August 14, 2015

Ms. Jeannette DeBartolomeo
Oil Control Program
Maryland Department of the Environment
1800 Washington Blvd, Suite 620
Baltimore, Maryland 21230

RE: **FIRST SEMI-ANNUAL 2015 MONITORING REPORT**
MDE Case #2006-0442-HA
High's Store #130
4101 Norrisville Road, Madonna, Harford County, Maryland
Facility ID No. 2057

Dear Ms. DeBartolomeo:

Groundwater & Environmental Services, Inc. (GES), on behalf of High's of Baltimore, LLC (High's), is pleased to submit the First Semi-annual 2015 Monitoring Report for the above mentioned site. During this reported monitoring period through June 30, 2015, the following activities were conducted:

- Semi-annual gauging and sampling of monitoring wells and tank field wells (May 26, 2015);
- Sampling of the granular activated carbon (GAC) filtration system at 3914 Madonna Rd on May 26, 2015 (Several attempts to coordinate a First Quarter 2015 sampling event at 3914 Madonna Rd were unsuccessful);
- The final required Monthly sampling (January 20, 2015) then Quarterly sampling of the GAC filtration system at 3921 Greenpeak Rd (April 17, 2015).
- Quarterly sampling of residential potable well at 3922 Greenpeak Rd (February 19 and May 26, 2015).
- As noted in the previous Semi-annual report, multiple attempts were made to obtain the annual sample for the supply well at 3908 Madonna Rd during the second and third quarters of 2014, but these attempts were unsuccessful due to the property owner's unresponsiveness. A sample was collected from the 3908 Madonna Rd. residence in the fourth quarter of 2014 and is reported in this First Semi-annual 2015 Monitoring Report along with their February 19, 2015 sample results.
- Annual residential and supply well samples were also collected for 3922 Madonna Rd. and 4101 Norrisville Rd. respectively, this period.
- The 3919 Madonna Rd. (Madonna Ranger Station) replacement potable well was sampled by GES at a point-of-use location on October 30, 2014. Record of analyses from the former 3919 Madonna Rd. potable well, in addition to results from monitoring wells previously sampled at the property, were obtained by GES in Public Information Act (PIA) request as received from the MDE on October 16, 2014. The potable and monitoring well analytical data for the Madonna Ranger Station has now been entered into the Table 1 and Table 2 historical result summaries included with this First Semi-annual Report for 2015.

- In addition, a PIA document review was also completed with the Harford County Health Department on December 12, 2014 pertaining to potable well and septic location information for the community of Charbonnet and adjacent properties. This data has since been compiled by GES and incorporated into several updated maps which are attached to this report including Figure 2 – Aerial Map, Figure 3 – Local Area Map, and Figure 4 – Site Map.

Most recently, six new monitoring wells were installed onsite from June 29, 2015 to July 14, 2015. The new wells were sampled July 30, 2015. Details of the well installation event will be summarized in a report submitted under separate cover.

The Second Semi-annual 2015 Monitoring Report will be submitted by January 30, 2016. In the interim, GES will continue to copy the MDE-OCP and the Harford County Health Department on all routine residential sampling result correspondence as affirmed, among other case requirements, in MDE correspondence dated May 28, 2015.

GES appreciates the continued guidance of the MDE on this project. If you have any questions or would like additional information please contact the undersigned at (800) 220-3606, extension 3726 or 3717, respectively or Herb Meade at (410) 261-5450.

Sincerely,

Peter Reichardt
Project Hydrogeologist

Gregory Reichart
Senior Project Manager

Enclosure

c: Jeannette DeBartolomeo – MDE (3 additional copies & CD)
Herb Meade –High's of Baltimore (electronic copy)
Todd Passmore – Apex
File – GES, MD (PSID 474618)

CONSULTANT CONTACT	Pete Reichardt, Groundwater & Environmental Services, Inc. (GES)
CLIENT CONTACT	Herb Meade, High's of Baltimore
SITE USE	Active commercial store and service station that operates one 10,000-gallon gasoline, two 8,000-gallon gasoline, and one 10,000-gallon compartmentalized diesel/kerosene.
SURROUNDING AREA	Residential and commercial
SENSITIVE RECEPTORS	Potable Wells: This site is served by one onsite supply well. The surrounding commercial and residential properties are all served by potable wells. Schools/Daycare/Hospitals: None Surface Water/Wetlands: None
Date of Most Recent Regulatory Correspondence:	May 28, 2015 - MDE *Work Plan Approval*

HISTORICAL ACTIVITY SUMMARY

1992	Four underground storage tanks (UST) were installed: one 10,000-gallon gasoline, two 8,000-gallon gasoline, and one 10,000-gallon compartmentalized diesel/kerosene.
06/2005	Three monitoring wells were installed pursuant to the new MTBE emergency regulations (COMAR 26.10.02).
09/28/05	The MDE-OCP received electronic notification from High's consultants of preliminary groundwater sampling data collected at 18 facilities operated by High's of Baltimore. The preliminary data included sampling results for the onsite drinking water well and monitoring well network located at Madonna High's No. 130.
11/30/05	The MDE-OCP issued a directive letter to High's requiring to perform UST vapor leak testing, UST system self-audit, conduct semiannual sampling of all monitoring wells and tank field monitoring pipes, conduct semiannual sampling of the onsite supply well and perform a half-mile drinking water well survey.
01/24/06	The MDE-OCP received the storage system test results, well receptor survey, and well sampling results.
02/08/06	The MDE-OCP received additional well receptor survey information.
11/13/06	The MDE-OCP received the storage system test results.
2/5/07	The MDE-OCP issues Official Notice requiring UST inspection by certified UST inspector within 30 days.
03/16/07	The MDE-OCP received the results of the spill basin and containment sump testing, performed 07/21/06. All spill basins and containment sumps passed.
12/24/07	The MDE-OCP received the results of the spill basin performed 12/20/07. All spill basins passed.
6/27/08	High's of Baltimore submits correspondence titled *Request for Reduction of Sampling Parameters* to MDE-OCP.
07/18/08	Based on the results in *Adjacent Well Sampling Event*, the MDE-OCP required that a granular activated carbon (GAC) filtration system be installed at 3914 Madonna Rd by August 2008.

HISTORICAL ACTIVITY SUMMARY (CONT.)

10/8/08	The MDE-OCP issues correspondence titled *Reduction in Sampling Parameters Denied.*
3/24/09	The MDE-OCP issues *Request for Subsurface Investigation* directive to the DNR Ranger Station facility located at 3919 Madonna Rd, Jarrettsville, MD.
1/7/10	The MDE-OCP issues *Official Notice* requiring UST inspection by certified UST inspector within 30 days.
6/22/10	The MDE-OCP issues correspondence to the 3919 Madonna Rd DNR Ranger Facility requesting an additional monitoring well at the property.
12/13/10	The MDE-OCP issues a *Site Status Letter* regarding determinations made from recent investigations at both the High's Store #130 and the 3919 Madonna Rd DNR Ranger Station. High's of Baltimore identified as responsible party for petroleum impacts at the 3914 and 3922 Madonna Rd and 3922 Greenpeak Rd properties.
04/2011	The Harford County Health Department collects additional water samples in the area including the 3921 Greenpeak Rd residence.
5/17/11	MDE grants Freedom of Information Act (FOIA) request to Nutshell Enterprises, regarding the Madonna Rd State Tower (DNR Ranger facility).
02/17/12	The MDE-OCP issues a *Site Status Letter* directing High's of Baltimore to continue the following: maintaining the GAC filtration system operation, quarterly sampling (and maintenance as needed) of the 3914 Madonna Rd carbon system, quarterly sampling at the 3921 Greenpeak Rd residence, annual sampling of the High's Store #130 onsite supply well, and semiannual sampling of the monitoring well network and tank field wells.
3/16/12	GES assumes role as environmental consultant for the project on behalf of High's of Baltimore.
5/15/12	The MDE-OCP provides clarification via email correspondence regarding a required quarterly sampling frequency for the 3922 Greenpeak Rd residence.
7/23/12	A carbon change out was performed on the 3914 Madonna Rd GAC filtration unit.
5/28/13	A carbon change out was performed on the 3914 Madonna Rd GAC filtration unit.
5/27/14	A carbon change out was performed on the 3914 Madonna Rd GAC filtration unit.
8/22/14	MTBE concentrations exceeded the MDE action level of 20 ug/l at 3921 Greenpeak Rd.
9/23/14	The MDE issued a directive letter requiring the installation of a GAC filtration system at 3921 Greenpeak Rd no later than October 30, 2014 and to commence monthly sampling of the GAC filtration system before November 15, 2014 for a three month duration.
10/6/15	GES received acknowledgement from the MDE for its request for information under the Public Information Act (PIA) regarding potable well locations in site's local vicinity.
10/30/14	Signed Access Agreement received from the property owner of 3921 Greenpeak Rd.
11/11/14	GAC filtration system installed at 3921 Greenpeak Rd; monthly sampling initiated for a three-month duration (November/December/January) and then resumed to a quarterly frequency.
02/24/15	*Site Investigation Work Plan* submitted to MDE outlining installation of three pairs of 2-inch MWs (1 shallow and 1 deep for each MW pair).
4/17/15	Onsite meeting with High's and the MDE occurred to discuss the proposed monitoring well locations presented in the *Site Investigation Work Plan*.
05/28/15	MDE issues *Site Investigation Work Plan* approval.
06/29/15	Monitoring well installations begins.
7/15/15	Monitoring well installation and development is completed.
7/30/15	New monitoring wells MW-4, 4D, 5, 5D, 6 and 6D are sampled.

REGULATORY INTERACTION

Agency:	Maryland Department of the Environment
Agency Contact:	Jeannette DeBartolomeo
MDE Case #:	2006-0442-HA

SCHEDULE OF ROUTINE ACTIVITIES

Groundwater Sampling:	Semiannual – All monitoring wells and tank field wells
Laboratory Analyses:	*Full-suite volatile organic compounds (VOCs), including oxygenates and naphthalene, via EPA Method 8015 and TPH-GRO and TPH-DRO via EPA Method 8260*
GAC System Location:	**Sampling Frequency:**
3914 Madonna Rd	Quarterly
3921 Greenpeak Rd	Quarterly (monthly Nov/Dec/Jan following GAC system installation on 11/11/14, then quarterly)
Potable Well Location:	**Sampling Frequency:**
3908 Madonna Rd	Annually
3922 Greenpeak Rd	Quarterly
3922 Madonna Rd	Annually
Onsite Supply Well Sampling:	**Sampling Frequency:**
4101 Norrisville Rd	Annually
Laboratory Analyses:	*Full-suite VOCs, including oxygenates and naphthalene, via EPA Method 524.2*

SEMIANNUAL GROUNDWATER DATA SUMMARY

Groundwater Sampling Date:	May 26, 2015
# of Wells/# Sampled (including TF wells):	7/3 (TF wells not sampled due to insufficient water)
Groundwater Elevation Range (ft):	73.91 feet (MW-1) to 75.37 feet (MW-2)
Maximum Benzene:	Non-detect
Maximum BTEX:	Non-detect
Maximum MTBE:	Non-detect
Maximum TPH-DRO:	Non-detect
Maximum TPH-GRO:	Non-detect

FUTURE ACTIVITIES – Second Semiannual Period 2015

- Conduct quarterly residential well sampling.
- Continue maintenance of the GAC filtration systems at 3914 Madonna Rd and 3921 Greenpeak Rd.
- Complete and submit *Monitoring Well Installation Report* to the MDE.
- Conduct Second Semiannual 2015 groundwater monitoring event in November 2015.

ATTACHMENTS

FIGURES

Figure 1	Site Location Map
Figure 2	Aerial Map
Figure 3	Local Area Map
Figure 4	Site Map
Figure 5	Groundwater Monitoring Map

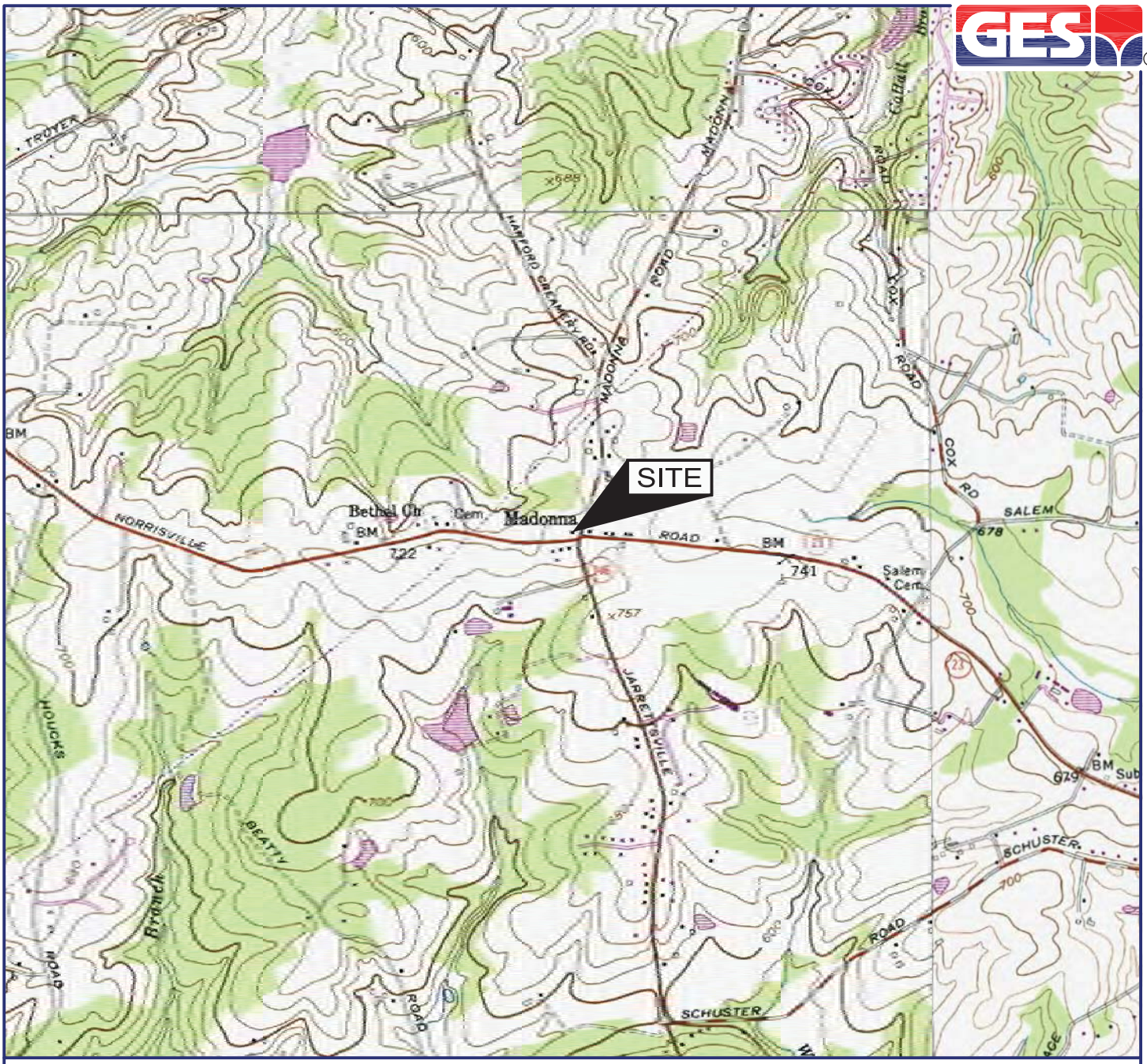
TABLES

Table 1	Historical Monitoring Well Analytical Data Summary
Table 2	Historical Potable Well Analytical Data Summary

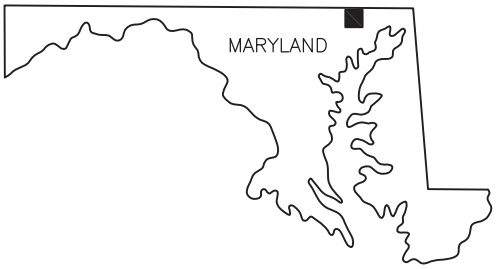
APPENDIX

Appendix A	Laboratory Reports and Chain-of-Custody Documentation

FIGURES



SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1974
PHOENIX, MARYLAND
CONTOUR INTERVAL = 20'



QUADRANGLE LOCATION

DRAFTED BY: B.C.S. (N.J.)	SITE LOCATION MAP
CHECKED BY: DR	HIGH'S STORE #130 4101 NORRISVILLE ROAD MADONNA, MARYLAND
REVIEWED BY: GR	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113

SCALE IN FEET	DATE	FIGURE
0 — 2000	4-9-12	1

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LEGEND

APPROXIMATE PROPERTY BOUNDARY

1	3934 MADONNA ROAD
2	3928 MADONNA ROAD
3	3925 GREENPEAK ROAD
4	3923 GREENPEAK ROAD
5	3922 MADONNA ROAD
6	3921 GREENPEAK ROAD
7	3922 GREENPEAK ROAD
8	3924 GREENPEAK ROAD
9	3914 MADONNA ROAD
10	3908 MADONNA ROAD
11	3921 MADONNA ROAD
12	3923 MADONNA ROAD
13	3919 MADONNA ROAD
14	3911 MADONNA ROAD
15	4111 CHARBONNET DRIVE
16	4051 NORRISVILLE ROAD
17	4053 NORRISVILLE ROAD
18	4055 NORRISVILLE ROAD
19	4057 NORRISVILLE ROAD
20	4059A NORRISVILLE ROAD
21	4059 NORRISVILLE ROAD
22	4065 NORRISVILLE ROAD
23	4105 NORRISVILLE ROAD
24	4117 NORRISVILLE ROAD
25	3862 NORRISVILLE ROAD
26	3865 NORRISVILLE ROAD
27	4100 NORRISVILLE ROAD
28	4102 NORRISVILLE ROAD
29	4106 NORRISVILLE ROAD
30	4122 NORRISVILLE ROAD
31	4109 CHARBONNET DRIVE
32	4107 CHARBONNET DRIVE
33	4110 CHARBONNET DRIVE
34	4108 CHARBONNET DRIVE
35	4106 CHARBONNET DRIVE
36	4104 CHARBONNET DRIVE
37	4102 CHARBONNET DRIVE
38	4100 CHARBONNET DRIVE

DRAFTED BY: W.A.W. (N.J.)

CHECKED BY:

REVIEWED BY:

NORTH

AERIAL MAP

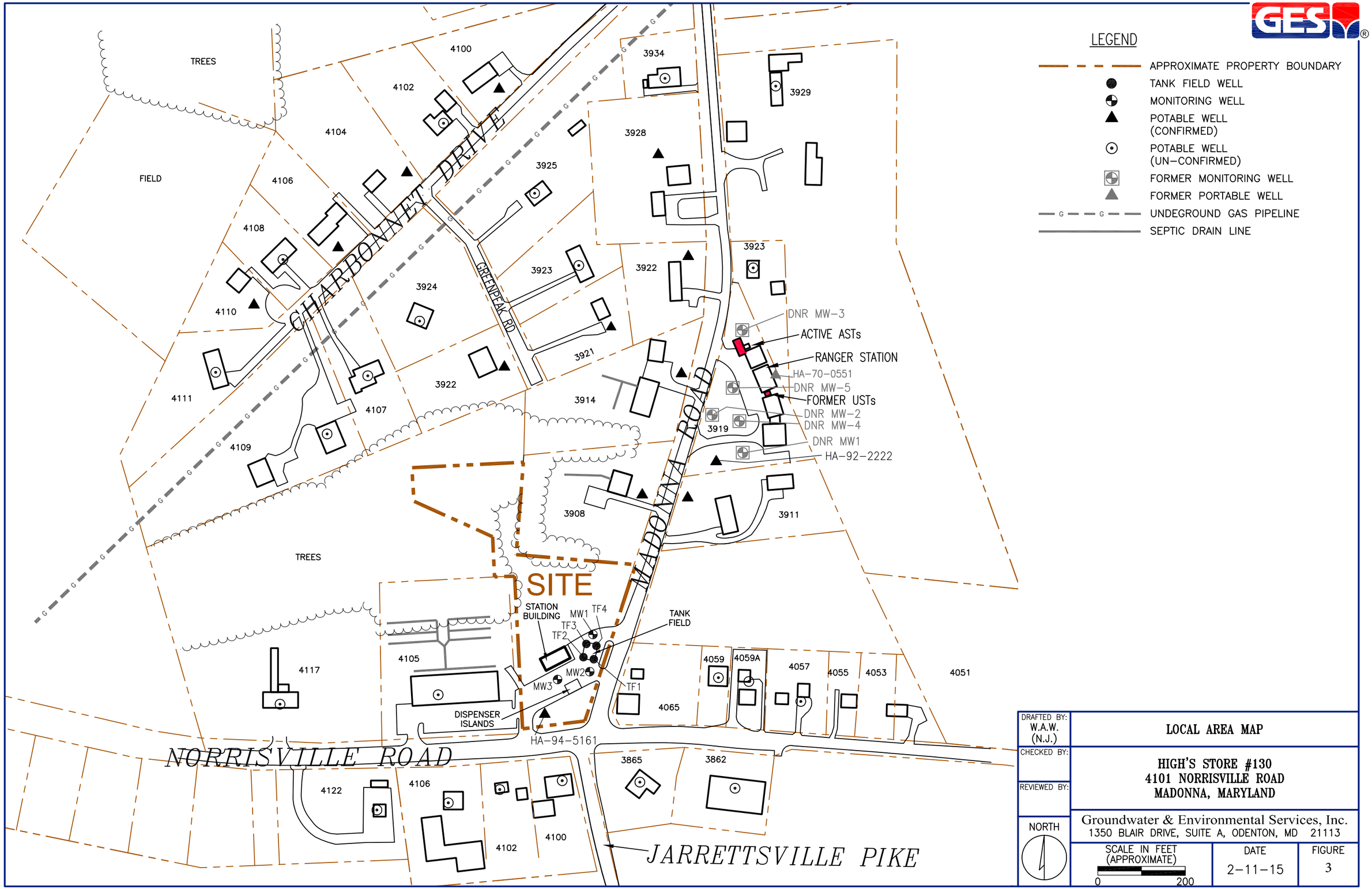
HIGH'S STORE #130
4101 NORRISVILLE ROAD
MADONNA, MARYLAND

Groundwater & Environmental Services, Inc.
1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113

SCALE IN FEET (APPROXIMATE): 0 – 300

DATE: 2-11-15

FIGURE: 2



DRAFTED BY: W.A.W. (N.J.)	LOCAL AREA MAP
CHECKED BY:	HIGH'S STORE #130 4101 NORRISVILLE ROAD MADONNA, MARYLAND
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
SCALE IN FEET (APPROXIMATE) 0 200	DATE 2-11-15 / FIGURE 3

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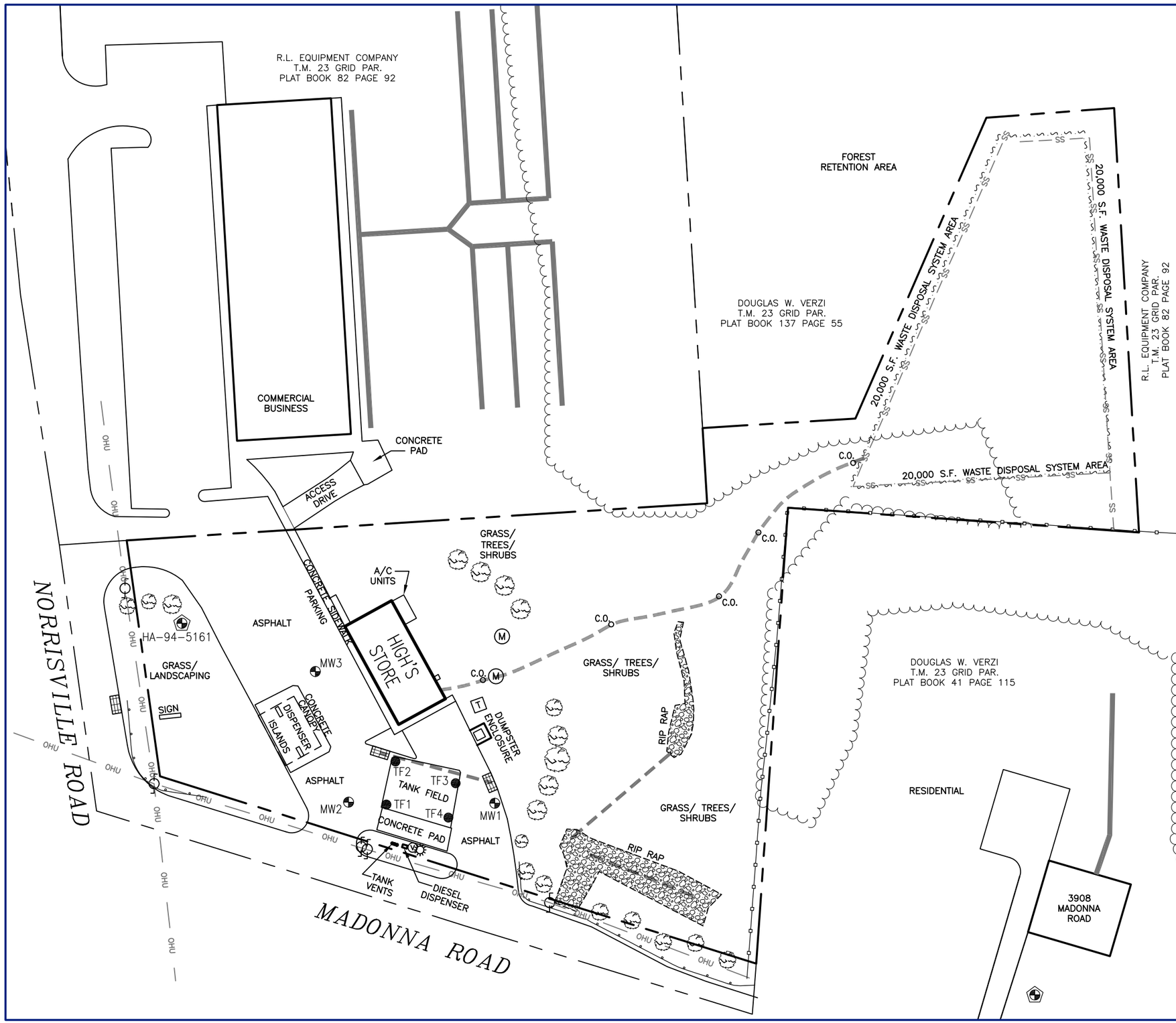

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GUARDRAIL
- WOOD FENCE
- TREE LINE
- CATCH BASIN
- UTILITY POLE
- SANITARY SEWER UTILITY MANHOLE
- C.O. SANITARY SEWER CLEANOUT
- PAD MOUNTED TRANSFORMER
- AREA LIGHT
- VACUUM STATION
- MONITORING WELL
- TANK FIELD WELL
- POTABLE WATER SUPPLY WELL (CONFIRMED)
- OHU OVERHEAD UTILITY LINES
- SS PLATED 20,000 S.F. WASTE WATER DISPOSAL SYSTEM
- WASTE WATER LINE TO RETENTION AREA
- SEPTIC

DRAFTED BY: W.A.W. (N.J.)	SITE MAP
CHECKED BY: D.R.	HIGH'S STORE #130 4101 NORRISVILLE ROAD MADONNA, MARYLAND
REVIEWED BY: P.R.	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
NORTH	SCALE IN FEET: 0 APPROXIMATE 60 / DATE: 2-11-15 / FIGURE: 4

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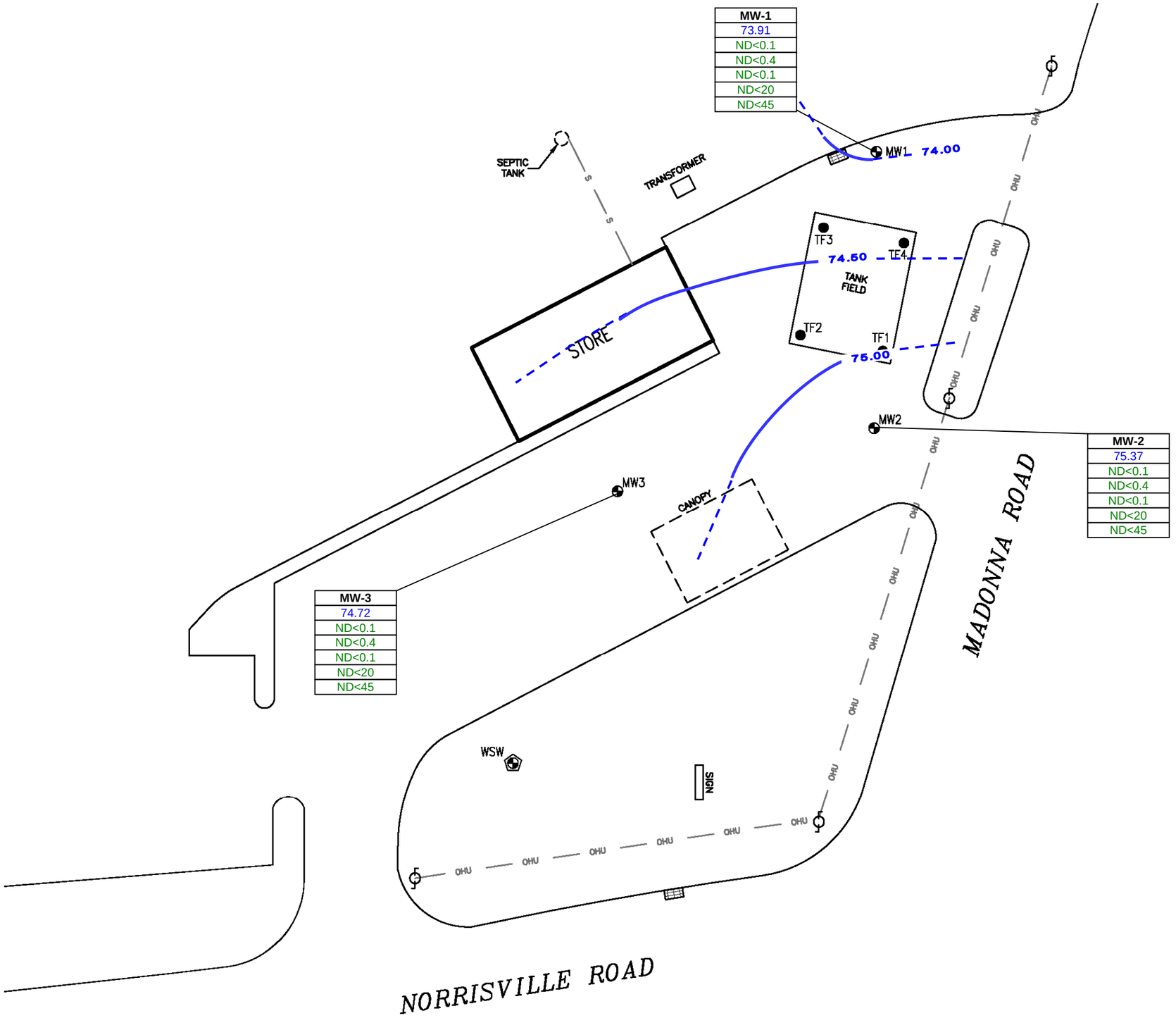

LEGEND

- CATCH BASIN
- UTILITY POLE
- WSW — WATER SUPPLY WELL
- TANK FIELD WELL
- MONITORING WELL
- OHU — OVERHEAD UTILITIES
- S — SEPTIC TANK

Sample ID	WELL IDENTIFICATION
GW Elevation	GROUNDWATER ELEVATION (Feet)
Benzene	BENZENE CONCENTRATION (µg/L)
Total BTEX	Total BTEX (µg/L)
MTBE	MTBE CONCENTRATION (µg/L)
TPH-GRO	TPH-GRO CONCENTRATIONS (µg/L)
TPH-DRO	TPH-DRO CONCENTRATIONS (µg/L)

µg/L MICROGRAMS PER LITER

BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES

MTBE METHYL TERT-BUTYL ETHER

TPH TOTAL PHASE HYDROCARBONS

GRO GASOLINE RANGE ORGANICS

ND< (#) WHERE AN ANALYTE IS NOT DETECTED, THE REPORTING LIMIT IS GIVEN

GROUNDWATER CONTOUR INTERVAL (feet)

INFERRED CONTOUR INTERVAL (feet)

DRAFTED BY: LK	GROUNDWATER MONITORING MAP MAY 26, 2015
CHECKED BY: DM	HIGH'S STORE #130 4101 NORRISVILLE ROAD MADONNA, MARYLAND
REVIEWED BY: GR	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
NORTH	SCALE IN FEET: 0 APPROXIMATE 30 / DATE: 07-29-15 / FIGURE: 5

TABLES

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Bottom (Measured Depth) (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
GW Clean-up Standards*						**5.00**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**47**	**47**
DNR MW-01	04/30/2010	757.14	29.56	727.58	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	09/17/2010	757.14	35.78	721.36	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	12/22/2010	757.14	37.18	719.96	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	03/15/2011	757.14	36.78	720.36	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	07/06/2011	757.14	31.22	725.92	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	09/30/2011	757.14	33.72	723.42	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
DNR MW-02	04/30/2010	758.00	33.95	724.05	-	ND	ND	ND	ND	ND	76.9	ND	-	-	-	-	-	ND	-
	09/17/2010	758.00	40.11	717.89	-	ND	ND	ND	ND	ND	46.4	ND	-	-	-	-	-	ND	-
	12/22/2010	758.00	41.49	716.51	-	ND	ND	ND	ND	ND	63.8	ND	-	-	-	-	-	ND	-
	03/15/2011	758.00	40.89	717.11	-	ND	ND	ND	ND	ND	117	ND	-	-	-	-	-	ND	-
	07/06/2011	758.00	35.74	722.26	-	ND	ND	ND	ND	ND	46.4	ND	-	-	-	-	-	ND	-
	09/30/2011	758.00	38.17	719.83	-	ND	ND	ND	ND	ND	33.7	ND	-	-	-	-	-	ND	-
DNR MW-03	04/30/2010	755.07	37.49	717.58	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	09/17/2010	755.07	43.91	711.16	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	12/22/2010	755.07	45.71	709.36	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	03/15/2011	755.07	45.20	709.87	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	07/06/2011	755.07	39.92	715.15	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	09/30/2011	755.07	47.65	707.42	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
DNR MW-04	09/17/2010	757.52	40.15	717.37	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	12/22/2010	757.52	41.41	716.11	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	03/15/2011	757.52	40.83	716.69	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	07/06/2011	757.52	36.59	720.93	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
	09/30/2011	757.52	37.90	719.62	-	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND	-
DNR MW-05	09/17/2010	758.54	42.24	716.30	-	ND	ND	ND	ND	ND	112	ND	-	-	-	-	-	ND	-
	12/22/2010	758.54	43.54	715.00	-	ND	ND	ND	ND	ND	75.6	ND	-	-	-	-	-	ND	-
	03/15/2011	758.54	42.79	715.75	-	ND	ND	ND	ND	ND	110	ND	-	-	-	-	-	ND	-
	07/06/2011	758.54	38.47	720.07	-	ND	ND	ND	ND	ND	217	ND	-	-	-	-	-	ND	-
	09/30/2011	758.54	41.23	717.31	-	ND	ND	ND	ND	ND	111	ND	-	-	-	-	-	ND	-

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Bottom (Measured Depth) (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
GW Clean-up Standards*						**5.00**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**47**	**47**
MW-1	07/13/2005	-	18.71	-	-	ND	2	ND	ND	2	1300	-	-	-	-	-	-	ND<1000	ND<1000
	12/28/2005	-	21.73	-	-	ND	15	ND	ND	15	1600	-	-	-	-	-	-	1500	ND
	06/15/2006	-	20.66	-	-	ND	ND	ND	ND	ND	1200	-	-	-	-	-	-	900	ND
	01/17/2007	-	21.02	-	-	ND	ND	ND	ND	ND	140	-	-	-	-	-	-	ND	ND
	07/31/2007	-	20.78	-	-	ND	ND	ND	ND	ND	190	-	-	-	-	-	-	ND	350
	01/23/2008	-	24.44	-	-	ND	ND	ND	ND	ND	76	-	-	-	-	-	-	ND	ND
	07/24/2008	-	21.68	-	-	ND	ND	ND	ND	ND	210	-	-	-	-	-	-	300	ND
	01/30/2009	-	25.01	-	33.66	ND	ND	ND	ND	ND	73	-	-	-	-	-	-	ND	260
	07/20/2009	-	23.51	-	33.66	ND	ND	ND	ND	ND	120	-	-	-	-	-	-	ND	ND
	03/01/2010	-	18.80	-	-	ND	ND	ND	ND	ND	130	-	-	-	-	-	-	ND	ND
	07/31/2010	-	19.91	-	33.66	ND	ND	ND	ND	ND	87	-	-	-	-	-	-	230	ND
	01/31/2011	-	23.41	-	33.66	6	ND	ND	ND	6	47	-	-	-	-	-	-	ND	260
	07/26/2011	-	19.79	-	33.66	38	ND	ND	ND	38	25	-	-	-	-	-	-	580	ND
	01/30/2012	-	18.96	-	33.50	27	ND	ND	ND	27	26	-	-	-	-	-	-	200	250
	07/05/2012	96.13	21.76	74.37	33.61	20.10	ND<2	ND<2	ND<4	20.10	17.60	ND<2	12.30	ND<2	ND<2	530	ND<2	ND<100	ND<300
	02/18/2013	96.13	23.18	72.95	33.53	8.41	ND<1.00	ND<1.00	ND<2.00	8.41	20.90	ND<1.00	12.10	ND<1.00	ND<1.00	402	ND<1.00	ND<100	ND<152
	08/20/2013	96.13	22.15	73.98	34.25	2.24	ND<1.00	ND<1.00	ND<2.00	2.24	9.94	ND<1.00	8.26	ND<1.00	ND<1.00	372	ND<1.00	ND<100	ND<300
	03/04/2014	96.13	21.73	74.40	35.70	ND<1.00	ND<1.00	ND<1.00	ND<2.00	ND<5.00	11.2	ND<1.00	12.40	1.18	ND<1.00	153	ND<1.00	ND<100	ND<150
	08/22/2014	96.13	19.36	76.77	35.10	ND<1.00	ND<1.00	ND<1.00	ND<2.00	ND<5.00	8.08	ND<1.00	7.13	ND<1.00	ND<1.00	73	ND<1.00	ND<100	ND<152
	05/26/2015	96.13	22.22	73.91	35.10	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<4.0	ND<1.00	ND<20	ND<45
MW-2	07/13/2005	-	19.64	-	-	ND	1.00	ND	ND	1	9	-	-	-	-	-	-	ND<1000	ND<1000
	12/28/2005	-	22.85	-	-	9	16	6	26	57	15	-	-	-	-	-	-	300	ND
	06/15/2006	-	21.65	-	-	ND	ND	ND	ND	ND	26	-	-	-	-	-	-	ND	300
	01/17/2007	-	22.03	-	-	ND	ND	ND	ND	ND	42	-	-	-	-	-	-	ND	ND
	07/31/2007	-	21.84	-	-	ND	ND	ND	ND	ND	4	-	-	-	-	-	-	ND	380
	01/23/2008	-	25.50	-	-	ND	ND	ND	ND	ND	2	-	-	-	-	-	-	ND	ND
	07/24/2008	-	22.42	-	-	ND	ND	ND	ND	ND	3	-	-	-	-	-	-	ND	ND
	01/30/2009	-	25.96	-	30.76	ND	ND	ND	ND	ND	4	-	-	-	-	-	-	ND	ND
	07/20/2009	-	24.35	-	30.76	ND	ND	ND	ND	ND	5	-	-	-	-	-	-	ND	ND
	03/01/2010	-	19.97	-	-	ND	ND	ND	ND	ND	4	-	-	-	-	-	-	ND	ND
	07/31/2010	-	20.35	-	30.76	ND	ND	ND	ND	ND	3	-	-	-	-	-	-	ND	ND
	01/31/2011	-	24.14	-	30.76	ND	ND	ND	ND	ND	6	-	-	-	-	-	-	ND	ND
	07/26/2011	-	20.50	-	30.76	ND	ND	ND	ND	ND	4	-	-	-	-	-	-	ND	ND

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Bottom (Measured Depth) (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
GW Clean-up Standards*						**5.00**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**47**	**47**
MW-2	01/30/2012	-	19.96	-	31.20	ND	ND	ND	ND	ND	5	-	-	-	-	-	-	ND	ND
(cont.)	07/05/2012	98.39	22.56	75.83	31.22	ND<2	ND<2	ND<2	ND<4	ND<10	5.18	ND<2	ND<2	ND<2	ND<2	ND<10	ND<2	ND<100	ND<158
	02/18/2013	98.39	24.52	73.87	31.25	ND<1.00	ND<1.00	ND<1.00	ND<2.00	ND<5.00	5.85	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<5.00	ND<1.00	ND<100	ND<152
	08/20/2013	98.39	23.01	75.38	31.11	ND<1.00	ND<1.00	ND<1.00	ND<2.00	ND<5.00	3.64	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<5.00	ND<1.00	ND<100	ND<300
	03/04/2014	98.39	23.15	75.24	31.11	ND<1.00	ND<1.00	ND<1.00	ND<2.0	ND<5.0	5.28	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<5.00	ND<1.00	ND<100	ND<150
	08/22/2014	98.39	19.90	78.49	31.37	ND<1.00	ND<1.00	ND<1.00	ND<2.0	ND<5.0	4.36	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<5.00	ND<1.00	ND<100	ND<153
	05/26/2015	98.39	23.02	75.37	31.37	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<4.0	ND<1.00	ND<20	ND<45
MW-3	07/13/2005	-	19.79	-	-	ND	1	ND	ND	1	180	-	-	-	-	-	-	600	ND<1000
	12/28/2005	-	22.91	-	-	6	12	4	21	43	280	-	-	-	-	-	-	ND	720
	06/15/2006	-	21.70	-	-	ND	ND	ND	ND	ND	330	-	-	-	-	-	-	ND	ND
	01/17/2007	-	22.16	-	-	ND	ND	ND	ND	ND	140	-	-	-	-	-	-	ND	ND
	07/31/2007	-	21.98	-	-	ND	ND	ND	ND	ND	190	-	-	-	-	-	-	ND	ND
	01/23/2008	-	25.46	-	-	ND	ND	ND	ND	ND	69	-	-	-	-	-	-	ND	ND
	07/24/2008	-	22.49	-	-	ND	ND	ND	ND	ND	12	-	-	-	-	-	-	ND	ND
	01/30/2009	-	25.84	-	36.03	ND	ND	ND	ND	ND	3	-	-	-	-	-	-	ND	ND
	07/20/2009	-	24.30	-	36.03	ND	7.00	ND	ND	7	4	-	-	-	-	-	-	ND	260
	03/01/2010	-	20.03	-	-	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	ND	1100
	07/31/2010	-	20.41	-	36.03	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	ND	240
	01/31/2011	-	23.90	-	36.03	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	ND	450
	07/26/2011	-	20.58	-	36.03	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	ND	ND
	01/30/2012	-	20.04	-	31.00	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	ND	230
	07/05/2012	97.79	22.60	75.19	30.95	ND<2	ND<2	ND<2	ND<4	ND<10	3.16	ND<2	ND<2	ND<2	ND<2	ND<10	ND<2	ND<100	261
	02/18/2013	97.79	24.45	73.34	31.40	ND<1.00	ND<1.00	ND<1.00	ND<2.00	ND<5.00	4.66	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<5.00	ND<1.00	ND<100	835
	08/20/2013	97.79	23.03	74.76	35.70	ND<1.00	ND<1.00	ND<1.00	ND<2.00	ND<5.00	2.32	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<5.00	ND<1.00	ND<100	ND<600
	03/04/2014	97.79	23.21	74.58	34.25	ND<1.00	ND<1.00	ND<1.00	ND<2.00	ND<5.00	3.80	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<5.00	ND<1.00	ND<100	ND<153
	08/22/2014	97.79	19.98	77.81	34.93	ND<1.00	ND<1.00	ND<1.00	ND<2.00	ND<5.00	2.07	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<5.00	ND<1.00	ND<100	ND<152
	05/26/2015	97.79	23.07	74.72	34.93	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<4.0	ND<1.00	ND<20	ND<45
TF-1	01/30/2009	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/20/2009	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/31/2010	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	01/31/2011	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/26/2011	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Bottom (Measured Depth) (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
GW Clean-up Standards*						**5.00**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**47**	**47**
TF-1	01/30/2012	-	12.06	-	12.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(cont.)	07/05/2012	-	DRY	-	12.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02/18/2013	-	DRY	-	12.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/20/2013	-	DRY	-	12.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03/04/2014	-	DRY	-	12.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/22/2014	-	DRY	-	12.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05/26/2015	-	DRY	-	12.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-2	01/30/2009	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/20/2009	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/31/2010	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	01/31/2011	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/26/2011	-	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	01/30/2012	-	DRY	-	11.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/05/2012	-	DRY	-	12.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02/18/2013	-	DRY	-	12.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/20/2013	-	DRY	-	12.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03/04/2014	-	11.95	-	12.06	-	-	-		-	-	-	-	-	-	-	-	-	-
	08/22/2014	-	12.01	-	12.04	-	-	-		-	-	-	-	-	-	-	-	-	-
	05/26/2015	-	DRY	-	12.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-3	01/30/2012	-	12.24	-	12.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/05/2012	-	DRY	-	13.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02/18/2013	-	DRY	-	12.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/20/2013	-	DRY	-	12.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03/04/2014	-	12.75	-	12.79	-	-	-		-	-	-	-	-	-	-	-	-	-
	08/22/2014	-	12.72	-	12.85	-	-	-		-	-	-	-	-	-	-	-	-	-
	05/26/2015	-	DRY	-	12.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	01/30/2012	-	12.43	-	12.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/05/2012	-	DRY	-	12.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	02/18/2013	-	12.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/20/2013	-	12.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03/04/2014	-	13.03	-	13.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Bottom (Measured Depth) (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
GW Clean-up Standards*						**5.00**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**47**	**47**
TF-4	08/22/2014	-	13.12	-	13.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(cont.)	05/26/2015	-	12.87	-	13.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* GW Cleanup Standards are the Maryland Department of the Environment (MDE) Groundwater Clean-up Standards for Type I and II Aquifers, except for TPH-GRO and TPH-DRO, which are Residential Clean-up Standards for Groundwater.
Please note that the top of casing for the DNR monitoring wells is not tied into the same elevations as the High's monitoring wells.

ND<# = Non-detect less than the method detection limit of #
µg/L = Micrograms/Liter
MTBE = Methyl Tertiary Butyl Ether
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
BTEX = Benzene, toluene, ethylbenzene, xylenes
- = No data available

Table 2

HISTORICAL POTABLE WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	Methylene Chloride (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**6**
4111 CHARBONNET	03/14/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
3921 GREENPEAK	04/18/2011	-	-	-	-	-	12.45	-	-	-	-	-	0.57	-
	05/17/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	10.9	-	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	06/25/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	14.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	09/24/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	8.02	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/12/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	12.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	02/18/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	18.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/07/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	12.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	08/20/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	12.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	11/11/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	12.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	03/11/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	16.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/15/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	19.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	06/20/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	17.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	08/22/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	20.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
3921 GREENPEAK-INF	11/25/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	17.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/10/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	17.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	01/20/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	17	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	0.1 J	ND<0.3
	04/17/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	21	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	0.1 J	ND<0.3
3921 GREENPEAK-MID	11/25/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/10/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	01/20/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3
	04/17/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3
3921 GREENPEAK-EFF	11/25/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/10/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	01/20/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3
	04/17/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3

Table 2

HISTORICAL POTABLE WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	Methylene Chloride (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**6**
3922 GREENPEAK	08/27/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	6.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	03/13/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	7.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	04/12/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	15	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	04/14/2011	-	-	-	-	-	9.23	-	-	-	-	-	-	-
	07/22/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	8.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	12/06/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	5.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	03/27/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	6.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	06/25/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	7.06	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	09/24/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	4.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/12/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	5.94	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	02/18/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	10.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/17/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	6.66	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	08/20/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	7.83	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	11/11/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	7.16	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	03/04/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	6.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/15/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	9.24	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	06/13/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	7.93	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	09/18/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	7.43	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	11/25/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	6.64	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	02/19/2015	ND<0.1	0.2 J	ND<0.1	ND<0.1	0.2	8.3	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3
	05/26/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	8.5	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3
3923 GREENPEAK	04/18/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	0.57	ND<0.5	-	ND<0.5	ND<0.5	-	ND<0.5	ND<0.5
3924 GREENPEAK	04/14/2011	-	-	-	-	-	0.59	-	-	-	-	-	-	-
3908 MADONNA	08/27/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	
	04/12/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	03/27/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	02/18/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5

Table 2

HISTORICAL POTABLE WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	Methylene Chloride (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**6**
3908 MADONNA	10/30/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	13.4
(cont.)	02/19/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3
3911 MADONNA	08/27/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
3914 MADONNA-INF	04/29/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	41	ND<0.5	-	ND<0.5	ND<0.5	-	-	-
	06/06/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	58.1	ND<0.5	-	ND<0.5	ND<0.5	-	-	-
	06/12/2008	-	-	-	-	-	58.1	-	-	-	-	-	-	-
	08/27/2008	-	-	-	-	-	57	-	-	-	-	-	-	-
	09/11/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	10/28/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	46	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	11/25/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	66	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	12/28/2008	-	-	-	-	-	46	-	-	-	-	-	-	-
	12/30/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	40	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	03/13/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	47	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	06/25/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	34	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	08/10/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	40	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	11/02/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	35	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	02/22/2010	-	-	-	-	-	3.4	-	-	-	-	-	-	-
	07/28/2010	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	72	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	01/07/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	36.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	04/12/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	42	ND<0.5	ND<0.5	ND<0.5	ND	8.4	-	ND<0.5
	07/22/2011	-	-	-	-	-	43.8	-	-	-	-	-	-	-
	12/06/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	03/27/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	30.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	06/25/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	37.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	09/24/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	10/17/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	30.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/12/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	33	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	02/18/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	44.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5

Table 2

HISTORICAL POTABLE WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	Methylene Chloride (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**6**
3914 MADONNA-INF	05/07/2013	ND<0.5	0.53	ND<0.5	ND<1	1.00	24.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
(cont.)	08/20/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	36	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/11/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	45	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	03/04/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/15/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	29.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	08/22/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	38	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	11/25/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	42.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/26/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	29	ND<0.2	ND<0.1	ND<0.1	0.1 J	ND<2.5	ND<0.1	ND<0.3
3914 MADONNA-MID	09/11/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	10/28/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	11/25/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	12/30/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	03/13/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	06/25/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	18	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	08/10/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	45	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	11/02/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	0.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	02/22/2010	-	-	-	-	-	0.6	-	-	-	-	-	-	-
	07/28/2010	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	0.4	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	01/07/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	04/12/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	1.7	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	07/22/2011	-	-	-	-	-	2.2	-	-	-	-	-	-	-
	12/06/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	1.1	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	03/27/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	06/25/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	1.62	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	09/24/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	27	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	10/17/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/12/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	02/18/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/07/2013	ND<0.5	0.61	ND<0.5	ND<1	1.00	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5

Table 2

HISTORICAL POTABLE WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	Methylene Chloride (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**6**
3914 MADONNA-MID (cont.)	08/20/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/11/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	03/04/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/15/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	1.04	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	08/22/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	11/25/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/26/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3
3914 MADONNA-EFF	08/27/2008	-	-	-	-	-	ND	-	-	-	-	-	-	-
	09/11/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	10/28/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	11/25/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	12/30/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	03/13/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	06/25/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	08/10/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	11/02/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	02/22/2010	-	-	-	-	-	1.9	-	-	-	-	-	-	-
	07/28/2010	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	01/07/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	04/12/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	07/22/2011	-	-	-	-	-	ND	-	-	-	-	-	-	-
	12/06/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	30.7	ND<0.5	ND<0.5	ND<0.5	ND	ND	-	ND<0.5
	01/30/2012	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	03/27/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	06/25/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	09/24/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	10/17/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	12/12/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	02/18/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/07/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5

Table 2

HISTORICAL POTABLE WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	Methylene Chloride (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**6**
3914 MADONNA-EFF	08/20/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
(cont.)	12/11/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	03/04/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/15/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	08/22/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	11/25/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	05/26/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3
3919 MADONNA-INF	04/12/2005	-	-	-	-	-	16.2	-	-	-	-	-	-	-
HA-70-0551	06/24/2005	-	-	-	-	-	10.8	-	-	-	-	-	-	-
	03/21/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	23.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	07/11/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	22.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	06/01/2009	ND	ND	ND	ND	ND	20.5	ND	ND	ND	ND	ND	ND	ND
	04/30/2010	ND	ND	ND	ND	ND	1.59	ND	-	-	-	-	-	-
	09/17/2010	ND	ND	ND	ND	ND	15.1	ND	-	-	-	-	-	-
	12/22/2010	ND	ND	ND	ND	ND	10.5	ND	-	-	-	-	-	-
	04/18/2011	ND	ND	ND	ND	ND	27.76	ND	ND	ND	ND	ND	ND	ND
	07/06/2011	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	09/30/2011	ND	ND	ND	ND	ND	27.9	ND	-	-	-	-	-	-
3919 MADONNA-MID	04/30/2010	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	09/17/2010	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	12/22/2010	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	07/06/2011	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	09/30/2011	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	04/18/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3919 MADONNA-EFF	04/30/2010	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	09/17/2010	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	12/22/2010	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
	07/06/2011	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-

Table 2

HISTORICAL POTABLE WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	Methylene Chloride (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**6**
3919 MADONNA-EFF	09/30/2011	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
(cont.)	04/18/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3919 MADONNA (NEW)	3/16/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-95-2222	02/06/2013	ND	10.74	ND	ND	10.74	ND	ND	ND	ND	ND	ND	ND	ND
	10/30/2014	ND<0.5	0.760	ND<0.5	ND<1.5	0.760	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
3922 MADONNA	06/06/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	0.89	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	1.39	ND<1
	04/12/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	-	ND<0.5
	04/14/2011	-	-	-	-	-	1.82	-	-	-	-	-	0.88	-
	03/27/2012	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	02/18/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	3.03	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	0.64	ND<0.5
	03/25/2014	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	2.72	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	0.58	ND<0.5
	05/26/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	5.1	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.5	ND<0.3
3923 MADONNA	08/19/2008	-	-	-	-	-	-	-	-	-	-	-	0.59	-
3928 MADONNA	04/14/2011	-	-	-	-	-	ND<0.5	-	-	-	-	-	-	-
4065 NORRISVILLE	04/29/2008	-	-	-	-	-	ND	-	-	-	-	-	-	-
	05/16/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	-	ND<0.5	ND<0.5	-	-	-
	06/27/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	-	ND<0.5	ND<0.5	-	-	-
	07/08/2008	-	-	-	-	-	ND	-	-	-	-	-	-	-
4101 NORRISVILLE (ONSITE SUPPLY WELL)	06/15/2005	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	-	-	-	-	-	-
	12/28/2005	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	-	-	-	-	-	-
	06/15/2006	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	01/17/2007	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	07/31/2007	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	01/23/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	07/24/2008	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-

Table 2

HISTORICAL POTABLE WELL ANALYTICAL DATA SUMMARY

High's Store #130
4101 Norrisville Road
Madonna, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Tetrachloroethene (µg/L)	Methylene Chloride (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**NA**	**20**	**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**6**
4101 NORRISVILLE (ONSITE SUPPLY WELL) (cont.)	01/30/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	07/20/2009	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	02/18/2009	-	-	-	-	-	1.99	-	-	-	-	-	-	-
	03/01/2010	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	07/31/2010	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	01/31/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	04/18/2011	-	-	-	-	-	ND<0.05	-	-	-	-	-	-	-
	05/02/2011	-	-	-	-	-	3.04	-	-	-	-	-	-	-
	07/26/2011	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	01/30/2012	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<3.0	ND<0.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	-	-
	02/18/2013	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	03/04/2014	ND<0.5	1.04	ND<0.5	ND<1	1.04	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND<0.5
	07/08/2015	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.4	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND<0.1	ND<2.5	ND<0.1	ND<0.3
4105 NORRISVILLE	09/07/1993	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	ND
	11/08/1995	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/24/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/18/2009	-	-	-	-	-	1.99	-	-	-	-	-	-	-

* GW Cleanup Standards are the Maryland Department of the Environment (MDE) Groundwater Clean-up Standards for Type I and II Aquifers.

<# = Less than the method detection limit of #
µg/L = Micrograms/Liter
MTBE = Methyl Tertiary Butyl Ether
BTEX = Benzene, toluene, ethylbenzene, xylenes
\- = No data available

APPENDIX A

Laboratory Report and Chain-of-Custody Documentation

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

REVISED

Sample Description: MW-1 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 7905139
LL Group # 1564651
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 11:15 by JP

Submitted: 05/28/2015 16:15
Reported: 07/10/2015 16:04

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MDN01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1

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Analysis Report

REVISED

Sample Description: MW-1 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 7905139
LL Group # 1564651
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 11:15 by JP

Submitted: 05/28/2015 16:15
Reported: 07/10/2015 16:04

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MDN01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C151541AA	06/03/2015 23:20	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C151541AA	06/03/2015 23:20	Sara E Johnson	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15150A53A	05/30/2015 10:11	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15150A53A	05/30/2015 10:11	Jeremy C Giffin	1
12858	TPH-DRO 8015B	SW-846 8015B	1	151590003A	06/09/2015 11:48	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	151590003A	06/08/2015 00:00	David V Hershey Jr	1

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Analysis Report

REVISED

Sample Description: MW-2 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 7905140
LL Group # 1564651
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 11:45 by JP

Submitted: 05/28/2015 16:15
Reported: 07/10/2015 16:04

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MDN02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	
02898	Acrylonitrile	107-13-1	N.D.	1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.	0.1	1
02898	Benzene	71-43-2	N.D.	0.1	1
02898	Bromobenzene	108-86-1	N.D.	0.1	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	1
02898	Bromoform	75-25-2	N.D.	0.1	1
02898	Bromomethane	74-83-9	N.D.	0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.	4.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	1
02898	Chloroethane	75-00-3	N.D.	0.1	1
02898	Chloroform	67-66-3	N.D.	0.1	1
02898	Chloromethane	74-87-3	N.D.	0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
02898	Dibromomethane	74-95-3	N.D.	0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.	0.1	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	1
02898	Naphthalene	91-20-3	N.D.	0.1	1
02898	n-Propylbenzene	103-65-1	N.D.	0.1	1

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Analysis Report

REVISED

Sample Description: MW-2 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 7905140
LL Group # 1564651
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 11:45 by JP

Submitted: 05/28/2015 16:15
Reported: 07/10/2015 16:04

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MDN02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C151541AA	06/03/2015 23:42	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C151541AA	06/03/2015 23:42	Sara E Johnson	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15150A53A	05/30/2015 10:38	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15150A53A	05/30/2015 10:38	Jeremy C Giffin	1
12858	TPH-DRO 8015B	SW-846 8015B	1	151590003A	06/09/2015 12:12	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	151590003A	06/08/2015 00:00	David V Hershey Jr	1

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Analysis Report

REVISED

Sample Description: MW-3 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 7905141
LL Group # 1564651
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 12:15 by JP

Submitted: 05/28/2015 16:15
Reported: 07/10/2015 16:04

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MDN03

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	
02898	Acrylonitrile	107-13-1	N.D.		1.0	1
02898	t-Amyl methyl ether	994-05-8	N.D.		0.1	1
02898	Benzene	71-43-2	N.D.		0.1	1
02898	Bromobenzene	108-86-1	N.D.		0.1	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	1
02898	Bromoform	75-25-2	N.D.		0.1	1
02898	Bromomethane	74-83-9	N.D.		0.1	1
02898	t-Butyl Alcohol	75-65-0	N.D.		4.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	1
02898	Carbon Disulfide	75-15-0	N.D.		0.4	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	1
02898	Chloroethane	75-00-3	N.D.		0.1	1
02898	Chloroform	67-66-3	0.2	J	0.1	1
02898	Chloromethane	74-87-3	N.D.		0.2	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	1
02898	Dibromomethane	74-95-3	N.D.		0.1	1
02898	trans-1,4-Dichloro-2-butene	110-57-6	N.D.		1.0	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	1
02898	Ethyl t-butyl ether	637-92-3	N.D.		0.1	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	1
02898	di-Isopropyl Ether	108-20-3	N.D.		0.1	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	1
02898	Naphthalene	91-20-3	N.D.		0.1	1
02898	n-Propylbenzene	103-65-1	N.D.		0.1	1

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Analysis Report

REVISED

Sample Description: MW-3 Grab Groundwater
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # WW 7905141
LL Group # 1564651
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 12:15 by JP

Submitted: 05/28/2015 16:15
Reported: 07/10/2015 16:04

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MDN03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	
02898	Styrene	100-42-5	N.D.	0.1	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	1
02898	Toluene	108-88-3	N.D.	0.1	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
02898	Trichloroethene	79-01-6	N.D.	0.1	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	VOCs- 25ml Water by 8260B	SW-846 8260B 25mL purge	1	C151541AA	06/04/2015 00:05	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C151541AA	06/04/2015 00:05	Sara E Johnson	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15150A53A	05/30/2015 11:06	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15150A53A	05/30/2015 11:06	Jeremy C Giffin	1
12858	TPH-DRO 8015B	SW-846 8015B	1	151590003A	06/09/2015 12:35	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	151590003A	06/08/2015 00:00	David V Hershey Jr	1

REVISED

Quality Control Summary

Client Name: GES, Inc. Group Number: 1564651
Reported: 07/10/2015 16:04

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: C151541AA	Sample number(s): 7905139-7905141							
Acrylonitrile	N.D.	1.0	ug/l	105	99	75-133	6	30
t-Amyl methyl ether	N.D.	0.1	ug/l	99	99	80-120	0	30
Benzene	N.D.	0.1	ug/l	100	99	80-120	1	30
Bromobenzene	N.D.	0.1	ug/l	103	102	80-120	1	30
Bromochloromethane	N.D.	0.1	ug/l	101	102	80-125	0	30
Bromodichloromethane	N.D.	0.1	ug/l	103	103	80-120	0	30
Bromoform	N.D.	0.1	ug/l	100	98	64-134	2	30
Bromomethane	N.D.	0.1	ug/l	100	99	62-126	1	30
t-Butyl Alcohol	N.D.	4.0	ug/l	104	100	77-130	4	30
n-Butylbenzene	N.D.	0.1	ug/l	104	102	80-120	2	30
sec-Butylbenzene	N.D.	0.1	ug/l	108	107	80-120	1	30
tert-Butylbenzene	N.D.	0.1	ug/l	108	106	80-120	1	30
Carbon Disulfide	N.D.	0.4	ug/l	107	107	70-128	1	30
Chlorobenzene	N.D.	0.1	ug/l	100	100	80-120	0	30
Chloroethane	N.D.	0.1	ug/l	95	94	68-120	0	30
Chloroform	N.D.	0.1	ug/l	102	101	80-120	0	30
Chloromethane	N.D.	0.2	ug/l	89	90	55-125	1	30
2-Chlorotoluene	N.D.	0.1	ug/l	103	102	80-120	1	30
4-Chlorotoluene	N.D.	0.1	ug/l	104	101	80-120	3	30
1,2-Dibromo-3-chloropropane	N.D.	0.2	ug/l	116	105	72-136	10	30
Dibromochloromethane	N.D.	0.1	ug/l	102	102	80-126	1	30
1,2-Dibromoethane	N.D.	0.1	ug/l	99	99	80-120	0	30
Dibromomethane	N.D.	0.1	ug/l	97	97	80-120	1	30
trans-1,4-Dichloro-2-butene	N.D.	1.0	ug/l	80	78	14-166	3	30
1,2-Dichlorobenzene	N.D.	0.1	ug/l	100	100	80-120	1	30
1,3-Dichlorobenzene	N.D.	0.1	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	N.D.	0.1	ug/l	101	100	80-120	1	30
Dichlorodifluoromethane	N.D.	0.1	ug/l	85	84	35-142	1	30
1,1-Dichloroethane	N.D.	0.1	ug/l	99	99	80-120	0	30
1,2-Dichloroethane	N.D.	0.1	ug/l	97	98	80-125	2	30
1,1-Dichloroethene	N.D.	0.1	ug/l	102	102	80-120	0	30
cis-1,2-Dichloroethene	N.D.	0.1	ug/l	101	101	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.1	ug/l	105	104	80-120	1	30
1,2-Dichloropropane	N.D.	0.1	ug/l	101	100	80-120	1	30
1,3-Dichloropropane	N.D.	0.1	ug/l	94	95	80-120	1	30
2,2-Dichloropropane	N.D.	0.1	ug/l	104	102	75-122	3	30
1,1-Dichloropropene	N.D.	0.1	ug/l	98	96	80-120	3	30
cis-1,3-Dichloropropene	N.D.	0.1	ug/l	98	98	80-120	0	30
trans-1,3-Dichloropropene	N.D.	0.1	ug/l	98	98	77-126	0	30
Ethyl t-butyl ether	N.D.	0.1	ug/l	100	101	76-120	1	30
Ethylbenzene	N.D.	0.1	ug/l	103	104	80-120	0	30
Hexachlorobutadiene	N.D.	0.1	ug/l	108	107	74-123	2	30
di-Isopropyl Ether	N.D.	0.1	ug/l	106	106	75-120	0	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

REVISED

Quality Control Summary

Client Name: GES, Inc. Group Number: 1564651
Reported: 07/10/2015 16:04

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	ug/l	110	108	80-120	2	30
p-Isopropyltoluene	N.D.	0.1	ug/l	108	107	80-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.1	ug/l	98	98	80-120	0	30
Methylene Chloride	N.D.	0.2	ug/l	101	99	80-120	2	30
Naphthalene	N.D.	0.1	ug/l	99	97	72-120	2	30
n-Propylbenzene	N.D.	0.1	ug/l	106	104	80-120	1	30
Styrene	N.D.	0.1	ug/l	108	108	80-120	0	30
1,1,1,2-Tetrachloroethane	N.D.	0.1	ug/l	103	103	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	ug/l	92	93	80-120	1	30
Tetrachloroethene	N.D.	0.1	ug/l	104	103	80-120	0	30
Toluene	N.D.	0.1	ug/l	100	100	80-120	0	30
1,2,3-Trichlorobenzene	N.D.	0.1	ug/l	98	97	75-120	1	30
1,2,4-Trichlorobenzene	N.D.	0.1	ug/l	101	98	80-120	2	30
1,1,1-Trichloroethane	N.D.	0.1	ug/l	105	105	80-120	1	30
1,1,2-Trichloroethane	N.D.	0.1	ug/l	95	93	80-120	2	30
Trichloroethene	N.D.	0.1	ug/l	105	104	80-120	1	30
Trichlorofluoromethane	N.D.	0.1	ug/l	107	107	64-141	0	30
1,2,3-Trichloropropane	N.D.	0.3	ug/l	98	99	80-120	1	30
1,2,4-Trimethylbenzene	N.D.	0.1	ug/l	108	105	80-120	2	30
1,3,5-Trimethylbenzene	N.D.	0.1	ug/l	107	106	80-120	1	30
Vinyl Chloride	N.D.	0.1	ug/l	95	93	59-124	2	30
Xylene (Total)	N.D.	0.1	ug/l	105	104	80-120	1	30
Batch number: 15150A53A	Sample number(s): 7905139-7905141							
TPH-GRO water C6-C10	N.D.	20.	ug/l	95	95	80-129	0	30
Batch number: 151590003A	Sample number(s): 7905139-7905141							
DRO C10-C28	N.D.	45.	ug/l	72	77	69-115	7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 25ml Water by 8260B
Batch number: C151541AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7905139	105	100	95	95
7905140	106	98	97	96
7905141	108	101	95	95
Blank	103	99	96	96
LCS	99	95	98	98
LCSD	99	95	98	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: TPH-GRO water C6-C10
Batch number: 15150A53A

	Trifluorotoluene-F
7905139	97
7905140	97

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

REVISED

Quality Control Summary

Client Name: GES, Inc. Group Number: 1564651
Reported: 07/10/2015 16:04

Surrogate Quality Control

7905141	93
Blank	96
LCS	109
LCSD	109
Limits:	63-135

Analysis Name: TPH-DRO 8015B
Batch number: 151590003A

	Orthoterphenyl
7905139	101
7905140	84
7905141	93
Blank	94
LCS	96
LCSD	94
Limits:	42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1564651 Sample # 7905139-41

Client: Groundwater & Environmental Services, Inc. (GES)

Project Name/#: Carroll Madonna | Site ID #: 0402814

Project Manager: Gregory Reichart | P.O. #: 0402814-06-206

Sampler: Jeff Plummer | PWSID #:

Phone #: 800-220-3606 | Quote #:

State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD

For Lab Use Only
SF #:
SCR #:

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Sediment	Potable	Ground Water	NPDES	Surface	Other:	Total # of Containers	Full Suite VOCs plus Oxygenates including Naphthalene (524.2)	Full Suite VOCs (8260)	TPH-GRO (8015)	TPH-DRO (8015)	Remarks
MW-1	5-26-15	1115	X					X				7		X	X	X	EDD file name:
MW-2	5-26-15	1145	X					X				7		X	X	X	Carroll Madonna-
MW-3	5-26-15	1215	X					X				7		X	X	X	lab report
																	#.21993.EQEDD.zip
																	VOCs ADDED
																	TO REPORTING LIST
																	PER P. REICHART.
																	KNP

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone: 800-220-3606 x3717

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: EQEDD

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	5-27-15	0730	Denise Wooding	5-27-15	0800
Denise Wooding	5-28-15	13:30	[illegible]	5/28/15	13:30
[illegible]	5/28/15	16:15			
			[illegible]	5/28/15	1615

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 2.6 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0614

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 72197

Group Number(s): 1564651

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/28/2015 16:15
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 16:32 on 05/28/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	2.6	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Analysis Report

Sample Description: Supply Well Grab Potable Water
4101 Norrisville Rd - Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7960741
LL Group # 1575609
Account # 08390

Project Name: Carroll Madonna

Collected: 07/08/2015 11:40 by LK

Submitted: 07/09/2015 17:25
Reported: 07/21/2015 21:44

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MASWD

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	G152011AA	07/20/2015 17:37	Jason M Long	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1575609
Reported: 07/21/2015 21:44

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: G152011AA	Sample number(s): 7960741							
t-Amyl Methyl Ether	N.D.	0.1	ug/l	96		70-130		
Benzene	N.D.	0.1	ug/l	97		70-130		
t-Butyl Alcohol	N.D.	2.5	ug/l	96		70-130		
Carbon Tetrachloride	N.D.	0.1	ug/l	97		70-130		
Chlorobenzene	N.D.	0.1	ug/l	98		70-130		
1,2-Dichlorobenzene	N.D.	0.1	ug/l	96		70-130		
1,3-Dichlorobenzene	N.D.	0.1	ug/l	97		70-130		
1,2-Dichloroethane	N.D.	0.1	ug/l	100		70-130		
1,1-Dichloroethene	N.D.	0.1	ug/l	95		70-130		
cis-1,2-Dichloroethene	N.D.	0.1	ug/l	97		70-130		
trans-1,2-Dichloroethene	N.D.	0.1	ug/l	100		70-130		
1,2-Dichloropropane	N.D.	0.1	ug/l	98		70-130		
Ethyl t-Butyl Ether	N.D.	0.1	ug/l	97		70-130		
Ethylbenzene	N.D.	0.1	ug/l	97		70-130		
di-Isopropyl Ether	N.D.	0.1	ug/l	101		70-130		
Methyl Tertiary Butyl Ether	N.D.	0.1	ug/l	95		70-130		
Methylene Chloride	N.D.	0.3	ug/l	90		70-130		
Naphthalene	N.D.	0.2	ug/l	99		70-130		
Styrene	N.D.	0.1	ug/l	95		70-130		
Tetrachloroethene	N.D.	0.1	ug/l	92		70-130		
Toluene	N.D.	0.1	ug/l	99		70-130		
1,2,4-Trichlorobenzene	N.D.	0.2	ug/l	97		70-130		
1,1,1-Trichloroethane	N.D.	0.1	ug/l	97		70-130		
1,1,2-Trichloroethane	N.D.	0.1	ug/l	97		70-130		
Trichloroethene	N.D.	0.1	ug/l	98		70-130		
Vinyl Chloride	N.D.	0.1	ug/l	99		70-130		
Xylene (Total)	N.D.	0.1	ug/l	96		70-130		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: G152011AA	Sample number(s): 7960741 UNSPK: P960987								
t-Amyl Methyl Ether	96	98	70-130	1	30				
Benzene	102	102	70-130	0	30				
t-Butyl Alcohol	92	91	70-130	1	30				
Carbon Tetrachloride	97	95	70-130	2	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1575609
Reported: 07/21/2015 21:44

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chlorobenzene	103	103	70-130	0	30				
1,2-Dichlorobenzene	100	99	70-130	1	30				
1,3-Dichlorobenzene	99	99	70-130	1	30				
1,2-Dichloroethane	102	101	70-130	1	30				
1,1-Dichloroethene	94	93	70-130	1	30				
cis-1,2-Dichloroethene	102	100	70-130	1	30				
trans-1,2-Dichloroethene	104	102	70-130	3	30				
1,2-Dichloropropane	102	102	70-130	0	30				
Ethyl t-Butyl Ether	100	99	70-130	1	30				
Ethylbenzene	101	102	70-130	1	30				
di-Isopropyl Ether	103	102	70-130	1	30				
Methyl Tertiary Butyl Ether	99	97	70-130	2	30				
Methylene Chloride	92	93	70-130	1	30				
Naphthalene	101	102	70-130	1	30				
Styrene	95	95	70-130	1	30				
Tetrachloroethene	97	97	70-130	0	30				
Toluene	104	103	70-130	1	30				
1,2,4-Trichlorobenzene	97	98	70-130	1	30				
1,1,1-Trichloroethane	103	103	70-130	0	30				
1,1,2-Trichloroethane	100	100	70-130	0	30				
Trichloroethene	104	105	70-130	0	30				
Vinyl Chloride	109	108	70-130	1	30				
Xylene (Total)	101	100	70-130	0	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: G152011AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
7960741	102	94
Blank	101	94
LCS	102	99
MS	102	99
MSD	101	98
Limits:	80-120	80-120

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1575609 Sample # 7960741

Client: Groundwater & Environmental Services, Inc. (GES)	
Project Name/#: Carroll Madonna	Site ID #: 0402814
Project Manager: Peter Reichardt	P.O. #: 0402814-06-209
Sampler: Lindsay Keeney	PWSID #:
Phone #: 800-220-3606	Quote #:
State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD	

Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Other:

Analyses Requested / Preservation Codes: H

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Sediment	Water	Other:	Total # of Containers	Full Suite VOCs plus Oxygenates including Naphthalene (524.2)	Remarks
Supply well	7-8-15	1140	X				X		4	X	EDD file name: Carroll Madonna-lab report #.21993.EQEDD.zip

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone: 800-220-3606 x3717

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: EQEDD

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	7-8-15	1500	Denise Wooding	7-9-15	0800
Denise Wooding	7-9-15	1330	[signature]	7/9/15	1330
[signature]	7/9/15	1720			

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.3 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 85379

Group Number(s): 1575609

Client: GES

Madonna Supply Well

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	07/09/2015 17:25
Number of Packages:	1	Number of Projects:	3
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jordan Woods (6698) at 17:41 on 07/09/2015

Samples Chilled Details: Madonna Supply Well

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	1.3	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
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F 717-656-2681
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Analysis Report

Sample Description: 3922 Greenpeak-Inf Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7905142
LL Group # 1564652
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 09:40 by JP

Submitted: 05/28/2015 16:15
Reported: 06/04/2015 11:18

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

GRNPK

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	8.5	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S151541AA	06/03/2015 14:00	Jason M Long	1

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Analysis Report

Sample Description: 3922 Madonna-Inf Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7905143
LL Group # 1564652
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 10:10 by JP

Submitted: 05/28/2015 16:15
Reported: 06/04/2015 11:18

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3922I

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	5.1	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	0.5	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S151541AA	06/03/2015 14:55	Jason M Long	1

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Analysis Report

Sample Description: 3914 Madonna-Eff Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7905144
LL Group # 1564652
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 10:25 by JP

Submitted: 05/28/2015 16:15
Reported: 06/04/2015 11:18

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3914E

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S151541AA	06/03/2015 15:49	Jason M Long	1

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Analysis Report

Sample Description: 3914 Madonna-Mid Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7905145
LL Group # 1564652
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 10:30 by JP

Submitted: 05/28/2015 16:15
Reported: 06/04/2015 11:18

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3914M

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S151541AA	06/03/2015 16:44	Jason M Long	1

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Analysis Report

Sample Description: 3914 Madonna-Inf Grab Potable Water
4101 Norrisville Rd, Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7905146
LL Group # 1564652
Account # 08390

Project Name: Carroll Madonna

Collected: 05/26/2015 10:35 by JP

Submitted: 05/28/2015 16:15
Reported: 06/04/2015 11:18

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3914I

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	
03648	t-Amyl Methyl Ether	994-05-8	0.1	J	0.1	1
03648	Benzene	71-43-2	N.D.		0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.		2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	1
03648	Chlorobenzene	108-90-7	N.D.		0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.		0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.		0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.		0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.		0.1	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.		0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	29		1.0	10
03648	Methylene Chloride	75-09-2	N.D.		0.3	1
03648	Naphthalene	91-20-3	N.D.		0.2	1
03648	Styrene	100-42-5	N.D.		0.1	1
03648	Tetrachloroethene	127-18-4	N.D.		0.1	1
03648	Toluene	108-88-3	N.D.		0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	1
03648	Trichloroethene	79-01-6	N.D.		0.1	1
03648	Vinyl Chloride	75-01-4	N.D.		0.1	1
03648	Xylene (Total)	1330-20-7	N.D.		0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S151541AA	06/03/2015 17:38	Jason M Long	1
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S151541AA	06/03/2015 18:06	Jason M Long	10

Quality Control Summary

Client Name: GES, Inc. Group Number: 1564652
Reported: 06/04/2015 11:18

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: S151541AA	Sample number(s): 7905142-7905146							
t-Amyl Methyl Ether	N.D.	0.1	ug/l	96		70-130		
Benzene	N.D.	0.1	ug/l	96		70-130		
t-Butyl Alcohol	N.D.	2.5	ug/l	105		70-130		
Carbon Tetrachloride	N.D.	0.1	ug/l	101		70-130		
Chlorobenzene	N.D.	0.1	ug/l	98		70-130		
1,2-Dichlorobenzene	N.D.	0.1	ug/l	102		70-130		
1,3-Dichlorobenzene	N.D.	0.1	ug/l	103		70-130		
1,2-Dichloroethane	N.D.	0.1	ug/l	98		70-130		
1,1-Dichloroethene	N.D.	0.1	ug/l	92		70-130		
cis-1,2-Dichloroethene	N.D.	0.1	ug/l	97		70-130		
trans-1,2-Dichloroethene	N.D.	0.1	ug/l	100		70-130		
1,2-Dichloropropane	N.D.	0.1	ug/l	96		70-130		
Ethyl t-Butyl Ether	N.D.	0.1	ug/l	95		70-130		
Ethylbenzene	N.D.	0.1	ug/l	97		70-130		
di-Isopropyl Ether	N.D.	0.1	ug/l	103		70-130		
Methyl Tertiary Butyl Ether	N.D.	0.1	ug/l	96		70-130		
Methylene Chloride	N.D.	0.3	ug/l	101		70-130		
Naphthalene	N.D.	0.2	ug/l	100		70-130		
Styrene	N.D.	0.1	ug/l	100		70-130		
Tetrachloroethene	N.D.	0.1	ug/l	93		70-130		
Toluene	N.D.	0.1	ug/l	100		70-130		
1,2,4-Trichlorobenzene	N.D.	0.2	ug/l	98		70-130		
1,1,1-Trichloroethane	N.D.	0.1	ug/l	100		70-130		
1,1,2-Trichloroethane	N.D.	0.1	ug/l	103		70-130		
Trichloroethene	N.D.	0.1	ug/l	99		70-130		
Vinyl Chloride	N.D.	0.1	ug/l	98		70-130		
Xylene (Total)	N.D.	0.1	ug/l	98		70-130		

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: S151541AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
7905142	95	93

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: GES, Inc. Group Number: 1564652
Reported: 06/04/2015 11:18

Surrogate Quality Control

7905143	93	96
7905144	91	94
7905145	93	96
7905146	93	97
Blank	97	99
LCS	104	105
Limits:	80-120	80-120

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1564652 Sample # 7905142-46

Client: Groundwater & Environmental Services, Inc. (GES)	
Project Name/#: Carroll Madonna	Site ID #: 0402814
Project Manager: Gregory Reichart	P.O. #: 0402814-06-209
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606	Quote #:
State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD	

Matrix: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☒ NPDES ☐ Surface ☐ Other:

Analyses Requested / Preservation Codes: Full Suite VOCs plus Oxygenates including Naphthalene (524.2)

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Potable	Ground	NPDES	Surface	Other	Total # of Containers	Full Suite VOCs plus Oxygenates including Naphthalene (524.2)	Remarks
3922 Greenpeak-Inf	5-26-15	0940	X				X				4	X	EDD file name:
3922 Madonna-Inf	↓	1010	↓				↓				↓	↓	Carroll Madonna-
3914 Madonna-Eff		1025											lab report
3914 Madonna-Mid	↓	1030	↓				↓				↓	↓	#.21993.EQEDD.zip
3914 Madonna-Inf	5-26-15	1035	X				X				4	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone: 800-220-3606 x3717

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: EQEDD

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	5-27-15	0730	Denise Wooding	5-27-15	0800
Denise Wooding	5-28-15	1330	[illegible]	5/28/15	1330
[illegible]	5/28/15	1615			
			[illegible]	5/28/15	1615

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.5 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 72201

Group Number(s): 1564652

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/28/2015 16:15
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 16:52 on 05/28/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	1.5	DT	Wet	Y	Bagged	N

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Lancaster, PA 17605-2425
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Analysis Report

Sample Description: 3921 GREENPEAK-EFF Grab Potable Water
4101 Norrisville Rd - Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7851972
LL Group # 1554249
Account # 08390

Project Name: Carroll Madonna

Collected: 04/17/2015 10:30

Submitted: 04/17/2015 16:15
Reported: 04/29/2015 20:32

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3921E

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S151131AA	04/23/2015 17:06	Jason M Long	1

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Analysis Report

Sample Description: 3921 GREENPEAK-MID Grab Potable Water
4101 Norrisville Rd - Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7851973
LL Group # 1554249
Account # 08390

Project Name: Carroll Madonna

Collected: 04/17/2015 10:32

Submitted: 04/17/2015 16:15
Reported: 04/29/2015 20:32

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3921M

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S151131AA	04/23/2015 17:33	Jason M Long	1

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Analysis Report

Sample Description: 3921 GREENPEAK-INF Grab Potable Water
4101 Norrisville Rd - Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7851974
LL Group # 1554249
Account # 08390

Project Name: Carroll Madonna

Collected: 04/17/2015 10:34

Submitted: 04/17/2015 16:15
Reported: 04/29/2015 20:32

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3921I

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.		0.1	1
03648	Benzene	71-43-2	N.D.		0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.		2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	1
03648	Chlorobenzene	108-90-7	N.D.		0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.		0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.		0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.		0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.		0.1	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.		0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	21		0.1	1
03648	Methylene Chloride	75-09-2	N.D.		0.3	1
03648	Naphthalene	91-20-3	N.D.		0.2	1
03648	Styrene	100-42-5	N.D.		0.1	1
03648	Tetrachloroethene	127-18-4	0.1	J	0.1	1
03648	Toluene	108-88-3	N.D.		0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	1
03648	Trichloroethene	79-01-6	N.D.		0.1	1
03648	Vinyl Chloride	75-01-4	N.D.		0.1	1
03648	Xylene (Total)	1330-20-7	N.D.		0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S151131AA	04/23/2015 18:00	Jason M Long	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1554249
Reported: 04/29/2015 20:32

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: S151131AA	Sample number(s): 7851972-7851974							
t-Amyl Methyl Ether	N.D.	0.1	ug/l	97		70-130		
Benzene	N.D.	0.1	ug/l	99		70-130		
t-Butyl Alcohol	N.D.	2.5	ug/l	94		70-130		
Carbon Tetrachloride	N.D.	0.1	ug/l	100		70-130		
Chlorobenzene	N.D.	0.1	ug/l	97		70-130		
1,2-Dichlorobenzene	N.D.	0.1	ug/l	96		70-130		
1,3-Dichlorobenzene	N.D.	0.1	ug/l	96		70-130		
1,2-Dichloroethane	N.D.	0.1	ug/l	95		70-130		
1,1-Dichloroethene	N.D.	0.1	ug/l	99		70-130		
cis-1,2-Dichloroethene	N.D.	0.1	ug/l	100		70-130		
trans-1,2-Dichloroethene	N.D.	0.1	ug/l	102		70-130		
1,2-Dichloropropane	N.D.	0.1	ug/l	96		70-130		
Ethyl t-Butyl Ether	N.D.	0.1	ug/l	91		70-130		
Ethylbenzene	N.D.	0.1	ug/l	98		70-130		
di-Isopropyl Ether	N.D.	0.1	ug/l	100		70-130		
Methyl Tertiary Butyl Ether	N.D.	0.1	ug/l	96		70-130		
Methylene Chloride	N.D.	0.3	ug/l	101		70-130		
Naphthalene	N.D.	0.2	ug/l	93		70-130		
Styrene	N.D.	0.1	ug/l	101		70-130		
Tetrachloroethene	N.D.	0.1	ug/l	93		70-130		
Toluene	N.D.	0.1	ug/l	100		70-130		
1,2,4-Trichlorobenzene	N.D.	0.2	ug/l	98		70-130		
1,1,1-Trichloroethane	N.D.	0.1	ug/l	99		70-130		
1,1,2-Trichloroethane	N.D.	0.1	ug/l	100		70-130		
Trichloroethene	N.D.	0.1	ug/l	98		70-130		
Vinyl Chloride	N.D.	0.1	ug/l	102		70-130		
Xylene (Total)	N.D.	0.1	ug/l	102		70-130		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: S151131AA	Sample number(s): 7851972-7851974 UNSPK: P853124								
t-Amyl Methyl Ether	98	103	70-130	4	30				
Benzene	109	113	70-130	3	30				
t-Butyl Alcohol	82	100	70-130	19	30				
Carbon Tetrachloride	116	121	70-130	4	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1554249
Reported: 04/29/2015 20:32

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chlorobenzene	103	111	70-130	7	30				
1,2-Dichlorobenzene	106	109	70-130	2	30				
1,3-Dichlorobenzene	106	109	70-130	2	30				
1,2-Dichloroethane	103	107	70-130	3	30				
1,1-Dichloroethene	110	117	70-130	6	30				
cis-1,2-Dichloroethene	104	112	70-130	7	30				
trans-1,2-Dichloroethene	107	117	70-130	8	30				
1,2-Dichloropropane	107	111	70-130	4	30				
Ethyl t-Butyl Ether	95	101	70-130	6	30				
Ethylbenzene	109	116	70-130	6	30				
di-Isopropyl Ether	102	109	70-130	7	30				
Methyl Tertiary Butyl Ether	96	103	70-130	7	30				
Methylene Chloride	107	111	70-130	4	30				
Naphthalene	94	101	70-130	7	30				
Styrene	109	115	70-130	5	30				
Tetrachloroethene	108	109	70-130	2	30				
Toluene	112	115	70-130	2	30				
1,2,4-Trichlorobenzene	105	109	70-130	4	30				
1,1,1-Trichloroethane	110	113	70-130	2	30				
1,1,2-Trichloroethane	103	108	70-130	5	30				
Trichloroethene	109	113	70-130	4	30				
Vinyl Chloride	114	117	70-130	3	30				
Xylene (Total)	111	116	70-130	5	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: S151131AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
7851972	90	92
7851973	90	93
7851974	90	91
Blank	92	92
LCS	105	99
MS	102	107
MSD	103	103
Limits:	80-120	80-120

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 15541219 Sample # 7851972-74

Client: Groundwater & Environmental Services, Inc. (GES)	
Project Name/#: Carroll Madonna	Site ID #: 0402814
Project Manager: Gregory Reichart	P.O. #: 0402814-06-209
Sampler:	PWSID #:
Phone #: 800-220-3606	Quote #:
State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD	

Matrix: Soil ☐ Sediment ☐ Potable ☐ Ground ☑ Surface ☐ NPDES ☐ Water ☐ Other:

Analyses Requested / Preservation Codes: Full Suite VOCs plus Oxygenates including Naphthalene (524.2)

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Sediment	Potable	Ground	Surface	NPDES	Water	Other:	Total # of Containers	Full Suite VOCs plus Oxygenates including Naphthalene (524.2)	Remarks
3921 GREENPEAK - EFF	4/17/15	1030	✓								✓		4	✓	EDD file name:
3921 GREENPEAK - MID	↓	1032	✓								✓		4	✓	Carroll Madonna-
3921 GREENPEAK - INF	↓	1034	✓								✓		4	✓	lab report
															#.21993.EQEDD.zip

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone: 800-220-3606 x3717

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: EQEDD

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	4/17/15	1300	[signature]	4-17-15	1300
[signature]	4-17-15	1615			
			[signature]	4/17/15	1615

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 2.4 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 7045 0614

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Sample Administration Receipt Documentation Log

Doc Log ID: 66087

Group Number(s): 1554249

Client: GES

Carroll Madonna

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	04/17/2015 16:15
Number of Packages:	1	Number of Projects:	2
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jordan Woods (6698) at 16:40 on 04/17/2015

Samples Chilled Details: Carroll Madonna

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	2.4	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Analysis Report

Sample Description: 3908 MADONNA Grab Potable Water
4101 Norrisville Rd - Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7780146
LL Group # 1540177
Account # 08390

Project Name: Carroll Madonna

Collected: 02/19/2015 08:10 by DR

Submitted: 02/20/2015 16:35
Reported: 02/25/2015 18:02

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3908M

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S150551AA	02/24/2015 18:22	Sara E Johnson	1

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Analysis Report

Sample Description: 3922 GREENPEAK Grab Potable Water
4101 Norrisville Rd - Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7780147
LL Group # 1540177
Account # 08390

Project Name: Carroll Madonna

Collected: 02/19/2015 09:30 by DR

Submitted: 02/20/2015 16:35
Reported: 02/25/2015 18:02

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3922G

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.		0.1	1
03648	Benzene	71-43-2	N.D.		0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.		2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	1
03648	Chlorobenzene	108-90-7	N.D.		0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.		0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.		0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.		0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.		0.1	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.		0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	8.3		0.1	1
03648	Methylene Chloride	75-09-2	N.D.		0.3	1
03648	Naphthalene	91-20-3	N.D.		0.2	1
03648	Styrene	100-42-5	N.D.		0.1	1
03648	Tetrachloroethene	127-18-4	N.D.		0.1	1
03648	Toluene	108-88-3	0.2	J	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	1
03648	Trichloroethene	79-01-6	N.D.		0.1	1
03648	Vinyl Chloride	75-01-4	N.D.		0.1	1
03648	Xylene (Total)	1330-20-7	N.D.		0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S150542AA	02/23/2015 21:37	Jason M Long	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1540177
Reported: 02/25/15 at 06:02 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: S150542AA	Sample number(s): 7780147							
t-Amyl Methyl Ether	N.D.	0.1	ug/l	95		70-130		
Benzene	N.D.	0.1	ug/l	110		70-130		
t-Butyl Alcohol	N.D.	2.5	ug/l	104		70-130		
Carbon Tetrachloride	N.D.	0.1	ug/l	108		70-130		
Chlorobenzene	N.D.	0.1	ug/l	94		70-130		
1,2-Dichlorobenzene	N.D.	0.1	ug/l	95		70-130		
1,3-Dichlorobenzene	N.D.	0.1	ug/l	98		70-130		
1,2-Dichloroethane	N.D.	0.1	ug/l	117		70-130		
1,1-Dichloroethene	N.D.	0.1	ug/l	106		70-130		
cis-1,2-Dichloroethene	N.D.	0.1	ug/l	105		70-130		
trans-1,2-Dichloroethene	N.D.	0.1	ug/l	103		70-130		
1,2-Dichloropropane	N.D.	0.1	ug/l	109		70-130		
Ethyl t-Butyl Ether	N.D.	0.1	ug/l	95		70-130		
Ethylbenzene	N.D.	0.1	ug/l	95		70-130		
di-Isopropyl Ether	N.D.	0.1	ug/l	99		70-130		
Methyl Tertiary Butyl Ether	N.D.	0.1	ug/l	99		70-130		
Methylene Chloride	N.D.	0.3	ug/l	110		70-130		
Naphthalene	N.D.	0.2	ug/l	82		70-130		
Styrene	N.D.	0.1	ug/l	100		70-130		
Tetrachloroethene	N.D.	0.1	ug/l	97		70-130		
Toluene	N.D.	0.1	ug/l	99		70-130		
1,2,4-Trichlorobenzene	N.D.	0.2	ug/l	91		70-130		
1,1,1-Trichloroethane	N.D.	0.1	ug/l	106		70-130		
1,1,2-Trichloroethane	N.D.	0.1	ug/l	103		70-130		
Trichloroethene	N.D.	0.1	ug/l	102		70-130		
Vinyl Chloride	N.D.	0.1	ug/l	107		70-130		
Xylene (Total)	N.D.	0.1	ug/l	97		70-130		
Batch number: S150551AA	Sample number(s): 7780146							
t-Amyl Methyl Ether	N.D.	0.1	ug/l	101		70-130		
Benzene	N.D.	0.1	ug/l	110		70-130		
t-Butyl Alcohol	N.D.	2.5	ug/l	130		70-130		
Carbon Tetrachloride	N.D.	0.1	ug/l	106		70-130		
Chlorobenzene	N.D.	0.1	ug/l	94		70-130		
1,2-Dichlorobenzene	N.D.	0.1	ug/l	102		70-130		
1,3-Dichlorobenzene	N.D.	0.1	ug/l	102		70-130		
1,2-Dichloroethane	N.D.	0.1	ug/l	122		70-130		
1,1-Dichloroethene	N.D.	0.1	ug/l	110		70-130		
cis-1,2-Dichloroethene	N.D.	0.1	ug/l	106		70-130		
trans-1,2-Dichloroethene	N.D.	0.1	ug/l	105		70-130		
1,2-Dichloropropane	N.D.	0.1	ug/l	113		70-130		
Ethyl t-Butyl Ether	N.D.	0.1	ug/l	102		70-130		
Ethylbenzene	N.D.	0.1	ug/l	95		70-130		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1540177

Reported: 02/25/15 at 06:02 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
di-Isopropyl Ether	N.D.	0.1	ug/l	101		70-130		
Methyl Tertiary Butyl Ether	N.D.	0.1	ug/l	109		70-130		
Methylene Chloride	N.D.	0.3	ug/l	114		70-130		
Naphthalene	N.D.	0.2	ug/l	87		70-130		
Styrene	N.D.	0.1	ug/l	102		70-130		
Tetrachloroethene	N.D.	0.1	ug/l	92		70-130		
Toluene	N.D.	0.1	ug/l	100		70-130		
1,2,4-Trichlorobenzene	N.D.	0.2	ug/l	91		70-130		
1,1,1-Trichloroethane	N.D.	0.1	ug/l	105		70-130		
1,1,2-Trichloroethane	N.D.	0.1	ug/l	110		70-130		
Trichloroethene	N.D.	0.1	ug/l	103		70-130		
Vinyl Chloride	N.D.	0.1	ug/l	115		70-130		
Xylene (Total)	N.D.	0.1	ug/l	97		70-130		

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: S150542AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
7780147	82	81
Blank	88	86
LCS	97	101
Limits:	80-120	80-120

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: S150551AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
7780146	83	84
Blank	82	85
LCS	100	107
Limits:	80-120	80-120

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 540177 Sample # 7780146-47

Client: Groundwater & Environmental Services, Inc. (GES)	
Project Name/#: Carroll Madonna	Site ID #: 0402814
Project Manager: Gregory Reichart	P.O. #: 0402814-06-209
Sampler: Danielle Rice	PWSID #:
Phone #: 800-220-3606	Quote #:
State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Sediment	Soil	Ground	Surface	Potable	NPDES	Water	Other:	Total # of Containers	Full Suite VOCs plus Oxygenates including Naphthalene (524.2)										Remarks
3908 MADONNA	2/19/15	0810	✓								✓		4	✓										EDD file name:
3922 GREENPEAK	2/19/15	0930	✓								✓		4	✓										Carroll Madonna-
																								lab report
																								#.21993.EQEDD.zip

Analyses Requested / Preservation Codes

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone: 800-220-3606 x3717

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: EQEDD

Relinquished by:	Date	Time	Received by:	Date	Time
Danielle Rice	2/19/15	1230	Denise Woodring	2-19-15	12:30
Denise Woodring	2-20-15	1230	[illegible]	2-20-15	1230
[illegible]	2-20-15	1635			
			[illegible]	2/20/15	1635

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.4 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 56994

Group Number(s): 1540177

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	02/20/2015 16:35
Number of Packages:	1	Number of Projects:	3
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 16:56 on 02/20/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.4	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.co

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

Sample Description: 3921 GREENPEAK-EFF Grab Potable Water
4101 Norrisville Rd - Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7745098
LL Group # 1532516
Account # 08390

Project Name: Carroll Madonna

Collected: 01/20/2015 11:06 by DR

Submitted: 01/20/2015 18:30
Reported: 01/30/2015 12:28

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3921E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S150231AA	01/23/2015 17:56	Jason M Long	1

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Analysis Report

Sample Description: 3921 GREENPEAK-MID Grab Potable Water
4101 Norrisville Rd - Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7745099
LL Group # 1532516
Account # 08390

Project Name: Carroll Madonna

Collected: 01/20/2015 11:04 by DR

Submitted: 01/20/2015 18:30
Reported: 01/30/2015 12:28

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3921M

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S150231AA	01/23/2015 18:24	Jason M Long	1

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Analysis Report

Sample Description: 3921 GREENPEAK-INF Grab Potable Water
4101 Norrisville Rd - Jarrettsville, MD
Carroll Madonna

LL Sample # PW 7745100
LL Group # 1532516
Account # 08390

Project Name: Carroll Madonna

Collected: 01/20/2015 11:02 by DR

Submitted: 01/20/2015 18:30
Reported: 01/30/2015 12:28

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

3921I

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	
03648	t-Amyl Methyl Ether	994-05-8	N.D.	0.1	1
03648	Benzene	71-43-2	N.D.	0.1	1
03648	t-Butyl Alcohol	75-65-0	N.D.	2.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03648	Ethyl t-Butyl Ether	637-92-3	N.D.	0.1	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	1
03648	di-Isopropyl Ether	108-20-3	N.D.	0.1	1
03648	Methyl Tertiary Butyl Ether	1634-04-4	17	0.1	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	1
03648	Naphthalene	91-20-3	N.D.	0.2	1
03648	Styrene	100-42-5	N.D.	0.1	1
03648	Tetrachloroethene	127-18-4	0.1 J	0.1	1
03648	Toluene	108-88-3	N.D.	0.1	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03648	Trichloroethene	79-01-6	N.D.	0.1	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	VOCs- 25ml Water by 524.2	EPA 524.2	1	S150281AA	01/28/2015 09:42	Jason M Long	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1532516
Reported: 01/30/15 at 12:28 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: S150231AA	Sample number(s): 7745098-7745099							
t-Amyl Methyl Ether	N.D.	0.1	ug/l	88		70-130		
Benzene	N.D.	0.1	ug/l	99		70-130		
t-Butyl Alcohol	N.D.	2.5	ug/l	92		70-130		
Carbon Tetrachloride	N.D.	0.1	ug/l	98		70-130		
Chlorobenzene	N.D.	0.1	ug/l	92		70-130		
1,2-Dichlorobenzene	N.D.	0.1	ug/l	92		70-130		
1,3-Dichlorobenzene	N.D.	0.1	ug/l	92		70-130		
1,2-Dichloroethane	N.D.	0.1	ug/l	109		70-130		
1,1-Dichloroethene	N.D.	0.1	ug/l	93		70-130		
cis-1,2-Dichloroethene	N.D.	0.1	ug/l	101		70-130		
trans-1,2-Dichloroethene	N.D.	0.1	ug/l	98		70-130		
1,2-Dichloropropane	N.D.	0.1	ug/l	107		70-130		
Ethyl t-Butyl Ether	N.D.	0.1	ug/l	89		70-130		
Ethylbenzene	N.D.	0.1	ug/l	94		70-130		
di-Isopropyl Ether	N.D.	0.1	ug/l	88		70-130		
Methyl Tertiary Butyl Ether	N.D.	0.1	ug/l	83		70-130		
Methylene Chloride	N.D.	0.3	ug/l	90		70-130		
Naphthalene	N.D.	0.2	ug/l	76		70-130		
Styrene	N.D.	0.1	ug/l	99		70-130		
Tetrachloroethene	N.D.	0.1	ug/l	89		70-130		
Toluene	N.D.	0.1	ug/l	103		70-130		
1,2,4-Trichlorobenzene	N.D.	0.2	ug/l	77		70-130		
1,1,1-Trichloroethane	N.D.	0.1	ug/l	101		70-130		
1,1,2-Trichloroethane	N.D.	0.1	ug/l	104		70-130		
Trichloroethene	N.D.	0.1	ug/l	101		70-130		
Vinyl Chloride	N.D.	0.1	ug/l	99		70-130		
Xylene (Total)	N.D.	0.1	ug/l	98		70-130		
Batch number: S150281AA	Sample number(s): 7745100							
t-Amyl Methyl Ether	N.D.	0.1	ug/l	92		70-130		
Benzene	N.D.	0.1	ug/l	101		70-130		
t-Butyl Alcohol	N.D.	2.5	ug/l	112		70-130		
Carbon Tetrachloride	N.D.	0.1	ug/l	103		70-130		
Chlorobenzene	N.D.	0.1	ug/l	91		70-130		
1,2-Dichlorobenzene	N.D.	0.1	ug/l	99		70-130		
1,3-Dichlorobenzene	N.D.	0.1	ug/l	98		70-130		
1,2-Dichloroethane	N.D.	0.1	ug/l	107		70-130		
1,1-Dichloroethene	N.D.	0.1	ug/l	107		70-130		
cis-1,2-Dichloroethene	N.D.	0.1	ug/l	100		70-130		
trans-1,2-Dichloroethene	N.D.	0.1	ug/l	102		70-130		
1,2-Dichloropropane	N.D.	0.1	ug/l	100		70-130		
Ethyl t-Butyl Ether	N.D.	0.1	ug/l	90		70-130		
Ethylbenzene	N.D.	0.1	ug/l	94		70-130		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1532516

Reported: 01/30/15 at 12:28 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
di-Isopropyl Ether	N.D.	0.1	ug/l	96		70-130		
Methyl Tertiary Butyl Ether	N.D.	0.1	ug/l	88		70-130		
Methylene Chloride	N.D.	0.3	ug/l	102		70-130		
Naphthalene	N.D.	0.2	ug/l	86		70-130		
Styrene	N.D.	0.1	ug/l	96		70-130		
Tetrachloroethene	N.D.	0.1	ug/l	94		70-130		
Toluene	N.D.	0.1	ug/l	103		70-130		
1,2,4-Trichlorobenzene	N.D.	0.2	ug/l	95		70-130		
1,1,1-Trichloroethane	N.D.	0.1	ug/l	112		70-130		
1,1,2-Trichloroethane	N.D.	0.1	ug/l	97		70-130		
Trichloroethene	N.D.	0.1	ug/l	105		70-130		
Vinyl Chloride	N.D.	0.1	ug/l	100		70-130		
Xylene (Total)	N.D.	0.1	ug/l	95		70-130		

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: S150231AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
7745098	88	88
7745099	86	88
Blank	89	85
LCS	93	90
Limits:	80-120	80-120

Analysis Name: VOCs- 25ml Water by 524.2
Batch number: S150281AA

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4
7745100	97	97
Blank	96	100
LCS	101	99
Limits:	80-120	80-120

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1532516 Sample # 7745098-100

Client: Groundwater & Environmental Services, Inc. (GES)	
Project Name/#: Carroll Madonna	Site ID #: 0402814
Project Manager: Gregory Reichart	P.O. #: 0402814-06-209
Sampler: Danielle Rice	PWSID #:
Phone #: 800-220-3606	Quote #:
State where sample(s) were collected: 4101 Norrisville Rd, Jarrettsville, MD	

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Sediment	Potable	Ground	Surface	NPDES	Water	Other:	Total # of Containers	Full Suite VOCs plus Oxygenates including Naphthalene (524.2)	Remarks
3921 GREENPEAK - EFF	1/20/15	1106	✓								✓		4	✓	EDD file name:
3921 GREENPEAK - MID	↓	1104	↓								↓		↓	↓	Carroll Madonna-
3921 GREENPEAK - INF	↓	1102	↓								↓		↓	↓	lab report
															#.21993.EQEDD.zip

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone: 800-220-3606 x3717

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: EQEDD

Relinquished by:	Date	Time	Received by:	Date	Time
Danielle Rice	1/20/15	1106	Denise Woodring	1-20-15	1337
Denise Woodring	1-20-15	14:03	[illegible]	1/20/15	14:03
[illegible]	1/20/15	18:30			
			[illegible]	1/20/15	1830

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.2 °C

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 51568

Group Number(s): 1532516

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	01/20/2015 18:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 18:47 on 01/20/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	0.2	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.co

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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