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PRE CAP MONITORING REPORT
SECREST GROCERY
3501 ROCKY RIVER ROAD
MONROE, UNION COUNTY, NORTH CAROLINA
GROUNDWATER INCIDENT No. 6185
SHIELD PROJECT #1010087
September 2011 - April 2012

Responsible Party:	Consultant:	Property Owner(s):
Catawba Oil Company P.O. Box 848 Monroe, NC 28110	Shield Engineering, Inc. 4301 Taggart Creek Road Charlotte, NC 28208	Ivan Secrest 3501 Rocky River Road Monroe, NC 28110 **UST Owner:** Catawba Oil Company
Contact: Mr. Plyler (704) 283-2222	**Contact:** Kyle Hoover (704) 394-6913	**Contact:** Ivan Secrest (704)-283-4651 Eddie Plyler (704) 283-2222

Site Risk Classification: High

Land Use Category: Residential

Site Latitude: 35.0583° North

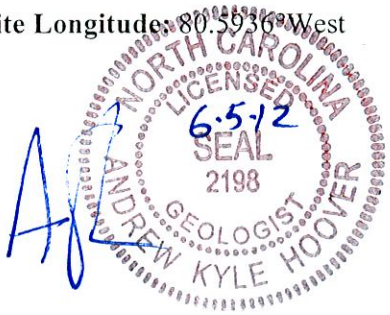
Site Longitude: 80.5936° West

Release Discovered: Four underground storage tanks were removed on April 26, 1989. One monitoring well was installed on April 9, 1990

Quantity Released: Unknown

Suspected Release Source(s): USTs, lines and/or dispensers.

Release Cause: Unknown.



A. Kyle Hoover, P.G., E.I.
Registered, NC #2198
Project Manager

Greg D. Icenhour, P.G.
Registered, NC #883
Principal

May 30, 2011

SHIELD ENGINEERING, INC.

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1.0 DISCUSSION OF SAMPLING RESULTS

1.1 Site Monitoring Requirements:

Site Monitoring Requirements Based on CAP and/or NORR		
Sample Point Type	**Total Quantity of Existing Sample Points and Their Identification**	**Required by NCDENR to be Monitored and Sampled per CAP and/or NORR**
Monitoring Wells	10 (MW-1, MW-1A, MW-2, MW-2A, MW-3, MW-3A, MW-4, MW-4A, MW-6, and MW-7)	5 (MW-1A, MW-2A, MW-3A, MW-4A, and MW-6)
Water Supply Wells	7(1)	3(2) None

NOTES:

(1) Number of wells located within 1,000 feet of site.

(2) Individual wells identified by NCDENR for specific sampling as approved on Pre-Approval Task Authorization 6185-15

Refer to Figures 1 and 2.

1.2 Summary of Analytical Results and Free Product Thickness(s):

1.2.1 Date(s) of Sampling Events: September 28, 2011 and April 25, 2012

1.2.2 Existing Area Receptors:

- Water supply well information verification for each water supply well located within the 1,500 foot radius was requested in the letter dated September 17, 2007 submitted by Edward G. Leach from NCDENR Mooresville Office. Shield Engineering, Inc. submitted the requested water supply well information via facsimile to Mr. Leach on November 5, 2007.

Refer to Figure: This figure is on file at the NCDENR

1.2.3 Groundwater Flow Direction:

- The current groundwater flow direction is to the west. Current Groundwater elevation data is included in the following Table and Figure:

  Refer to Table: Table 1
  Refer to Figure: Figure 3

1.2.4 Free Product:

- Free Product Detected During this Reporting Period?: No

1.2.5 Groundwater Analytical Results:

- Sampled Points and Analytical Methods:

  The following monitoring wells were sampled on September 28, 2011 and April 25, 2012.

Sampled Points and Analytical Methods for this Reporting Period Based on CAP and Pre-Approval Task Authorization Sampling Requirements		
Type	**Points Sampled during this Reporting Period**	**Analytical Method(s)**
Monitoring Wells	(5) Wells (MW-1A, MW-2A, MW-3A, MW-4A and MW-6A)	• EPA Method 6200B
Water Supply Wells	None	• EPA Method 602 (+MTBE, IPE, total xylenes), • EPA Method 601 (1,2-dichloroethane)

NOTES:

- Laboratory Used: Pace Analytical Services, Inc., Huntersville, North Carolina

- Current Groundwater Analytical Data:

  Refer to the following Table and Appendix for current groundwater analytical data.

  Refer to Table: Table 2
  Refer to Appendix: Appendix A

- Historical Groundwater Analytical Data:

  Refer to the following Table for historical groundwater analytical data.

  Refer to Table: Table 2

- Dissolved Phase Plume Size and Location:

  On 9/28/11, Methyl tert butyl ether (MTBE) was detected below the NCAC 2L standards in MW-1A, and MW-3A. Diisopropyl ether (IPE) and 1,2 Dichloroethane (1,2-DCA) were detected below the NCAC 2L standards in MW-3A. A concentration of Tetrachloroethene was detected in MW-6 above the NCAC 2L standard. Tetrachloroethene was not detected in MW-6 until 11/25/09; this constituent is typically associated with dry cleaning or used as a degreaser. There is no identifiable on-site source for this constituent.

  On 4/25/12, MTBE and IPE were detected below the 2L standards in MW-1A and MW-3A. IPE was also detected below the 2L Standard in MW-4A. 1,2-Dichloroethane (1,2-DCA) was detected in MW-3A above the 2L standard. A concentration of Trichloroethene was detected below the NCAC 2L standard in MW-6. Trichloroethene was not detected in MW-6 until 11/25/09; this constituent is typically associated with dry cleaning or used as a degreaser. There is no identifiable on-site source for this constituent.

- Proximity of Plume to Nearest Receptor:

  A tributary is located approximately 600 feet from the former tank pit.

1.2.6 Other Field Data Collected:

- Field data collected during the sampling event is presented on Table 1:

2.0 CONCLUSIONS AND RECOMMENDATIONS

2.1 Progress of Clean-up/Plume Status:

- On 4/25/12 all constituents tested for were below the 2L standards, except 1,2 DCA detected in MW-3A above the NCAC 2L Standard.

Refer to Tables: Table 1 and Table 2

2.2 Recommendations:

Shield recommends that the responsible party continuing to monitor the groundwater at the subject site on a biannual basis.

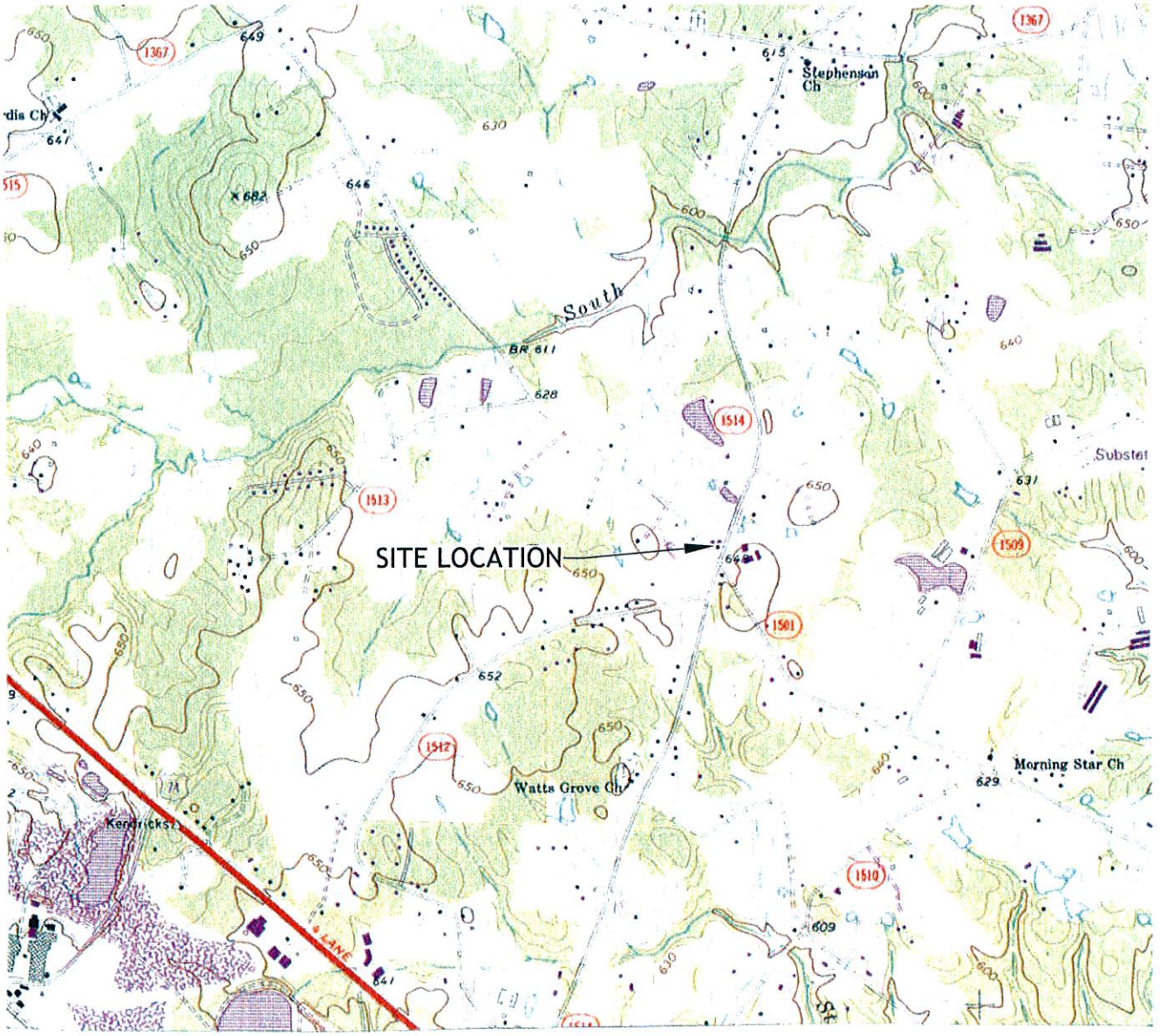
3.0 LIMITATIONS

Shield has performed environmental services at the subject site on behalf of Catawba Oil Company. Shield has performed this scope of work as an independent contractor/consultant using reasonable care and skill in accordance and consistent with customary industry standards of engineering, geology, and hydrogeology practices. This standard of care is the sole and exclusive standard of care that can be applied to measure Shield's performance of the work. No other warranty, expressed or implied, is made or intended by Shield.

Catawba Oil Company has prepared the report for the exclusive use. All recommendations, findings, and conclusions made by Shield have been made to the best of Shield's knowledge, opinion, and belief, based upon information obtained during this scope of work and is limited by the scope nature and type of services as agreed upon between Catawba Oil Company and Shield. Conclusions are provided with the understanding that Shield is presenting information and not rendering legal advice. If such advice is needed, legal counsel should be consulted. It is the responsibility of Catawba Oil Company, under advice of its counsel, to notify the appropriate federal, state, or local public agencies as required by law; or otherwise to disclose in a timely manner, any information that may be necessary to prevent damage to human health, safety, or the environment.

Compliance with recommendations provided as part of this report in no way assures compliance with federal, state, and/or local laws, regulations, and/or requirements. Analytical data has been obtained from Pace Analytical Services, Inc. This information, to the extent that it was relied on to generate this report, is assumed to be correct and complete. The work performed in conjunction with this report and the data developed are intended as a description of available information at the dates and specific locations given. Shield is not responsible for inspecting, examining, or reporting findings or recommendations with respect to any conditions that were knowingly or unknowingly withheld, concealed, hidden, or in any way not disclosed or observable at the time of this scope of work.

FIGURE(S)



SCALE 1:24,000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

5.5° 98 MILS | 0°15' 4 MILS

UTM GRID AND 1987 MAGNETIC NORTH DECLARATION AT CENTER OF SHEET

N.C.

QUADRANGLE LOCATION

BAKERS, NC
35080-A5-TF-024

SHIELD ENGINEERING, INC.
4301 TAGGART CREEK ROAD
CHARLOTTE, NC 28208
704-394-6913
704-394-6968 fax
www.shieldengineering.com

SITE LOCATION MAP

SECREST GROCERY

MONROE, UNION COUNTY, NORTH CAROLINA

SHIELD # 1010087

DATE :	02/08/05	DRAWN BY :	DE
SCALE :	AS SHOWN	FIGURE :	1

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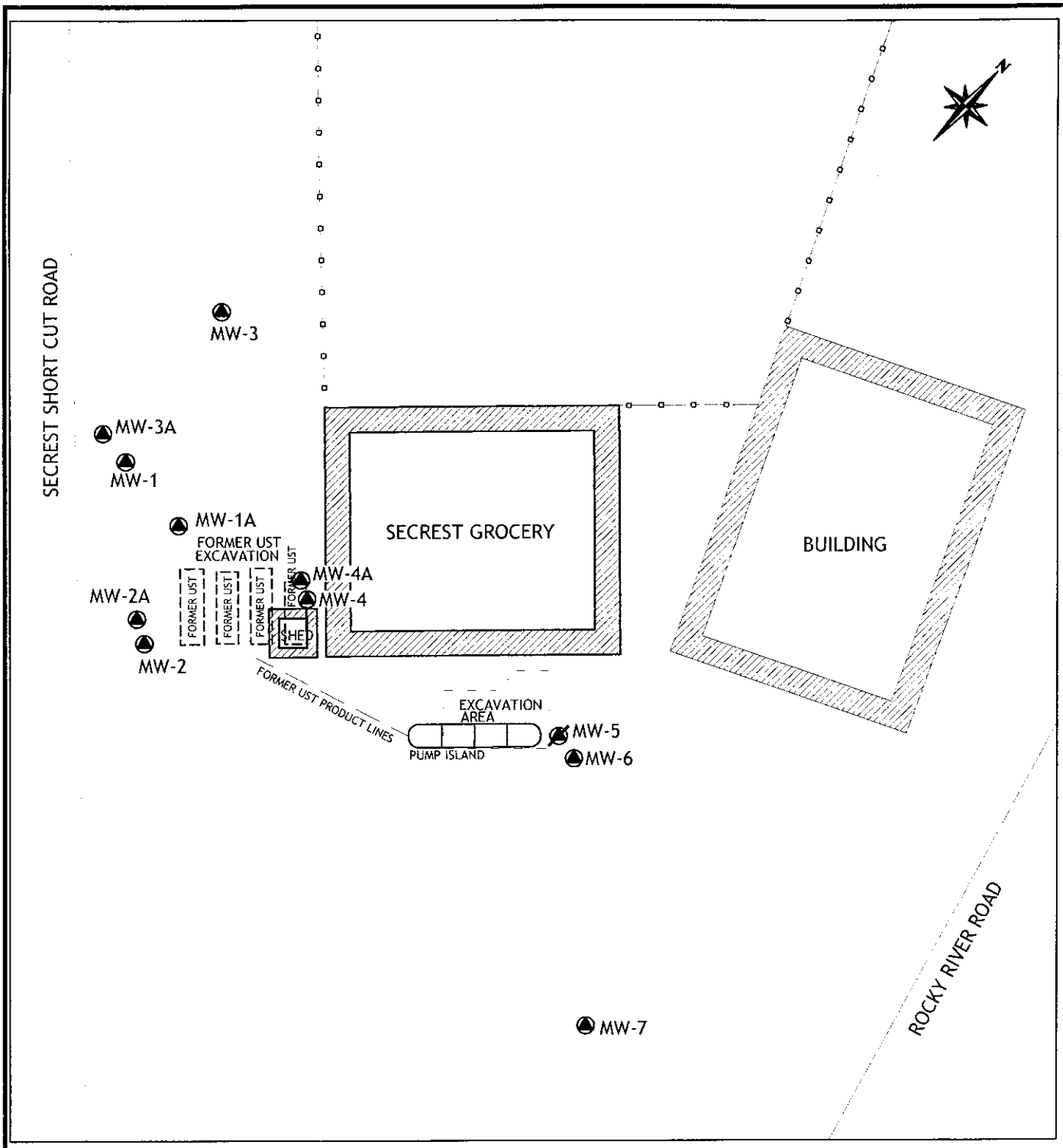

GRAPHIC SCALE
0 15 22.5 30
SCALE: 1 in. = 30 ft.

LEGEND:

- FENCE LINE
- PRODUCT LINE
- MONITORING WELL LOCATION
- ABANDONED MONITORING WELL

NOTES:
1- REFERENCE: SITE MAP BASED ON FIELD SKETCH BY SHIELD PERSONNEL.
2- ALL LOCATIONS ARE APPROXIMATE.
3- MONITORING WELLS MW-1A AND MW-3A WERE RELOCATED PER SITE INVESTIGATION BY SHIELD PERSONNEL ON 6-18-08.

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SITE MAP

SECREST GROCERY

MONROE, UNION COUNTY, NORTH CAROLINA

SHIELD # 1010087

DATE :	05/24/12	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	2

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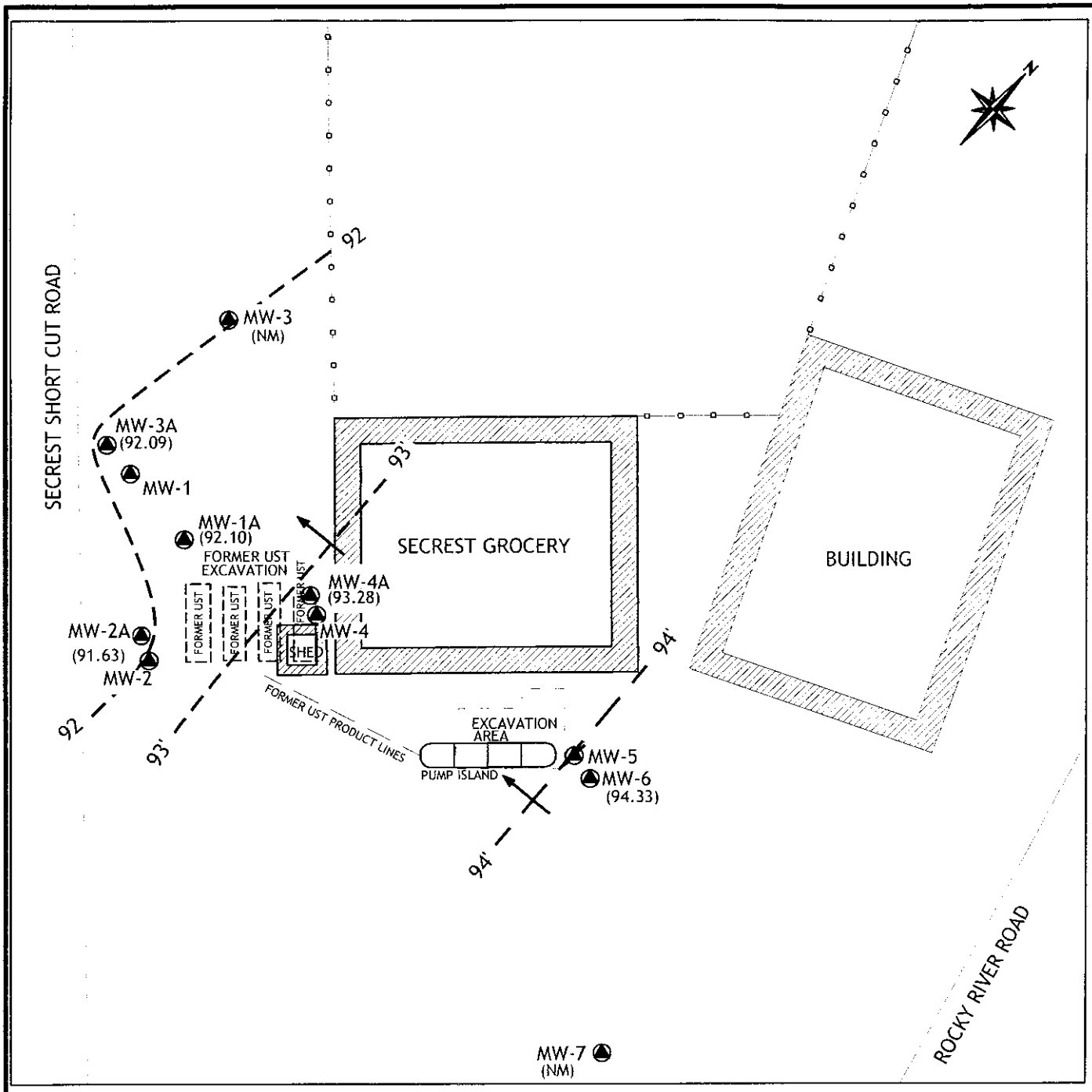

LEGEND:

——o——	FENCE LINE
—·—·—	PRODUCT LINE
▲	MONITORING WELL LOCATION
▲	ABANDONED MONITORING WELL
(ft)	FEET
(93.46)	GROUNDWATER ELEVATION (ft)
- - - -	GROUNDWATER ELEVATION CONTOUR LINE (ft)
→	GENERALIZED GROUNDWATER FLOW DIRECTION
(NM)	NOT MEASURED

GRAPHIC SCALE
0 15 22.5 30
SCALE: 1 in. = 30 ft.

NOTES:
1- REFERENCE: SITE MAP BASED ON FIELD SKETCH BY SHIELD PERSONNEL.
2- ALL LOCATIONS ARE APPROXIMATE.
3- MONITORING WELLS MW-1A AND MW-3A WERE RELOCATED PER SITE INVESTIGATION BY SHIELD PERSONNEL ON 6-16-08.
4- DEPTHS TO GROUNDWATER MEASURED ON 4-25-12.
5- CONTOUR INTERVALS = 1'

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GROUNDWATER ELEVATION CONTOUR MAP 4/25/12

SECREST GROCERY

MONROE, UNION COUNTY, NORTH CAROLINA

SHIELD # 1010087

DATE :	05/24/12	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	3

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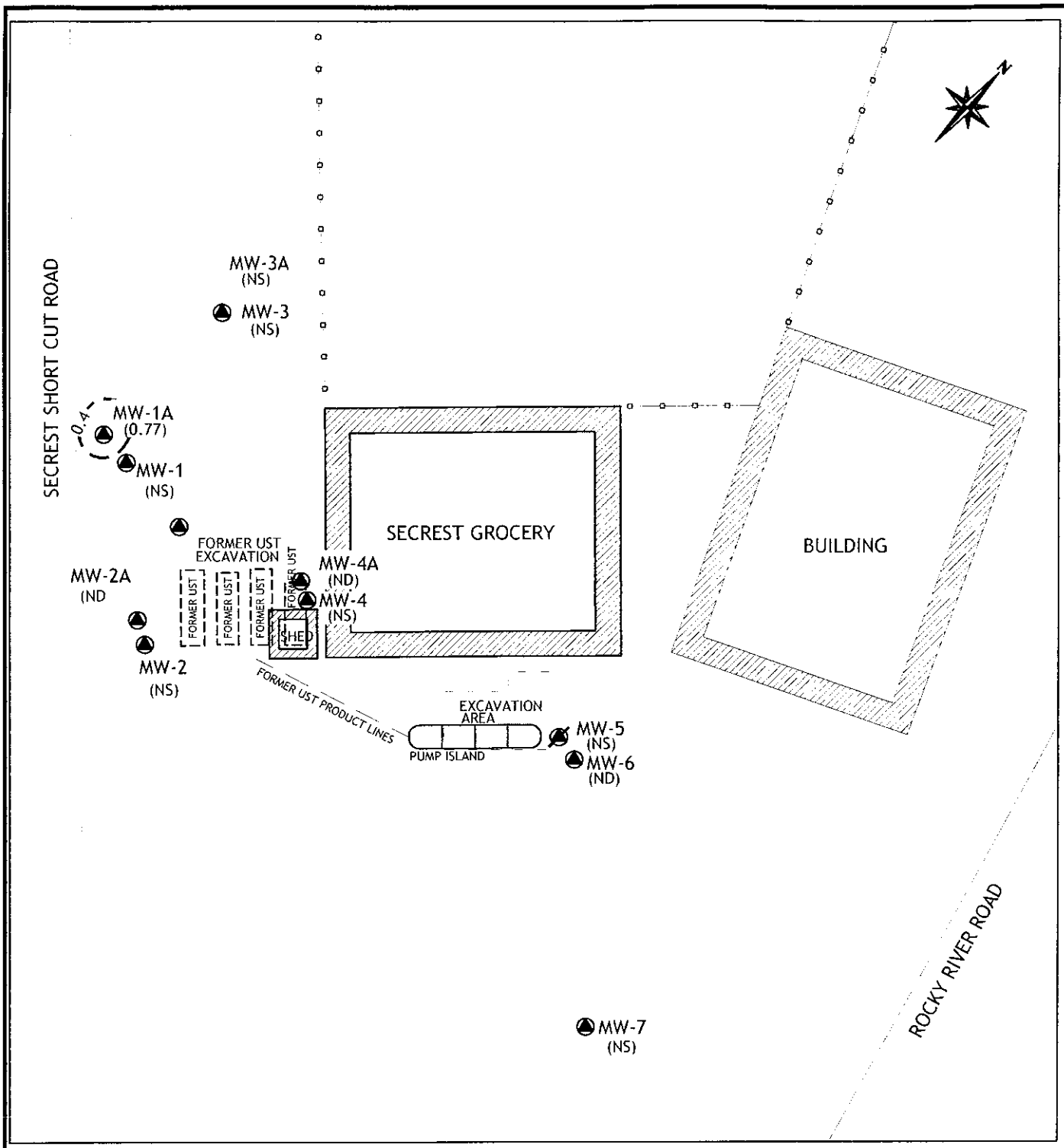

LEGEND:

- FENCE LINE
- PRODUCT LINE
- MONITORING WELL LOCATION
- ABANDONED MONITORING WELL
- (ug/L) MICROGRAMS PER LITER
- (0.77) 1,2-DICHLOROETHANE CONCENTRATION (ug/L)
- 1,2-DICHLOROETHANE ISOCONCENTRATION LINE (ug/L)
- (ND) NOT DETECTED AT OR ABOVE THE LABORATORY METHOD DETECTION LIMIT
- (NS) NOT SAMPLED

GRAPHIC SCALE
0 15 22.5 30
SCALE: 1 in. = 30 ft.

NOTES:
1- GROUNDWATER SAMPLES COLLECTED ON 4/25/12.
2- REFERENCE: SITE MAP BASED ON FIELD SKETCH BY SHIELD PERSONNEL.
3- ALL LOCATIONS ARE APPROXIMATE.
4- CONTOUR INTERVALS AS SHOWN.

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1,2-DICHLOROETHANE ISOCONCENTRATION MAP

SECREST GROCERY

MONROE, UNION COUNTY, NORTH CAROLINA

SHIELD # 1010087

DATE :	05/24/12	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	4

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TABLE(S)

Table 1: Summary of Well Construction and Historical Groundwater Elevation Data
Secrest Grocery
3501 Rocky River Road, Monroe, Union County, North Carolina
NCDENR GWI #: 6185

Well ID	Date Installed	Top of Casing Elevation (feet)	As-built Depth (feet)	Screened Interval (feet)	Field Measurements			Field Calculations		
					Gauging Date	Total Depth (feet)	Depth to Static Water (feet)	Diff. Between As-Built and Measured Total Depth (feet)	Measured Water Column in Well (feet)	Ground-water Elevation (feet)
MW-1	4/9/1990	99.53	26	16-26	10/30/1992	26	3.50	0	22.5	96.03
					3/5/1997	25.08	3.84	0.92	21.24	95.69
					10/15/2003	25.2	7.80	0.3	17.90	91.73
					1/15/2005	NM	7.29	N/A	18.71	92.24
MW-1A	1/15/2005	99.65	20	5-20	1/15/2005	19.5	17.10	0.5	2.40	82.55
					12/27/2007	19.95	15.96	0.05	3.99	83.69
					12/29/2008	19.96	9.50	0.04	10.46	90.15
					11/25/2009	NM	9.11	N/A	N/A	90.54
					4/26/2010	19.84	6.68	0.16	13.32	92.97
					7/5/2010	19.84	6.48	0.16	13.52	93.17
					3/4/2011	19.84	9.40	0.16	10.44	90.25
					6/13/2011	19.84	8.82	0.16	11.02	90.83
					9/28/2011	NA	NA	NA	NA	NA
					4/25/2012	20.04	7.55	-0.04	12.49	92.10
MW-2	10/30/1992	102.59	28	18-28	10/30/1992	28	8.80	0	19.2	93.79
					3/5/1997	27.91	8.53	0.09	19.38	94.06
					10/15/2003	26.25	8.32	1.75	17.93	94.27
					1/15/2005	NM	7.67	N/A	20.33	94.92
MW-2A	1/15/2005	99.93	20	5-20	1/15/2005	19.97	7.25	0.03	12.72	92.68
					12/27/2007	20	16.29	0	3.71	83.64
					12/29/2008	19.92	9.79	0.08	10.13	90.14
					11/25/2009	NM	NM	N/A	N/A	NM
					4/28/2010	19.81	6.82	0.19	13.53	93.11
					7/5/2010	19.81	6.47	0.19	13.53	93.46
					3/4/2011	19.81	9.64	0.19	10.17	90.29
					6/13/2011	19.81	9.05	0.19	10.76	90.88
					9/28/2011	NA	NA	NA	NA	NA
					4/25/2012	19.5	8.30	0.5	11.20	91.63
MW-3	10/30/1992	100.72	30	15-30	10/30/1992	30	9.41	0	20.59	91.31
					3/5/1997	30.08	4.70	0.08	25.38	96.70
					10/15/2003	30.19	6.58	0.19	23.61	94.14
					1/15/2005	NM	7.15	N/A	22.85	93.57
MW-3A	1/15/2005	99.34	20	5-20	1/15/2005	20	6.68	0	13.32	92.66
					12/27/2007	20	15.61	0	4.39	83.73
					12/29/2008	19.98	9.20	0.02	9.18	90.14
					11/25/2009	NM	8.13	N/A	N/A	91.21
					4/26/2010	19.9	6.42	0.1	13.58	92.92
					7/5/2010	19.9	6.62	0.1	13.38	92.72
					3/4/2011	19.9	9.11	0.1	10.79	90.23
					6/13/2011	19.9	8.52	0.1	11.38	90.82
					9/28/2011	NA	NA	NA	NA	NA
					4/25/2012	20.06	7.25	-0.06	12.81	92.09
MW-4	10/5/2001	100.23	35	10-35	1/18/2002	35.22	14.64	0.22	20.58	85.59
					2/20/2003	35.16	7.25	0.16	27.91	92.98
					10/15/2003	35.21	8.32	0.21	26.89	91.91
					1/15/2005	NM	7.55	N/A	27.45	92.68
MW-4A	1/15/2005	100.16	20	5-20	1/15/2005	20	14.45	0	5.55	85.71
					12/27/2007	19.98	16.43	0.02	3.55	83.73
					12/29/2008	20.01	9.93	-0.01	10.08	90.23
					11/25/2009	NM	9.73	N/A	N/A	90.43
					4/26/2010	19.9	6.22	0.1	13.78	93.94
					7/5/2010	19.9	5.62	0.1	14.38	94.54
					3/4/2011	19.9	9.79	0.1	10.11	90.37
					6/13/2011	19.9	9.20	0.1	10.70	90.96
					9/28/2011	NA	NA	NA	NA	NA

Table 1: Summary of Well Construction and Historical Groundwater Elevation Data
Secrest Grocery
3501 Rocky River Road, Monroe, Union County, North Carolina
NCDENR GWI #: 6185

Well ID	Date Installed	Top of Casing Elevation (feet)	As-built Depth (feet)	Screened Interval (feet)	Field Measurements			Field Calculations		
					Gauging Date	Total Depth (feet)	Depth to Static Water (feet)	Diff. Between As-Built and Measured Total Depth (feet)	Measured Water Column in Well (feet)	Ground-water Elevation (feet)
					4/25/2012	20.06	6.88	-0.06	13.18	93.28
MW-5	12/7/2001	100.00	50	20-50	1/18/2002	49.88	14.35	0.12	35.53	85.65
					ABANDONED					
MW-6	2/15/2003	102.74	50	5-50	2/20/2003	49.83	8.55	0.17	41.28	94.19
					10/15/2003	49.91	7.53	0.09	42.38	95.21
					1/15/2005	49.88	7.30	0.12	42.55	95.44
					12/29/2008	49.86	10.00	0.14	39.86	92.74
					11/25/2009	NM	9.25	N/A	N/A	93.49
					4/26/2010	49.78	6.77	0.22	43.23	95.97
					7/5/2010	49.78	6.98	0.22	43.02	95.76
					3/4/2011	49.78	9.35	0.22	40.43	93.39
					6/13/2011	49.78	8.51	0.22	41.27	94.23
					9/28/2011	NA	NA	NA	NA	NA
					4/25/2012	50	8.41	0	41.59	94.33
MW-7	2/15/2003	105.39	50	5-50	2/20/2003	49.87	7.24	0.13	42.63	98.15
					10/15/2003	NM	NM	NM	NM	NM
					1/15/2005	NM	7.74	N/A	42.26	97.65

Notes:
NM = Not measured
NA = Not available

Table 2: Historical Summary of Analytical Results - Groundwater Samples
Secrest Grocery
3501 Rocky River Road, Monroe, Union County, North Carolina
NCDENR GWI #: 6185

Analytical Method--->		EPA Method 601/602										
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Methyl Tert-Butyl Ether	Disopropylether (IPE)	1,2 Dichloroethane (1,2-DCA)	Naphthalene	Tetrachloroethene	Trichloroethene	Lead
15A NCAC 2L.0202 Standard---->		1	600	600	500	20	70	0.4	6	0.7	3	15
15A NCAC 2L.0115 Gross Contamination level--->		5,000	257,500	29,000	87,500	200,000	70,000	380	15,500	70	3,000	15,000
Location	Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1	10/30/92	ND	ND	ND	ND	480	NS	18	ND	*	*	ND
	03/05/97	ND	ND	ND	ND	ND	ND	ND	NS	*	*	NS
	10/15/03	ND	ND	ND	ND	33	14	3.8	ND	ND	ND	NS
	02/24/04	ND	ND	ND	ND	31	11	4.9	ND	*	*	NS
MW-1A	01/15/05	ND	ND	ND	ND	21	3.1	1.9	ND	*	*	NS
	12/27/07	ND	ND	ND	ND	17.1	ND	ND	ND	ND	ND	ND
	06/18/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/29/08	ND	ND	ND	ND	11.1	1.6	ND	ND	ND	ND	NR
	11/25/09	ND	ND	ND	ND	9.6	1.6	ND	ND	ND	ND	NR
	04/28/10	ND	ND	ND	ND	5.3	1.9	0.66	ND	ND	ND	NR
	07/05/10	ND	ND	ND	ND	0.96	ND	ND	ND	ND	ND	NR
	03/04/11	ND	ND	ND	ND	4.9	1.1	ND	ND	ND	ND	NR
	06/13/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	09/28/11	ND	ND	ND	ND	0.98	ND	ND	ND	ND	ND	NR
	04/25/12	ND	ND	ND	ND	4.1	1.3	ND	ND	ND	ND	NR
MW-2	10/30/92	ND	ND	ND	ND	5.5	NS	4.2	ND	*	*	ND
	03/05/97	ND	ND	ND	ND	130	13	8	NS	*	*	NS
	10/15/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
	02/24/04	ND	ND	ND	ND	ND	ND	ND	ND			NS
MW-2A	01/15/05	ND	ND	ND	ND	1.2	2.5	1.6	ND	*	*	NS
	12/27/07	ND	ND	ND	ND	2.6	14.7	1.9	ND	ND	ND	ND
	06/18/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/29/08	ND	ND	ND	ND	4.0	13.2	2.7	ND	ND	ND	NR
	11/25/09	ND	ND	ND	ND	4.6	ND	ND	ND	ND	ND	NR
	04/28/10	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	NR
	07/05/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	03/04/11	ND	ND	ND	ND	ND	1.6	0.86	ND	ND	ND	NR
	06/13/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	09/28/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	04/25/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
MW-3	10/30/92	ND	ND	ND	ND	130	NS	2.3	ND	*	*	ND
	03/05/97	ND	ND	ND	ND	18	ND	ND	NS	*	*	NS
	10/15/03	ND	ND	ND	ND	4.4	ND	ND	ND	ND	ND	NS
	02/24/04	ND	ND	ND	ND	4.2	ND	ND	ND	*	*	NS

Table 2: Historical Summary of Analytical Results - Groundwater Samples
Secrest Grocery
3501 Rocky River Road, Monroe, Union County, North Carolina
NCDENR GWI #: 6185

Analytical Method--->		EPA Method 601/602										
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Methyl Tert-Butyl Ether	Disopropylether (IPE)	1,2 Dichloroethane (1,2-DCA)	Naphthalene	Tetrachloroethene	Trichloroethene	Lead
15A NCAC 2L.0202 Standard--->		1	600	600	500	20	70	0.4	6	0.7	3	15
15A NCAC 2L.0115 Gross Contamination level--->		5,000	257,500	29,000	87,500	200,000	70,000	380	15,500	70	3,000	15,000
Location	Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-3A	01/15/05	ND	ND	ND	ND	38	7.3	3.2	ND	*	*	NS
	12/27/07	ND	ND	ND	ND	11.6	2.3	ND	ND	ND	ND	9
	06/18/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/29/08	ND	ND	ND	ND	10.5	2.4	ND	ND	ND	ND	NR
	11/25/09	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	NR
	04/28/10	ND	ND	ND	ND	9.7	3.4	1.0	ND	ND	ND	NR
	07/05/10	ND	ND	ND	ND	5.2	2.6	1.00	ND	ND	ND	NR
	03/04/11	ND	ND	ND	ND	7.9	2.9	0.96	ND	ND	ND	NR
	06/13/11	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	NR
	09/28/11	ND	ND	ND	ND	3.2	0.99	0.55	ND	ND	ND	NR
	04/25/12	ND	ND	ND	ND	7.3	2	0.77	ND	ND	ND	NR
MW-4	10/10/01	ND	ND	ND	ND	47	28	3.2	ND	*	*	ND
	02/20/03	ND	ND	ND	ND	29	43	7.8	ND	ND	ND	ND
	10/15/03	ND	ND	ND	ND	19	37	6.2	ND	ND	ND	NS
	02/24/04	ND	ND	ND	ND	8.9	24	2.6	ND	*	*	NS
MW-4A	01/15/05	ND	ND	ND	ND	13	27	2.4	ND	*	*	NS
	12/27/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/18/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/29/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	11/25/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	04/28/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	07/05/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	03/04/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	06/13/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	09/28/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	04/25/12	ND	ND	ND	ND	ND	0.54	ND	ND	ND	ND	NR
MW-5	12/10/01	ND	ND	ND	ND	ND	ND	ND	ND	*	*	ND
MW-6	02/20/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/15/03	ND	ND	ND	ND	ND	6.3	1.9	ND	ND	ND	NS
	02/24/04	ND	ND	ND	ND	ND	2.8	ND	ND	*	*	NS
	01/15/05	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS
	06/18/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/29/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
	11/25/09	ND	ND	ND	ND	ND	ND	ND	ND	3.6	1.6	NR
	04/28/10	ND	ND	ND	ND	ND	ND	ND	ND	0.91	0.66	NR

Table 2: Historical Summary of Analytical Results - Groundwater Samples
Secrest Grocery
3501 Rocky River Road, Monroe, Union County, North Carolina
NCDENR GW1 #: 6185

Analytical Method--->		EPA Method 601/602										
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Methyl Tert-Butyl Ether	Disopropylether (IPE)	1,2 Dichloroethane (1,2-DCA)	Naphthalene	Tetrachloroethene	Trichloroethene	Lead
15A NCAC 2L.0202 Standard---->		1	600	600	500	20	70	0.4	6	0.7	3	15
15A NCAC 2L.0115 Gross Contamination level--->		5,000	257,500	29,000	87,500	200,000	70,000	380	15,500	70	3,000	15,000
Location	Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-6	07/05/10	ND	ND	ND	ND	ND	ND	ND	ND	**1.9**	0.68	NR
	03/04/11	ND	ND	ND	ND	ND	ND	ND	ND	0.55	ND	NR
	06/13/11	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	ND	NR
	09/28/11	ND	ND	ND	ND	ND	ND	ND	ND	**2.6**	0.66	NR
	04/25/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.60	NR
MW-7	02/20/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
WSW-1	12/27/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WSW-2	10/15/03	ND	ND	ND	ND	ND	ND	ND	ND	*	*	NS
	01/15/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
	12/27/07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.2
WSW-2A	10/15/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
	01/15/05	ND	ND	ND	ND	ND	ND	ND	ND	*	*	NS
WSW-5	10/15/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS

Notes:

* = Laboratory data that could not be located in the file due to the addition of the Tretrachloroethene and Trichloroethene columns

mg/l = Milligrams per liter.

ug/l = Micrograms per liter.

NR = Analysis not requested.

ND = Not detected at or above the method detection limit specified in the laboratory report.

NS = Not sampled per NCDENR request.

MDL = Method Detection Limit

15A. NCAC 2L.0202 = NCDENR Standard Statute for non-risked based maximum allowable containment concentration in groundwater

Gross Contamination Levels = NCDENR Standard Statute for risked based maximum gross contamination levels for groundwater as presented in the NCDENR "Guidelines for Assessment and Corrective Action," dated April 2001, effective July 1, 2001.

BOLD = Above 15A. NCAC 2L.0202 Standards

All other data can be seen in the attached laboratory report.

APPENDIX A

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May 03, 2012

Kyle Hoover
Shield Engineering
4301 Taggart Creek Road
Charlotte, NC 28208

RE: Project: SECREST GROCERY
Pace Project No.: 92117291

Dear Kyle Hoover:
Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SECREST GROCERY
Pace Project No.: 92117291

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Drinking Water Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460144

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SAMPLE ANALYTE COUNT

Project: SECREST GROCERY
Pace Project No.: 92117291

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92117291001	**MW-1A**	SM 6200B	TLS	64	PASI-C
92117291002	**MW-2A**	SM 6200B	TLS	64	PASI-C
92117291003	**MW-3A**	SM 6200B	TLS	64	PASI-C
92117291004	**MW-4A**	SM 6200B	TLS	64	PASI-C
92117291005	**MW-6**	SM 6200B	TLS	64	PASI-C

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PROJECT NARRATIVE

Project: SECREST GROCERY
Pace Project No.: 92117291

Method: **SM 6200B**
Description: 6200B MSV
Client: Shield Engineering, Inc.
Date: May 03, 2012

General Information:
5 samples were analyzed for SM 6200B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-1A **Lab ID: 92117291001** Collected: 04/25/12 15:10 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		05/01/12 02:36	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		05/01/12 02:36	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		05/01/12 02:36	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		05/01/12 02:36	75-27-4	
Bromoform	ND	ug/L	0.50	1		05/01/12 02:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/01/12 02:36	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		05/01/12 02:36	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		05/01/12 02:36	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		05/01/12 02:36	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		05/01/12 02:36	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		05/01/12 02:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/01/12 02:36	75-00-3	
Chloroform	ND	ug/L	0.50	1		05/01/12 02:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/01/12 02:36	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 02:36	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 02:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		05/01/12 02:36	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		05/01/12 02:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		05/01/12 02:36	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		05/01/12 02:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 02:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 02:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 02:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		05/01/12 02:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		05/01/12 02:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		05/01/12 02:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		05/01/12 02:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 02:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 02:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 02:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		05/01/12 02:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 02:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		05/01/12 02:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 02:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 02:36	10061-02-6	
Diisopropyl ether	**1.3**	ug/L	0.50	1		05/01/12 02:36	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		05/01/12 02:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/01/12 02:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		05/01/12 02:36	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		05/01/12 02:36	75-09-2	
Methyl-tert-butyl ether	**4.1**	ug/L	0.50	1		05/01/12 02:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/01/12 02:36	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		05/01/12 02:36	103-65-1	
Styrene	ND	ug/L	0.50	1		05/01/12 02:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 02:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 02:36	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		05/01/12 02:36	127-18-4	

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-1A Lab ID: **92117291001** Collected: 04/25/12 15:10 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	0.50	1		05/01/12 02:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 02:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 02:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		05/01/12 02:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		05/01/12 02:36	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		05/01/12 02:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/01/12 02:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		05/01/12 02:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 02:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 02:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/01/12 02:36	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		05/01/12 02:36	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		05/01/12 02:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		05/01/12 02:36	17060-07-0	
Dibromofluoromethane (S)	98	%	70-130	1		05/01/12 02:36	1868-53-7	
4-Bromofluorobenzene (S)	95	%	70-130	1		05/01/12 02:36	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		05/01/12 02:36	2037-26-5	

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-2A Lab ID: **92117291002** Collected: 04/25/12 15:03 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		05/01/12 02:53	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		05/01/12 02:53	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		05/01/12 02:53	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		05/01/12 02:53	75-27-4	
Bromoform	ND	ug/L	0.50	1		05/01/12 02:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/01/12 02:53	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		05/01/12 02:53	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		05/01/12 02:53	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		05/01/12 02:53	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		05/01/12 02:53	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		05/01/12 02:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/01/12 02:53	75-00-3	
Chloroform	ND	ug/L	0.50	1		05/01/12 02:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/01/12 02:53	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 02:53	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 02:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		05/01/12 02:53	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		05/01/12 02:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		05/01/12 02:53	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		05/01/12 02:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 02:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 02:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 02:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		05/01/12 02:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		05/01/12 02:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		05/01/12 02:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		05/01/12 02:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 02:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 02:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 02:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		05/01/12 02:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 02:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		05/01/12 02:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 02:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 02:53	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		05/01/12 02:53	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		05/01/12 02:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/01/12 02:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		05/01/12 02:53	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		05/01/12 02:53	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		05/01/12 02:53	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/01/12 02:53	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		05/01/12 02:53	103-65-1	
Styrene	ND	ug/L	0.50	1		05/01/12 02:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 02:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 02:53	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		05/01/12 02:53	127-18-4	

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-2A **Lab ID: 92117291002** Collected: 04/25/12 15:03 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	0.50	1		05/01/12 02:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 02:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 02:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		05/01/12 02:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		05/01/12 02:53	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		05/01/12 02:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/01/12 02:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		05/01/12 02:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 02:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 02:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/01/12 02:53	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		05/01/12 02:53	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		05/01/12 02:53	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		05/01/12 02:53	17060-07-0	
Dibromofluoromethane (S)	101	%	70-130	1		05/01/12 02:53	1868-53-7	
4-Bromofluorobenzene (S)	94	%	70-130	1		05/01/12 02:53	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		05/01/12 02:53	2037-26-5	

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-3A **Lab ID: 92117291003** Collected: 04/25/12 14:57 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		05/01/12 03:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		05/01/12 03:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		05/01/12 03:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		05/01/12 03:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		05/01/12 03:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/01/12 03:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		05/01/12 03:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		05/01/12 03:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		05/01/12 03:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		05/01/12 03:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		05/01/12 03:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/01/12 03:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		05/01/12 03:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/01/12 03:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 03:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 03:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		05/01/12 03:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		05/01/12 03:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		05/01/12 03:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		05/01/12 03:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 03:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 03:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 03:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		05/01/12 03:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		05/01/12 03:10	75-34-3	
1,2-Dichloroethane	0.77	ug/L	0.50	1		05/01/12 03:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		05/01/12 03:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 03:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 03:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 03:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		05/01/12 03:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 03:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		05/01/12 03:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 03:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 03:10	10061-02-6	
Diisopropyl ether	2.0	ug/L	0.50	1		05/01/12 03:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		05/01/12 03:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/01/12 03:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		05/01/12 03:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		05/01/12 03:10	75-09-2	
Methyl-tert-butyl ether	7.3	ug/L	0.50	1		05/01/12 03:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/01/12 03:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		05/01/12 03:10	103-65-1	
Styrene	ND	ug/L	0.50	1		05/01/12 03:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 03:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 03:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		05/01/12 03:10	127-18-4	

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-3A Lab ID: **92117291003** Collected: 04/25/12 14:57 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	0.50	1		05/01/12 03:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 03:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 03:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		05/01/12 03:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		05/01/12 03:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		05/01/12 03:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/01/12 03:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		05/01/12 03:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 03:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 03:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/01/12 03:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		05/01/12 03:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		05/01/12 03:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/01/12 03:10	17060-07-0	
Dibromofluoromethane (S)	102	%	70-130	1		05/01/12 03:10	1868-53-7	
4-Bromofluorobenzene (S)	93	%	70-130	1		05/01/12 03:10	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		05/01/12 03:10	2037-26-5	

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-4A **Lab ID: 92117291004** Collected: 04/25/12 14:50 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		05/01/12 03:26	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		05/01/12 03:26	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		05/01/12 03:26	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		05/01/12 03:26	75-27-4	
Bromoform	ND	ug/L	0.50	1		05/01/12 03:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/01/12 03:26	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		05/01/12 03:26	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		05/01/12 03:26	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		05/01/12 03:26	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		05/01/12 03:26	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		05/01/12 03:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/01/12 03:26	75-00-3	
Chloroform	ND	ug/L	0.50	1		05/01/12 03:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/01/12 03:26	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 03:26	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 03:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		05/01/12 03:26	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		05/01/12 03:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		05/01/12 03:26	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		05/01/12 03:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 03:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 03:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 03:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		05/01/12 03:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		05/01/12 03:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		05/01/12 03:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		05/01/12 03:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 03:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 03:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 03:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		05/01/12 03:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 03:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		05/01/12 03:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 03:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 03:26	10061-02-6	
Diisopropyl ether	**0.54**	ug/L	0.50	1		05/01/12 03:26	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		05/01/12 03:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/01/12 03:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		05/01/12 03:26	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		05/01/12 03:26	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		05/01/12 03:26	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/01/12 03:26	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		05/01/12 03:26	103-65-1	
Styrene	ND	ug/L	0.50	1		05/01/12 03:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 03:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 03:26	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		05/01/12 03:26	127-18-4	

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-4A **Lab ID: 92117291004** Collected: 04/25/12 14:50 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	0.50	1		05/01/12 03:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 03:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 03:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		05/01/12 03:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		05/01/12 03:26	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		05/01/12 03:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/01/12 03:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		05/01/12 03:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 03:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 03:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/01/12 03:26	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		05/01/12 03:26	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		05/01/12 03:26	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		05/01/12 03:26	17060-07-0	
Dibromofluoromethane (S)	101	%	70-130	1		05/01/12 03:26	1868-53-7	
4-Bromofluorobenzene (S)	94	%	70-130	1		05/01/12 03:26	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		05/01/12 03:26	2037-26-5	

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-6 **Lab ID: 92117291005** Collected: 04/25/12 14:43 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	0.50	1		05/01/12 03:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		05/01/12 03:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		05/01/12 03:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		05/01/12 03:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		05/01/12 03:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/01/12 03:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		05/01/12 03:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		05/01/12 03:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		05/01/12 03:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		05/01/12 03:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		05/01/12 03:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/01/12 03:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		05/01/12 03:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/01/12 03:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 03:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		05/01/12 03:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		05/01/12 03:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		05/01/12 03:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		05/01/12 03:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		05/01/12 03:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 03:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 03:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		05/01/12 03:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		05/01/12 03:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		05/01/12 03:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		05/01/12 03:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		05/01/12 03:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 03:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		05/01/12 03:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 03:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		05/01/12 03:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		05/01/12 03:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		05/01/12 03:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 03:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		05/01/12 03:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		05/01/12 03:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		05/01/12 03:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/01/12 03:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		05/01/12 03:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		05/01/12 03:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		05/01/12 03:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/01/12 03:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		05/01/12 03:43	103-65-1	
Styrene	ND	ug/L	0.50	1		05/01/12 03:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 03:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		05/01/12 03:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		05/01/12 03:43	127-18-4	

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ANALYTICAL RESULTS

Project: SECREST GROCERY
Pace Project No.: 92117291

Sample: MW-6 **Lab ID: 92117291005** Collected: 04/25/12 14:43 Received: 04/26/12 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
Toluene	ND	ug/L	0.50	1		05/01/12 03:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 03:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		05/01/12 03:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		05/01/12 03:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		05/01/12 03:43	79-00-5	
Trichloroethene	**0.60**	ug/L	0.50	1		05/01/12 03:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/01/12 03:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		05/01/12 03:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 03:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		05/01/12 03:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/01/12 03:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		05/01/12 03:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		05/01/12 03:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		05/01/12 03:43	17060-07-0	
Dibromofluoromethane (S)	103	%	70-130	1		05/01/12 03:43	1868-53-7	
4-Bromofluorobenzene (S)	93	%	70-130	1		05/01/12 03:43	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		05/01/12 03:43	2037-26-5	

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QUALITY CONTROL DATA

Project: SECREST GROCERY
Pace Project No.: 92117291

QC Batch: MSV/18956 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Associated Lab Samples: 92117291001, 92117291002, 92117291003, 92117291004, 92117291005

METHOD BLANK: 757189 Matrix: Water
Associated Lab Samples: 92117291001, 92117291002, 92117291003, 92117291004, 92117291005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	04/30/12 22:26	
1,1,1-Trichloroethane	ug/L	ND	0.50	04/30/12 22:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	04/30/12 22:26	
1,1,2-Trichloroethane	ug/L	ND	0.50	04/30/12 22:26	
1,1-Dichloroethane	ug/L	ND	0.50	04/30/12 22:26	
1,1-Dichloroethene	ug/L	ND	0.50	04/30/12 22:26	
1,1-Dichloropropene	ug/L	ND	0.50	04/30/12 22:26	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	04/30/12 22:26	
1,2,3-Trichloropropane	ug/L	ND	0.50	04/30/12 22:26	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	04/30/12 22:26	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	04/30/12 22:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	04/30/12 22:26	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	04/30/12 22:26	
1,2-Dichlorobenzene	ug/L	ND	0.50	04/30/12 22:26	
1,2-Dichloroethane	ug/L	ND	0.50	04/30/12 22:26	
1,2-Dichloropropane	ug/L	ND	0.50	04/30/12 22:26	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	04/30/12 22:26	
1,3-Dichlorobenzene	ug/L	ND	0.50	04/30/12 22:26	
1,3-Dichloropropane	ug/L	ND	0.50	04/30/12 22:26	
1,4-Dichlorobenzene	ug/L	ND	0.50	04/30/12 22:26	
2,2-Dichloropropane	ug/L	ND	0.50	04/30/12 22:26	
2-Chlorotoluene	ug/L	ND	0.50	04/30/12 22:26	
4-Chlorotoluene	ug/L	ND	0.50	04/30/12 22:26	
Benzene	ug/L	ND	0.50	04/30/12 22:26	
Bromobenzene	ug/L	ND	0.50	04/30/12 22:26	
Bromochloromethane	ug/L	ND	0.50	04/30/12 22:26	
Bromodichloromethane	ug/L	ND	0.50	04/30/12 22:26	
Bromoform	ug/L	ND	0.50	04/30/12 22:26	
Bromomethane	ug/L	ND	5.0	04/30/12 22:26	
Carbon tetrachloride	ug/L	ND	0.50	04/30/12 22:26	
Chlorobenzene	ug/L	ND	0.50	04/30/12 22:26	
Chloroethane	ug/L	ND	1.0	04/30/12 22:26	
Chloroform	ug/L	ND	0.50	04/30/12 22:26	
Chloromethane	ug/L	ND	1.0	04/30/12 22:26	
cis-1,2-Dichloroethene	ug/L	ND	0.50	04/30/12 22:26	
cis-1,3-Dichloropropene	ug/L	ND	0.50	04/30/12 22:26	
Dibromochloromethane	ug/L	ND	0.50	04/30/12 22:26	
Dibromomethane	ug/L	ND	0.50	04/30/12 22:26	
Dichlorodifluoromethane	ug/L	ND	0.50	04/30/12 22:26	
Diisopropyl ether	ug/L	ND	0.50	04/30/12 22:26	
Ethylbenzene	ug/L	ND	0.50	04/30/12 22:26	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	04/30/12 22:26	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	04/30/12 22:26	

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QUALITY CONTROL DATA

Project: SECREST GROCERY
Pace Project No.: 92117291

METHOD BLANK: 757189 Matrix: Water

Associated Lab Samples: 92117291001, 92117291002, 92117291003, 92117291004, 92117291005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	ND	1.0	04/30/12 22:26	
Methyl-tert-butyl ether	ug/L	ND	0.50	04/30/12 22:26	
Methylene Chloride	ug/L	ND	2.0	04/30/12 22:26	
n-Butylbenzene	ug/L	ND	0.50	04/30/12 22:26	
n-Propylbenzene	ug/L	ND	0.50	04/30/12 22:26	
Naphthalene	ug/L	ND	2.0	04/30/12 22:26	
o-Xylene	ug/L	ND	0.50	04/30/12 22:26	
sec-Butylbenzene	ug/L	ND	0.50	04/30/12 22:26	
Styrene	ug/L	ND	0.50	04/30/12 22:26	
tert-Butylbenzene	ug/L	ND	0.50	04/30/12 22:26	
Tetrachloroethene	ug/L	ND	0.50	04/30/12 22:26	
Toluene	ug/L	ND	0.50	04/30/12 22:26	
trans-1,2-Dichloroethene	ug/L	ND	0.50	04/30/12 22:26	
trans-1,3-Dichloropropene	ug/L	ND	0.50	04/30/12 22:26	
Trichloroethene	ug/L	ND	0.50	04/30/12 22:26	
Trichlorofluoromethane	ug/L	ND	1.0	04/30/12 22:26	
Vinyl chloride	ug/L	ND	1.0	04/30/12 22:26	
1,2-Dichloroethane-d4 (S)	%	111	70-130	04/30/12 22:26	
4-Bromofluorobenzene (S)	%	95	70-130	04/30/12 22:26	
Dibromofluoromethane (S)	%	102	70-130	04/30/12 22:26	
Toluene-d8 (S)	%	101	70-130	04/30/12 22:26	

LABORATORY CONTROL SAMPLE: 757190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,1-Trichloroethane	ug/L	50	44.6	89	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	60-140	
1,1,2-Trichloroethane	ug/L	50	52.5	105	60-140	
1,1-Dichloroethane	ug/L	50	43.8	88	60-140	
1,1-Dichloroethene	ug/L	50	49.9	100	60-140	
1,1-Dichloropropene	ug/L	50	44.6	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.9	98	60-140	
1,2,3-Trichloropropane	ug/L	50	52.5	105	60-140	
1,2,4-Trichlorobenzene	ug/L	50	48.5	97	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.9	100	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.3	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	60-140	
1,2-Dichlorobenzene	ug/L	50	48.4	97	60-140	
1,2-Dichloroethane	ug/L	50	48.3	97	60-140	
1,2-Dichloropropane	ug/L	50	47.3	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.0	98	60-140	
1,3-Dichlorobenzene	ug/L	50	48.4	97	60-140	
1,3-Dichloropropane	ug/L	50	48.7	97	60-140	
1,4-Dichlorobenzene	ug/L	50	47.5	95	60-140	

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QUALITY CONTROL DATA

Project: SECREST GROCERY
Pace Project No.: 92117291

LABORATORY CONTROL SAMPLE: 757190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	41.1	82	60-140	
2-Chlorotoluene	ug/L	50	47.5	95	60-140	
4-Chlorotoluene	ug/L	50	48.7	97	60-140	
Benzene	ug/L	50	47.6	95	60-140	
Bromobenzene	ug/L	50	47.6	95	60-140	
Bromochloromethane	ug/L	50	48.9	98	60-140	
Bromodichloromethane	ug/L	50	47.9	96	60-140	
Bromoform	ug/L	50	46.4	93	60-140	
Bromomethane	ug/L	50	52.8	106	60-140	
Carbon tetrachloride	ug/L	50	48.4	97	60-140	
Chlorobenzene	ug/L	50	47.9	96	60-140	
Chloroethane	ug/L	50	48.6	97	60-140	
Chloroform	ug/L	50	47.6	95	60-140	
Chloromethane	ug/L	50	49.0	98	60-140	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.3	99	60-140	
Dibromochloromethane	ug/L	50	49.0	98	60-140	
Dibromomethane	ug/L	50	47.6	95	60-140	
Dichlorodifluoromethane	ug/L	50	49.3	99	60-140	
Diisopropyl ether	ug/L	50	47.7	95	60-140	
Ethylbenzene	ug/L	50	48.4	97	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.7	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	44.4	89	60-140	
m&p-Xylene	ug/L	100	94.5	95	60-140	
Methyl-tert-butyl ether	ug/L	50	50.7	101	60-140	
Methylene Chloride	ug/L	50	59.4	119	60-140	
n-Butylbenzene	ug/L	50	52.1	104	60-140	
n-Propylbenzene	ug/L	50	46.7	93	60-140	
Naphthalene	ug/L	50	51.5	103	60-140	
o-Xylene	ug/L	50	45.3	91	60-140	
sec-Butylbenzene	ug/L	50	48.1	96	60-140	
Styrene	ug/L	50	51.7	103	60-140	
tert-Butylbenzene	ug/L	50	46.5	93	60-140	
Tetrachloroethene	ug/L	50	45.1	90	60-140	
Toluene	ug/L	50	47.0	94	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.6	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	60-140	
Trichloroethene	ug/L	50	48.3	97	60-140	
Trichlorofluoromethane	ug/L	50	52.9	106	60-140	
Vinyl chloride	ug/L	50	55.2	110	60-140	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: SECREST GROCERY
Pace Project No.: 92117291

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 757191 757192

Parameter	Units	92117308002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.4	19.0	97	95	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	18.6	18.2	93	91	60-140	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.1	19.0	101	95	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	20.8	108	104	60-140	4	
1,1-Dichloroethane	ug/L	ND	20	20	18.6	18.2	93	91	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	20.7	20.7	104	104	60-140	0	
1,1-Dichloropropene	ug/L	ND	20	20	18.7	18.4	93	92	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.6	18.4	93	92	60-140	1	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.8	19.5	104	98	60-140	7	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.1	18.0	91	90	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.9	20.2	105	101	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.1	16.2	91	81	60-140	11	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.8	19.2	99	96	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.8	19.5	99	97	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	19.4	100	97	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	19.7	19.6	99	98	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.5	19.9	103	100	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.7	19.2	99	96	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	19.6	19.4	98	97	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.1	19.6	101	98	60-140	3	
2,2-Dichloropropane	ug/L	ND	20	20	15.0	14.7	75	73	60-140	2	
2-Chlorotoluene	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
4-Chlorotoluene	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2	
Benzene	ug/L	ND	20	20	20.2	19.9	101	100	60-140	1	
Bromobenzene	ug/L	ND	20	20	19.5	19.0	98	95	60-140	3	
Bromochloromethane	ug/L	ND	20	20	20.5	20.1	102	100	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	18.8	18.6	94	93	60-140	1	
Bromoform	ug/L	ND	20	20	15.8	14.8	79	74	60-140	6	
Bromomethane	ug/L	ND	20	20	20.6	23.4	103	117	60-140	12	
Carbon tetrachloride	ug/L	ND	20	20	19.6	19.4	98	97	60-140	1	
Chlorobenzene	ug/L	ND	20	20	19.9	19.7	100	99	60-140	1	
Chloroethane	ug/L	ND	20	20	23.0	23.2	115	116	60-140	1	
Chloroform	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2	
Chloromethane	ug/L	ND	20	20	20.1	20.7	100	104	60-140	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.5	19.0	97	95	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.5	17.3	87	86	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	17.6	17.3	88	87	60-140	1	
Dibromomethane	ug/L	ND	20	20	19.3	18.8	97	94	60-140	3	
Dichlorodifluoromethane	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1	
Diisopropyl ether	ug/L	ND	20	20	19.6	19.2	98	96	60-140	2	
Ethylbenzene	ug/L	ND	20	20	20.2	20.3	101	101	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.7	17.9	89	89	60-140	1	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	18.3	17.9	92	89	60-140	2	
m&p-Xylene	ug/L	ND	40	40	40.0	39.6	100	99	60-140	1	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.1	19.5	100	98	60-140	3	
Methylene Chloride	ug/L	ND	20	20	22.1	21.4	111	107	60-140	3	
n-Butylbenzene	ug/L	ND	20	20	20.8	20.3	104	101	60-140	2	

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(704)875-9092

QUALITY CONTROL DATA

Project: SECREST GROCERY
Pace Project No.: 92117291

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 757191 757192

Parameter	Units	92117308002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Propylbenzene	ug/L	ND	20	20	20.0	19.5	100	97	60-140	3	
Naphthalene	ug/L	ND	20	20	19.5	18.2	98	91	60-140	7	
o-Xylene	ug/L	ND	20	20	18.7	18.4	93	92	60-140	1	
sec-Butylbenzene	ug/L	ND	20	20	20.2	19.5	101	98	60-140	3	
Styrene	ug/L	ND	20	20	20.1	19.5	100	98	60-140	3	
tert-Butylbenzene	ug/L	ND	20	20	19.6	19.0	98	95	60-140	3	
Tetrachloroethene	ug/L	ND	20	20	18.7	18.6	93	93	60-140	1	
Toluene	ug/L	ND	20	20	20.0	19.7	100	99	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.8	19.2	99	96	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.1	17.9	91	89	60-140	1	
Trichloroethene	ug/L	ND	20	20	20.0	19.8	100	99	60-140	1	
Trichlorofluoromethane	ug/L	ND	20	20	22.8	22.6	114	113	60-140	1	
Vinyl chloride	ug/L	ND	20	20	22.4	23.1	112	116	60-140	3	
1,2-Dichloroethane-d4 (S)	%						103	101	70-130		
4-Bromofluorobenzene (S)	%						96	97	70-130		
Dibromofluoromethane (S)	%						100	101	70-130		
Toluene-d8 (S)	%						99	101	70-130		

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QUALIFIERS

Project: SECREST GROCERY
Pace Project No.: 92117291

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SECREST GROCERY
Pace Project No.: 92117291

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92117291001	**MW-1A**	SM 6200B	MSV/18956		
92117291002	**MW-2A**	SM 6200B	MSV/18956		
92117291003	**MW-3A**	SM 6200B	MSV/18956		
92117291004	**MW-4A**	SM 6200B	MSV/18956		
92117291005	**MW-6**	SM 6200B	MSV/18956		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

1585839

Section A Required Client Information:

Company: Shield Engineering
Address: 4301 Taggart Creek Rd
Charlotte NC 28208
Email To: khoover@shieldengineering.com
Phone: 704-394-6913 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:

Report To: Kyle Hoover
Copy To:
Purchase Order No.: 1010087-15
Project Name: Secrest Grocery
Project Number:

Section C Invoice Information:

Attention: Kyle Hoover
Company Name: Shield Engineering
Address: 4301 Taggart Creek Rd
Pace Quote Reference:
Pace Project Manager: Herring, Kevin
Pace Profile #: 756-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8200 B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1A	WT	G	4-25-2012	1510				4				4						X		01
2	MW-2A	WT	G	4-25	1503				4				4						X		02
3	MW-3A	WT	G	4-25	1457				4				4						X		03
4	MW-4A	WT	G	4-25	1450				4				4						X		04
5	MW-6	WT	G	4-25	1443				4				4						X		05
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D. 92117291

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Hanlson / Shield	4-25-12	1756	Moody - Pace	4-26-12	11:30				
	Moody	4-26-12	13:40		4/26/12	1340	2.2	Y	N	Y

2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joanna Hanlson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4-25-12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: January 30, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.06**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Shield Project # 92117291

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun (T1101) T1102 **Type of Ice:** (Wet) Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor T1101: No Correction T1102: Subtract 1.2°C

Corrected Cooler Temp.: 2.9 C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 4/26/12 dr

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☐No ☐N/A	12. Receive labels no COC BACK →
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 4/26/12 **SRF Review:** [signature] Date: 4/27/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)