Second Quarter 2012
Groundwater Monitoring Report
Patchogue Former MGP Site
NYSDEC Site No. 1-52-182
Village of Patchogue, Suffolk County, New York

Prepared for

National Grid USA, Hicksville, New York

September 2012

Second Quarter 2012 Groundwater Monitoring Report
Patchogue Former MGP Site
NYSDEC Site No. 1-52-182
Village of Patchogue, Suffolk County, New York

Prepared for
National Grid USA
175 East Old Country Road
Hicksville, New York 11801

September 2012

Project Number: 142128.410.006

Brown and Caldwell Associates
2 Park Way, Suite 2A
Upper Saddle River, New Jersey 07458

Table of Contents

Appendices

List of Tables

List of Figures

Section 1

Introduction

Brown and Caldwell Associates (BC) is pleased to submit this report containing the data deliverables related to the Second Quarter 2012 groundwater monitoring event conducted at the Patchogue Former Manufactured Gas Plant (MGP) Site (hereinafter referred to as the "Site"). The groundwater monitoring event and the preparation of this deliverable are part of the routine groundwater monitoring program being conducted at the Site. This report has been prepared for submittal to the New York State Department of Environmental Conservation (NYSDEC) and includes the following:

- Description of the scope of the field activities, methods and procedures;
- Table summarizing results of the water level measurements and the gauging in monitoring wells for the presence of non-aqueous phase liquids (NAPL) (Table 1);
- Table summarizing the analytical results for groundwater samples including a comparison to applicable groundwater quality criteria (Table 2);
- Comparison of data from this monitoring period to data from previous periods (Tables 3 and 4);
- Discussion of the results and findings from the groundwater monitoring data;
- Potentiometric surface map depicting generalized direction of groundwater flow based on groundwater elevation data from wells and surface water elevation data from staff gauges in the Patchogue River (Figure 1);
- Field Sampling Data Sheets (Appendix A);
- Laboratory Data Report (Appendix B);
- Data Usability Summary Report (Appendix C); and
- Electronic Data Deliverable (Appendix D).

1.1 Background

A total of twelve groundwater monitoring events have been conducted at the Site since March 2008. These twelve events include: two monitoring events conducted as part of the Remedial Investigation (RI) in March 2008 and July 2008; four semi-annual monitoring events conducted between March 2009 and September 2010; and five quarterly monitoring events in January 2011, April 2011, August 2011, November 2011, February and May 2012. The May 2012 event is the subject of this report. Up until the March 2010 monitoring event, the concentrations and areal distribution of constituents in groundwater had been fairly consistent. Site-related dissolved-phase constituents (e.g., benzene, toluene, ethylbenzene, xylenes [BTEX], and polycyclic aromatic hydrocarbons [PAH]) were detected at concentrations above the Class GA groundwater quality criteria (i.e., standards from the 6 NYCRR Part 703 Standards and guidance values from the Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1) in a limited area near the center of the Site. These elevated concentrations did not extend downgradient to the wells closer to the Patchogue River. However, during the March 2010 and September 2010 monitoring events, detections of BTEX and PAH compounds were more widely distributed than during previous events. It was surmised that this change was the result of a temporary dewatering operation at a construction project at the wastewater treatment facility (WWTF) across the river from the Site. Based on the understanding of Site conditions, it was anticipated that when the dewatering operations had ceased, concentrations in groundwater would re-equilibrate with steady-state

(i.e., pre-dewatering) groundwater flow conditions, and eventually return to levels similar to those prior to dewatering. To confirm this, National Grid increased the frequency of the groundwater monitoring from semi-annually to quarterly; these subsequent monitoring events did document the return of groundwater flow and groundwater quality to conditions consistent with those prior to the dewatering operations. The May 2012 monitoring event, described herein, is the second quarterly monitoring event conducted in 2012.

Section 2

Scope of Work

Field activities for the groundwater monitoring event were conducted by BC on May 23 through May 25, 2012. On May 23, 2012, prior to conducting groundwater sampling, depth-to-water measurements and NAPL gauging were conducted on the 14 monitoring wells associated with the Site. The level of the Patchogue River was also measured at the two staff gauges. Locations of the 14 monitoring wells and staff gauges are depicted on Figure 1.

Groundwater samples were collected from 12 monitoring wells on May 23 through May 25, 2012. Wells MW-5 and MW-6 were not sampled this monitoring period due to the presence of NAPL in these wells. The presence of NAPL in these wells is consistent with observations during previous NAPL gauging activities conducted as part of the quarterly monitoring events. The standard protocol is that if NAPL is observed in a well during gauging or sampling, groundwater samples are not submitted for laboratory analyses. Groundwater sampling was conducted using low-flow purging and sampling techniques in accordance with USEPA (July 1996, Revised January 2010) protocol. Samples were submitted to an analytical laboratory and analyzed for: BTEX and methyl tertiary butyl ether (MTBE) using USEPA SW-846 Method 8260B; and PAHs, using USEPA SW-846 Method 8270C. The groundwater samples were also analyzed in the field for pH, specific conductivity, temperature, turbidity, oxidation-reduction potential (ORP), and dissolved oxygen (see Appendix A for field data sheets).

The samples were submitted for the above-described laboratory analyses to Lancaster Laboratories, Inc. (Lancaster) located in Lancaster, Pennsylvania. Lancaster is certified (Certification No. 10670) through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP). The laboratory report from Lancaster is provided as Appendix B. The laboratory analytical data were provided to BC in electronic form by Lancaster and have been incorporated into an environmental database for the Site.

In addition to the samples described above, quality assurance/quality control (QA/QC) samples were also collected. The QA/QC samples included: trip blanks (one per cooler containing samples for BTEX and MTBE analysis), a field duplicate, and an equipment blank. Also, extra sample volume was collected from one location to provide for matrix spike/matrix spike duplicate (MS/MSD) analysis. The trip blanks were analyzed for BTEX and MTBE only. The other QA/QC samples were analyzed for BTEX, MTBE and PAHs.

Laboratory results for the groundwater sample analyses were forwarded to a data validator, Environmental Data Services, Inc. of Williamsburg, Virginia, for review and preparation of a Data Usability Summary Report (DUSR). The DUSR presents a summary of data usability including a discussion of qualified data. The DUSR is provided as Appendix C. As described in the DUSR, the data were considered by the validator to be valid and usable. An Electronic Data Deliverable (EDD) of the validated analytical data is provided in Appendix D.

Section 3

Results and Findings

3.1 Water Level Data

Table 1 provides the water level data from the May 23, 2012 measurements. Figure 1 illustrates the elevation contours of the water table based on these data. The contours were developed using water level data only from the shallow wells at the Site (i.e., those with screens that straddle, or are just below, the water table) and the surface water staff gauges in the Patchogue River because these values are more representative of water table elevations than data from the deeper wells. However, the groundwater elevation (hydraulic head) values for the wells screened in deeper intervals are also posted on Figure 1. The water table is relatively shallow and is typically positioned in the fill that overlies the alluvial deposits and outwash deposits. The water table contours indicate that lateral groundwater flow is from northwest to southeast across the Site toward the Patchogue River. Comparisons of the groundwater levels in the Site monitoring wells to the river elevations, as measured at the staff gauge locations, demonstrate that groundwater elevations are higher than the river level, thus indicating that groundwater is discharging to the Patchogue River. The upward vertical hydraulic gradient measured at the two well clusters adjacent to the river (MW-4S and D, and MW-9S and D) provides further support to the conclusion that groundwater is discharging to the Patchogue River. The general configuration of the water table contours (as shown on Figure 1), developed using the May 23, 2012 data, and the interpreted groundwater flow patterns, are consistent with those from previous rounds of water level measurements with one exception. The exception occurred during the March 2010 sampling event when the large-scale dewatering activities were being conducted on the WWTF site located east of the Site on the opposite side of the river (see discussion in Section 1.1). Operation of this dewatering system altered groundwater flow patterns and levels at the Site (see "Groundwater Monitoring Report, Second Semiannual 2010 Sampling Event" [GEI, November 2010]).

3.2 NAPL Gauging

Table 1 presents the results of the NAPL gauging conducted during the May 2012 quarterly groundwater sampling event. NAPL was identified in the following wells during the gauging activities:

- **MW-5:** Brown-black DNAPL blebs on last 1.0 ft of threaded rod, strong tar-like odor.
- **MW-6:** Black NAPL blebs on bottom 0.15 ft of threaded rod, strong tar-like odor.

NAPL had been observed in these two wells on occasion during previous NAPL gauging events.

3.3 Groundwater Quality Data

Table 2 provides the results of the laboratory analyses of the groundwater samples collected during the Second Quarter 2012 and a comparison of the data to the New York State Class GA groundwater quality criteria, i.e., standards from the 6 NYCRR Part 703 Standards and guidance values from the Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. Comparisons of total BTEX and total PAH concentrations from this sampling event to previous sampling events are provided as Tables 3 and 4, respectively.

As described above, during water level monitoring and gauging activities, NAPL was identified in two of the 14 monitoring wells, MW-5 and MW-6; these two wells are located in the central part of the Site in the area of former MGP operations. Therefore, these two wells were not sampled. Groundwater samples were collected from the remaining 12 monitoring wells and submitted for analysis. In general, the analytical results were consistent with those from previous monitoring events. BTEX compounds were not detected in groundwater samples from any of these wells. At most locations, PAH compounds were either not detected or were detected at concentrations below the Class GA groundwater quality criteria. However, in samples collected from monitoring wells MW-9D, MW-9S, MW-7D, MW-3,and MW-2D one or more PAH compounds were detected at low concentrations (i.e., slightly above the laboratory method detection limit), but above the Class GA groundwater quality criteria during the Second Quarter 2012 (May 2012) event.

The PAH compounds that were identified in the groundwater samples from these monitoring wells at concentrations above the Class GA groundwater quality criteria--benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene and indeno(1,2,3-cd)pyrene--have very low aqueous solubilities, are not readily mobile in groundwater, and are unlikely to have migrated from the on-site source area. The criteria that were exceeded for five of these six PAHs are unpromulgated guidance values rather than Part 703 standards, while the criteria for the sixth PAH, benzo(a)pyrene, is a Part 703 standard. The standard for benzo(a)pyrene was exceeded at concentrations below the method quantitation limit. The guidance value for the five PAHs, 0.002 µg/L, is nearly two orders of magnitude below the method detection limit, and the standard for benzo(a)pyrene is “non-detect”. Therefore, any detection of these compounds in groundwater will result in an exceedance. The concentrations of these constituents will be further evaluated through continued quarterly groundwater monitoring.

Section 4

Summary and Conclusions

NAPL was identified in two of the 14 monitoring wells, MW-5 and MW-6 during the Second Quarter 2012 (May 2012), as in previous monitoring events. Both MW-5 and MW-6 are located in the center of the Site in the area of former MGP operations. No BTEX compounds were detected during the analysis of groundwater samples collected from the twelve other monitoring wells during this monitoring event. At seven of the twelve wells, PAH compounds were either not detected or were detected at concentrations below the Class GA groundwater quality criteria. However, in samples collected from monitoring wells MW-9D, MW-9S, MW-7D, MW-3, and MW-2D one or more PAH compounds were detected at low concentrations (i.e., slightly above the method detection limit), but above the Class GA groundwater quality criteria. These findings are consistent with those of previous monitoring events. At MW-9D, MW-9S, and MW-2D one of the PAH compounds exceeded Part 703 Standard while the other exceedances identified are exceedances of unpromulgated guidance values. The criteria for these compounds are extremely low, approximately two orders of magnitude below the laboratory method detection limit. The six PAH compounds that were identified at concentrations above the Class GA groundwater quality criteria have very low aqueous solubilities, are not readily mobile in groundwater, and are unlikely to have migrated from the on-site source area. This will continue to be evaluated through subsequent quarterly monitoring events.

During the last five quarters, the concentrations of BTEX and PAHs in the shallow groundwater and the areal distribution of these concentrations are similar to those from monitoring events which occurred prior to March 2010. This indicates that constituent concentrations in groundwater have decreased and have generally re-equilibrated with the steady-state groundwater flow conditions that existed prior to the operation of the large-scale temporary construction dewatering system (see Section 1.1) that affected the results of the March and September 2010 monitoring events, as anticipated. Monitoring will continue in order to confirm these conditions.

References

GEI, November 2010. Groundwater Monitoring Report, Second Semiannual 2010 Sampling Event, Patchogue Former MGP Site, Town of Brookhaven, Suffolk County, Long Island, New York, Site ID No. 1-52-182.

USEPA, July 1996; Revised January 2010. Low-Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.

Tables

TABLE 1
WATER ELEVATIONS AND NAPL MONITORING DATA
MAY 2012
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Well ID	Top of Casing Elevation (ft., NAVD)	5/23/2012 Depth to Water (ft., BTOC)	Water Elevation (ft., NAVD)	Depth to NAPL (ft., BTOC)	Total Depth of Well (ft., BGS)	Remarks
MW-1	11.23	5.85	5.38	ND	16.2	
MW-2S	8.97	4.46	4.51	ND	14.05	
MW-2D	8.23	3.81	4.42	ND	26.2	
MW-3	5.39	2.47	2.92	ND	10.48	
MW-4S	7.74	5.11	2.63	ND	12.1	
MW-4D	7.57	4.86	2.71	ND	26.5	
MW-5	7.93	4.16	3.77	15.65	16.65	Brown-black NAPL Blebs on last 1.0 ft of threaded rod, strong tar-like odor.
MW-6*	8.08	6.51	1.57	21.65	21.8	Black NAPL blebs on bottom 0.15 ft of threaded rod, strong tar-like odor. *Depth to water measurement is anomalously low compared to previous and subsequent measurements.
MW-7S	8.21	4.53	3.68	ND	12.4	
MW-7D	8.09	4.32	3.77	ND	27.9	
MW-8S	4.86	0.87	3.99	ND	9.8	
MW-8D	4.77	0.82	3.95	ND	25.1	
MW-9S	4.47	1.54	2.93	ND	10.23	
MW-9D	4.66	1.55	3.11	ND	23.15	
SG-1	5.23	4.11	1.12	--	NA	
SG-2	5.16	3.85	1.31	--	NA	

Notes:
NAVD - North American Vertical Datum
BGS - Below Ground Surface
BTOC - Below Top of Casing
NAPL - Non-aqueous phase liquid
NA - Not applicable
ND - Not Detected

TABLE 2
GROUNDWATER ANALYSIS RESULTS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703 Standard	Units	Loc ID / Date	MW-1 5/23/2012	MW-1 DUP 5/23/2012	MW-2S 5/24/2012	MW-2D 5/24/2012	MW-3 5/24/2012	MW-4S 5/24/2012	MW-4D 5/24/2012
Volatile Organic Compounds											
BTEX											
Benzene	NE	1	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	NE	5	µg/L		0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Ethylbenzene	NE	5	µg/L		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
m&p-Xylenes	NE	5	µg/L		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
o-Xylene	NE	5	µg/L		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Xylenes, Total	NE	NE	µg/L		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Total BTEX	NE	NE	µg/L		ND	ND	ND	ND	ND	ND	ND
Other VOCs											
Methyl Tertiary Butyl Ether	10	NE	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.2 J	0.1 U	0.3 J
Acenaphthylene	NE	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.3 J	0.1 U	2
Anthracene	50	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.4 J	0.1 U	0.2 J
Benzo(a)anthracene	0.002	NE	µg/L		0.1 U	0.1 U	0.1 U	**0.1 J**	**0.1 J**	0.1 U	0.1 U
Benzo(a)pyrene	NE	0	µg/L		0.1 U	0.1 U	0.1 U	**0.1 J**	0.1 U	0.1 U	0.1 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.1 U	0.1 U	0.1 U	**0.1 J**	0.1 U	0.1 U	0.1 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 J	0.1 U	0.1 U	0.1 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chrysene	0.002	NE	µg/L		0.1 U	0.1 U	0.1 U	**0.1 J**	0.1 U	0.1 U	0.1 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluoranthene	50	NE	µg/L		0.1 J	0.1 U	0.1 U	0.1 U	2	0.1 U	0.1 U
Fluorene	50	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 2
GROUNDWATER ANALYSIS RESULTS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

	Class GA Groundwater Criteria										
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-1	MW-1 DUP	MW-2S	MW-2D	MW-3	MW-4S	MW-4D
Constituent	Guidance	Standard	Units	Date	5/23/2012	5/23/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012
Naphthalene	10	NE	µg/L		0.1 J	0.1 U	0.1 J	0.1 U	0.1 U	0.1 U	0.2 J
Phenanthrene	50	NE	µg/L		0.1 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2
Pyrene	50	NE	µg/L		0.1 J	0.1 J	0.1 U	0.2 J	2	0.1 U	0.1 J
Total PAHs	NE	NE	µg/L		0.4	0.1	0.1	0.7	5	ND	5.8

TABLE 2
GROUNDWATER ANALYSIS RESULTS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703 Standard	Units	Loc ID	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
				Date	5/23/2012	5/24/2012	5/25/2012	5/25/2012	5/24/2012	5/26/2012
Volatile Organic Compounds										
BTEX										
Benzene	NE	1	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	NE	5	µg/L		0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Ethylbenzene	NE	5	µg/L		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
m&p-Xylenes	NE	5	µg/L		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
o-Xylene	NE	5	µg/L		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Xylenes, Total	NE	NE	µg/L		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Total BTEX	NE	NE	µg/L		ND	ND	ND	ND	ND	ND
Other VOCs										
Methyl Tertiary Butyl Ether	10	NE	µg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Semi-Volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	NE	µg/L		0.1 U	0.1 U	0.7	0.1 U	3	0.1 U
Acenaphthylene	NE	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.5	0.1 J
Anthracene	50	NE	µg/L		0.1 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(a)anthracene	0.002	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	**0.2 J**	**0.1 J**
Benzo(a)pyrene	NE	0	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	**0.2 J**	**0.2 J**
Benzo(b)fluoranthene	0.002	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	**0.2 J**	**0.3 J**
Benzo(g,h,i)perylene	NE	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 J	0.2 J
Benzo(k)fluoranthene	0.002	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	**0.1 J**	**0.2 J**
Chrysene	0.002	NE	µg/L		0.1 U	**0.1 J**	0.1 U	0.1 U	**0.2 J**	**0.2 J**
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluoranthene	50	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.5	0.3 J
Fluorene	50	NE	µg/L		0.1 U	0.1 U	0.1 J	0.1 U	0.3 J	0.1 J
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.2 J**

TABLE 2
GROUNDWATER ANALYSIS RESULTS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

	Class GA Groundwater Criteria									
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
Constituent	Guidance	Standard	Units	Date	5/23/2012	5/24/2012	5/25/2012	5/25/2012	5/24/2012	5/26/2012
Naphthalene	10	NE	µg/L		0.1 U	0.1 U	0.2 J	0.1 U	0.2 J	0.1 J
Phenanthrene	50	NE	µg/L		0.1 U	0.1 U	0.1 U	0.1 U	0.1 J	0.3 J
Pyrene	50	NE	µg/L		0.1 U	0.2 J	0.1 U	0.1 U	0.7	0.5
Total PAHs	NE	NE	µg/L		0.1	0.3	1	ND	6	2.8

Notes:
J - Estimated concentration. The result is below the practical quantitation limit but above the method detection limit.
U - The analyte was analyzed for, but was not detected.
µg/L - micrograms per liter
ND - Not detected.
NE - Not established.

Boxed concentrations are above New York State Class GA Groundwater Quality Standards or Guidance values.

TABLE 3
SUMMARY OF HISTORICAL BTEX CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total BTEX Concentrations (µg/L)													
	Monitoring Well													
	MW-1	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
Mar-08	0	0	0	0	3.4	0	1016	57	NS	NS	NS	NS	NS	NS
Jul-08	NS	0	0	0	0	0	678	0	0	0	0	0	0	0
Mar-09	0	0	0	0	0	0	975	0	0	1	0	0	0	0
Sep-09	0	0	0	0	0	0	1257	1	0	0	0	0	0	0
Mar-10	0	0	0	0	0	0	637	2	0	9	0	0	0	0
Sep-10	0	0	0	0	0	0	NS	0	0	0	0	0	27	0
Jan-11	1.7	0	0	0	0	0	NS	NS	0	0	0	0	1	0
Apr-11	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Aug-11	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Nov-11	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Feb-12	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
May-12	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Min	0	0	0	0	0	0	637	0	0	0	0	0	0	0
Max	1.7	0	0	0	3.4	0	1257	57	0	9	0	0	27	0
Mean	0.2	0	0	0	0.3	0	913	10	0	0.9	0	0	2.5	0

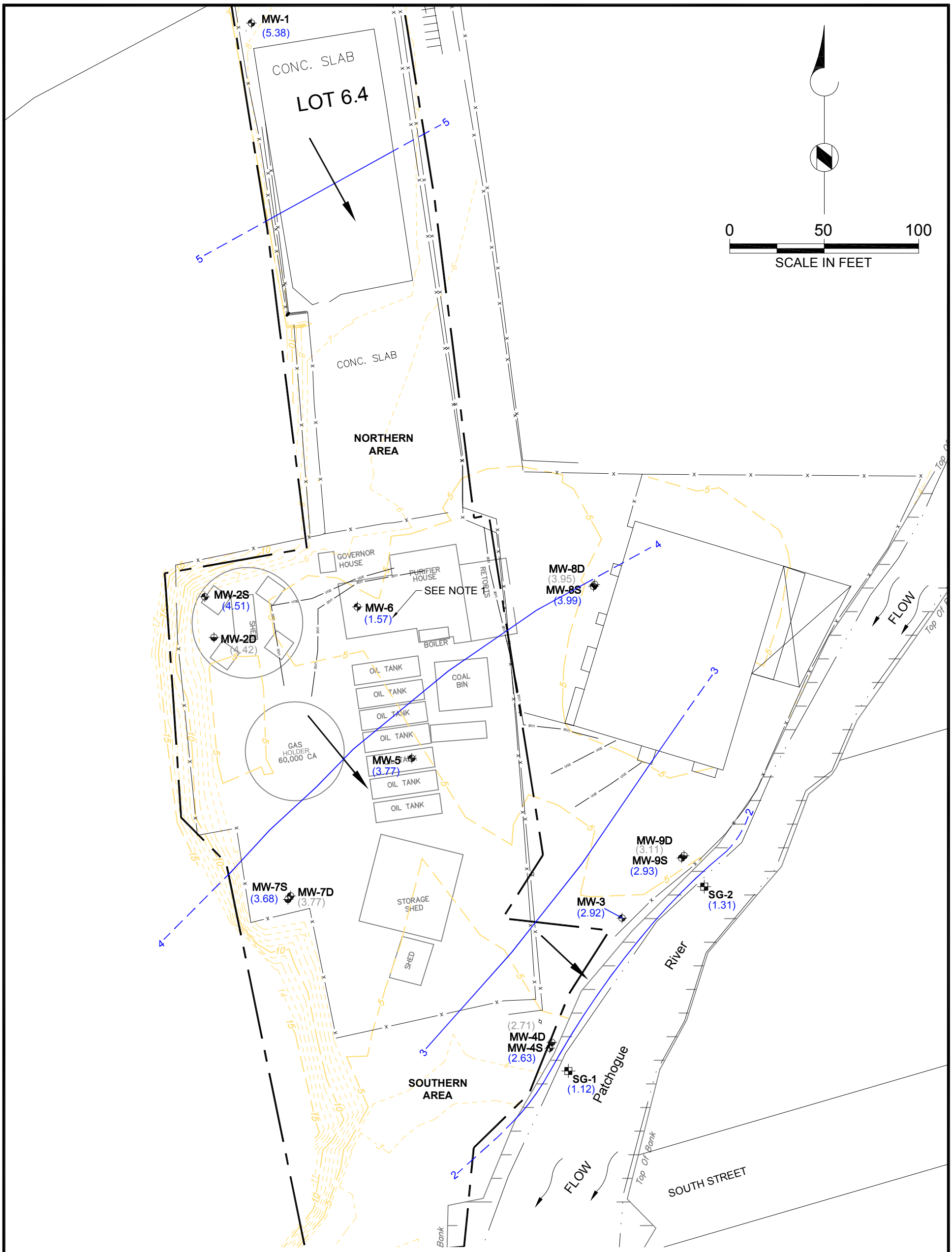
Notes:
BTEX - Benzene, toluene, ethylbenzene and xylene isomers
µg/L - micrograms per liter
NS - Not sampled.

TABLE 4
SUMMARY OF HISTORICAL PAH CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total PAH Concentrations (µg/L)													
	Monitoring Well													
	MW-1	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
Mar-08	0	0	0	0.76	0.6	4.3	1774	214	NS	NS	NS	NS	NS	NS
Jul-08	NS	0.7	0	0	8.0	0	1799	154	0	0.47	0	0	12.0	0
Mar-09	0	0	0	0	0	0	2730	0	0	0	0	0	0	0
Sep-09	0	0	0	0	0	0	3373	1	0	0	0	0	0	0
Mar-10	0	0	0	0	0	39	2390	17	0	0	22	0	2	0
Sep-10	0	0	0	128	0	6	NS	14	0	0	11	0	396	0
Jan-11	22	0	0	17	0	12	NS	NS	0	0	6	0	42	5
Apr-11	0	0	0	6	0	20	NS	NS	0	0	0	0	9	0
Aug-11	0	0	0.1	14	0.1	0	NS	NS	0	0	0.4	0	16	1.2
Nov-11	0	0	0.2	10	0.4	0	NS	NS	0	0	0.8	0.2	8	3.4
Feb-12	0.2	0	0	6	0.6	4	NS	NS	0.1	0	0.6	0	5	2.9
May-12	0.4	0.1	0.6	5	0	5.8	NS	NS	0.1	0.3	1	0	6	2.8
Min	0	0	0	0	0	0	1774	0	0	0	0	0	0	0
Max	22	0.7	0.6	128	8.0	39	3373	214	0.1	0.5	22	0.2	396	5
Mean	2.1	0.1	0	16	0.8	7.6	2413	67	0	0	3.8	0	45	1.4

Notes:
PAH - Polycyclic aromatic hydrocarbons
µg/L - micrograms per liter
NS - Not sampled.

Figures



LEGEND:

- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- STAFF GAUGE
- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR (FT., NAVD)
- UNDERGROUND ELECTRIC
- WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- (4.47) WATER ELEVATION (FT., NAVD) FOR SHALLOW MONITORING WELL OR STAFF GAUGE
- (4.38) GROUNDWATER HEAD ELEVATION (FT., NAVD) FOR WELLS SCREENED BELOW WATER TABLE (FROM DEEP MONITORING WELL)

NOTE:

1. WATER LEVEL MEASUREMENT AT MW-6 IS ANOMALOUSLY LOW BASED ON PRIOR AND SUBSEQUENT MEASUREMENTS. THIS VALUE WAS NOT USED IN CONTOURING.

FIGURE 1

WATER TABLE CONTOUR MAP
MAY 23, 2012

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

DATE	PROJECT NUMBER
8/12	142128

Brown AND Caldwell
ASSOCIATES
ALLENDALE, NEW JERSEY

P:\DRAFTING\NATIONAL_GRID\PATCHOGUE\QUARTERLY-GW-CONTOUR-MAP\MAY-23-2012\FIGURE 1.DWG 09/10/2012 03:33:26PM By:RJames XREFS: Rev_Basemap_1-12-11 Layout: FIG-1

Appendix A: Field Sampling Sheets

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-9S
Sample I.D.: (if different from well no.)

Project: Patheon MCP
Personnel: BFT GG

Date: 5/24/12 Time: 16/28
Weather: Cloudy Air Temp.: 75°

WELL DATA:

Casing Diameter: 6" ☑ Stainless Steel ☐ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 1.78 ft Bottom of Well: _____ ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☐ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☐ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 225ml/min Elapsed Time: 30min Volume Pumped: ~2.5 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☑ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.45 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 15.32 Spec. Cond.: 0.516 Meter Model: _____ Meter S/N: _____
ORP: -162 DO: 1.70 Turbidity: 0.0
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☐ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/24/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: P. Refinery MLP
Personnel: BFT GG
Purge/Sample Depth: 7'
Project Number:
Well ID: MW-5S
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1628	6.34	16.69	-114	0.514	2.26	75.8	1.78	225	
1631	6.37	16.40	-124	0.543	2.09	52.6			
1634	6.39	16.14	-133	0.538	2.08	25.0	1.78		
1637	6.41	16.02	-138	0.523	1.84	16.8			
1640	6.41	16.01	-138	0.521	1.83	12.4			
1643	6.42	15.56	-140	0.516	1.81	0.0			
1646	6.43	15.56	-140	0.516	1.76	0.0			
1649	6.43	15.53	-141	0.516	1.75	0.0	1.79		
1652	6.43	15.52	-142	0.515	1.70	0.0			
1655	6.44	15.52	-142	0.515	1.71	0.0			
1658	6.45	15.52	-142	0.516	1.70	0.0			
1701	Sample Collected								

5/29/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-4S
Sample I.D.: (if different from well no.)

Project: Paterson MGP
Personnel: BFT & G

Date: 5/24/12 Time: 1418
Weather: Cloudy Air Temp.: 70°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 5.11 ft Bottom of Well: _____ ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 350 ml/min Elapsed Time: 30 min Volume Pumped: ~3.5 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 5.99 Meter Model: Hydrolab U-22 Meter S/N: _____
Temperature: 14.42 Spec. Cond.: 0.356 Meter Model: _____ Meter S/N: _____
ORP: 153 DO: 1.96 Turbidity: 1.41
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____
I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/24/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Personnel: BFT/GG
Purge/Sample Depth: ~~N/A~~ 10' (ISP)
Project Number:
Well ID: 4S
Sample ID: 4S.

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1418	5.91	16.28	129	0.450	4.79	185.1	5.11	350	
1421	5.94	15.20	134	0.447	2.78	122.0			
1424	5.95	14.76	143	0.377	2.49	250			
1427	5.96	14.57	149	0.370	2.29	12.7			
1430	5.96	14.54	157	0.369	2.24	6.6	5.30		
1433	5.96	14.41	156	0.368	2.07	0.0			
1436	5.97	14.40	158	0.359	2.12	0.7			
1439	5.98	14.33	158	0.361	2.03	2.6			
1442	5.98	14.40	155	0.361	1.94	10.0			
1445	5.99	14.48	153	0.356	1.96	1.4	5.20		
1450									

Sample Collected

8/24/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-41D
Sample I.D.: (if different from well no.)

Project: Paterson MGP
Personnel: BAT GG

Date: 5/24/12 Time: 1320
Weather: Cloudy Air Temp.: 70°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 4.26 ft Bottom of Well: _____ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☐ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☑ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☑ Teflon® ☐ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 300 ml Elapsed Time: 450 min/min Volume Pumped: ~5 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☐ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☑ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☑ Teflon® ☐ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 5.67 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 14.68 Spec. Cond.: 0.6 Meter Model: _____ Meter S/N: _____
ORP: 247 DO: 5.33 Turbidity: 0.0
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/24/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue MGD
Personnel: BFT/GG
Purge/Sample Depth: ~~N/A~~ 25' BTF

Project Number:
Well ID: MW-4D
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1320	5.74	14.98	263	1.96	8.28	79.6	4.96	450	
1324	5.78	14.86	255	2.28	7.93	45.0	" "	450	
1327	5.70	14.83	252	1.08	7.74	24.1			
1330	5.67	14.75	249	0.8	7.46	9.1			
1333	5.67	1470	249	0.7	7.18	6.6			
1336	5.66	14.78	250	0.6	6.66	0.0			
1339	5.66	14.70	249	0.6	6.35	0.7			
1342	5.66	14.69	249	0.6	6.19	0.0			
1345	5.66	14.68	247	0.6	5.73	0.0			
1348	5.67	14.70	247	0.6	5.48	0.6	4.96		
1351	5.67	1468	247	0.6	5.35	0.0			
1354									
		Sample Collected							

5/24/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-3
Sample I.D.: (if different from well no.)

Project: Pantasote MGP
Personnel: BFT GG

Date: 5/24/12 Time: 15:37
Weather: Cloudy Air Temp.: 70°

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 2.54 ft Bottom of Well: _____ ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 300 ml/min Elapsed Time: 30 min Volume Pumped: ~3 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☐ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☐ Stainless Steel
Tubing/Rope: ☐ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☑ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☐ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.38 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 15.18 Spec. Cond.: 0.227 Meter Model: _____ Meter S/N: _____
ORP: -71 DO: 6.74 Turbidity: 0.0
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/24/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue MGP
Personnel: BFT GG
Purge/Sample Depth: 7'

Project Number:
Well ID: MW-3
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1537	6.28	17.42	9	0.243	5.33	14.3	2.54	300	
1540	6.32	16.00	-33	0.344	2.06	76.5			
1543	6.33	15.64	-50	0.525	1.83	40.1			
1546	6.34	15.45	-49	0.267	9.46	10.0			
1549	6.35	15.38	-45	0.242	9.45	0.0	2.55		
1552	6.36	15.32	-40	0.233	7.03	0.0			
1555	6.36	15.28	-36	0.232	8.50	0.0			
1558	6.36	15.21	-34	0.231	7.83	0.0			
1601	6.37	15.20	-32	0.229	7.38	0.0			
1604	6.36	15.20	-32	0.228	7.34	0.0			
1607	6.38	15.18	-31	0.227	6.54	0.0			
1610	Sample Collected								

5/24/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-1
Sample I.D.: (if different from well no.)

Project: Patterson MGP
Personnel: BFT

Date: 5/23/12 Time: 1336
Weather: Cloudy Air Temp.: 75°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 5.86 ft Bottom of Well: _____ ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 400 ml/min Elapsed Time: 30 min Volume Pumped: ~4 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.45 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 15.01 Spec. Cond.: 1.26 Meter Model: _____ Meter S/N: _____
ORP: -108 DO: 2.01 Turbidity: 5.3
DUP : ☐ No ☑ Yes Name: Dup-052312
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/23/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patterson MGP
Personnel: BFT
Purge/Sample Depth: 121'

Project Number:
Well ID: MW-1
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1339	6.19	15.88	-55	1.35	2.56	87.0	5.86	400 ml/min	
1342	6.26	15.50	-67	2.26	2.18	68.4	5.89		
1345	6.33	15.30	-85	1.34	2.01	48.0	5.93		
1348	6.33	15.20	-89	1.32	1.54	36.9			
1351	6.34	15.23	-95	1.30	1.58	32.1			
1354	6.40	15.15	-99	1.30	1.78	21.8	5.93	300 ml/min	
1357	6.40	15.16	-101	1.27	2.01	20.7			
1400	6.42	15.13	-103	1.26	2.02	17.9			
1403	6.43	15.09	-105	1.26	2.02	15.5			
1406	6.44	15.02	-107	1.26	2.03	15.2			
1409	6.45	15.01	-108	1.26	2.01	15.3			
1412	Sample Collected								

5/23/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-2D
Sample I.D.: (if different from well no.)

Project: Patchogue MGP
Personnel: BFT GG

Date: 5/24/12 Time: 1042
Weather: Cloudy Air Temp.: 70°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 3.86 ft Bottom of Well: _____ ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200 ml/min Elapsed Time: 30 min Volume Pumped: ~2 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 5.27 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 15.65 Spec. Cond.: 0.591 Meter Model: _____ Meter S/N: _____
ORP: 279 DO: 2.32 Turbidity: 46.6
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/24/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue, NY MGP
Personnel: BFT GG
Purge/Sample Depth: 24'
Project Number:
Well ID: MW-2D
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1045	5.49	16.21	237	0.716	2.88	284.0	3.86	200 ml/min	
1048	5.43	15.98	247	0.681	2.54	247.0			
1051	5.39	15.90	254	0.663	2.44	202.0			
1054	5.35	15.84	259	0.631	2.43	160.0	3.86		
1057	5.33	15.80	263	0.620	2.35	149.0			
1100	5.31	15.75	266	0.615	2.34	113.0			
1103	5.30	15.67	270	0.603	2.30	103.0			
1106	5.29	15.68	273	0.574	2.32	81.6			
1109	5.28	15.67	275	0.584	2.38	76.4			
1112	5.28	15.60	278	0.576	2.39	45.9			
1115	5.27	15.65	279	0.591	2.37	416.6			
1118	Sample Collected								

5/28/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-25
Sample I.D.: (if different from well no.)

Project: Patchogue, NY MGP
Personnel: BFT

Date: 5/24/12 Time: 0900
Weather: Cloudy Air Temp.: 65°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 4.52 ft Bottom of Well: _____ ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☐ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 350 ml/min Elapsed Time: 30 min Volume Pumped: ~3.5 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.13 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 14.55 Spec. Cond.: 0.382 Meter Model: _____ Meter S/N: _____
ORP: 172 DO: 6.40 Turbidity: 0.0
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☐ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/24/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue MGP
Personnel: BFT
Purge/Sample Depth: 12'

Project Number:
Well ID: MW-25
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
0302	6.08	15.13	153	0.345	8.70	466.0	4.52	300 ml/min	
0306	6.02	14.92	158	0.362	7.71	321.0			
0309	6.06	14.84	161	0.369	7.65	228.0			
0312	6.06	14.92	164	0.375	7.20	140.0			
0315	6.09	14.79	165	0.376	7.15	101.0			
0318	6.11	14.81	166	0.378	7.23	63.4			
0321	6.13	14.74	167	0.379	7.23	48.5	4.57		
0324	6.13	14.71	169	0.381	7.22	17.8			
0327	6.13	14.65	169	0.380	6.88	14.9			
0330	6.13	14.60	171	0.382	6.53	0.1			
0333	6.13	14.55	172	0.382	6.40	0.0	4.61		
0336	Sample Collected								

8/24/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-7D
Sample I.D.: (if different from well no.)

Project: Paterson MGP
Personnel:

Date: 5/24/12 Time: 0803
Weather: Cloudy Air Temp.: 65°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 4.41 ft Bottom of Well: _____ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☑ Yes ☐ No ☐ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 ml/min Elapsed Time: 30 min Volume Pumped: ~3.5 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☐ Clear ☑ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.21 Meter Model: _____ Meter S/N: _____
Temperature: 14.40 Spec. Cond.: 0.4012 Meter Model: _____ Meter S/N: _____
ORP: 59 DO: 2.43 Turbidity: 94.7
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/24/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Potrero MGP
Personnel: _____
Purge/Sample Depth: 25'
Project Number: _____
Well ID: MW-7D
Sample ID: _____

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
0806	6.26	14.39	46	0.657	3.22	688.0	4.41	350 ml/min	
0809	6.17	14.34	44	0.557	2.46	383.0			
0812	6.12	14.29	44	0.510	2.42	254.0			
0815	6.12	14.30	46	0.503	2.44	251.0	4.43		
0818	6.14	14.29	49	0.489	2.43	263.0			
0821	6.16	14.33	51	0.468	2.44	180.0			
0824	6.16	14.36	53	0.464	2.44	153.0			
0827	6.18	14.41	54	0.460	2.44	141.0			
0830	6.19	14.39	56	0.449	2.43	120.0			
0833	6.20	14.38	58	0.446	2.43	101.0			
0836	6.21	14.40	59	0.442	2.43	94.7			
0839	Sample Collected								

5/24/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-75
Sample I.D.: (if different from well no.)

Project: Patterson MGP
Personnel: BFT ND

Date: 5/23/12 Time: 1527
Weather: Cloudy Air Temp.: 70°

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other:
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 41.51 ft Bottom of Well: ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: To be purged:

PURGE DATA:

METHOD: ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other:
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other:

Pumping Rate: 300 ml/min Elapsed Time: 30 min Volume Pumped: ~3 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed:
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method:
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.54 Meter Model: Horiba U-22 Meter S/N:
Temperature: 13.32 Spec. Cond.: 0.387 Meter Model: Meter S/N:
ORP: -88 DO: 5.76 Turbidity: 18.1
DUP : ☑ No ☐ Yes Name:
MS/MSD : ☐ No ☑ Yes Name: MW-75 MS/MSD
Field Lab Results: ☑ N/A pH: DO: Temperature:

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: Date: 5/23/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Pathogen MGP
Personnel: BFT ND
Purge/Sample Depth: 10'
Project Number:
Well ID: MW-75
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1530	6.63	14.14	-55	0.430	6.75	165.0	4.71	300	
1533	6.56	13.52	-66	0.427	7.26	75.7			
1536	6.52	13.37	-69	0.444	6.57	56.2	4.73		
1539	6.50	13.40	-70	0.386	6.71	38.8			
1542	6.51	13.36	-74	0.382	6.42	26.5			
1545	6.51	13.32	-77	0.383	6.41	20.4			
1548	6.52	13.34	-80	0.384	6.10	17.7			
1551	6.52	13.42	-84	0.385	6.20	16.6			
1554	6.53	13.39	-85	0.387	5.94	15.5	4.71		
1557	6.54	13.36	-86	0.387	5.89	17.3			
1600	6.54	13.32	-88	0.387	5.76	18.1			
1603	Sample	Collected							

5/23/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-8D
Sample I.D.: (if different from well no.)

Project: Paterson MGP
Personnel: BFT GL

Date: 5/23/12 Time: 0813
Weather: cloudy / mist Air Temp.: 60°

WELL DATA:

Casing Diameter: 6" ❑ Stainless Steel ☑ Steel ❑ PVC ❑ Teflon® ❑ Other: _____
Intake Diameter: 2" ❑ Stainless Steel ❑ Galv. Steel ☑ PVC ❑ Teflon® ❑ Open rock
DEPTH TO : Static Water Level: 0.9 ft Bottom of Well: _____ ft
DATUM: ☑ Top of Protective Casing ❑ Top of Well Casing ❑ Other:
CONDITION: Is Well clearly labeled? ❑ Yes ☑ No Is well clean to bottom? ☑ Yes ❑ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ❑ No
Does Weep Hole adequately drain well head? ☑ Yes ❑ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ❑ No
Is Padlock Functional? ❑ Yes ❑ No ☑ NA Is Inner Casing Intact? ☑ Yes ❑ No
Is Inner Casing Properly Capped and Vented? ❑ Yes ❑ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ❑ Bailer, Size: ____ ☑ Bladder Pump ❑ 2" Submersible Pump ❑ 4" Submersible Pump
❑ Centrifugal Pump ❑ Peristaltic Pump ❑ Inertial Lift Pump ❑ Other: _____

MATERIALS: Pump/Bailer: ❑ Teflon® ☑ Stainless Steel ❑ PVC ❑ Other: _____
Tubing/Rope: ☑ Teflon® ❑ Polyethylene ❑ Polypropylene ❑ Other: _____

Pumping Rate: 400 ml/min Elapsed Time: 45 min Volume Pumped: ~5 Gallons
Was well Evacuated? ❑ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ❑ Dedicated ❑ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ❑ Bailer, Size: ____ ☑ Bladder Pump ❑ 2" Submersible Pump ❑ 4" Submersible Pump
❑ Syringe Sampler ❑ Peristaltic Pump ❑ Inertial Lift Pump ❑ Other: _____

MATERIALS: Pump/Bailer: ❑ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ❑ Polyethylene

SAMPLING EQUIPMENT: ❑ Dedicated ❑ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ❑ Yes ☑ No Method: _____
APPEARANCE: ❑ Clear ☑ Turbid ❑ Color: _____ ❑ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 5.77 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 15.36 Spec. Cond.: 0.386 Meter Model: _____ Meter S/N: _____
ORP: 111 DO: 8.93 Turbidity: 167.0
DUP : ☑ No ❑ Yes Name: _____
MS/MSD : ☑ No ❑ Yes Name: _____
Field Lab Results: ☑ N/A pH: _____ DO: _____ Temperature: _____
I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/23/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue MGP
Personnel: BFT GC
Purge/Sample Depth: 23'
Project Number:
Well ID: MW-8D
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
0813	5.73	15.54	128	0.638	10.14	"-5.0"	0.9	400 ml/min	
0816	5.78	15.35	119	0.663	5.86	"-5.0"			
0819	5.74	15.29	109	0.532	9.73	"-5.0"			
0822	S Cleaned out Horiba								
0825	5.82	15.36	106	0.406	9.73	"-5.0"			
0828	5.77	15.36	99	0.395	2.22	818	0.8		
0831	5.75	15.34	99	0.393	1.96	601			
0834	5.75	15.35	99	0.395	1.97	552			
0837	5.75	15.35	100	0.397	1.52	414.8			
0840	5.76	15.38	101	0.394	1.52	380.0			
0843	Cleaned out Horiba								
0846	5.78	15.43	109	0.386	10.33	256.0			DO Jumped after Cleaning out Horiba - Actual Reading is more likely to be around 1.90
0849	5.77	15.36	109	0.388	5.77	214.0			
0852	5.77	15.36	109	0.386	9.45	174.0	0.7		
0855	5.77	15.36	110	0.385	9.16	168.0			
0858	5.77	15.36	111	0.386	8.53	167.0			
0901	Sample Collected								

5/25/12

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-8S
Sample I.D.: (if different from well no.)

Project: Patchogue MGP
Personnel: BFT GG

Date: 5/25/12 Time: 0913
Weather: Cloudy / Mist Air Temp.: 65°

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 0.8 ft Bottom of Well: _____ ft
DATUM: ☑ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☐ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☐ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☐ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200 ml/min Elapsed Time: 35 min Volume Pumped: ~2 gallons
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 6.15 Meter Model: Horiba U-22 Meter S/N: _____
Temperature: 16.29 Spec. Cond.: 0.512 Meter Model: _____ Meter S/N: _____
ORP: -75 DO: 7.64 Turbidity: 900.0
DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____
Field Lab Results: ☐ N/A pH: _____ DO: _____ Temperature: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.
Signature: _____ Date: 5/25/12

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Portsmouth NGP
Personnel: BFT GG
Purge/Sample Depth: 7'
Project Number:
Well ID: MW-85
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
0513	5.50	16.51	-13	0.415	8.82	153	0.8	200	
0516	5.53	17.00	-26	0.418	8.66	175			
0519	5.58	17.10	-39	0.443	8.50	177			
0522	6.01	17.13	-45	0.452	8.37	213			
0525	6.05	17.11	-52	0.465	8.26	236.0	0.8		
0528	6.07	17.14	-58	0.478	8.15	214.0			
0531	6.08	17.18	-62	0.487	8.08	153.0			
0534	6.10	17.17	-65	0.494	8.00	180.0			
0537	6.12	17.07	-69	0.495	7.93	175.0			
0540	6.13	17.02	-71	0.495	7.86	162.0			
0543	6.14	16.97	-72	0.500	7.77	154.0			
0545	6.14	16.98	-75	0.512	7.62	57.8			
0548	6.15	16.99	-75	0.512	7.64	50.0			
0551	Sample Collected								

BROWN AND CALDWELL

Allendale, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-9D
Sample I.D.: (if different from well no.)

Project: Pertchogue INT MLP
Personnel: BFT GG

Date: ~~4/1~~ 5/25/12 Time: 1111
Weather: Cloudy / Drizzle Air Temp.: 70°

WELL DATA:

Casing Diameter: 6" ❑ Stainless Steel ☑ Steel ❑ PVC ❑ Teflon® ❑ Other: ____
Intake Diameter: 2" ❑ Stainless Steel ❑ Galv. Steel ☑ PVC ❑ Teflon® ❑ Open rock
DEPTH TO : Static Water Level: 1.56 ft Bottom of Well: ____ ft
DATUM: ☑ Top of Protective Casing ❑ Top of Well Casing ❑ Other:
CONDITION: Is Well clearly labeled? ❑ Yes ☑ No Is well clean to bottom? ☑ Yes ❑ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ❑ No
Does Weep Hole adequately drain well head? ☑ Yes ❑ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ❑ No
Is Padlock Functional? ❑ Yes ❑ No ☑ NA Is Inner Casing Intact? ☑ Yes ❑ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ❑ No
VOLUME OF WATER: Standing in well: ____ To be purged: ____

PURGE DATA:

METHOD: ❑ Bailer, Size: ____ ☑ Bladder Pump ❑ 2" Submersible Pump ❑ 4" Submersible Pump
❑ Centrifugal Pump ❑ Peristaltic Pump ❑ Inertial Lift Pump ❑ Other: ____

MATERIALS: (Pump/Bailer): ❑ Teflon® ☑ Stainless Steel ❑ PVC ❑ Other: ____
(Tubing/Rope): ☑ Teflon® ❑ Polyethylene ❑ Polypropylene ❑ Other: ____

Pumping Rate: 350 ml/min Elapsed Time: 30 min Volume Pumped: ~3.5 gallon
Was well Evacuated? ❑ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ❑ Dedicated ❑ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ❑ Bailer, Size: ____ ☑ Bladder Pump ❑ 2" Submersible Pump ❑ 4" Submersible Pump
❑ Syringe Sampler ❑ Peristaltic Pump ❑ Inertial Lift Pump ❑ Other: ____

MATERIALS: (Pump/Bailer): ❑ Teflon® ☑ Stainless Steel
(Tubing/Rope): ☑ Teflon® ❑ Polyethylene

SAMPLING EQUIPMENT: ❑ Dedicated ☑ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ❑ Yes ☑ No Method: ____
APPEARANCE: ☑ Clear ❑ Turbid ❑ Color: ____ ❑ Contains Immiscible Liquid
FIELD DETERMINATIONS: pH: 5.31 Meter Model: Horiba U-22 Meter S/N: ____
Temperature: 15.62 Spec. Cond.: 0.302 Meter Model: ____ Meter S/N: ____
ORP: 142 DO: 7.53 Turbidity: 80.6
DUP : ☑ No ❑ Yes Name: ____
MS/MSD : ☑ No ❑ Yes Name: ____
Field Lab Results: ❑N/A pH: ____ DO: ____ Temperature: ____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: [signature] Date: 5/25/12

P:*Office*Field_Lab\Field_Data_Sheets\Well_Info_Sheet.doc

BROWN AND CALDWELL

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Petrogas map
Personnel: BFT GG
Purge/Sample Depth: 20'
Project Number:
Well ID: MW-30
Sample ID:

Actual Time	pH	Temp (°C)	ORP (mV)	Cond ( )	DO (mg/L)	Turbidity (NTU)	DTW (ft)	Pumping Rate (mL/min)	Comments
1111	5.54	16.84	83	0.171	10.03	~5.0~	1.56	350	
11 14	5.70	16.01	84	0.287	9.41	713.0			
11 17	5.49	15.78	98	0.274	8.57	406.0			
11 20	5.43	15.66	108	0.276	8.80	263.0			
11 23	5.37	15.62	118	0.297	8.57	130.0	1.56		
11 26	5.35	15.61	124	0.297	8.43	136.0			
11 29	5.32	15.63	136	0.301	7.54	78.0			
11 32	5.32	15.63	137	0.301	7.55	72.1			
11 35	5.32	15.63	137	0.301	7.71	68.0			
11 38	5.31	15.61	140	0.301	7.71	65.7	1.56		
1141	5.31	15.62	142	0.302	7.53	60.6			
1144	Sample Collected								

5/25/12

5/23/12 Patchogue MSD — Mostly cloudy Humid 70°

Quarter 2 GW Sampling

0800 BFT and NB on site

0845 ADT on site for drilling with NB

0900 BFT and NB Setting up air monitoring stations

1000 Begin water levels

1200 OFF site for lunch

1245 on site from lunch

1300 Set up on MW-1

1336 MW-1 DTW ~~5.56~~ 5.86'
Rate =

1412 Sample MW-1 collected and DUP-052312 collected

1500 Set up on MW-7S

1527 MW-7S DTW - 4.51'
Rate = 300 ml/min

1603 MW-7S collected MS/MSD

1630 Decon Pumps

1700 BFT and NB off site

1715 BFT picked up Decon water

~~5/23/12~~

Patchogue 5/23/12

5/23/12

5/22/12 Petrogun

Well ID	DTW	Depth to NAPL	TD	Time
8D	0.82	—	25.20	1002
8S	0.87	—	9.91	1008
9D	1.55	—	22.95	1017
9S	1.54	—	10.21	1018
3	2.47	—	10.50	1025
4D	4.86	—	26.50	1028
4S	5.11	—	12.4	1031
SG-2	3.85	—	—	1045
SG-1	7.11	—	—	1048
MW-1	5.85		15.17	1106
MW-7S	4.53		12.4	1114
MW-7D	4.32		27.9	1117
MW-2D	3.81		26.5	1126
MW-2S	4.46		14.2	~~1132~~ 1133
MW-5	4.16		16.55	1149
MW-6	6.51		21.8	1140

5/23/12

Petrogun 5/23/12

Remarks

Sediment in well ~ 21.7 - 25.20'

@ 6.4 Sediment

@ 21.4 Sediment

@ 8.41 Sediment; faint tar like odor on probe.

@ 7.96 Sediment

overgrown. Soft bottom.

overgrown

@ 8.66 Sediment - Soft Bottom

@ 9.8' Sediment - Soft Bottom

@ 10.5 Sediment; soft bottom

few blebs brownish-black NAPL up to 1.0' on rod.

Black NAPL blebs on bottom 0.15' of rod

Strong odor.

5/23/12

5/24/12 Patterson 2nd Quarter Sampling — cloudy Humid 65°

0730 BFT and GG on site
0745 Set up on MW-7D
0803 MW-7D DTW 4.41
Rate ~~X~~ 350 ml/min
0834 Sample Collected MW-7D ← 0845 Collect Horiba
0852 Set up on MW-2S
0900 MW-2S DTW 4.52
Rate 300 ml/min
0936 MW-2S Collected
1060 Decon pump
1015 EB-052412 Collected
1023 Setup on MW-2D
1042 MW-2D DTW 3.86
Rate 200 ml/min
1118 MW-2D collected
1200 OFF site for Lunch
1246 on Site.
Set up Peri pump on MW-4D
1317 Begin MW-4D
DTW: 4.90
Rate: 450 ml/min
1354 MW-4D Sample Collected
1415 Begin MW-4S
DTW = 5.11
Rate = 350

5/24/12

1450 MW-4S Sampled
1510 Decon Pump
1525 Set up on MW-3
1537 Begin MW-3 DTW - 2.56
Rate = 300 ml/min
1610 MW-3 Sampled
1624 Set up and Begin MW-9S
DTW - 1.78'
Rate = 225
1701 MW-9S Collected
1715 BFT and GG off site

5/24/12

Cloudy
Mist
60°

5/25/12 Patchogue Quarterly Sampling

0745 BFT and GG on site
Calibrate Horiba

0800 Set up on MW-8D

0813 Begin MW-8D
DTW = 0.5'
Purge = 400 ml/min

0901 MW-8D Collected

0913 Begin MW-8S
DTW = 0.8'
Purge = 200 ml/min

0951 Sample Collected MW-8S

1015 Waiting for Access to MW-7D

1111 Begin MW-7D
DTW = 1.56
Purge = 350 ml/min

1144 Sample MW-7D Collected

1200 Cleaning up

1300 Packing coolers with ice.

1345 OFF Site to FedEX.

1430 Done with FedEx off site for day.

5/25/12

5/25/12

5/25/12

Appendix B: Laboratory Reports (CD-ROM)

Appendix C: Data Usability Summary Report

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
PATCHOGUE, NEW YORK

Client: Brown and Caldwell, Allendale, New Jersey
SDG: PCH11
Laboratory: Lancaster Laboratories, Lancaster, Pennsylvania
Site: Patchogue, New York
Date: July 25, 2012

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-1	6669303	Water
2	DUP-052312	6669304	Water
3	MW-7S	6669305	Water
3MS	MW-7SMS	6669306MS	Water
3MSD	MW-7SMSD	6669307MSD	Water
4	MW-7D	6669308	Water
5	MW-2S	6669309	Water
6	MW-2D	6669310	Water
7	EB-052412	6669311	Water
8	MW-4D	6669312	Water
9	MW-4S	6669313	Water
10	MW-9S	6669314	Water
11	MW-3	6669315	Water
12	MW-8D	6669316	Water
13	MW-8S	6669317	Water
14	MW-9D	6669318	Water
15*	TRIP BLANK	6669319	Water

* - VOC only

A Data Usability Summary Review was performed on the analytical data for thirteen water samples, one aqueous field blank sample, and one aqueous trip blank sample collected May 23-24, 2012 by Brown and Caldwell at the Patchogue, New York Site. The samples were analyzed under Environmental Protection Agency (USEPA) *"Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions".*

Specific method references are as follows:

Analysis	*Method References*
VOC (BTEX and MTBE)	USEPA SW-846 Method 8260B
SVOC (PAH)	USEPA SW-846 Method 8270C

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-24, Revision 2, August 2008: Validating Volatile Organic Compounds by SW-846 Method 8260B;
- SOP Number HW-22, Revision 4, August 2008: Validating Semivolatile Organic Compounds by SW-846 Method 8270D;
- and the reviewer's professional judgment.

The following items/criteria were reviewed:

Organics

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Overall Usability Issues:

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (BTEX and MTBE)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD sample exhibited acceptable percent recoveries (%R) and/or relative percent differences (RPD).

Laboratory Control Samples

- The LCS sample exhibited acceptable %R values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table summarizes field blank contamination.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-052412	None- ND	-	-	-	-
TRIP BLANK	None- ND	-	-	-	-

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All %RSD and average RRF criteria were met.

Continuing Calibration

- All %D and RRF criteria were met.

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

VOC				
Compound	MW-1 ug/L	DUP-052312 ug/L	RPD	Qualifier
None	ND	ND	-	-

Semivolatile Organics Compounds (PAH)

Holding Times

- All samples were extracted within 7 days for water samples and analyzed within 40 days.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD sample exhibited acceptable percent recoveries (%R) and/or relative percent differences (RPD).

Laboratory Control Samples

- The LCS sample exhibited acceptable %R values.

Method Blank

- The method blanks were free of contamination.

Field Blanks

- The following table summarizes field blank contamination.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
EB-052412	ND	-	-	-	-

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All %RSD and average RRF criteria were met.

Continuing Calibration

- All %D and RRF criteria were met.

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

PAH				
Compound	MW-1 ug/L	DUP-052312 ug/L	RPD	Qualifier
Fluoranthene	0.1	ND	NC	None
Naphthalene	0.1	ND	NC	
Phenanthrene	0.1	ND	NC	
Pyrene	0.1	0.1	0%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 7/27/12

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Sample Description: MW-1 Grab Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669303
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/23/2012 14:12 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PATM1 SDG#: PCH11-01

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	
07805	Acenaphthene	83-32-9	N.D.		0.1	1
07805	Acenaphthylene	208-96-8	N.D.		0.1	1
07805	Anthracene	120-12-7	N.D.		0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	1
07805	Chrysene	218-01-9	N.D.		0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	**Fluoranthene**	206-44-0	**0.1**	**J**	0.1	1
07805	Fluorene	86-73-7	N.D.		0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	**Naphthalene**	91-20-3	**0.1**	**J**	0.1	1
07805	**Phenanthrene**	85-01-8	**0.1**	**J**	0.1	1
07805	**Pyrene**	129-00-0	**0.1**	**J**	0.1	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 14:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 14:28	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/30/2012 23:07	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

PCH11 0202

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

NW 7/25/12

Sample Description: DUP-052312 Grab Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669304
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/23/2012 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PATFD SDG#: PCH11-02FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**	**ug/l**	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	**Pyrene**	129-00-0	**0.1 J**	0.1	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 14:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 14:49	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/30/2012 23:31	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

PCH11 2854

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

NW 7/25/12

Sample Description: MW-7S Grab Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669305
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/23/2012 16:03 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT7S SDG#: PCH11-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	Acenaphthene	83-32-9	N.D.		0.1	1
07805	Acenaphthylene	208-96-8	N.D.		0.1	1
07805	**Anthracene**	120-12-7	**0.1**	**J**	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	1
07805	Chrysene	218-01-9	N.D.		0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	Fluoranthene	206-44-0	N.D.		0.1	1
07805	Fluorene	86-73-7	N.D.		0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	Naphthalene	91-20-3	N.D.		0.1	1
07805	Phenanthrene	85-01-8	N.D.		0.1	1
07805	Pyrene	129-00-0	N.D.		0.1	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 11:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 11:28	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/30/2012 21:53	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

PCH11 0015

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

MW 7/25/12

Sample Description: MW-7D Grab Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669308
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/24/2012 08:39 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT7D SDG#: PCH11-04

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	
07805	Acenaphthene	83-32-9	N.D.		0.09	1
07805	Acenaphthylene	208-96-8	N.D.		0.09	1
07805	Anthracene	120-12-7	N.D.		0.09	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.09	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.09	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.09	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.09	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.09	1
07805	**Chrysene**	218-01-9	**0.1**	**J**	0.09	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.09	1
07805	Fluoranthene	206-44-0	N.D.		0.09	1
07805	Fluorene	86-73-7	N.D.		0.09	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.09	1
07805	Naphthalene	91-20-3	N.D.		0.09	1
07805	Phenanthrene	85-01-8	N.D.		0.09	1
07805	**Pyrene**	129-00-0	**0.2**	**J**	0.09	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 15:09	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 15:09	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/30/2012 23:55	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

PCH11 0012

Sample Description: MW-2S Grab Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669309
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/24/2012 09:36 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT2S SDG#: PCH11-05

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	
07805	Acenaphthene	83-32-9	N.D.		0.09	1
07805	Acenaphthylene	208-96-8	N.D.		0.09	1
07805	Anthracene	120-12-7	N.D.		0.09	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.09	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.09	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.09	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.09	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.09	1
07805	Chrysene	218-01-9	N.D.		0.09	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.09	1
07805	Fluoranthene	206-44-0	N.D.		0.09	1
07805	Fluorene	86-73-7	N.D.		0.09	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.09	1
07805	**Naphthalene**	91-20-3	**0.1**	**J**	0.09	1
07805	Phenanthrene	85-01-8	N.D.		0.09	1
07805	Pyrene	129-00-0	N.D.		0.09	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 15:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 15:29	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 00:19	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

PCH11 0019

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

NW 7/25/12

Sample Description: MW-2D Grab Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669310
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/24/2012 11:18 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT2D SDG#: PCH11-06

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	
07805	Acenaphthene	83-32-9	N.D.		0.09	1
07805	Acenaphthylene	208-96-8	N.D.		0.09	1
07805	Anthracene	120-12-7	N.D.		0.09	1
07805	**Benzo(a)anthracene**	56-55-3	**0.1**	**J**	0.09	1
07805	**Benzo(a)pyrene**	50-32-8	**0.1**	**J**	0.09	1
07805	**Benzo(b)fluoranthene**	205-99-2	**0.1**	**J**	0.09	1
07805	**Benzo(g,h,i)perylene**	191-24-2	**0.1**	**J**	0.09	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.09	1
07805	**Chrysene**	218-01-9	**0.1**	**J**	0.09	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.09	1
07805	Fluoranthene	206-44-0	N.D.		0.09	1
07805	Fluorene	86-73-7	N.D.		0.09	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.09	1
07805	Naphthalene	91-20-3	N.D.		0.09	1
07805	Phenanthrene	85-01-8	N.D.		0.09	1
07805	**Pyrene**	129-00-0	**0.2**	**J**	0.09	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 15:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 15:49	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 00:43	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

MW 7/25/12

Sample Description: EB-052412 Grab Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669311
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/24/2012 10:15 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PATEB SDG#: PCH11-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 12:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 12:28	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 01:08	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

eurofins | Lancaster Laboratories

Analysis Report

8

Sample Description: MW-4D Grab Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669312
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/24/2012 13:54 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT4D SDG#: PCH11-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	**Acenaphthene**	83-32-9	**0.3**	**J**	0.09	1
07805	**Acenaphthylene**	208-96-8	**2**		0.09	1
07805	**Anthracene**	120-12-7	**0.2**	**J**	0.09	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.09	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.09	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.09	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.09	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.09	1
07805	Chrysene	218-01-9	N.D.		0.09	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.09	1
07805	Fluoranthene	206-44-0	N.D.		0.09	1
07805	**Fluorene**	86-73-7	**1**		0.09	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.09	1
07805	**Naphthalene**	91-20-3	**0.2**	**J**	0.09	1
07805	**Phenanthrene**	85-01-8	**2**		0.09	1
07805	**Pyrene**	129-00-0	**0.1**	**J**	0.09	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 16:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 16:08	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 01:32	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvaggio	1

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

LW 7/25/12

Sample Description: MW-4S Grab Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669313
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/24/2012 14:50 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT4S SDG#: PCH11-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 16:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 16:28	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 01:56	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

PCH11 8823

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

NW 7/25/12

Sample Description: MW-9S Water
COC: 306535
Patchogue, NY

LLI Sample # WW 6669314
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/24/2012 17:01 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT9S SDG#: PCH11-10

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	
07805	**Acenaphthene**	83-32-9	**3**		0.1	1
07805	**Acenaphthylene**	208-96-8	**0.5**		0.1	1
07805	Anthracene	120-12-7	N.D.		0.1	1
07805	**Benzo(a)anthracene**	56-55-3	**0.2**	J	0.1	1
07805	**Benzo(a)pyrene**	50-32-8	**0.2**	J	0.1	1
07805	**Benzo(b)fluoranthene**	205-99-2	**0.2**	J	0.1	1
07805	**Benzo(g,h,i)perylene**	191-24-2	**0.1**	J	0.1	1
07805	**Benzo(k)fluoranthene**	207-08-9	**0.1**	J	0.1	1
07805	**Chrysene**	218-01-9	**0.2**	J	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	**Fluoranthene**	206-44-0	**0.5**		0.1	1
07805	**Fluorene**	86-73-7	**0.3**	J	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	**Naphthalene**	91-20-3	**0.2**	J	0.1	1
07805	**Phenanthrene**	85-01-8	**0.1**	J	0.1	1
07805	**Pyrene**	129-00-0	**0.7**		0.1	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 16:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 16:47	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 02:20	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	[redacted] Salvatori	[redacted]

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

NW 7/25/12

Sample Description: MW-3 Water
COC: 306536
Patchogue, NY

LLI Sample # WW 6669315
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/24/2012 16:10 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT-3 SDG#: PCH11-11

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	
07805	**Acenaphthene**	83-32-9	**0.2**	**J**	0.09	1
07805	**Acenaphthylene**	208-96-8	**0.3**	**J**	0.09	1
07805	**Anthracene**	120-12-7	**0.4**	**J**	0.09	1
07805	**Benzo(a)anthracene**	56-55-3	**0.1**	**J**	0.09	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.09	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.09	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.09	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.09	1
07805	Chrysene	218-01-9	N.D.		0.09	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.09	1
07805	**Fluoranthene**	206-44-0	**2**		0.09	1
07805	Fluorene	86-73-7	N.D.		0.09	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.09	1
07805	Naphthalene	91-20-3	N.D.		0.09	1
07805	Phenanthrene	85-01-8	N.D.		0.09	1
07805	**Pyrene**	129-00-0	**2**		0.09	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 17:07	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 17:07	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 02:44	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

Sample Description: MW-8D Grab Water
COC: 306536
Patchogue, NY

LLI Sample # WW 6669316
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/25/2012 09:01 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT8D SDG#: PCH11-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 17:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 17:26	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 03:09	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

PCH11 0026

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

NW 7/25/12

Sample Description: MW-8S Grab Water
COC: 306536
Patchogue, NY

LLI Sample # WW 6669317
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/25/2012 09:51 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT8S SDG#: PCH11-13

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	**Acenaphthene**	83-32-9	**0.7**		0.1	1
07805	Acenaphthylene	208-96-8	N.D.		0.1	1
07805	Anthracene	120-12-7	N.D.		0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.		0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.		0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.		0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.		0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	1
07805	Chrysene	218-01-9	N.D.		0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	1
07805	Fluoranthene	206-44-0	N.D.		0.1	1
07805	**Fluorene**	86-73-7	**0.1**	J	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	1
07805	**Naphthalene**	91-20-3	**0.2**	J	0.1	1
07805	Phenanthrene	85-01-8	N.D.		0.1	1
07805	Pyrene	129-00-0	N.D.		0.1	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 17:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 17:46	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 03:33	Holly Berry	1
07807	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia J Salvatori	1

PCH11 20827

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

NW 7/25/12

Sample Description: MW-9D Grab Water
COC: 306536
Patchogue, NY

LLI Sample # WW 6669318
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/25/2012 11:44 by BFT

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PAT9D SDG#: PCH11-14

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	
10903	Benzene	71-43-2	N.D.		0.5	1
10903	Ethylbenzene	100-41-4	N.D.		0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10903	Toluene	108-88-3	N.D.		0.7	1
10903	m+p-Xylene	179601-23-1	N.D.		0.8	1
10903	o-Xylene	95-47-6	N.D.		0.8	1
10903	Xylene (Total)	1330-20-7	N.D.		0.8	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	
07805	Acenaphthene	83-32-9	N.D.		0.09	1
07805	Acenaphthylene	208-96-8	N.D.		0.09	1
07805	Anthracene	120-12-7	N.D.		0.09	1
07805	**Benzo(a)anthracene**	56-55-3	**0.1**	**J**	0.09	1
07805	**Benzo(a)pyrene**	50-32-8	**0.2**	**J**	0.09	1
07805	**Benzo(b)fluoranthene**	205-99-2	**0.3**	**J**	0.09	1
07805	**Benzo(g,h,i)perylene**	191-24-2	**0.2**	**J**	0.09	1
07805	**Benzo(k)fluoranthene**	207-08-9	**0.2**	**J**	0.09	1
07805	**Chrysene**	218-01-9	**0.2**	**J**	0.09	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.		0.09	1
07805	**Fluoranthene**	206-44-0	**0.3**	**J**	0.09	1
07805	Fluorene	86-73-7	N.D.		0.09	1
07805	**Indeno(1,2,3-cd)pyrene**	193-39-5	**0.2**	**J**	0.09	1
07805	**Naphthalene**	91-20-3	**0.1**	**J**	0.09	1
07805	**Phenanthrene**	85-01-8	**0.3**	**J**	0.09	1
07805	**Pyrene**	129-00-0	**0.5**		0.09	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 18:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 18:05	Jason M Long	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	12150WAE026	05/31/2012 03:57	Holly Berry	1
07507	BNA Water Extraction	SW-846 3510C	1	12150WAE026	05/30/2012 09:45	Cynthia L Salvatori	1

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

MW 7/25/12

Sample Description: Trip Blank Water
COC:
Patchogue, NY

LLI Sample # WW 6669319
LLI Group # 1311918
Account # 09286

Project Name: Patchogue, NY

Collected: 05/23/2012

Submitted: 05/26/2012 09:45
Reported: 06/05/2012 19:51

Brown & Caldwell
110 Commerce Drive
Allendale NJ 07401

PATTB SDG#: PCH11-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	m+p-Xylene	179601-23-1	N.D.	0.8	1
10903	o-Xylene	95-47-6	N.D.	0.8	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

State of New York Certification No. 10670

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
10903	UST VOCs 8260 (Water)	SW-846 8260B	1	E121571AA	06/05/2012 12:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E121571AA	06/05/2012 12:48	Jason M Long	1

PCH11 8825

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

NW 7/25/12

Appendix D: Electronic Data Deliverable (CD-ROM)