MWP1-111312 (680-84864-6), GSSMW08-111312 (680-84864-7), GSSMW09-111312 (680-84864-8), GSSMW15-111412 (680-84864-9), Dupe01-111312 (680-84864-10), TB-111312 (680-84864-11) and EB-111412 (680-84864-12) were analyzed for Volatile organic Compounds (GC-MS) in accordance with EPA Method 524.2. The samples were analyzed on 11/21/2012 and 11/25/2012.

Samples MW02D-111412 (680-84864-1)[20X], MW04D-111412 (680-84864-2)[10X], MW06-111412 (680-84864-3)[10X], MW08-111312 (680-84864-5)[5X] and MWP1-111312 (680-84864-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-84864-1	MW02D-111412	Water	11/14/12 10:40	11/15/12 09:45
680-84864-2	MW04D-111412	Water	11/14/12 12:47	11/15/12 09:45
680-84864-3	MW06-111412	Water	11/14/12 10:22	11/15/12 09:45
680-84864-4	MW07D-111312	Water	11/13/12 13:05	11/15/12 09:45
680-84864-5	MW08-111312	Water	11/13/12 15:58	11/15/12 09:45
680-84864-6	MWP1-111312	Water	11/13/12 10:22	11/15/12 09:45
680-84864-7	GSSMW08-111312	Water	11/13/12 14:22	11/15/12 09:45
680-84864-8	GSSMW09-111312	Water	11/13/12 11:54	11/15/12 09:45
680-84864-9	GSSMW15-111412	Water	11/14/12 09:18	11/15/12 09:45
680-84864-10	Dupe01-111312	Water	11/13/12 00:00	11/15/12 09:45
680-84864-11	TB-111312	Water	11/13/12 00:00	11/15/12 09:45
680-84864-12	EB-111412	Water	11/14/12 13:25	11/15/12 09:45

Method Summary

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: MW02D-111412

Date Collected: 11/14/12 10:40
Date Received: 11/15/12 09:45

Lab Sample ID: 680-84864-1

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		10		ug/L			11/25/12 17:24	20
Bromobenzene	<10		10		ug/L			11/25/12 17:24	20
Bromoform	<10		10		ug/L			11/25/12 17:24	20
Bromomethane	<20		20		ug/L			11/25/12 17:24	20
Carbon tetrachloride	<10		10		ug/L			11/25/12 17:24	20
Chlorobenzene	<10		10		ug/L			11/25/12 17:24	20
Chlorodibromomethane	<10		10		ug/L			11/25/12 17:24	20
Chloroethane	<20		20		ug/L			11/25/12 17:24	20
Chloroform	<10		10		ug/L			11/25/12 17:24	20
Chloromethane	<10		10		ug/L			11/25/12 17:24	20
2-Chlorotoluene	<10		10		ug/L			11/25/12 17:24	20
4-Chlorotoluene	<10		10		ug/L			11/25/12 17:24	20
cis-1,2-Dichloroethene	**32**		10		ug/L			11/25/12 17:24	20
cis-1,3-Dichloropropene	<10		10		ug/L			11/25/12 17:24	20
Dibromomethane	<10		10		ug/L			11/25/12 17:24	20
1,2-Dichlorobenzene	<10		10		ug/L			11/25/12 17:24	20
1,3-Dichlorobenzene	<10		10		ug/L			11/25/12 17:24	20
1,4-Dichlorobenzene	<10		10		ug/L			11/25/12 17:24	20
Dichlorobromomethane	<20		20		ug/L			11/25/12 17:24	20
1,1-Dichloroethane	<10		10		ug/L			11/25/12 17:24	20
1,2-Dichloroethane	<10		10		ug/L			11/25/12 17:24	20
1,1-Dichloroethene	<10		10		ug/L			11/25/12 17:24	20
1,2-Dichloropropane	<10		10		ug/L			11/25/12 17:24	20
1,3-Dichloropropane	<10		10		ug/L			11/25/12 17:24	20
2,2-Dichloropropane	<10		10		ug/L			11/25/12 17:24	20
1,1-Dichloropropene	<10		10		ug/L			11/25/12 17:24	20
Ethylbenzene	<10		10		ug/L			11/25/12 17:24	20
Methylene Chloride	<10		10		ug/L			11/25/12 17:24	20
Methyl tert-butyl ether	<10		10		ug/L			11/25/12 17:24	20
m-Xylene & p-Xylene	<10		10		ug/L			11/25/12 17:24	20
o-Xylene	<10		10		ug/L			11/25/12 17:24	20
Styrene	<10		10		ug/L			11/25/12 17:24	20
1,1,1,2-Tetrachloroethane	<10		10		ug/L			11/25/12 17:24	20
1,1,2,2-Tetrachloroethane	<10		10		ug/L			11/25/12 17:24	20
Tetrachloroethene	**190**		10		ug/L			11/25/12 17:24	20
Toluene	<10		10		ug/L			11/25/12 17:24	20
trans-1,2-Dichloroethene	<10		10		ug/L			11/25/12 17:24	20
trans-1,3-Dichloropropene	<10		10		ug/L			11/25/12 17:24	20
1,2,4-Trichlorobenzene	<10		10		ug/L			11/25/12 17:24	20
1,1,1-Trichloroethane	**190**		10		ug/L			11/25/12 17:24	20
1,1,2-Trichloroethane	<10		10		ug/L			11/25/12 17:24	20
Trichloroethene	**320**		10		ug/L			11/25/12 17:24	20
1,2,3-Trichloropropane	<10		10		ug/L			11/25/12 17:24	20
Vinyl chloride	<10		10		ug/L			11/25/12 17:24	20
Xylenes, Total	<10		10		ug/L			11/25/12 17:24	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*70 - 130*		*11/25/12 17:24*	*20*
1,2-Dichlorobenzene-d4	*102*		*70 - 130*		*11/25/12 17:24*	*20*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: MW04D-111412

Date Collected: 11/14/12 12:47
Date Received: 11/15/12 09:45

Lab Sample ID: 680-84864-2

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0		ug/L			11/25/12 17:50	10
Bromobenzene	<5.0		5.0		ug/L			11/25/12 17:50	10
Bromoform	<5.0		5.0		ug/L			11/25/12 17:50	10
Bromomethane	<10		10		ug/L			11/25/12 17:50	10
Carbon tetrachloride	<5.0		5.0		ug/L			11/25/12 17:50	10
Chlorobenzene	<5.0		5.0		ug/L			11/25/12 17:50	10
Chlorodibromomethane	<5.0		5.0		ug/L			11/25/12 17:50	10
Chloroethane	<10		10		ug/L			11/25/12 17:50	10
Chloroform	<5.0		5.0		ug/L			11/25/12 17:50	10
Chloromethane	<5.0		5.0		ug/L			11/25/12 17:50	10
2-Chlorotoluene	<5.0		5.0		ug/L			11/25/12 17:50	10
4-Chlorotoluene	<5.0		5.0		ug/L			11/25/12 17:50	10
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			11/25/12 17:50	10
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			11/25/12 17:50	10
Dibromomethane	<5.0		5.0		ug/L			11/25/12 17:50	10
1,2-Dichlorobenzene	<5.0		5.0		ug/L			11/25/12 17:50	10
1,3-Dichlorobenzene	<5.0		5.0		ug/L			11/25/12 17:50	10
1,4-Dichlorobenzene	<5.0		5.0		ug/L			11/25/12 17:50	10
Dichlorobromomethane	<10		10		ug/L			11/25/12 17:50	10
1,1-Dichloroethane	**22**		5.0		ug/L			11/25/12 17:50	10
1,2-Dichloroethane	<5.0		5.0		ug/L			11/25/12 17:50	10
1,1-Dichloroethene	<5.0		5.0		ug/L			11/25/12 17:50	10
1,2-Dichloropropane	<5.0		5.0		ug/L			11/25/12 17:50	10
1,3-Dichloropropane	<5.0		5.0		ug/L			11/25/12 17:50	10
2,2-Dichloropropane	<5.0		5.0		ug/L			11/25/12 17:50	10
1,1-Dichloropropene	<5.0		5.0		ug/L			11/25/12 17:50	10
Ethylbenzene	<5.0		5.0		ug/L			11/25/12 17:50	10
Methylene Chloride	<5.0		5.0		ug/L			11/25/12 17:50	10
Methyl tert-butyl ether	<5.0		5.0		ug/L			11/25/12 17:50	10
m-Xylene & p-Xylene	<5.0		5.0		ug/L			11/25/12 17:50	10
o-Xylene	<5.0		5.0		ug/L			11/25/12 17:50	10
Styrene	<5.0		5.0		ug/L			11/25/12 17:50	10
1,1,1,2-Tetrachloroethane	<5.0		5.0		ug/L			11/25/12 17:50	10
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			11/25/12 17:50	10
Tetrachloroethene	**68**		5.0		ug/L			11/25/12 17:50	10
Toluene	<5.0		5.0		ug/L			11/25/12 17:50	10
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			11/25/12 17:50	10
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			11/25/12 17:50	10
1,2,4-Trichlorobenzene	<5.0		5.0		ug/L			11/25/12 17:50	10
1,1,1-Trichloroethane	**100**		5.0		ug/L			11/25/12 17:50	10
1,1,2-Trichloroethane	<5.0		5.0		ug/L			11/25/12 17:50	10
Trichloroethene	**160**		5.0		ug/L			11/25/12 17:50	10
1,2,3-Trichloropropane	<5.0		5.0		ug/L			11/25/12 17:50	10
Vinyl chloride	<5.0		5.0		ug/L			11/25/12 17:50	10
Xylenes, Total	<5.0		5.0		ug/L			11/25/12 17:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*11/25/12 17:50*	*10*
1,2-Dichlorobenzene-d4	*97*		*70 - 130*		*11/25/12 17:50*	*10*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: MW06-111412

Lab Sample ID: 680-84864-3

Date Collected: 11/14/12 10:22

Matrix: Water

Date Received: 11/15/12 09:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0		ug/L			11/25/12 18:17	10
Bromobenzene	<5.0		5.0		ug/L			11/25/12 18:17	10
Bromoform	<5.0		5.0		ug/L			11/25/12 18:17	10
Bromomethane	<10		10		ug/L			11/25/12 18:17	10
Carbon tetrachloride	<5.0		5.0		ug/L			11/25/12 18:17	10
Chlorobenzene	<5.0		5.0		ug/L			11/25/12 18:17	10
Chlorodibromomethane	<5.0		5.0		ug/L			11/25/12 18:17	10
Chloroethane	<10		10		ug/L			11/25/12 18:17	10
Chloroform	<5.0		5.0		ug/L			11/25/12 18:17	10
Chloromethane	<5.0		5.0		ug/L			11/25/12 18:17	10
2-Chlorotoluene	<5.0		5.0		ug/L			11/25/12 18:17	10
4-Chlorotoluene	<5.0		5.0		ug/L			11/25/12 18:17	10
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			11/25/12 18:17	10
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			11/25/12 18:17	10
Dibromomethane	<5.0		5.0		ug/L			11/25/12 18:17	10
1,2-Dichlorobenzene	<5.0		5.0		ug/L			11/25/12 18:17	10
1,3-Dichlorobenzene	<5.0		5.0		ug/L			11/25/12 18:17	10
1,4-Dichlorobenzene	<5.0		5.0		ug/L			11/25/12 18:17	10
Dichlorobromomethane	<10		10		ug/L			11/25/12 18:17	10
1,1-Dichloroethane	<5.0		5.0		ug/L			11/25/12 18:17	10
1,2-Dichloroethane	<5.0		5.0		ug/L			11/25/12 18:17	10
1,1-Dichloroethene	<5.0		5.0		ug/L			11/25/12 18:17	10
1,2-Dichloropropane	<5.0		5.0		ug/L			11/25/12 18:17	10
1,3-Dichloropropane	<5.0		5.0		ug/L			11/25/12 18:17	10
2,2-Dichloropropane	<5.0		5.0		ug/L			11/25/12 18:17	10
1,1-Dichloropropene	<5.0		5.0		ug/L			11/25/12 18:17	10
Ethylbenzene	<5.0		5.0		ug/L			11/25/12 18:17	10
Methylene Chloride	<5.0		5.0		ug/L			11/25/12 18:17	10
Methyl tert-butyl ether	<5.0		5.0		ug/L			11/25/12 18:17	10
m-Xylene & p-Xylene	<5.0		5.0		ug/L			11/25/12 18:17	10
o-Xylene	<5.0		5.0		ug/L			11/25/12 18:17	10
Styrene	<5.0		5.0		ug/L			11/25/12 18:17	10
1,1,1,2-Tetrachloroethane	<5.0		5.0		ug/L			11/25/12 18:17	10
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			11/25/12 18:17	10
Tetrachloroethene	<5.0		5.0		ug/L			11/25/12 18:17	10
Toluene	<5.0		5.0		ug/L			11/25/12 18:17	10
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			11/25/12 18:17	10
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			11/25/12 18:17	10
1,2,4-Trichlorobenzene	<5.0		5.0		ug/L			11/25/12 18:17	10
1,1,1-Trichloroethane	**220**		5.0		ug/L			11/25/12 18:17	10
1,1,2-Trichloroethane	<5.0		5.0		ug/L			11/25/12 18:17	10
Trichloroethene	**19**		5.0		ug/L			11/25/12 18:17	10
1,2,3-Trichloropropane	<5.0		5.0		ug/L			11/25/12 18:17	10
Vinyl chloride	<5.0		5.0		ug/L			11/25/12 18:17	10
Xylenes, Total	<5.0		5.0		ug/L			11/25/12 18:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 130*		*11/25/12 18:17*	*10*
1,2-Dichlorobenzene-d4	*99*		*70 - 130*		*11/25/12 18:17*	*10*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: MW07D-111312

Lab Sample ID: 680-84864-4

Date Collected: 11/13/12 13:05

Matrix: Water

Date Received: 11/15/12 09:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50		ug/L			11/21/12 15:42	1
Bromobenzene	<0.50		0.50		ug/L			11/21/12 15:42	1
Bromoform	<0.50		0.50		ug/L			11/21/12 15:42	1
Bromomethane	<1.0		1.0		ug/L			11/21/12 15:42	1
Carbon tetrachloride	<0.50		0.50		ug/L			11/21/12 15:42	1
Chlorobenzene	<0.50		0.50		ug/L			11/21/12 15:42	1
Chlorodibromomethane	<0.50		0.50		ug/L			11/21/12 15:42	1
Chloroethane	<1.0		1.0		ug/L			11/21/12 15:42	1
Chloroform	<0.50		0.50		ug/L			11/21/12 15:42	1
Chloromethane	<0.50		0.50		ug/L			11/21/12 15:42	1
2-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 15:42	1
4-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 15:42	1
cis-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 15:42	1
cis-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 15:42	1
Dibromomethane	<0.50		0.50		ug/L			11/21/12 15:42	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 15:42	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 15:42	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 15:42	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/21/12 15:42	1
1,1-Dichloroethane	<0.50		0.50		ug/L			11/21/12 15:42	1
1,2-Dichloroethane	<0.50		0.50		ug/L			11/21/12 15:42	1
1,1-Dichloroethene	<0.50		0.50		ug/L			11/21/12 15:42	1
1,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 15:42	1
1,3-Dichloropropane	<0.50		0.50		ug/L			11/21/12 15:42	1
2,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 15:42	1
1,1-Dichloropropene	<0.50		0.50		ug/L			11/21/12 15:42	1
Ethylbenzene	<0.50		0.50		ug/L			11/21/12 15:42	1
Methylene Chloride	<0.50		0.50		ug/L			11/21/12 15:42	1
Methyl tert-butyl ether	<0.50		0.50		ug/L			11/21/12 15:42	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			11/21/12 15:42	1
o-Xylene	<0.50		0.50		ug/L			11/21/12 15:42	1
Styrene	<0.50		0.50		ug/L			11/21/12 15:42	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 15:42	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 15:42	1
Tetrachloroethene	<0.50		0.50		ug/L			11/21/12 15:42	1
Toluene	<0.50		0.50		ug/L			11/21/12 15:42	1
trans-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 15:42	1
trans-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 15:42	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			11/21/12 15:42	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			11/21/12 15:42	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			11/21/12 15:42	1
Trichloroethene	<0.50		0.50		ug/L			11/21/12 15:42	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			11/21/12 15:42	1
Vinyl chloride	<0.50		0.50		ug/L			11/21/12 15:42	1
Xylenes, Total	<0.50		0.50		ug/L			11/21/12 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*11/21/12 15:42*	*1*
1,2-Dichlorobenzene-d4	*88*		*70 - 130*		*11/21/12 15:42*	*1*

TestAmerica Savannah

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: MW08-111312

Lab Sample ID: 680-84864-5

Date Collected: 11/13/12 15:58

Matrix: Water

Date Received: 11/15/12 09:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.5		2.5		ug/L			11/25/12 18:44	5
Bromobenzene	<2.5		2.5		ug/L			11/25/12 18:44	5
Bromoform	<2.5		2.5		ug/L			11/25/12 18:44	5
Bromomethane	<5.0		5.0		ug/L			11/25/12 18:44	5
Carbon tetrachloride	<2.5		2.5		ug/L			11/25/12 18:44	5
Chlorobenzene	<2.5		2.5		ug/L			11/25/12 18:44	5
Chlorodibromomethane	<2.5		2.5		ug/L			11/25/12 18:44	5
Chloroethane	<5.0		5.0		ug/L			11/25/12 18:44	5
Chloroform	<2.5		2.5		ug/L			11/25/12 18:44	5
Chloromethane	<2.5		2.5		ug/L			11/25/12 18:44	5
2-Chlorotoluene	<2.5		2.5		ug/L			11/25/12 18:44	5
4-Chlorotoluene	<2.5		2.5		ug/L			11/25/12 18:44	5
cis-1,2-Dichloroethene	**70**		2.5		ug/L			11/25/12 18:44	5
cis-1,3-Dichloropropene	<2.5		2.5		ug/L			11/25/12 18:44	5
Dibromomethane	<2.5		2.5		ug/L			11/25/12 18:44	5
1,2-Dichlorobenzene	<2.5		2.5		ug/L			11/25/12 18:44	5
1,3-Dichlorobenzene	<2.5		2.5		ug/L			11/25/12 18:44	5
1,4-Dichlorobenzene	<2.5		2.5		ug/L			11/25/12 18:44	5
Dichlorobromomethane	<5.0		5.0		ug/L			11/25/12 18:44	5
1,1-Dichloroethane	**4.4**		2.5		ug/L			11/25/12 18:44	5
1,2-Dichloroethane	<2.5		2.5		ug/L			11/25/12 18:44	5
1,1-Dichloroethene	<2.5		2.5		ug/L			11/25/12 18:44	5
1,2-Dichloropropane	<2.5		2.5		ug/L			11/25/12 18:44	5
1,3-Dichloropropane	<2.5		2.5		ug/L			11/25/12 18:44	5
2,2-Dichloropropane	<2.5		2.5		ug/L			11/25/12 18:44	5
1,1-Dichloropropene	<2.5		2.5		ug/L			11/25/12 18:44	5
Ethylbenzene	<2.5		2.5		ug/L			11/25/12 18:44	5
Methylene Chloride	<2.5		2.5		ug/L			11/25/12 18:44	5
Methyl tert-butyl ether	<2.5		2.5		ug/L			11/25/12 18:44	5
m-Xylene & p-Xylene	<2.5		2.5		ug/L			11/25/12 18:44	5
o-Xylene	<2.5		2.5		ug/L			11/25/12 18:44	5
Styrene	<2.5		2.5		ug/L			11/25/12 18:44	5
1,1,1,2-Tetrachloroethane	<2.5		2.5		ug/L			11/25/12 18:44	5
1,1,2,2-Tetrachloroethane	<2.5		2.5		ug/L			11/25/12 18:44	5
Tetrachloroethene	<2.5		2.5		ug/L			11/25/12 18:44	5
Toluene	<2.5		2.5		ug/L			11/25/12 18:44	5
trans-1,2-Dichloroethene	**8.2**		2.5		ug/L			11/25/12 18:44	5
trans-1,3-Dichloropropene	<2.5		2.5		ug/L			11/25/12 18:44	5
1,2,4-Trichlorobenzene	<2.5		2.5		ug/L			11/25/12 18:44	5
1,1,1-Trichloroethane	<2.5		2.5		ug/L			11/25/12 18:44	5
1,1,2-Trichloroethane	<2.5		2.5		ug/L			11/25/12 18:44	5
Trichloroethene	<2.5		2.5		ug/L			11/25/12 18:44	5
1,2,3-Trichloropropane	<2.5		2.5		ug/L			11/25/12 18:44	5
Vinyl chloride	<2.5		2.5		ug/L			11/25/12 18:44	5
Xylenes, Total	<2.5		2.5		ug/L			11/25/12 18:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 130*		*11/25/12 18:44*	*5*
1,2-Dichlorobenzene-d4	*95*		*70 - 130*		*11/25/12 18:44*	*5*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: MWP1-111312

Date Collected: 11/13/12 10:22
Date Received: 11/15/12 09:45

Lab Sample ID: 680-84864-6

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.5		2.5		ug/L			11/25/12 19:11	5
Bromobenzene	<2.5		2.5		ug/L			11/25/12 19:11	5
Bromoform	<2.5		2.5		ug/L			11/25/12 19:11	5
Bromomethane	<5.0		5.0		ug/L			11/25/12 19:11	5
Carbon tetrachloride	<2.5		2.5		ug/L			11/25/12 19:11	5
Chlorobenzene	<2.5		2.5		ug/L			11/25/12 19:11	5
Chlorodibromomethane	<2.5		2.5		ug/L			11/25/12 19:11	5
Chloroethane	<5.0		5.0		ug/L			11/25/12 19:11	5
Chloroform	<2.5		2.5		ug/L			11/25/12 19:11	5
Chloromethane	<2.5		2.5		ug/L			11/25/12 19:11	5
2-Chlorotoluene	<2.5		2.5		ug/L			11/25/12 19:11	5
4-Chlorotoluene	<2.5		2.5		ug/L			11/25/12 19:11	5
cis-1,2-Dichloroethene	<2.5		2.5		ug/L			11/25/12 19:11	5
cis-1,3-Dichloropropene	<2.5		2.5		ug/L			11/25/12 19:11	5
Dibromomethane	<2.5		2.5		ug/L			11/25/12 19:11	5
1,2-Dichlorobenzene	<2.5		2.5		ug/L			11/25/12 19:11	5
1,3-Dichlorobenzene	<2.5		2.5		ug/L			11/25/12 19:11	5
1,4-Dichlorobenzene	<2.5		2.5		ug/L			11/25/12 19:11	5
Dichlorobromomethane	<5.0		5.0		ug/L			11/25/12 19:11	5
1,1-Dichloroethane	<2.5		2.5		ug/L			11/25/12 19:11	5
1,2-Dichloroethane	<2.5		2.5		ug/L			11/25/12 19:11	5
1,1-Dichloroethene	<2.5		2.5		ug/L			11/25/12 19:11	5
1,2-Dichloropropane	<2.5		2.5		ug/L			11/25/12 19:11	5
1,3-Dichloropropane	<2.5		2.5		ug/L			11/25/12 19:11	5
2,2-Dichloropropane	<2.5		2.5		ug/L			11/25/12 19:11	5
1,1-Dichloropropene	<2.5		2.5		ug/L			11/25/12 19:11	5
Ethylbenzene	<2.5		2.5		ug/L			11/25/12 19:11	5
Methylene Chloride	<2.5		2.5		ug/L			11/25/12 19:11	5
Methyl tert-butyl ether	<2.5		2.5		ug/L			11/25/12 19:11	5
m-Xylene & p-Xylene	<2.5		2.5		ug/L			11/25/12 19:11	5
o-Xylene	<2.5		2.5		ug/L			11/25/12 19:11	5
Styrene	<2.5		2.5		ug/L			11/25/12 19:11	5
1,1,1,2-Tetrachloroethane	<2.5		2.5		ug/L			11/25/12 19:11	5
1,1,2,2-Tetrachloroethane	<2.5		2.5		ug/L			11/25/12 19:11	5
Tetrachloroethene	**63**		2.5		ug/L			11/25/12 19:11	5
Toluene	<2.5		2.5		ug/L			11/25/12 19:11	5
trans-1,2-Dichloroethene	<2.5		2.5		ug/L			11/25/12 19:11	5
trans-1,3-Dichloropropene	<2.5		2.5		ug/L			11/25/12 19:11	5
1,2,4-Trichlorobenzene	<2.5		2.5		ug/L			11/25/12 19:11	5
1,1,1-Trichloroethane	**27**		2.5		ug/L			11/25/12 19:11	5
1,1,2-Trichloroethane	<2.5		2.5		ug/L			11/25/12 19:11	5
Trichloroethene	**34**		2.5		ug/L			11/25/12 19:11	5
1,2,3-Trichloropropane	<2.5		2.5		ug/L			11/25/12 19:11	5
Vinyl chloride	<2.5		2.5		ug/L			11/25/12 19:11	5
Xylenes, Total	<2.5		2.5		ug/L			11/25/12 19:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*70 - 130*		*11/25/12 19:11*	*5*
1,2-Dichlorobenzene-d4	*102*		*70 - 130*		*11/25/12 19:11*	*5*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: GSSMW08-111312

Lab Sample ID: 680-84864-7

Date Collected: 11/13/12 14:22

Matrix: Water

Date Received: 11/15/12 09:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50		ug/L			11/21/12 17:02	1
Bromobenzene	<0.50		0.50		ug/L			11/21/12 17:02	1
Bromoform	<0.50		0.50		ug/L			11/21/12 17:02	1
Bromomethane	<1.0		1.0		ug/L			11/21/12 17:02	1
Carbon tetrachloride	<0.50		0.50		ug/L			11/21/12 17:02	1
Chlorobenzene	<0.50		0.50		ug/L			11/21/12 17:02	1
Chlorodibromomethane	<0.50		0.50		ug/L			11/21/12 17:02	1
Chloroethane	<1.0		1.0		ug/L			11/21/12 17:02	1
Chloroform	<0.50		0.50		ug/L			11/21/12 17:02	1
Chloromethane	<0.50		0.50		ug/L			11/21/12 17:02	1
2-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 17:02	1
4-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 17:02	1
cis-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 17:02	1
cis-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 17:02	1
Dibromomethane	<0.50		0.50		ug/L			11/21/12 17:02	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:02	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:02	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:02	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/21/12 17:02	1
1,1-Dichloroethane	<0.50		0.50		ug/L			11/21/12 17:02	1
1,2-Dichloroethane	<0.50		0.50		ug/L			11/21/12 17:02	1
1,1-Dichloroethene	<0.50		0.50		ug/L			11/21/12 17:02	1
1,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 17:02	1
1,3-Dichloropropane	<0.50		0.50		ug/L			11/21/12 17:02	1
2,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 17:02	1
1,1-Dichloropropene	<0.50		0.50		ug/L			11/21/12 17:02	1
Ethylbenzene	<0.50		0.50		ug/L			11/21/12 17:02	1
Methylene Chloride	<0.50		0.50		ug/L			11/21/12 17:02	1
Methyl tert-butyl ether	<0.50		0.50		ug/L			11/21/12 17:02	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			11/21/12 17:02	1
o-Xylene	<0.50		0.50		ug/L			11/21/12 17:02	1
Styrene	<0.50		0.50		ug/L			11/21/12 17:02	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 17:02	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 17:02	1
Tetrachloroethene	<0.50		0.50		ug/L			11/21/12 17:02	1
Toluene	<0.50		0.50		ug/L			11/21/12 17:02	1
trans-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 17:02	1
trans-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 17:02	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:02	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			11/21/12 17:02	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			11/21/12 17:02	1
Trichloroethene	<0.50		0.50		ug/L			11/21/12 17:02	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			11/21/12 17:02	1
Vinyl chloride	<0.50		0.50		ug/L			11/21/12 17:02	1
Xylenes, Total	<0.50		0.50		ug/L			11/21/12 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*70 - 130*		*11/21/12 17:02*	*1*
1,2-Dichlorobenzene-d4	*85*		*70 - 130*		*11/21/12 17:02*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: GSSMW09-111312

Lab Sample ID: 680-84864-8

Date Collected: 11/13/12 11:54

Matrix: Water

Date Received: 11/15/12 09:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50		ug/L			11/21/12 17:29	1
Bromobenzene	<0.50		0.50		ug/L			11/21/12 17:29	1
Bromoform	<0.50		0.50		ug/L			11/21/12 17:29	1
Bromomethane	<1.0		1.0		ug/L			11/21/12 17:29	1
Carbon tetrachloride	<0.50		0.50		ug/L			11/21/12 17:29	1
Chlorobenzene	<0.50		0.50		ug/L			11/21/12 17:29	1
Chlorodibromomethane	<0.50		0.50		ug/L			11/21/12 17:29	1
Chloroethane	<1.0		1.0		ug/L			11/21/12 17:29	1
Chloroform	<0.50		0.50		ug/L			11/21/12 17:29	1
Chloromethane	<0.50		0.50		ug/L			11/21/12 17:29	1
2-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 17:29	1
4-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 17:29	1
cis-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 17:29	1
cis-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 17:29	1
Dibromomethane	<0.50		0.50		ug/L			11/21/12 17:29	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:29	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:29	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:29	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/21/12 17:29	1
1,1-Dichloroethane	<0.50		0.50		ug/L			11/21/12 17:29	1
1,2-Dichloroethane	<0.50		0.50		ug/L			11/21/12 17:29	1
1,1-Dichloroethene	<0.50		0.50		ug/L			11/21/12 17:29	1
1,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 17:29	1
1,3-Dichloropropane	<0.50		0.50		ug/L			11/21/12 17:29	1
2,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 17:29	1
1,1-Dichloropropene	<0.50		0.50		ug/L			11/21/12 17:29	1
Ethylbenzene	<0.50		0.50		ug/L			11/21/12 17:29	1
Methylene Chloride	<0.50		0.50		ug/L			11/21/12 17:29	1
Methyl tert-butyl ether	<0.50		0.50		ug/L			11/21/12 17:29	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			11/21/12 17:29	1
o-Xylene	<0.50		0.50		ug/L			11/21/12 17:29	1
Styrene	<0.50		0.50		ug/L			11/21/12 17:29	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 17:29	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 17:29	1
Tetrachloroethene	<0.50		0.50		ug/L			11/21/12 17:29	1
Toluene	<0.50		0.50		ug/L			11/21/12 17:29	1
trans-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 17:29	1
trans-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 17:29	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:29	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			11/21/12 17:29	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			11/21/12 17:29	1
Trichloroethene	<0.50		0.50		ug/L			11/21/12 17:29	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			11/21/12 17:29	1
Vinyl chloride	<0.50		0.50		ug/L			11/21/12 17:29	1
Xylenes, Total	<0.50		0.50		ug/L			11/21/12 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*11/21/12 17:29*	*1*
1,2-Dichlorobenzene-d4	*89*		*70 - 130*		*11/21/12 17:29*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: GSSMW15-111412

Lab Sample ID: 680-84864-9

Date Collected: 11/14/12 09:18

Matrix: Water

Date Received: 11/15/12 09:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50		ug/L			11/21/12 17:55	1
Bromobenzene	<0.50		0.50		ug/L			11/21/12 17:55	1
Bromoform	<0.50		0.50		ug/L			11/21/12 17:55	1
Bromomethane	<1.0		1.0		ug/L			11/21/12 17:55	1
Carbon tetrachloride	<0.50		0.50		ug/L			11/21/12 17:55	1
Chlorobenzene	<0.50		0.50		ug/L			11/21/12 17:55	1
Chlorodibromomethane	<0.50		0.50		ug/L			11/21/12 17:55	1
Chloroethane	<1.0		1.0		ug/L			11/21/12 17:55	1
Chloroform	<0.50		0.50		ug/L			11/21/12 17:55	1
Chloromethane	<0.50		0.50		ug/L			11/21/12 17:55	1
2-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 17:55	1
4-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 17:55	1
cis-1,2-Dichloroethene	**17**		0.50		ug/L			11/21/12 17:55	1
cis-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 17:55	1
Dibromomethane	<0.50		0.50		ug/L			11/21/12 17:55	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:55	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:55	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:55	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/21/12 17:55	1
1,1-Dichloroethane	**3.0**		0.50		ug/L			11/21/12 17:55	1
1,2-Dichloroethane	<0.50		0.50		ug/L			11/21/12 17:55	1
1,1-Dichloroethene	<0.50		0.50		ug/L			11/21/12 17:55	1
1,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 17:55	1
1,3-Dichloropropane	<0.50		0.50		ug/L			11/21/12 17:55	1
2,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 17:55	1
1,1-Dichloropropene	<0.50		0.50		ug/L			11/21/12 17:55	1
Ethylbenzene	<0.50		0.50		ug/L			11/21/12 17:55	1
Methylene Chloride	<0.50		0.50		ug/L			11/21/12 17:55	1
Methyl tert-butyl ether	<0.50		0.50		ug/L			11/21/12 17:55	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			11/21/12 17:55	1
o-Xylene	<0.50		0.50		ug/L			11/21/12 17:55	1
Styrene	<0.50		0.50		ug/L			11/21/12 17:55	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 17:55	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 17:55	1
Tetrachloroethene	**10**		0.50		ug/L			11/21/12 17:55	1
Toluene	<0.50		0.50		ug/L			11/21/12 17:55	1
trans-1,2-Dichloroethene	**0.93**		0.50		ug/L			11/21/12 17:55	1
trans-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 17:55	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			11/21/12 17:55	1
1,1,1-Trichloroethane	**45**		0.50		ug/L			11/21/12 17:55	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			11/21/12 17:55	1
Trichloroethene	**49**		0.50		ug/L			11/21/12 17:55	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			11/21/12 17:55	1
Vinyl chloride	<0.50		0.50		ug/L			11/21/12 17:55	1
Xylenes, Total	<0.50		0.50		ug/L			11/21/12 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*11/21/12 17:55*	*1*
1,2-Dichlorobenzene-d4	*87*		*70 - 130*		*11/21/12 17:55*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: Dupe01-111312

Lab Sample ID: 680-84864-10

Date Collected: 11/13/12 00:00

Matrix: Water

Date Received: 11/15/12 09:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50		ug/L			11/21/12 18:22	1
Bromobenzene	<0.50		0.50		ug/L			11/21/12 18:22	1
Bromoform	<0.50		0.50		ug/L			11/21/12 18:22	1
Bromomethane	<1.0		1.0		ug/L			11/21/12 18:22	1
Carbon tetrachloride	<0.50		0.50		ug/L			11/21/12 18:22	1
Chlorobenzene	<0.50		0.50		ug/L			11/21/12 18:22	1
Chlorodibromomethane	<0.50		0.50		ug/L			11/21/12 18:22	1
Chloroethane	<1.0		1.0		ug/L			11/21/12 18:22	1
Chloroform	<0.50		0.50		ug/L			11/21/12 18:22	1
Chloromethane	<0.50		0.50		ug/L			11/21/12 18:22	1
2-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 18:22	1
4-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 18:22	1
cis-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 18:22	1
cis-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 18:22	1
Dibromomethane	<0.50		0.50		ug/L			11/21/12 18:22	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 18:22	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 18:22	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 18:22	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/21/12 18:22	1
1,1-Dichloroethane	<0.50		0.50		ug/L			11/21/12 18:22	1
1,2-Dichloroethane	<0.50		0.50		ug/L			11/21/12 18:22	1
1,1-Dichloroethene	<0.50		0.50		ug/L			11/21/12 18:22	1
1,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 18:22	1
1,3-Dichloropropane	<0.50		0.50		ug/L			11/21/12 18:22	1
2,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 18:22	1
1,1-Dichloropropene	<0.50		0.50		ug/L			11/21/12 18:22	1
Ethylbenzene	<0.50		0.50		ug/L			11/21/12 18:22	1
Methylene Chloride	<0.50		0.50		ug/L			11/21/12 18:22	1
Methyl tert-butyl ether	<0.50		0.50		ug/L			11/21/12 18:22	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			11/21/12 18:22	1
o-Xylene	<0.50		0.50		ug/L			11/21/12 18:22	1
Styrene	<0.50		0.50		ug/L			11/21/12 18:22	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 18:22	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 18:22	1
Tetrachloroethene	<0.50		0.50		ug/L			11/21/12 18:22	1
Toluene	<0.50		0.50		ug/L			11/21/12 18:22	1
trans-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 18:22	1
trans-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 18:22	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			11/21/12 18:22	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			11/21/12 18:22	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			11/21/12 18:22	1
Trichloroethene	<0.50		0.50		ug/L			11/21/12 18:22	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			11/21/12 18:22	1
Vinyl chloride	<0.50		0.50		ug/L			11/21/12 18:22	1
Xylenes, Total	<0.50		0.50		ug/L			11/21/12 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*70 - 130*		*11/21/12 18:22*	*1*
1,2-Dichlorobenzene-d4	*86*		*70 - 130*		*11/21/12 18:22*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: TB-111312

Lab Sample ID: 680-84864-11

Date Collected: 11/13/12 00:00

Matrix: Water

Date Received: 11/15/12 09:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50		ug/L			11/21/12 18:49	1
Bromobenzene	<0.50		0.50		ug/L			11/21/12 18:49	1
Bromoform	<0.50		0.50		ug/L			11/21/12 18:49	1
Bromomethane	<1.0		1.0		ug/L			11/21/12 18:49	1
Carbon tetrachloride	<0.50		0.50		ug/L			11/21/12 18:49	1
Chlorobenzene	<0.50		0.50		ug/L			11/21/12 18:49	1
Chlorodibromomethane	<0.50		0.50		ug/L			11/21/12 18:49	1
Chloroethane	<1.0		1.0		ug/L			11/21/12 18:49	1
Chloroform	<0.50		0.50		ug/L			11/21/12 18:49	1
Chloromethane	<0.50		0.50		ug/L			11/21/12 18:49	1
2-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 18:49	1
4-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 18:49	1
cis-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 18:49	1
cis-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 18:49	1
Dibromomethane	<0.50		0.50		ug/L			11/21/12 18:49	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 18:49	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 18:49	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 18:49	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/21/12 18:49	1
1,1-Dichloroethane	<0.50		0.50		ug/L			11/21/12 18:49	1
1,2-Dichloroethane	<0.50		0.50		ug/L			11/21/12 18:49	1
1,1-Dichloroethene	<0.50		0.50		ug/L			11/21/12 18:49	1
1,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 18:49	1
1,3-Dichloropropane	<0.50		0.50		ug/L			11/21/12 18:49	1
2,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 18:49	1
1,1-Dichloropropene	<0.50		0.50		ug/L			11/21/12 18:49	1
Ethylbenzene	<0.50		0.50		ug/L			11/21/12 18:49	1
Methylene Chloride	<0.50		0.50		ug/L			11/21/12 18:49	1
Methyl tert-butyl ether	<0.50		0.50		ug/L			11/21/12 18:49	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			11/21/12 18:49	1
o-Xylene	<0.50		0.50		ug/L			11/21/12 18:49	1
Styrene	<0.50		0.50		ug/L			11/21/12 18:49	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 18:49	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 18:49	1
Tetrachloroethene	<0.50		0.50		ug/L			11/21/12 18:49	1
Toluene	<0.50		0.50		ug/L			11/21/12 18:49	1
trans-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 18:49	1
trans-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 18:49	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			11/21/12 18:49	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			11/21/12 18:49	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			11/21/12 18:49	1
Trichloroethene	<0.50		0.50		ug/L			11/21/12 18:49	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			11/21/12 18:49	1
Vinyl chloride	<0.50		0.50		ug/L			11/21/12 18:49	1
Xylenes, Total	<0.50		0.50		ug/L			11/21/12 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*70 - 130*		*11/21/12 18:49*	*1*
1,2-Dichlorobenzene-d4	*86*		*70 - 130*		*11/21/12 18:49*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: EB-111412

Lab Sample ID: 680-84864-12

Date Collected: 11/14/12 13:25

Matrix: Water

Date Received: 11/15/12 09:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50		ug/L			11/21/12 19:15	1
Bromobenzene	<0.50		0.50		ug/L			11/21/12 19:15	1
Bromoform	<0.50		0.50		ug/L			11/21/12 19:15	1
Bromomethane	<1.0		1.0		ug/L			11/21/12 19:15	1
Carbon tetrachloride	<0.50		0.50		ug/L			11/21/12 19:15	1
Chlorobenzene	<0.50		0.50		ug/L			11/21/12 19:15	1
Chlorodibromomethane	<0.50		0.50		ug/L			11/21/12 19:15	1
Chloroethane	<1.0		1.0		ug/L			11/21/12 19:15	1
Chloroform	<0.50		0.50		ug/L			11/21/12 19:15	1
Chloromethane	<0.50		0.50		ug/L			11/21/12 19:15	1
2-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 19:15	1
4-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 19:15	1
cis-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 19:15	1
cis-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 19:15	1
Dibromomethane	<0.50		0.50		ug/L			11/21/12 19:15	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 19:15	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 19:15	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 19:15	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/21/12 19:15	1
1,1-Dichloroethane	<0.50		0.50		ug/L			11/21/12 19:15	1
1,2-Dichloroethane	<0.50		0.50		ug/L			11/21/12 19:15	1
1,1-Dichloroethene	<0.50		0.50		ug/L			11/21/12 19:15	1
1,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 19:15	1
1,3-Dichloropropane	<0.50		0.50		ug/L			11/21/12 19:15	1
2,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 19:15	1
1,1-Dichloropropene	<0.50		0.50		ug/L			11/21/12 19:15	1
Ethylbenzene	<0.50		0.50		ug/L			11/21/12 19:15	1
Methylene Chloride	<0.50		0.50		ug/L			11/21/12 19:15	1
Methyl tert-butyl ether	<0.50		0.50		ug/L			11/21/12 19:15	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			11/21/12 19:15	1
o-Xylene	<0.50		0.50		ug/L			11/21/12 19:15	1
Styrene	<0.50		0.50		ug/L			11/21/12 19:15	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 19:15	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 19:15	1
Tetrachloroethene	<0.50		0.50		ug/L			11/21/12 19:15	1
Toluene	<0.50		0.50		ug/L			11/21/12 19:15	1
trans-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 19:15	1
trans-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 19:15	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			11/21/12 19:15	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			11/21/12 19:15	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			11/21/12 19:15	1
Trichloroethene	<0.50		0.50		ug/L			11/21/12 19:15	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			11/21/12 19:15	1
Vinyl chloride	<0.50		0.50		ug/L			11/21/12 19:15	1
Xylenes, Total	<0.50		0.50		ug/L			11/21/12 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*70 - 130*		*11/21/12 19:15*	*1*
1,2-Dichlorobenzene-d4	*89*		*70 - 130*		*11/21/12 19:15*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-257273/6
Matrix: Water
Analysis Batch: 257273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50		ug/L			11/21/12 09:48	1
Bromobenzene	<0.50		0.50		ug/L			11/21/12 09:48	1
Bromoform	<0.50		0.50		ug/L			11/21/12 09:48	1
Bromomethane	<1.0		1.0		ug/L			11/21/12 09:48	1
Carbon tetrachloride	<0.50		0.50		ug/L			11/21/12 09:48	1
Chlorobenzene	<0.50		0.50		ug/L			11/21/12 09:48	1
Chlorodibromomethane	<0.50		0.50		ug/L			11/21/12 09:48	1
Chloroethane	<1.0		1.0		ug/L			11/21/12 09:48	1
Chloroform	<0.50		0.50		ug/L			11/21/12 09:48	1
Chloromethane	<0.50		0.50		ug/L			11/21/12 09:48	1
2-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 09:48	1
4-Chlorotoluene	<0.50		0.50		ug/L			11/21/12 09:48	1
cis-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 09:48	1
cis-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 09:48	1
Dibromomethane	<0.50		0.50		ug/L			11/21/12 09:48	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 09:48	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 09:48	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			11/21/12 09:48	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/21/12 09:48	1
1,1-Dichloroethane	<0.50		0.50		ug/L			11/21/12 09:48	1
1,2-Dichloroethane	<0.50		0.50		ug/L			11/21/12 09:48	1
1,1-Dichloroethene	<0.50		0.50		ug/L			11/21/12 09:48	1
1,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 09:48	1
1,3-Dichloropropane	<0.50		0.50		ug/L			11/21/12 09:48	1
2,2-Dichloropropane	<0.50		0.50		ug/L			11/21/12 09:48	1
1,1-Dichloropropene	<0.50		0.50		ug/L			11/21/12 09:48	1
Ethylbenzene	<0.50		0.50		ug/L			11/21/12 09:48	1
Methylene Chloride	<0.50		0.50		ug/L			11/21/12 09:48	1
Methyl tert-butyl ether	<0.50		0.50		ug/L			11/21/12 09:48	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			11/21/12 09:48	1
o-Xylene	<0.50		0.50		ug/L			11/21/12 09:48	1
Styrene	<0.50		0.50		ug/L			11/21/12 09:48	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 09:48	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			11/21/12 09:48	1
Tetrachloroethene	<0.50		0.50		ug/L			11/21/12 09:48	1
Toluene	<0.50		0.50		ug/L			11/21/12 09:48	1
trans-1,2-Dichloroethene	<0.50		0.50		ug/L			11/21/12 09:48	1
trans-1,3-Dichloropropene	<0.50		0.50		ug/L			11/21/12 09:48	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			11/21/12 09:48	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			11/21/12 09:48	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			11/21/12 09:48	1
Trichloroethene	<0.50		0.50		ug/L			11/21/12 09:48	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			11/21/12 09:48	1
Vinyl chloride	<0.50		0.50		ug/L			11/21/12 09:48	1
Xylenes, Total	<0.50		0.50		ug/L			11/21/12 09:48	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-257273/6
Matrix: Water
Analysis Batch: 257273

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 130		11/21/12 09:48	1
1,2-Dichlorobenzene-d4	91		70 - 130		11/21/12 09:48	1

Lab Sample ID: LCS 680-257273/3
Matrix: Water
Analysis Batch: 257273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.0		ug/L		100	70 - 130
Bromobenzene	20.0	20.5		ug/L		102	70 - 130
Bromoform	20.0	19.3		ug/L		96	70 - 130
Bromomethane	20.0	19.2		ug/L		96	70 - 130
Carbon tetrachloride	20.0	20.7		ug/L		103	70 - 130
Chlorobenzene	20.0	19.3		ug/L		97	70 - 130
Chlorodibromomethane	20.0	20.6		ug/L		103	70 - 130
Chloroethane	20.0	18.9		ug/L		95	70 - 130
Chloroform	20.0	19.7		ug/L		98	70 - 130
Chloromethane	20.0	17.1		ug/L		86	70 - 130
2-Chlorotoluene	20.0	21.0		ug/L		105	70 - 130
4-Chlorotoluene	20.0	20.8		ug/L		104	70 - 130
cis-1,2-Dichloroethene	20.0	19.3		ug/L		96	70 - 130
cis-1,3-Dichloropropene	20.0	22.0		ug/L		110	70 - 130
Dibromomethane	20.0	20.1		ug/L		101	70 - 130
1,2-Dichlorobenzene	20.0	20.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	20.0	20.1		ug/L		101	70 - 130
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	70 - 130
Dichlorobromomethane	20.0	17.9		ug/L		89	70 - 130
1,1-Dichloroethane	20.0	19.4		ug/L		97	70 - 130
1,2-Dichloroethane	20.0	20.5		ug/L		102	70 - 130
1,1-Dichloroethene	20.0	19.1		ug/L		96	70 - 130
1,2-Dichloropropane	20.0	19.4		ug/L		97	70 - 130
1,3-Dichloropropane	20.0	19.7		ug/L		99	70 - 130
2,2-Dichloropropane	20.0	20.3		ug/L		101	70 - 130
1,1-Dichloropropene	20.0	19.9		ug/L		99	70 - 130
Ethylbenzene	20.0	20.1		ug/L		101	70 - 130
Methylene Chloride	20.0	19.5		ug/L		97	70 - 130
Methyl tert-butyl ether	16.0	16.6		ug/L		104	70 - 130
m-Xylene & p-Xylene	40.0	41.1		ug/L		103	70 - 130
o-Xylene	20.0	20.9		ug/L		105	70 - 130
Styrene	20.0	22.3		ug/L		112	70 - 130
1,1,1,2-Tetrachloroethane	20.0	20.5		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/L		96	70 - 130
Tetrachloroethene	20.0	19.4		ug/L		97	70 - 130
Toluene	20.0	19.9		ug/L		99	70 - 130
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	70 - 130
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	20.0	19.1		ug/L		96	70 - 130
1,1,1-Trichloroethane	20.0	19.7		ug/L		98	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-257273/3
Matrix: Water
Analysis Batch: 257273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	21.1		ug/L		106	70 - 130
Trichloroethene	20.0	19.6		ug/L		98	70 - 130
1,2,3-Trichloropropane	20.0	19.5		ug/L		98	70 - 130
Vinyl chloride	20.0	18.4		ug/L		92	70 - 130
Xylenes, Total	60.0	62.0		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
1,2-Dichlorobenzene-d4	*100*		*70 - 130*

Lab Sample ID: LCSD 680-257273/4
Matrix: Water
Analysis Batch: 257273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	19.5		ug/L		97	70 - 130	3	30
Bromobenzene	20.0	20.4		ug/L		102	70 - 130	0	30
Bromoform	20.0	21.0		ug/L		105	70 - 130	8	30
Bromomethane	20.0	19.4		ug/L		97	70 - 130	1	30
Carbon tetrachloride	20.0	19.7		ug/L		98	70 - 130	5	30
Chlorobenzene	20.0	19.6		ug/L		98	70 - 130	1	30
Chlorodibromomethane	20.0	21.6		ug/L		108	70 - 130	5	30
Chloroethane	20.0	18.9		ug/L		95	70 - 130	0	30
Chloroform	20.0	19.1		ug/L		95	70 - 130	3	30
Chloromethane	20.0	16.5		ug/L		82	70 - 130	4	30
2-Chlorotoluene	20.0	20.2		ug/L		101	70 - 130	4	30
4-Chlorotoluene	20.0	20.4		ug/L		102	70 - 130	2	30
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	70 - 130	0	30
cis-1,3-Dichloropropene	20.0	21.5		ug/L		107	70 - 130	2	30
Dibromomethane	20.0	20.5		ug/L		103	70 - 130	2	30
1,2-Dichlorobenzene	20.0	20.1		ug/L		101	70 - 130	0	30
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	70 - 130	0	30
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	70 - 130	2	30
Dichlorobromomethane	20.0	18.9		ug/L		94	70 - 130	6	30
1,1-Dichloroethane	20.0	19.0		ug/L		95	70 - 130	2	30
1,2-Dichloroethane	20.0	19.8		ug/L		99	70 - 130	3	30
1,1-Dichloroethene	20.0	18.3		ug/L		91	70 - 130	5	30
1,2-Dichloropropane	20.0	19.3		ug/L		96	70 - 130	1	30
1,3-Dichloropropane	20.0	20.4		ug/L		102	70 - 130	3	30
2,2-Dichloropropane	20.0	19.9		ug/L		100	70 - 130	2	30
1,1-Dichloropropene	20.0	19.5		ug/L		97	70 - 130	2	30
Ethylbenzene	20.0	19.9		ug/L		99	70 - 130	1	30
Methylene Chloride	20.0	19.7		ug/L		98	70 - 130	1	30
Methyl tert-butyl ether	16.0	17.2		ug/L		108	70 - 130	4	30
m-Xylene & p-Xylene	40.0	39.9		ug/L		100	70 - 130	3	30
o-Xylene	20.0	21.3		ug/L		107	70 - 130	2	30
Styrene	20.0	22.9		ug/L		114	70 - 130	2	30
1,1,1,2-Tetrachloroethane	20.0	21.2		ug/L		106	70 - 130	3	30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-257273/4
Matrix: Water
Analysis Batch: 257273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		99	70 - 130	3	30
Tetrachloroethene	20.0	19.3		ug/L		97	70 - 130	1	30
Toluene	20.0	19.9		ug/L		99	70 - 130	0	30
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	70 - 130	3	30
trans-1,3-Dichloropropene	20.0	19.7		ug/L		98	70 - 130	4	30
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	70 - 130	3	30
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	70 - 130	0	30
1,1,2-Trichloroethane	20.0	21.3		ug/L		106	70 - 130	1	30
Trichloroethene	20.0	18.9		ug/L		95	70 - 130	4	30
1,2,3-Trichloropropane	20.0	19.7		ug/L		99	70 - 130	1	30
Vinyl chloride	20.0	17.9		ug/L		90	70 - 130	3	30
Xylenes, Total	60.0	61.2		ug/L		102	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*70 - 130*
1,2-Dichlorobenzene-d4	*104*		*70 - 130*

Lab Sample ID: MB 680-257595/6
Matrix: Water
Analysis Batch: 257595

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.50		0.50		ug/L			11/25/12 15:57	1
Bromobenzene	<0.50		0.50		ug/L			11/25/12 15:57	1
Bromoform	<0.50		0.50		ug/L			11/25/12 15:57	1
Bromomethane	<1.0		1.0		ug/L			11/25/12 15:57	1
Carbon tetrachloride	<0.50		0.50		ug/L			11/25/12 15:57	1
Chlorobenzene	<0.50		0.50		ug/L			11/25/12 15:57	1
Chlorodibromomethane	<0.50		0.50		ug/L			11/25/12 15:57	1
Chloroethane	<1.0		1.0		ug/L			11/25/12 15:57	1
Chloroform	<0.50		0.50		ug/L			11/25/12 15:57	1
Chloromethane	<0.50		0.50		ug/L			11/25/12 15:57	1
2-Chlorotoluene	<0.50		0.50		ug/L			11/25/12 15:57	1
4-Chlorotoluene	<0.50		0.50		ug/L			11/25/12 15:57	1
cis-1,2-Dichloroethene	<0.50		0.50		ug/L			11/25/12 15:57	1
cis-1,3-Dichloropropene	<0.50		0.50		ug/L			11/25/12 15:57	1
Dibromomethane	<0.50		0.50		ug/L			11/25/12 15:57	1
1,2-Dichlorobenzene	<0.50		0.50		ug/L			11/25/12 15:57	1
1,3-Dichlorobenzene	<0.50		0.50		ug/L			11/25/12 15:57	1
1,4-Dichlorobenzene	<0.50		0.50		ug/L			11/25/12 15:57	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/25/12 15:57	1
1,1-Dichloroethane	<0.50		0.50		ug/L			11/25/12 15:57	1
1,2-Dichloroethane	<0.50		0.50		ug/L			11/25/12 15:57	1
1,1-Dichloroethene	<0.50		0.50		ug/L			11/25/12 15:57	1
1,2-Dichloropropane	<0.50		0.50		ug/L			11/25/12 15:57	1
1,3-Dichloropropane	<0.50		0.50		ug/L			11/25/12 15:57	1
2,2-Dichloropropane	<0.50		0.50		ug/L			11/25/12 15:57	1
1,1-Dichloropropene	<0.50		0.50		ug/L			11/25/12 15:57	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-257595/6
Matrix: Water
Analysis Batch: 257595

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.50		0.50		ug/L			11/25/12 15:57	1
Methylene Chloride	<0.50		0.50		ug/L			11/25/12 15:57	1
Methyl tert-butyl ether	<0.50		0.50		ug/L			11/25/12 15:57	1
m-Xylene & p-Xylene	<0.50		0.50		ug/L			11/25/12 15:57	1
o-Xylene	<0.50		0.50		ug/L			11/25/12 15:57	1
Styrene	<0.50		0.50		ug/L			11/25/12 15:57	1
1,1,1,2-Tetrachloroethane	<0.50		0.50		ug/L			11/25/12 15:57	1
1,1,2,2-Tetrachloroethane	<0.50		0.50		ug/L			11/25/12 15:57	1
Tetrachloroethene	<0.50		0.50		ug/L			11/25/12 15:57	1
Toluene	<0.50		0.50		ug/L			11/25/12 15:57	1
trans-1,2-Dichloroethene	<0.50		0.50		ug/L			11/25/12 15:57	1
trans-1,3-Dichloropropene	<0.50		0.50		ug/L			11/25/12 15:57	1
1,2,4-Trichlorobenzene	<0.50		0.50		ug/L			11/25/12 15:57	1
1,1,1-Trichloroethane	<0.50		0.50		ug/L			11/25/12 15:57	1
1,1,2-Trichloroethane	<0.50		0.50		ug/L			11/25/12 15:57	1
Trichloroethene	<0.50		0.50		ug/L			11/25/12 15:57	1
1,2,3-Trichloropropane	<0.50		0.50		ug/L			11/25/12 15:57	1
Vinyl chloride	<0.50		0.50		ug/L			11/25/12 15:57	1
Xylenes, Total	<0.50		0.50		ug/L			11/25/12 15:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*11/25/12 15:57*	*1*
1,2-Dichlorobenzene-d4	*89*		*70 - 130*		*11/25/12 15:57*	*1*

Lab Sample ID: LCS 680-257595/3
Matrix: Water
Analysis Batch: 257595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.5		ug/L		103	70 - 130
Bromobenzene	20.0	22.2		ug/L		111	70 - 130
Bromoform	20.0	22.3		ug/L		112	70 - 130
Bromomethane	20.0	21.7		ug/L		109	70 - 130
Carbon tetrachloride	20.0	23.3		ug/L		117	70 - 130
Chlorobenzene	20.0	20.9		ug/L		104	70 - 130
Chlorodibromomethane	20.0	21.8		ug/L		109	70 - 130
Chloroethane	20.0	21.1		ug/L		105	70 - 130
Chloroform	20.0	21.5		ug/L		108	70 - 130
Chloromethane	20.0	19.6		ug/L		98	70 - 130
2-Chlorotoluene	20.0	22.4		ug/L		112	70 - 130
4-Chlorotoluene	20.0	22.5		ug/L		113	70 - 130
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	70 - 130
cis-1,3-Dichloropropene	20.0	22.6		ug/L		113	70 - 130
Dibromomethane	20.0	22.0		ug/L		110	70 - 130
1,2-Dichlorobenzene	20.0	21.9		ug/L		109	70 - 130
1,3-Dichlorobenzene	20.0	22.0		ug/L		110	70 - 130
1,4-Dichlorobenzene	20.0	21.8		ug/L		109	70 - 130
Dichlorobromomethane	20.0	20.5		ug/L		103	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-257595/3
Matrix: Water
Analysis Batch: 257595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	20.6		ug/L		103	70 - 130
1,2-Dichloroethane	20.0	23.0		ug/L		115	70 - 130
1,1-Dichloroethene	20.0	21.2		ug/L		106	70 - 130
1,2-Dichloropropane	20.0	20.1		ug/L		101	70 - 130
1,3-Dichloropropane	20.0	21.0		ug/L		105	70 - 130
2,2-Dichloropropane	20.0	23.2		ug/L		116	70 - 130
1,1-Dichloropropene	20.0	21.7		ug/L		108	70 - 130
Ethylbenzene	20.0	21.5		ug/L		107	70 - 130
Methylene Chloride	20.0	20.8		ug/L		104	70 - 130
Methyl tert-butyl ether	16.0	18.3		ug/L		115	70 - 130
m-Xylene & p-Xylene	40.0	43.8		ug/L		109	70 - 130
o-Xylene	20.0	22.9		ug/L		115	70 - 130
Styrene	20.0	23.0		ug/L		115	70 - 130
1,1,1,2-Tetrachloroethane	20.0	22.4		ug/L		112	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/L		98	70 - 130
Tetrachloroethene	20.0	21.2		ug/L		106	70 - 130
Toluene	20.0	21.0		ug/L		105	70 - 130
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	70 - 130
trans-1,3-Dichloropropene	20.0	21.0		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	20.0	20.4		ug/L		102	70 - 130
1,1,1-Trichloroethane	20.0	22.2		ug/L		111	70 - 130
1,1,2-Trichloroethane	20.0	21.1		ug/L		105	70 - 130
Trichloroethene	20.0	20.3		ug/L		102	70 - 130
1,2,3-Trichloropropane	20.0	22.1		ug/L		111	70 - 130
Vinyl chloride	20.0	21.1		ug/L		105	70 - 130
Xylenes, Total	60.0	66.7		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*70 - 130*
1,2-Dichlorobenzene-d4	*109*		*70 - 130*

Lab Sample ID: LCSD 680-257595/4
Matrix: Water
Analysis Batch: 257595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.6		ug/L		103	70 - 130	0	30
Bromobenzene	20.0	21.9		ug/L		109	70 - 130	1	30
Bromoform	20.0	24.4		ug/L		122	70 - 130	9	30
Bromomethane	20.0	23.2		ug/L		116	70 - 130	7	30
Carbon tetrachloride	20.0	24.0		ug/L		120	70 - 130	3	30
Chlorobenzene	20.0	20.9		ug/L		104	70 - 130	0	30
Chlorodibromomethane	20.0	23.1		ug/L		116	70 - 130	6	30
Chloroethane	20.0	21.8		ug/L		109	70 - 130	4	30
Chloroform	20.0	21.6		ug/L		108	70 - 130	1	30
Chloromethane	20.0	19.0		ug/L		95	70 - 130	3	30
2-Chlorotoluene	20.0	22.1		ug/L		111	70 - 130	1	30
4-Chlorotoluene	20.0	21.9		ug/L		110	70 - 130	3	30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-257595/4
Matrix: Water
Analysis Batch: 257595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	20.0	20.9		ug/L		104	70 - 130	5	30
cis-1,3-Dichloropropene	20.0	22.4		ug/L		112	70 - 130	1	30
Dibromomethane	20.0	21.3		ug/L		106	70 - 130	3	30
1,2-Dichlorobenzene	20.0	21.9		ug/L		110	70 - 130	0	30
1,3-Dichlorobenzene	20.0	21.6		ug/L		108	70 - 130	2	30
1,4-Dichlorobenzene	20.0	21.3		ug/L		107	70 - 130	2	30
Dichlorobromomethane	20.0	20.5		ug/L		102	70 - 130	0	30
1,1-Dichloroethane	20.0	20.6		ug/L		103	70 - 130	0	30
1,2-Dichloroethane	20.0	22.6		ug/L		113	70 - 130	2	30
1,1-Dichloroethene	20.0	22.0		ug/L		110	70 - 130	4	30
1,2-Dichloropropane	20.0	20.8		ug/L		104	70 - 130	3	30
1,3-Dichloropropane	20.0	20.5		ug/L		102	70 - 130	3	30
2,2-Dichloropropane	20.0	22.4		ug/L		112	70 - 130	3	30
1,1-Dichloropropene	20.0	22.1		ug/L		110	70 - 130	2	30
Ethylbenzene	20.0	22.0		ug/L		110	70 - 130	2	30
Methylene Chloride	20.0	20.5		ug/L		103	70 - 130	2	30
Methyl tert-butyl ether	16.0	18.2		ug/L		113	70 - 130	1	30
m-Xylene & p-Xylene	40.0	43.5		ug/L		109	70 - 130	1	30
o-Xylene	20.0	22.2		ug/L		111	70 - 130	3	30
Styrene	20.0	23.0		ug/L		115	70 - 130	0	30
1,1,1,2-Tetrachloroethane	20.0	22.8		ug/L		114	70 - 130	2	30
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		99	70 - 130	1	30
Tetrachloroethene	20.0	21.7		ug/L		108	70 - 130	2	30
Toluene	20.0	21.0		ug/L		105	70 - 130	0	30
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	70 - 130	5	30
trans-1,3-Dichloropropene	20.0	21.2		ug/L		106	70 - 130	1	30
1,2,4-Trichlorobenzene	20.0	20.3		ug/L		102	70 - 130	1	30
1,1,1-Trichloroethane	20.0	23.2		ug/L		116	70 - 130	5	30
1,1,2-Trichloroethane	20.0	21.8		ug/L		109	70 - 130	3	30
Trichloroethene	20.0	21.4		ug/L		107	70 - 130	5	30
1,2,3-Trichloropropane	20.0	21.5		ug/L		108	70 - 130	3	30
Vinyl chloride	20.0	21.2		ug/L		106	70 - 130	1	30
Xylenes, Total	60.0	65.6		ug/L		109	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*70 - 130*
1,2-Dichlorobenzene-d4	*112*		*70 - 130*

QC Association Summary

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

GC/MS VOA

Analysis Batch: 257273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-84864-4	MW07D-111312	Total/NA	Water	524.2	
680-84864-7	GSSMW08-111312	Total/NA	Water	524.2	
680-84864-8	GSSMW09-111312	Total/NA	Water	524.2	
680-84864-9	GSSMW15-111412	Total/NA	Water	524.2	
680-84864-10	Dupe01-111312	Total/NA	Water	524.2	
680-84864-11	TB-111312	Total/NA	Water	524.2	
680-84864-12	EB-111412	Total/NA	Water	524.2	
LCS 680-257273/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-257273/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 680-257273/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 257595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-84864-1	MW02D-111412	Total/NA	Water	524.2	
680-84864-2	MW04D-111412	Total/NA	Water	524.2	
680-84864-3	MW06-111412	Total/NA	Water	524.2	
680-84864-5	MW08-111312	Total/NA	Water	524.2	
680-84864-6	MWP1-111312	Total/NA	Water	524.2	
LCS 680-257595/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-257595/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 680-257595/6	Method Blank	Total/NA	Water	524.2	

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: MW02D-111412 — Lab Sample ID: 680-84864-1

Date Collected: 11/14/12 10:40 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		20	257595	11/25/12 17:24	AGM	TAL SAV

Client Sample ID: MW04D-111412 — Lab Sample ID: 680-84864-2

Date Collected: 11/14/12 12:47 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		10	257595	11/25/12 17:50	AGM	TAL SAV

Client Sample ID: MW06-111412 — Lab Sample ID: 680-84864-3

Date Collected: 11/14/12 10:22 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		10	257595	11/25/12 18:17	AGM	TAL SAV

Client Sample ID: MW07D-111312 — Lab Sample ID: 680-84864-4

Date Collected: 11/13/12 13:05 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	257273	11/21/12 15:42	AGM	TAL SAV

Client Sample ID: MW08-111312 — Lab Sample ID: 680-84864-5

Date Collected: 11/13/12 15:58 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		5	257595	11/25/12 18:44	AGM	TAL SAV

Client Sample ID: MWP1-111312 — Lab Sample ID: 680-84864-6

Date Collected: 11/13/12 10:22 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		5	257595	11/25/12 19:11	AGM	TAL SAV

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Client Sample ID: GSSMW08-111312 — Lab Sample ID: 680-84864-7

Date Collected: 11/13/12 14:22 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	257273	11/21/12 17:02	AGM	TAL SAV

Client Sample ID: GSSMW09-111312 — Lab Sample ID: 680-84864-8

Date Collected: 11/13/12 11:54 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	257273	11/21/12 17:29	AGM	TAL SAV

Client Sample ID: GSSMW15-111412 — Lab Sample ID: 680-84864-9

Date Collected: 11/14/12 09:18 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	257273	11/21/12 17:55	AGM	TAL SAV

Client Sample ID: Dupe01-111312 — Lab Sample ID: 680-84864-10

Date Collected: 11/13/12 00:00 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	257273	11/21/12 18:22	AGM	TAL SAV

Client Sample ID: TB-111312 — Lab Sample ID: 680-84864-11

Date Collected: 11/13/12 00:00 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	257273	11/21/12 18:49	AGM	TAL SAV

Client Sample ID: EB-111412 — Lab Sample ID: 680-84864-12

Date Collected: 11/14/12 13:25 — **Matrix: Water**
Date Received: 11/15/12 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	257273	11/21/12 19:15	AGM	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 60398

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Granville Solvents Site		OH
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Ron Roelker	CLIENT PHONE: 513-878-6841	CLIENT FAX: 513-878-6848
CLIENT NAME: AECOM	CLIENT E-MAIL: Ron.Roelker@aecom.com	
CLIENT ADDRESS: 4219 Malsbary Rd., Cincinnati, OH 45242		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOC 524.2	NUMBER OF CONTAINERS SUBMITTED	REMARKS
								HCL Asc. (PRESERVATIVE)		
11/14/12	1040	MW02D - 111412	G	X				3		
	1247	MW04D - 111412		X				3		
	1022	MW06 - 111412		X				3		
11/13/12	1305	MW07D - 111312		X				3		
	1558	MW08 - 111312		X				3		
	1022	MWP1 - 111312		X				3		
	1422	GSSMW08 - 111312		X				3		
	1154	GSSMW09 - 111312		X				3		
11/14/12	0918	GSSMW15 - 111412		X				3		
11/13/12	—	Dupe 01 - 111312		X				3		
11/13/12	—	TB - 111312	—	X				2		
11/14/12	1325	EB - 111412	G	X				3		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	11/14/12	1350						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	11/15/12	0945	YES ○ NO ○		680 84864	2.8°

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 680-84864-1

Login Number: 84864
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Time for sample -1 labels states "1140" but COC reads "1040"
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AECOM, Inc.
Project/Site: Granville Solvents Nov 2012

TestAmerica Job ID: 680-84864-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAC	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAC	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-12
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAC	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAC	6	30690	06-30-13
Louisiana	NELAC	6	LA100015	12-31-12
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAC	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAC	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAC	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
Rhode Island	State Program	1	LAO00244	12-30-12
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAC	6	T104704185-08-TX	11-30-12
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAC	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13