Quarterly Monitoring Report
2nd Quarter 2005

L.E. Carpenter & Company
Borough of Wharton
Morris County, New Jersey

USEPA ID No. NJD002168748

July 2005

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Section 1
Introduction

RMT, Inc. (RMT), on behalf of our client, has prepared this Quarterly Monitoring Report for the L.E. Carpenter and Company (LEC) ("site") located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). Quarterly monitoring events are performed at the site to comply with paragraph 35 of the 1986 Administrative Consent Order (ACO) issued to LEC by the New Jersey Department of Environmental Protection (NJDEP). We provide a summary of activities completed during the second quarter of 2005 (2Q05), including but not limited to, the continuation and completion of source reduction remedial activities as outlined in the NJDEP and United States Environmental Protection Agency (USEPA) approved Remedial Action Work Plan (RAWP) and response to RAWP comment documents dated September and November 2004, continued quarterly Monitored Natural Attenuation (MNA) groundwater monitoring in the MW19/Hot Spot 1 Area, and the continued emergency response activities to prevent the potential migration of free product.

We have certified this report in accordance with requirements outlined in N.J.A.C 7:26E-1.5 (Appendix A).

RMT conducted the following tasks during the 2Q05:

- Quarterly groundwater monitoring as required under the ACO (Reference Section 2 and Figures 3 and 4).
- Quarterly surface water monitoring as required by NJDEP in their letter dated March 23, 2005 following review of the third quarter of 2004 (3Q04) monitoring report.
- Continued maintenance of absorbent booms and sweeps to prevent migration of residual free-product sheen to the Rockaway River and the Air Products drainage ditch (Reference Section 4).
- Completion of the source reduction remedial construction project and development of the Post Remedial Monitoring Plan (PRMP) (Reference Section 4).

Discussion of these activities is provided in the referenced sections.

1.1 Response to Regulatory Review of the 1st Quarter 2005 Monitoring Report

To date, LEC has not received a NJDEP comment letter concerning to the 1st Quarter 2005 (1Q05) Monitoring Report submitted in April 2005.

Section 2
MW19/Hot Spot 1 Groundwater Monitoring

2.1 Implementation of the Revised Monitored Natural Attenuation Protocol

In a letter dated January 15, 2004, USEPA requested LEC implement the approved May 2001 MNA workplan. Prior to that time, LEC implemented only the low-flow sampling protocols outlined in the MNA workplan. During the second quarter 2004 (2Q04) sampling event, LEC began implementing all aspects of the MNA workplan (e.g., low flow sampling, full MNA analysis etc). During the January 6, 2005 preconstruction meeting, to initiate source reduction construction activities, USEPA requested quarterly MNA activities be continued in the MW19/Hot Spot 1 area until the source reduction remedial action was complete and a new site-wide monitoring well network was installed. In a letter dated January 13, 2005, RMT revised the MNA monitoring program due to the modifications made to the LEC site groundwater monitoring network (Ref. Section 2). A copy of the revised MNA sampling protocol was presented in the 1Q05 monitoring report. This revised MNA monitoring protocol will be implemented quarterly at LEC until an NJDEP and USEPA approved site-wide monitoring well network has been installed, and a sampling plan developed.

2.2 Sampling Methodology

RMT conducted the 2Q05 groundwater monitoring activities between the dates of April 6 and April 10, 2005. Historically, we performed groundwater monitoring in accordance with the procedures contained in the NJDEP's *Field Sampling Procedures Manual* dated May 1992. However, in second quarter 2002 (2Q02) we initiated groundwater monitoring using the low-flow methodology outlined in our May 2001 MNA workplan. The MNA workplan was approved by NJDEP on January 24, 2002. Although the sampling was performed using low-flow methods (*i.e.*, QED bladder pump system with disposable Teflon bladders as described in the approved MNA workplan Quality Assurance Project Plan (QAPP)), the remaining parts of the MNA workplan (e.g., full analysis of each sample for MNA specific parameters) had not yet been initiated. As outlined in the comments received from USEPA on January 15, 2004 following their review of the third quarter 2003 (3Q03) monitoring report, LEC began implementing the additional portions of the MNA workplan during the 2Q04 sampling event. In 1Q05, RMT implemented the revised MNA monitoring protocol, and performed the event in

accordance with the approved MNA workplan. Locations of the monitoring wells remaining at LEC following the abandonment activities completed in fourth quarter 2004 (4Q04), along with the monitoring wells utilized in the quarterly MNA monitoring of the MW19/Hot Spot 1 Area are shown on Figure 2.

A sample duplicate, a trip blank, field (atmosphere) blank, a matrix spike/matrix spike duplicate (MS/MSD), and a rinsate blank were collected to satisfy Quality Assurance/Quality Control (QA/QC) requirements outlined in the QAPP. The trip blank was prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for benzene, toluene, ethyl benzene, and xylenes (BTEX). The duplicate was collected from monitoring well MW-19-1 Lower (duplicate sample No. Dup-01), and was analyzed for BTEX, bis (2-ethylhexyl) phthalate (DEHP), and MNA parameters. The rinsate blank was collected by circulating triple distilled water through the cleaned bladder pump assembly to verify the decontamination procedures were adequate. Any sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox) and clean water wash followed by a distilled water rinse. The field (atmosphere) blank was taken by opening a bottle of unpreserved de-ionized water provided by the laboratory, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory. RMT submitted all samples to Lancaster Laboratories, Inc. (Lancaster), located in Lancaster, Pennsylvania for BTEX, DEHP, and MNA parameter analysis per the current MNA groundwater monitoring protocol.

2.2.1 Profiling Sampling

According to generally accepted low flow purging and sampling (LFPS) guidance documents (including the NJDEP December 2003 LFPS guidance), the typical factor to be considered when planning where to place the low-flow pump intake is related to zones within the formation adjacent to the screen where relatively more permeable zones may exist. For example, this would be especially important in monitoring zones predominated by glacial till containing thin stringers of sandy zones because such zones often provide a preferential pathway for contaminant transport. In such a case, the low flow sampler would target the more permeable sand zone by placing the pump intake at the same elevation as the middle of the thin sand seam.

The NJDEP, in a letter dated March 23, 2005, requested LEC complete profile sampling of the quarterly monitoring wells. During the 2Q05 monitoring event, profile sampling of the MW-19 wells (except for the three background wells) was completed by placing the pump intake 2.5 feet above the bottom of the well screen and 2.5 feet down from the top of the well screen or the top of the water column, which ever was lower.

The analytical results (Table 2) generally show that of the two intervals sampled, the lower interval, is the zone of highest contamination. Therefore, previous sampling events performed with the pump intake located approximately 2.5 feet off the bottom were conducted within the zone with the highest concentrations of contaminants (preferred zone).

2.3 Groundwater Elevations and Flow Direction

On April 6, 2005, RMT measured static groundwater levels from 18 different locations (Table 1) outlined in the revised MNA protocol (1Q05 Monitoring Report; Appendix C). RMT used this data to calculate groundwater elevations and evaluate the groundwater flow pattern in the shallow aquifer system.

Figure 3 displays the MW19/Hot Spot 1 Area shallow groundwater elevation contours, and indicates groundwater flow direction in the shallow aquifer is generally similar to that observed historically (generally toward the north and bends northeast). The localized flow of shallow groundwater in this area is likely influenced by the presence of the 24-inch Rockaway River Regional Interceptor Sewer, which is encased in a gravel-lined trench running parallel to Ross Street. However, the results from this event, which include data from recently installed MW-19-11, correspond to the 1Q05 event results. Specifically, groundwater flow at MW-19-7 appears to be shifting to the northeast, which suggests MW-19-11 is not directly downgradient from the leading edge of groundwater contamination.

From a regional flow standpoint, overall flow is controlled by the Washington Forge Pond and the Rockaway River. The Rockaway River eventually captures groundwater from MW-19/Hot Spot 1 area, even though it is locally influenced by the Regional Interceptor Sewer.

2.4 Delineation of Groundwater Contamination

2.4.1 Contaminants of Concern

Table 2 summarizes concentrations of BTEX and DEHP for all of the MW-19/Hot Spot 1 area MNA groundwater monitoring wells. RMT sampled groundwater from the MW-19/Hot Spot 1 area wells between the dates of April 7 and 10, 2005. Corresponding field sampling data and analytical laboratory reports are presented as Appendix B and Appendix C respectively. Lancaster performed all laboratory analyses.

The New Jersey Groundwater Quality Standard (NJGWQS) for DEHP is not exceeded in any of the sampled monitoring wells. Toluene and total xylenes exceed the NJGWQS of 1000 µg/L, and 40 µg/L, respectively, in groundwater collected from MW-19 Lower,

MW-19 Upper, MW-19-5 Lower, MW-19-7 Lower, and MW-19-7 Upper. In addition, the NJGWQS for ethylbenzene (700 µg/L) was exceeded in groundwater sampled from MW-19 Lower, MW-19 Upper and MW-19-5 Lower. MW-19-7 also exceeded the NJGWQS for benzene of 1 µg/L. MW-19 is located close to the former 10,000-gallon underground storage tanks (UST) (UST's E-3 and E-4) that were likely responsible for the resulting DEHP and BTEX constituents in shallow groundwater. However, these former UST's are no longer a continuing source for DEHP and BTEX contamination in this area because LEC removed them in 1991 along with nearby impacted soils. In addition, the LEC printing processes and material storage practices that occurred in Building 9 that may have resulted in releases of both DEHP and BTEX were stopped in 1987.

No BTEX or DEHP were detected in the newly installed MW-19-11. However, as described above, for the second time since installed, data show groundwater flow shifts more northeasterly between MW-19-7 and MW-19-11.

RMT constructed Figure 4 to show isoconcentration contours for total BTEX levels in parts per million (ppm) (mg/L) with respect to the groundwater elevation contours. The distribution of total BTEX defined by the isoconcentration contours is consistent with the groundwater flow direction defined by the groundwater elevation contours.

No BTEX or DEHP were detected in MW-19-9D (Table 2). This indicates there is no migration of these constituents downward and to the north under Ross Street and the regional interceptor sewer. In addition, the lack of downward migration of contaminants is evidenced by the upward vertical hydraulic gradient discussed below.

The closeness of MW-19-6 and MW-19-9D allows a general comparison between groundwater elevations versus screened interval to evaluate the vertical gradient. The hydraulic head at MW-19-9D is 1.11 feet higher than at MW-19-6, indicating a significant upward vertical gradient. The vertical distance between the middle of the MW-19-6 and the MW-19-9D well screens is 15 feet. Given the difference in hydraulic head between the two wells, the upward vertical hydraulic gradient is about an order of magnitude greater than the horizontal hydraulic gradient measured for this area.

This upward vertical gradient is consistent with all other former deep/shallow well clusters across the site and is probably influenced by the hydraulic head induced by the Washington Pond Reservoir, and regional discharge to the Rockaway River. These findings are consistent with an earlier RMT prediction of an upward vertical gradient for this location based on nearby piezometers GEI-2I and GEI-2S, and other upward vertical gradients observed across the site. The Washington Forge Pond (at an elevation of

approximately 640 feet), and the Rockaway River act as constant head boundaries, and comprise a regional aquifer discharge area.

LEC will continue to conduct quarterly groundwater monitoring in this area as part of the revised MNA quarterly groundwater-monitoring program.

2.4.2 MNA Parameters

Tables 3 and 4 summarize the MNA laboratory analytical and field data respectively. The sampling and testing was done in accordance with the parameters outlined in the May 2001 MNA workplan that was revised on October 23, 2001 and approved by NJDEP on January 24, 2002. The current quarterly groundwater monitoring program, as a result of recent modification to the LEC site groundwater monitoring well network, was revised on January 13, 2005, and put into affect for 1Q05 sampling. These data will be examined closely in the future with respect to post-remediation evaluation of MNA.

Section 3
Surface Water Sampling

3.1 Eastern Drainage Channel

As part of the 2Q05 event, RMT sampled the eastern drainage channel that separates the adjacent Air Products facility from the LEC site and the adjacent Wharton Enterprises property. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005. During the second quarter sampling event, two locations (SW-D-1 & SW-D-3) were sampled. Sample SW-D-1 is located at the upstream end (head) of the ditch (Figure 2). Sample SW-D-3 is located at the downgradient end of the ditch, before the channel that feeds into the Rockaway River (Figure 2).

The surface water sample collected at SW-D-3 contained low levels of ethylbenzene and DEHP (21 µg/L and 2.0 µg/L respectively) and a total xylene detection of 79 µg/L. The DEHP detection is "J-qualified" meaning it was an estimated value falling between the method dectection limit (MDL) and the Limit of Quantitation (LOQ). These concentrations are below the surface water quality criteria for toxic substances outlined in N.J.A.C 7:9B-1.14. Surface water sampling results are summarized in Table 5.

3.2 Rockaway River

In addition to the drainage channel, RMT also collected a sample in the Rockaway River. The river water was collected near the edge of the river immediately adjacent to the location of absorbent booms that were placed in order to prevent any migration into the river of sheen observed on top of quiescent water ponded within the wetland area. Due to bottle mislabeling and laboratory error, each of the five river sample bottles (R-1 through R-5) were analyzed individually instead of as a whole set. Each of the five laboratory results for the river (Appendix C) were from the same sample location. They are not five individual sample locations.

The surface water sample collected in the river contained low levels of ethylbenzene (16 µg/L, 7.1 µg/L, and 17 µg/L), toluene (0.8 µg/L, 0.3 µg/L, and 0.8 µg/L), and DEHP (1.0 µg/L and 2.0 µg/L). The toluene and DEHP detections are "J-qualified" meaning they were an estimated value falling between the MDL and the LOQ. All concentrations, with the exception of the "J-qualified" DEHP detection of 2.0 µg/L, are below the surface water quality criteria for toxic substances outlined in N.J.A.C 7:9B-1.14. Xylene was also detected in the river sample at

concentrations of 96 µg/L, 41 µg/L, and 99 µg/L. There is no surface water quality standard specified for xylene in N.J.A.C 7:9B-1.14. Surface water sampling results are summarized in Table 5.

Surface water sampling at the eastern drainage ditch as well as the Rockaway River will continue to take place during each quarterly monitoring event. Specifics regarding surface water sampling locations, frequency and analytes will be presented in the Post Remedial Monitoring Plan.

Section 4
Remedial Actions and Future Activities

The following section briefly outlines additional remedial activities completed in 2Q05 and activities anticipated for implementation during third quarter 2004 (3Q05). The 3Q05 MW-19/Hot Spot 1 sampling activities are tentatively scheduled to be completed in July 2005.

4.1 Source Reduction Construction Project

As we outlined in the final source reduction progress updates dated June 30, 2005 the construction phase of this project is now complete.

Remedial Action Report (RAR) documenting all source reduction activities will be provided to both NJDEP and USEPA for review during the week of October 10, 2005.

4.2 Emergency Response Activities

Maintenance of the absorbent materials (*i.e.*, booms and sweeps) at the two seep areas (Air Products drainage ditch and the south edge of the Wharton Enterprise property adjacent to the bank of the Rockaway River) continued throughout 2Q05. Absorbent material maintenance events took place on April 13th and 27th, May 11th and 25th, and June 8th and 22nd 2005. Waste booms and sweeps and associated personal protective equipment (PPE) were accumulated in 55-gallon drums and staged on-site pending appropriate management. The last 55-gallon drums of waste booms, sweeps and PPE will be transported off-site for disposal in July 2005. Emergency response activities have been terminated as source reduction activities are now complete. RMT will visually inspect these areas during the 3Q05 sampling event (at the same time adjacent surface water samples are collected).

4.3 Post Source Reduction Site Monitoring

RMT anticipates initiating discussions with both NJDEP and USEPA during 3Q05 regarding the development and installation of the post source reduction site monitoring network, a revised Sampling and Analysis Plan, modeling, and groundwater remedy Record of Decision (ROD) amendment.

The proposed site monitoring network will include two shallow monitoring wells that are proposed here in (Figure 3) for the MW-19 area based on the localized northeasterly shift in groundwater flow discussed above.

Tables

Table 1
L.E. Carpenter and Company (LEC)
Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Elevations

WELL LOCATION (3) (4)	WELL TYPE	PROFESSIONAL SURVEY INFORMATION (6)							QUARTERLY MEASUREMENT INFORMATION (5)						
		BASELINE LOCATION (FT)		GEODETIC LOCATION		ELEVATION (FT. MSL)									
		(X) North	(X) East	LATITUDE	LONGITUDE	GROUND	OUTER CASING	INNER WELL	MEAS. DATE	PRODUCT DEPTH	WATER DEPTH	PRODUCT ELEVATION	WATER ELEVATION	PRODUCT THICKNESS (ft)	CORRECTED WATER ELEVATIONS (2)
GEI-2I	Piezometer	754573.99	470499.76	40° 54' 17.4"	74° 34' 43.1"	635.32	637.75	637.60	6-Apr-05		7.48		630.12		
GEI-2S	Piezometer	754566	470506.18	40° 54' 17.3"	74° 34' 43.0"	634.86	637.27	637.07	6-Apr-05		7.73		629.34		
GEI-3I	Piezometer	754311.79	470453.7	40° 54' 14.8"	74° 34' 43.7"	636.96	639.39	639.25	6-Apr-05		9.63		629.62		
MW-15S	Monitoring Well	754326.58	470891.83	40° 54' 15.0"	74° 34' 38.0"	634.23	636.43	636.17	6-Apr-05		8.06		628.11		
MW-15I	Monitoring Well	754325.8	470901.47	40° 54' 15.0"	74° 34' 37.9"	634.14	636.28	636.06	6-Apr-05		7.96		628.10		
MW-19	Monitoring Well	754537.15	470454.45	40° 54' 17.1"	74° 34' 43.7"	636.22	636.23	635.90	6-Apr-05		6.27		629.63		
MW-19-1	Monitoring Well	754534.52	470427.63	40° 54' 17.0"	74° 34' 44.0"	635.93	635.96	635.64	6-Apr-05		5.89		629.75		
MW-19-2	Monitoring Well	754551.81	470429.56	40° 54' 17.2"	74° 34' 44.0"	636.46	636.50	636.30	6-Apr-05		6.73		629.57		
MW-19-3	Monitoring Well	754539.4	470394.2	40° 54' 17.1"	74° 34' 44.5"	636.97	637.06	636.70	6-Apr-05		6.97		629.73		
MW-19-4	Monitoring Well	754505.39	470432.08	40° 54' 16.7"	74° 34' 44.0"	635.69	635.76	635.43	6-Apr-05		5.02		630.41		
MW-19-5	Monitoring Well	754565.53	470470.75	40° 54' 17.3"	74° 34' 43.5"	635.93	635.93	635.56	6-Apr-05		6.15		629.41		
MW-19-6	Monitoring Well	754578.87	470443.1	40° 54' 17.5"	74° 34' 43.8"	636.17	636.16	635.82	6-Apr-05		6.48		629.34		
MW-19-7	Monitoring Well	754595.66	470501.7	40° 54' 17.6"	74° 34' 43.1"	635.31	635.36	635.00	6-Apr-05		5.79		629.21		
MW-19-8	Monitoring Well	754617.42	470493.65	40° 54' 17.8"	74° 34' 43.2"	635.82	635.82	635.36	6-Apr-05		6.23		629.13		
MW-19-9D	Monitoring Well	754590	470442	40° 54' 17.9"	74° 34' 42.4"	636.39	636.41	636.10	6-Apr-05		5.65		630.45		
MW-19-10	Monitoring Well	754625.75	470590.81	-	-	634.72	634.81	634.43	6-Apr-05		4.80		629.63		
MW-19-11	Monitoring Well	754617.45	470546.95	40° 54' 18.2"	74° 34' 41.0"	634.22	634.26	633.67	6-Apr-05		4.68		628.99		
SG-D1 (1)	Drainage Channel Staff Gauge	754428.57	471240.37	-	-	625.81	-	-	8-Apr-05		1.68		624.13		
SG-D3 (1)	Drainage Channel Staff Gauge	754381.47	471548.31	-	-	625.83	-	-	8-Apr-05		1.91		623.92		
SG-R1	Rockaway River Staff Gauge	754313.99	470408.70	-	-	640.92	-	-	6-Apr-05		2.38		638.54		

FOOTNOTES

(1) Elevation measured at the top of a 3.33 ft. Staff gauge. Reference elevation (ground) shot at the top of the staff gauge. Water depth based on a visual observation of the water level on the Staff gauge.
(2) Corrected water level elevations utilize an average specific gravity of 0.9363 (RMT, Inc. product sampling in October 1999 @ MW-1(R); EFR-11 & WP-A8)
(3) Monitoring points and wells in **BOLD** included in the quarterly sampling program as outlined in the RMT letter dated January 13, 2005. Depth to water recorded before purging

MW-19

(5) "-" in the Quarterly Measurement Information section of this database indicates that the presence of free product was NOT detected at any measurable thickness and therefore did not generate a product elevation, product thickness nor require water level elevation to be corrected
(6) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAVD 88

Table 2
L.E. CARPENTER AND COMPANY (LEC)
Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Groundwater Monitoring Data

MONITORING WELLS	ANALYTICAL PARAMETERS											
	SAMPLE DATE	QUARTER	Benzene		Ethylbenzene		Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)	
		UNITS	ug/l		ug/l		ug/l		ug/l		ug/l	
NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1		700		1,000		40		30	
MW19												
Dilution factor for BTEX 2000	24-Feb-95	1	<	660		1,700		110,000		10,000		NR
Dilution factor for BTEX 100	14-Jun-95	2		150		3,460		140,000		17,000		NS
Dilution factor 5000 for BTEX & 2 for DEHP; MDL for Benzene 1000 ug/l	24-Apr-98	2	<	1,000		2,850		76,700		14,900		6.6
Dilution factor for BTEX 500	2-Aug-01	3	<	95		3,000		62,000		17,000		2.9
Dilution factor for BTEX 1000	6-Jun-02	2	<	200		1,000		30,000		6,000		5.6
Dilution factor for BTEX 100, Toluene 200	20-Nov-03	4	<	20		1,500		40,000		7,400	J	6.0
	15-Jun-04	2	<	100		1,400		46,000		6,600	J	4.0
Dilution factor for BTEX 100, Toluene 500	10-Aug-04	3	<	20		2,100		56,000		11,000	J	2.0
Dilution factor for BTEX 50	13-Jan-05	1	<	10		750		18,000		3,600	<	1.0
Lower Grab Water Sample; Dilution factor for BTEX 5	8-Apr-05	2	<	1		97		1,300		530	J	3.0
Upper Grab Water Sample; Dilution factor for Toluene 5	8-Apr-05	2	<	0.2		86		410		430	J	3.0
MW19-1												
Dilution factor for BTEX 200	12-Mar-98	1	<	40		219		4,270		1,160		190
	2-Aug-01	3	<	0.2		1.2	<	0.2	<	0.2		85
	5-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2		0.6
	19-Nov-03	4	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	15-Jun-04	2	<	0.2	<	0.2		1.7	<	0.6		11.0
	10-Aug-04	3	<	0.2	<	0.2	J	0.6	<	0.6	<	1.0
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	J	4.0
Lower Grab Water Sample	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Lower Grab Water Sample	8-Apr-05	2 duplicate	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Upper Grab Water Sample	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
MW19-2												
Dilution factor for BTEX 250	12-Mar-98	1	<	50		1,130		9,830		6,010		8.8
Dilution factor for BTEX 2	1-Aug-01	3	<	0.4		21		160		82		16
	5-Jun-02	2	<	0.22		19		36		39	<	0.4
	19-Nov-03	4	<	0.2	<	0.2	<	0.2	<	0.6	J	1.0
	15-Jun-04	2	<	0.2		1.2		29.0		4.8	<	1.0
	10-Aug-04	3	<	0.2		28.0		150.0		100.0	J	1.0
	12-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	J	3.0
Lower Grab Water Sample	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Upper Grab Water Sample	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
MW19-3												
	12-Mar-98	1	<	0.2	<	0.14	<	0.14	<	0.5	<	1.2
	2-Aug-01	3	<	0.2	<	0.2	<	0.2	<	0.2	<	0.5
	5-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2	<	0.5
	19-Nov-03	4	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
MW19-4												
	12-Mar-98	1	<	0.2	<	0.14	<	0.14	<	0.5	<	1.3
	2-Aug-01	3	<	0.2	<	0.2	<	0.2	<	0.2	<	0.5
	6-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2	<	0.5
	19-Nov-03	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
MW19-5												
Dilution factor for BTEX 5000	12-Mar-98	1	<	1,000		1,920		123,000		10,100		42
Dilution factor for BTEX 1000	2-Aug-01	3	<	190		870		79,000		5,200		3.2
Dilution factor for BTEX 500	7-Mar-02	1	<	140		300		10,000		1,700		1.3
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2	<	1,100		1,100		92,000		6,300	<	9.8

Table 2
L.E. CARPENTER AND COMPANY (LEC)
Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Groundwater Monitoring Data

MONITORING WELLS	ANALYTICAL PARAMETERS											
	SAMPLE DATE	QUARTER	Benzene		Ethylbenzene		Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)	
		UNITS	ug/l		ug/l		ug/l		ug/l		ug/l	
NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1		700		1,000		40		30	
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2duplicate	<	1,100		1,300		92,000		6,900	<	9.4
	19-Nov-03	4	<	0.2	<	0.2		4.3	J	0.9	<	0.9
	18-Dec-03	4resample	<	0.2		3.7		240.0		24.0	<	0.9
	16-Jun-04	2	<	100.0		1,400		83,000		7,400	J	1.0
	10-Aug-04	3	<	200.0		2,800		140,000		14,000	J	1.0
Dilution factor for BTEX 10	13-Jan-05	1	<	2.0		64.0		3,100.0		340.0	<	1.0
Lower Grab Water Sample, Dilution factot for BTEX 200	9-Apr-05	2	<	40.0		1,000.0		27,000.0		5,300.0	J	1.0
Upper Grab Water Sample	9-Apr-05	2	<	0.2	J	0.4		9.5	J	2.3	<	1.0
MW19-6												
Dilution factor for BTEX 200	15-Nov-99	4	<	62		94		3,400		500		32
Dilution factor for BTEX 2	1-Aug-01	3	<	0.4		14		390		47		28
	5-Jun-02	2	<	0.22		1.7		13		4.1		2.3
	18-Nov-03	4	<	0.2	<	0.2	J	0.3	<	0.6	J	6
	17-Jun-04	2	<	0.2	J	0.4		1.1		1	J	3.0
	10-Aug-04	3	<	0.2		4.6		38.0		18	J	4.0
	13-Jan-05	1	<	0.2		4.0		36.0		14	J	1.0
Lower Grab Water Sample	9-Apr-05	2	<	0.2		16.0		160.0		64	<	1.0
Upper Grab Water Sample	9-Apr-05	2	<	0.2		11.0		74.0		37	<	1.0
MW19-7												
Dilution factor for BTEX 50	15-Nov-99	4	<	16		100		51		1,400	<	4.1
Dilution factor for BTEX 2	1-Aug-01	3		6.7		6.6		13		680	<	0.4
Dilution factor for BTEX 5	7-Mar-02	1		3	<	1.3	<	1.3		250		1.6
	5-Jun-02	2		0.48		1.6		27		27	<	0.4
	19-Nov-03	4		4.7	J	0.4	J	0.3		460	J	1.0
	16-Jun-04	2	J	2.8		130.0		2,100.0		630	<	1.0
	16-Jun-04	2duplicate	J	4.0		130.0		2,100.0		610	<	1.0
	10-Aug-04	3		2.0		1.6		1.3		20	<	1.0
Dilution factor for BTEX 2	12-Jan-05	1		6.1		90.0		240.0		760	<	1.0
	12-Jan-05	1duplicate		2.9		45.0		120.0		380	<	1.0
Lower Grab Water Sample; Dilution factor for BTEX 25	7-Apr-05	2	J	9.5		210.0		2,700.0		1,400	<	1.0
Upper Water Grab Sample; Dilution factor for BTEX 10	7-Apr-05	2	J	13.0		370.0		5,600.0		2,300	<	1.0
MW19-8												
Dilution factor for BTEX 50	15-Nov-99	4	<	0.31	<	0.38	<	0.34	<	0.4	<	4.1
Dilution factor for BTEX 2	1-Aug-01	3		0.5	<	0.2	<	0.2	<	0.2	<	0.4
	5-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2	<	0.4
	19-Nov-03	4	<	0.20	<	0.20	<	0.20	<	0.6	<	0.9
	17-Jun-04	2	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
	11-Aug-04	3	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
	12-Jan-05	1	<	0.20	J	0.30	<	0.20	<	0.6	<	1.0
	11-Apr-05	2	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
MW19-9D												
Dilution factor for BTEX 2	1-Aug-01	3	<	0.2	<	0.2	<	0.2	<	0.2		0.5
	5-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2		1.9
	19-Nov-03	4	<	0.20	<	0.20	<	0.20	<	0.6	J	1.0
	16-Jun-04	2	<	0.20	<	0.20	<	0.20	<	0.6	J	2.0
	10-Aug-04	3	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
	13-Jan-05	1	<	0.20	<	0.20	<	0.20	<	0.6	J	1.0
	11-Apr-05	2	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0

Table 2
L.E. CARPENTER AND COMPANY (LEC)
Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Groundwater Monitoring Data

MONITORING WELLS	SAMPLE DATE	QUARTER	ANALYTICAL PARAMETERS									
			Benzene		Ethylbenzene		Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)	
		UNITS	ug/l		ug/l		ug/l		ug/l		ug/l	
NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1		700		1,000		40		30	
MW19-10												
	17-Jun-04	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Aug-04	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Aug-04	3 duplicate	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Lower Grab Water Sample	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Upper Grab Water Sample	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
MW19-11												
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Lower Grab Water Sample	7-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Upper Grab Water Sample	7-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
GEI-2I	24-Feb-95	1	<	0.3	<	0.3		0.4	<	0.1		27
	6-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2		1.4
GEI-2S	24-Feb-95	1	<	8.2		46		1,500		380		7.6
	25-Mar-98	1		NS		NS		NS		NS	B	2.5
	6-Jun-02	2		1.2		2.6		16		5.1		2.4
	18-Dec-03	4	<	0.2	<	0.2	J	0.4	<	0.6	<	1.0
Atmospheric Blank												
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Rinsate Blank												
	14-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	10-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Trip Blank												
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6		NA
	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6		NA

LEGEND

ug/L = micrograms per liter
NJGWQS = New Jersey Groundwater Quality Standards
ROD: Record of Decision
NA = Not Applicable
NS = Not Sampled
ND: No Detection
NR = Not Run
duplicate = Duplicate sample
Concentration exceeds NJGWQS 1.2
B: Analyte also detected in blank
J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

NOTES

(1) Low flow sampling initiated 1st quarter 2002
(2) GEI series wells are piezometers installed by Weston
(3) GEI series wells, MW-19-3, and MW-19-4 are not sampled under revised groundwater monitoring program effective 1Q05.

Table 3
L.E.Carpenter and Company (LEC),
Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Quarterly Groundwater Monitoring MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	Alkalinity to pH 8.3	Alkalinity to pH 4.5	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate[1]	Methane
(units)		cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	80	ND	207	30	589	ND	ND	0.054	3.6 J	150
	3Q04	630	ND	268	30.9	553	ND	ND	0.12	1.7 J	230
	1Q05	350	ND	241	17.2	347	0.22	ND	ND	7.4	230
	2Q05[L]	390	NS	NS	10.8 J	413	2.8	ND	ND	33.3	3.0 J
	2Q05[U]	1,400	NS	NS	14.8	455	3.2	ND	ND	30.4	2.0 J
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	100	ND	162	ND	725	1.4	ND	ND	32.4	ND
	3Q04	49	ND	184	3.2 J	928	3.9	ND	ND	35.3	ND
	1Q05	43	ND	152	ND	404	2.1	ND	ND	27.9	ND
	2Q05[L]	410	NS	NS	16.4	1,440	2.9	ND	ND	34.1	ND
	2Q05[LD]	150	NS	NS	6.8 J	1,570	3.1	ND	ND	33.7	ND
	2Q05[U]	350	NS	NS	3.2 J	1,430	2.8	ND	ND	32.9	ND
MW-19-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10	ND	335	6.0 J	704	ND	ND	ND	33.6	1600
	3Q04	87	ND	176	6.0 J	916	0.87	ND	ND	23.9	280
	1Q05	110	ND	395	5.2 J	568	0.093 J	0.13 J	ND	69.4	26
	2Q05[L]	160	ND	ND	11.6 J	780	0.62	0.17 J	ND	29.6	ND
	2Q05[U]	150	ND	ND	ND	750	0.64	ND	ND	29.3	ND
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3Q04	180	ND	228	14	942	0.06 J	ND	ND	15.7	2100
	1Q05	380	ND	126	3.6 J	174	0.49	ND	ND	15.8	34
Dilution factor for Sulfate 5, Dilution factor for Methane 10	2Q05[L]	3000	NS	NS	3.6 J	177	ND	ND	ND	12	380
	2Q05[U]	100	NS	NS	3.6 J	141	0.43	ND	ND	8.7	ND
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	35	ND	151	10.4 J	1670	1.6	ND	ND	37.3	140
	3Q04	110	ND	178	18.8	1240	1.1	ND	0.062	38.3	140
	1Q05	82	ND	204	11.2 J	544	1.7	ND	ND	44	130
Dilution factor for Sulfate 5	2Q05[L]	23	NS	NS	18	1180	1.3	0.29 J	ND	33.5	44
Dilution factor for Sulfate 5	2Q05[U]	160	NS	NS	ND	1190	1	ND	ND	32.7	96
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	110	ND	142	6.8 J	2110	0.21	ND	ND	47.2	5200
	2Q04D	86	ND	152	9.2 J	2040	0.21	0.15 J	ND	37.3	5400
	3Q04	2000	ND	175	4.4 J	1920	1.5	ND	ND	64.4	2400
Dilution factor for Methane 250	1Q05	75	ND	200	6.0 J	774	3.2	ND	ND	29.1	10,000
Dilution factor for Methane 250	1Q05D	77	ND	202	7.2 J	754	3.2	ND	ND	30.5	11,000
Dilution factor for Methane 250	2Q05[L]	32	NS	NS	54	472	ND	0.50 J	0.45	ND	13,000
Dilution factor for Methane 250	2Q05[U]	41	NS	NS	48	481	ND	0.35 J	0.32	ND	10,000
MW-19-8	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	45	ND	143	14.4	1120	ND	ND	0.15	22.8	79
	3Q04	15	ND	152	7.2 J	573	ND	0.24 J	0.12	11.5	790
Dilution factor for Methane 5	1Q05	91	ND	142	25.2	1150	ND	ND	0.18	16.3	510
Dilution factor for Sulfate 5	2Q05	270	NS	NS	20	796	ND	ND	ND	23.7	5.3
MW-19-9D	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	210	ND	211	6.0 J	621	0.14	0.33 J	ND	18.2	1300
	3Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	34	ND	109	6.8 J	563	ND	ND	ND	18	2.6 J
	3Q04	18	ND	98	10.4 J	908	ND	ND	ND	19.2	3.3 J
	3Q04D	22	ND	97.8	10.8 J	890	ND	0.24 J	ND	17.9	2.9 J
	1Q05	29	ND	127	5.2 J	625	ND	ND	ND	16.9	74
	2Q05[L]	170	NS	NS	32.4	653	ND	ND	ND	18.1	48
	2Q05[U]	93	NS	NS	32	691	ND	0.12 J	ND	18.3	48
MW-19-11	1Q05	940	ND	205	4.8 J	4,750	2.2	ND	ND	65.6	9.9
Dilution factor for Methane 20	2Q05[L]	22	NS	NS	64	731	ND	0.42 J	ND	18	930
Dilution factor for Methane 20	2Q05[U]	14	NS	NS	27.2	740	ND	ND	ND	17.2	1,200
Atmospheric Blank	1Q05	> 5700	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2Q05	86	NS	NS	ND	ND	ND	ND	ND	ND	ND
Rinsate Blank	1Q05	36	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

(1) Sulfate has a dilution factor of 5, except for blank samples or unless otherwise noted.

NS = Not Sampled

ND = Not Detected

[L] Lower Grab Sample

[U] Upper Grab Sample

Table 4

L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Quarterly Groundwater Monitoring
MNA Field Data

Well ID	Event	DO (mg/L)	pH	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.97	7.23	24	890	2	13.94	NM	160	70
	3Q04	0.1	7.62	-10	1179	2	16.18	<10	200	95
	1Q05	0.2	7.67	100	590	5	11.82	9	NM(1)	121
	2Q05L	1	7.84	NM	734	10	8.6	0.3	30	<10
	2Q05U	1	7.69	NM	760	10	8.46	0.4	29	<10
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	13.9	7.22	180	1373	10	13.9	NM	125	17
	3Q04	1	7.5	80	1910	10	18.49	0.2	90	28
	1Q05	1	7.8	213	676	10	11.49	0	NM(1)	30
	2Q05L	0.8	7.6	NM	2540	22	9.15	0.2	75	<10
	2Q05U	1	7.67	NM	2540	10	8.5	0.1	90	<10
MW-19-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	4.45	7.3	83	1199	6	13.97	NM	210	60
	3Q04	5	7.45	59	1830	9	16.97	2	130	15.5
	1Q05	1	7.3	249	825	10	11.02	0	NM(1)	63
	2Q05L	0.8	7.8	NM	1312	29	7.76	0.1	100	<10
	2Q05U	0.8	7.76	NM	1316	10	8	0.1	100	10
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.16	7.02	41	1550	4	12.89	NM	130	70
	3Q04	1	7.26	87	1740	19	16.3	2	150	60
	1Q05	1	7.94	226	269	9	10.59	0	NM(1)	63
	2Q05L	1	7.94	NM	2640	10	8	0	45	16
	2Q05U	0.8	7.99	NM	2100	38	6.96	0	45	10.5
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	5.48	6.86	56	2640	10	15.24	NM	80	33
	3Q04	1	7.43	83	2490	4	16.61	0.4	125	20
	1Q05	1	7.73	241	867	12	11.79	0	NM(1)	41
	2Q05L	1	7.5	NM	1870	27	10.64	0.1	75	15
	2Q05U	1	7.48	NM	1790	2	9.89	1	80	20
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	5.89	6.82	48	380	6	14.34	NM	95	90
	3Q04	1	6.92	113	4040	2	16.77	1	75	70
	1Q05	0.6	7.16	261	1388	1	11.34	3	NM(1)	63
	2Q05L	0.05	7.82	102	938	25	11.7	15	160	36
	2Q05U	1	7.8	NM	961	49	11.22	15	200	29
MW-19-8	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.98	6.9	-24	2010	10	15.69	NM	125	30
	3Q04	0.4	7.52	48	1093	7	18.29	2	100	19
	1Q05	0.3	7.06	161	177	16	12.92	10	NM(1)	28
	2Q05	0.8	7.92	NM	1510	47	10.82	6	70	19
MW-19-9D	1Q04	NS	NS	NS	NS	NS	NS	**	**	**
	2Q04	3.03	7.11	-28	480	63	14.64	**	**	**
	3Q04	0.2	7.4	8	545	35	15.7	**	**	**
	1Q05	1.5	7.14	193	871	267	11.58	**	**	**
	2Q05	0.05	7.91	NM	471	70	12.12	>10	70	18
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.82	6.78	85	1050	7	13.94	NM	80	25
	3Q04	0.1	7.35	107	1498	11	15.56	1.5	65	20
	1Q05	0.15	7.25	285	1039	28	13.19	2	NM(1)	20
	2Q05L	0.8	7.47	NM	1209	52	12.18	0.4	70	13
	2Q05U	1	7.48	NM	1282	41	11.18	1	75	13
MW-19-11	1Q05	1.5	7.01	215	740	8	10.3	0	NM(1)	65
	2Q05L	0.8	7.88	NM	1424	38	12.18	4	110	17
	2Q05U	0.8	7.8	NM	1442	10	12.12	4	90	15

Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

** Additional field MNA parameters not required for MW-19-9D.

(1) Laboratory analyzed for alkalinity due to destroyed field kits.

NS = Not Sampled

NM = Not Measured

Table 5
L.E. CARPENTER AND COMPANY (LEC)
Borough of Wharton, Morris County, New Jersey
Surface Water Monitoring Data

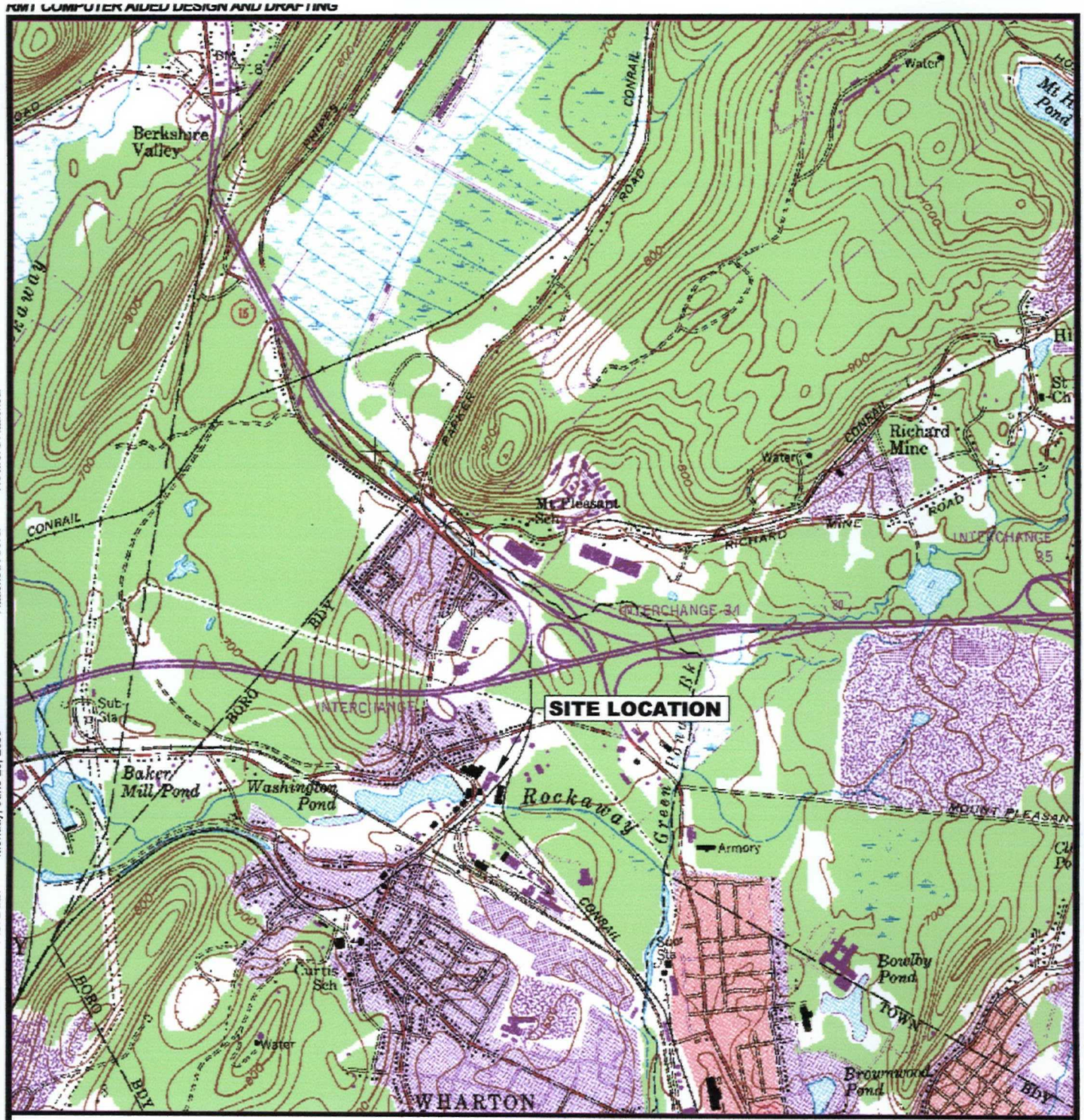
MONITORING WELLS	ANALYTICAL PARAMETERS											
	SAMPLE DATE	QUARTER	Benzene		Ethylbenzene		Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)	
		UNITS	ug/l		ug/l		ug/l		ug/l		ug/l	
NEW JERSEY SURFACE WATER QUALITY STANDARDS (NJSWQS)			0.15		3,030		7,440		NCS		1.76	
SW-D-1												
	8-Apr-05	2	<	0.2*	<	0.2	<	0.2	<	0.6	<	1.0
SW-D-2												
	8-Apr-05	2		NS		NS		NS		NS		NS
SW-D-3												
	8-Apr-05	2	<	0.2		21.0	<	0.2		79.0	J	2.0
R-1												
	20-Apr-05	2		NA		NA		NA		NA	J	1.0
R-2												
	20-Apr-05	2		NA		NA		NA		NA	J	2.0
R-3												
	20-Apr-05	2	<	0.2		16.0	J	0.8		96.0		NA
R-4												
	20-Apr-05	2	<	0.2		7.1	J	0.3		41.0		NA
R-5												
	20-Apr-05	2	<	0.2		17.0	J	0.8		99.0		NA

LEGEND

ug/L = micrograms per liter
NCS: No Criteria Specified
NS = Not Sampled
NA: Not Analyzed
ND: No Detection
duplicate = Duplicate sample
Concentration exceeds NJSWQS 1.2
B: Analyte also detected in blank
J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)
* = Detection limit is elevated due to interference from other parameter detections. Laboratory will be contacted to lower benzene detection limit to be below the NJSWQS.

Figures

RMT COMPUTER AIDED DESIGN AND DRAFTING



NEW JERSEY

QUADRANGLE LOCATION

N

0 2000' 4000'

APPROXIMATE SCALE IN FEET

SOURCE

BASE MAP DEVELOPED FROM THE DOVER, NEW JERSEY 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP, DATED 1954, PHOTOREVISED 1981.

RMT INC.®

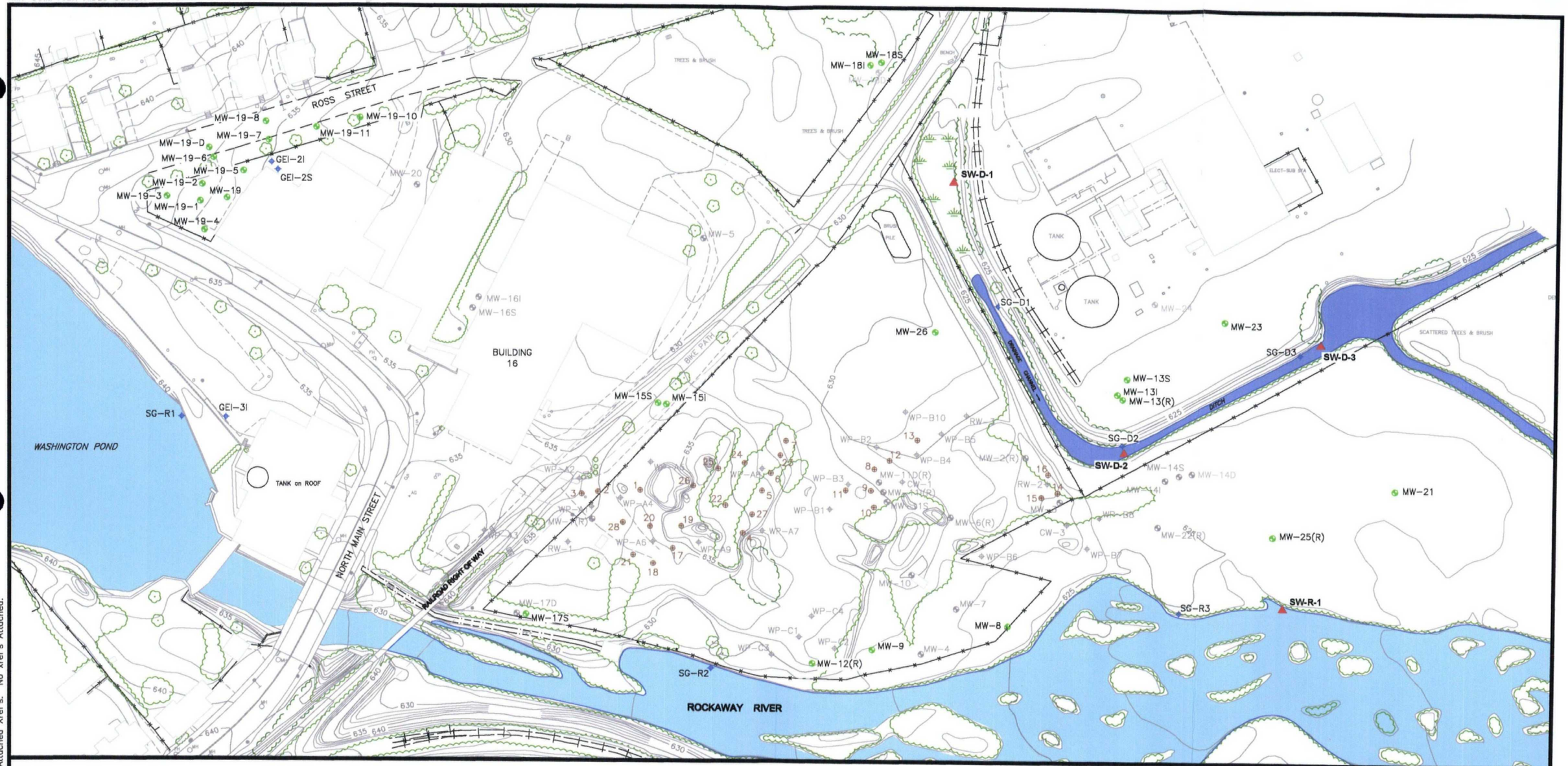
LE CARPENTER
WHARTON, NEW JERSEY

SITE LOCATION MAP
2nd QUARTER 2005

DRAWN BY:	SJL
APPROVED BY:	JO
PROJECT NUMBER:	6527.10
FILE NUMBER:	6527.10.11.DWG
DATE:	JUNE 2005

FIGURE 1

PLOT DATA
Drawing Name: J:\06527\10\6527.10.11.dwg
Operator Name: Scale: lucidos 1"=2000'
Dwg Size: Plot Date: 87506 Bytes Monday, June 20, 2005
Plot Time: Attached Xrefs: 09:33:1541 AM No xref's Attached.



LEGEND

PROPERTY LINE	
FENCE	
MW-21	MONITORING WELL
MW-24	ABANDONED MONITORING WELL
13	ABANDONED ENHANCED FLUID RECOVERY WELL
RW-2	ABANDONED RECOVERY WELL
CW-3	ABANDONED CAISSON WELLS
WP-B7	WELL POINTS
SG-R1	RIVER POINT
SG-D1	DRAINAGE CHANNEL POINT
GEI-2I	PIEZOMETERS
SW-D-1	SURFACE WATER SAMPLING LOCATIONS (D = DITCH; R = RIVER)

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02.

N

0 100' 200'

SCALE IN FEET

L.E. CARPENTER
WHARTON, NEW JERSEY

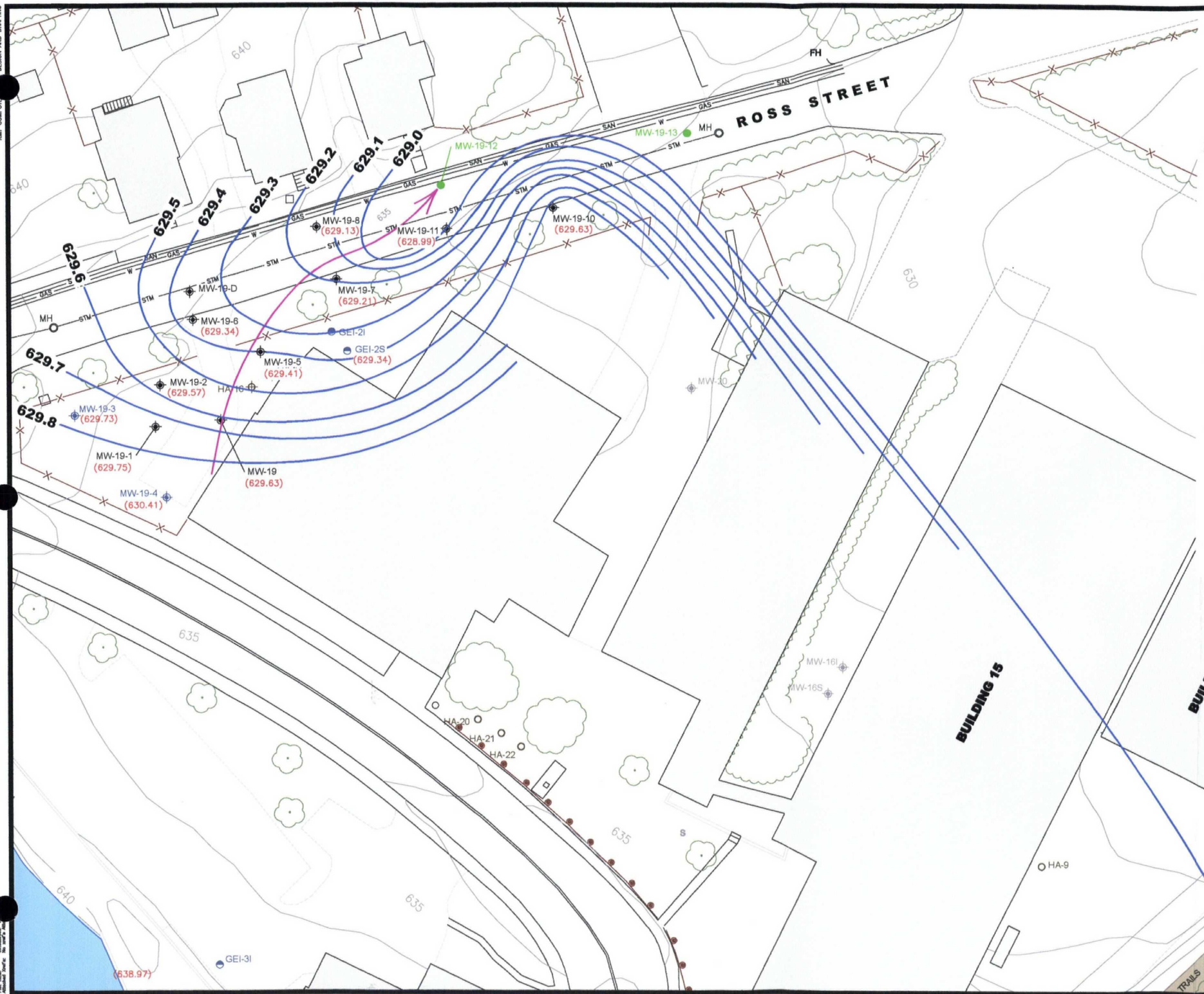
SITE PLAN WITH SAMPLE LOCATIONS
2nd QUARTER 2005

DRAWN BY:	SJL	PROJECT NUMBER:	6527.10
CHECKED BY:	JJD	FILE NUMBER:	6527.10.12.DWG
APPROVED BY:	NC	DATE:	JUNE 2005

RMT INC.
1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI. 48108-2237
PHONE: 734-971-7080
FAX: 734-971-9022

FIGURE 2

PLOT DATA
Drawing Name: 06527\10\6527.10.12.dwg
Operator Name: [redacted]dos
Scale: =1'
Dwg Size: 826727 Bytes
Plot Date: Monday, June 20, 2005
Plot Time: 09:33:12 38 AM
Attached Xref's: No xref's Attached.
Layout Name: Site Plan - 2nd Quarter 2005



LEGEND

- MW-20 — ABANDONED MONITORING WELL LOCATION AND NUMBER
- MW-19-7 (629.21) — QUARTERLY STATIC WATER LEVEL ELEVATION IN FEET ABOVE NGVD
- GEI-2I — QUARTERLY STATIC WATER LEVEL MONITORING LOCATION
- MW-19-13 — PROPOSED MONITORING WELL LOCATION AND NUMBER
- FENCE LINE
- 626 — GROUNDWATER ELEVATION CONTOUR
- SAN — SANITARY SEWER
- G&W — GAS AND WATER
- STM — REGIONAL STORM SEWER LINE
- W — WATER
- E — ELECTRIC
- MH — MANHOLE
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02.
2. GROUNDWATER ELEVATIONS BASED ON LEVELS MEASURED ON APRIL 6, 2005.
3. OVERHEAD POWER LINES ROUGHLY PARALLEL TO SANITARY SEWER, GAS AND WATER LINES.

N

0 20' 40' 80' 80'
SCALE IN FEET

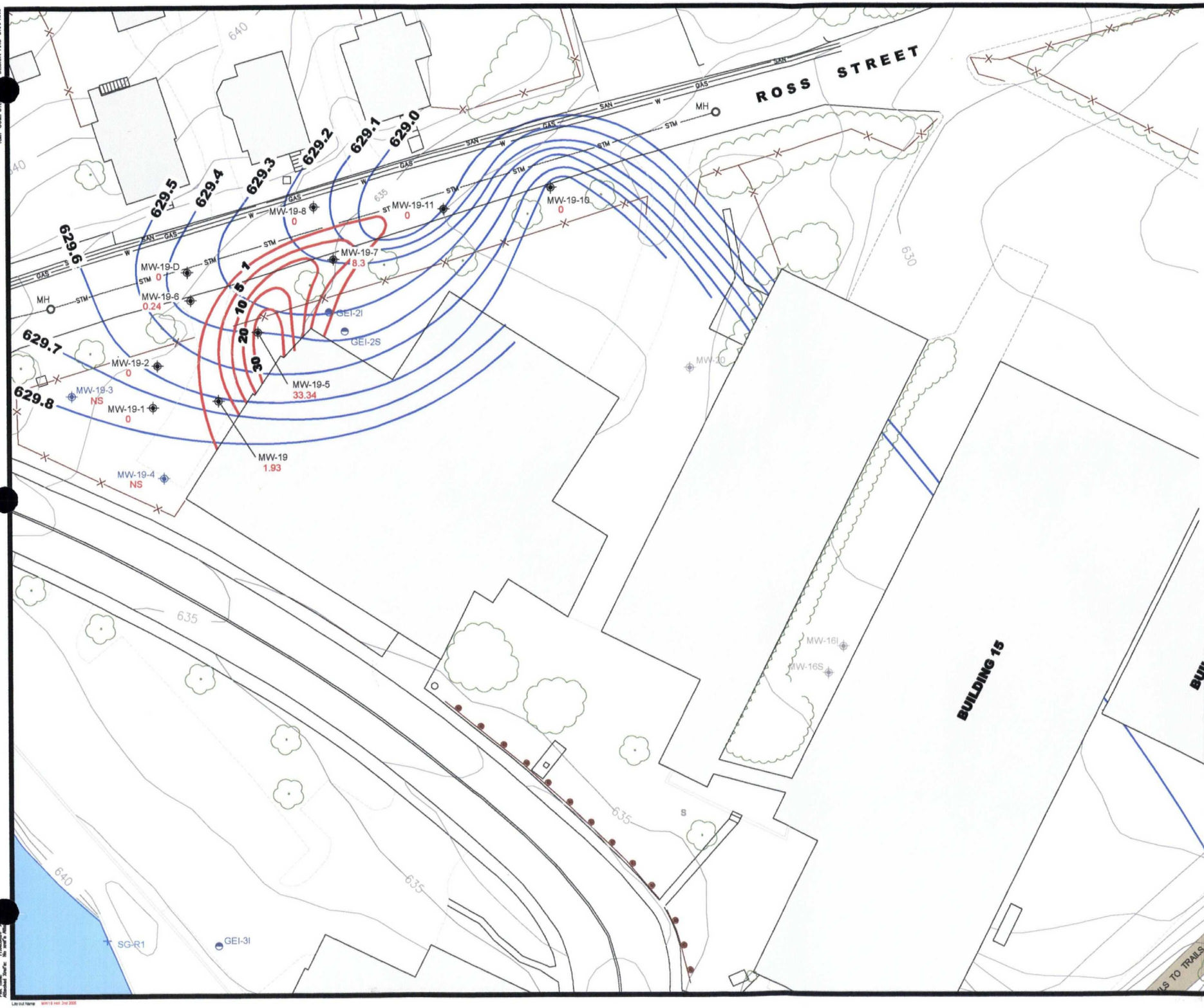
NO.	BY	DATE	REVISION	APP'D.
5.				
4.				
3.				
2.				
1.				

L.E. CARPENTER
WHARTON, NEW JERSEY

MW-19 / HOT SPOT 1 SHALLOW AQUIFER GROUNDWATER CONTOUR MAP
2nd QUARTER 2005

DRAWN BY: SJL	SCALE:	PROJECT NO. 8527.10	
CHECKED BY: JO	SHOWN	FILE NO.6527.10.13.DWG	
APPROVED BY: NC	DATE PRINTED:	**FIGURE 3**	
DATE: JULY 2005			

RMT INC.
1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI. 48108-2237
PHONE: 313-971-7080
FAX: 313-971-9022



LEGEND

MW-20	ABANDONED MONITORING WELL LOCATION AND NUMBER
MW-19-7 2.86	QUARTERLY MONITORING WELL LOCATION AND NUMBER WITH CONCENTRATION OF TOTAL BTEX (mg/L)
GEI-2I	QUARTERLY STATIC WATER LEVEL MONITORING LOCATION
	FENCE LINE
626	GROUNDWATER ELEVATION CONTOUR
-----SAN-----	SANITARY SEWER
-----G&W----	GAS AND WATER
-----STM----	REGIONAL STORM SEWER LINE
-------W-----	WATER
-------E-----	ELECTRIC
MH	MANHOLE
20	ISOCONCENTRATION CONTOUR FOR TOTAL MAXIMUM BTEX (ppm) AS DEFINED BY PROFILE SAMPLING

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02.
2. GROUNDWATER ELEVATIONS BASED ON LEVELS MEASURED ON APRIL 6, 2005.
3. NS = NOT SAMPLED.
4. OVERHEAD POWER LINES ROUGHLY PARALLEL TO SANITARY SEWER, GAS AND WATER LINES.

N

0 20' 40' 60' 80'
SCALE IN FEET

NO.	BY	DATE	REVISION	APP'D.
5.				
4.				
3.				
2.				
1.				

L.E. CARPENTER
WHARTON, NEW JERSEY

MW-19 / HOT SPOT 1 SHALLOW AQUIFER ISOCONCENTRATION MAP
2nd QUARTER 2005

DRAWN BY: SJL	SCALE: SHOWN	PROJECT NO. 8527.10	
CHECKED BY: JO		FILE NO.8527.10.14.DWG	
APPROVED BY: NC	DATE PRINTED:	**FIGURE 4**	
DATE: JULY 2005			

RMT INC.
1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI. 48108-2237
PHONE: 313-971-7080
FAX: 313-971-8022

Appendix A
Report Certification

REPORT CERTIFICATION
PURSUANT TO N.J.A.C. 7:26E–1.5

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement, which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Mr. Cristopher R. Anderson

PRINTED NAME

Director, Environmental Services

TITLE

L.E. Carpenter & Company

COMPANY

SIGNATURE

July 14, 2005

DATE

Appendix B
2nd Quarter 2005 Monitoring Well Sampling Data

RMT®

PROJECT NAME:	L. E. Carpenter
PROJECT NUMBER:	6527.10
LOCATION:	Wharton, NJ
DATES OF FIELD WORK:	April 6 - ~~8~~ 10, 2005
PURPOSE OF FIELD WORK:	2nd Quarter Groundwater Monitoring: Purge and Sample MW-19 wells Profile sample Drainage ditch/river sampling WLs.
WORK PERFORMED BY:	Jennifer Overvoorde

JOvervoorde
Signed

4/10/05
Date

QC'd By

7/6/05
Date

RMT

GENERAL NOTES

PROJECT NAME: L. E. Carpenter **DATE:** 4/6/05

PROJECT NUMBER: 6527.10 **AUTHOR:** J. Overvoorde

TIME ARRIVED ON SITE: 12^{30} **TIME LEFT SITE:** 5^{05}

WEATHER:
Temperature: 60° F° **Wind:** 5-10 MPH **Visibility:** clear, sunny, hot

WORK/SAMPLING PERFORMED:

- mob to site
- arrive on-site at 12^{30} pm
- organise coolers/equipment
- collect water levels

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

none

COMMUNICATIONS:

Name/Representing: Art C. -

Subject/Comments: Site H+S orientation, site update

Signed: JOvervoorde QC:

RMT

GENERAL NOTES

PROJECT NAME: L. E. Carpenter **DATE:** 4/7/05

PROJECT NUMBER: 6527.10 **AUTHOR:** J. Overvoorde

TIME ARRIVED ON SITE: 6^{30} am **TIME LEFT SITE:** 6^{15} pm

WEATHER:
Temperature: 60 F° **Wind:** 10-20 MPH **Visibility:** partly cloudy - cloudy

WORK/SAMPLING PERFORMED:

Begin sampling monitoring wells:
MW-19-11 Lower (10^{20} - 11^{30}), MW-19-11 Upper (12^{10} - 13^{15}),
MW-19-7 Upper (15^{10} - 15^{50}), MW-19-7 Lower (16^{40} - 17^{25})

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

none

COMMUNICATIONS:

Name/Representing: RMT - GRM ; EWM

Subject/Comments: progress update ; order more drums for purge water

Signed: JOvervoorde QC: [signature]

RMT

GENERAL NOTES

PROJECT NAME: L. E. Carpenter **DATE:** 4/8/05

PROJECT NUMBER: 6527.10 **AUTHOR:** J. Overvoorde

TIME ARRIVED ON SITE: 6^{30} am **TIME LEFT SITE:** 7^{30} pm

WEATHER:
Temperature: 70 F° **Wind:** 5-10 MPH **Visibility:** clear to partly cloudy

WORK/SAMPLING PERFORMED: Continue sampling wells / ditch:
MW-19 Upper (7^{40}-8^{15}), Atm. Blank (8^{50}),
MW-19 Lower (9^{35}-10^{00}), MW-19-1 Upper (11^{53}-12^{28}),
Ditch-1 (13^{20}), Ditch-3 (13^{40}), MW-19-1 Lower (14^{20}-15^{20})
MW-19-2 Upper (16^{50}-17^{10}), MW-19-2 Lower (18^{05}-18^{45}),
Dup-01 taken at MW-19-1 Lower

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

- none -

note: downgradient ditch is yellow. Nakia states he has heard about it and will check it out. pH of ditch and river are the same. Nakia mentioned a slurry bentonite spill.

COMMUNICATIONS:

Name/Representing: RMT-GRM

Subject/Comments: project updates

Signed: JOvervoorde QC: [signature]

RMT

GENERAL NOTES

PROJECT NAME: L. E. Carpenter **DATE:** 4/9/05

PROJECT NUMBER: 6527.10 **AUTHOR:** J. Overvoorde

TIME ARRIVED ON SITE: 6:30 am **TIME LEFT SITE:** 6:00 pm

WEATHER:
Temperature: 65 F° **Wind:** 5-10 MPH **Visibility:** partly cloudy

WORK/SAMPLING PERFORMED: Continue sampling wells:
MW-19-5 Upper (8:05-8:45), MW-19-5 Lower (9:35-10:15),
MW-19-6 Upper (11:15-11:50), MW-19-6 Lower (12:25-13:25),
MS/MSD was taken at MW-19-5 Lower
MW-19-10 Upper (15:25-16:25), MW-19-10 Lower (16:57-17:27)

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

- none -

COMMUNICATIONS:

Name/Representing: RMT-GRM

Subject/Comments: Progress updates

Signed: JOvervoorde QC:

RMT

GENERAL NOTES

PROJECT NAME: L. E. Carpenter **DATE:** 4/10/05

PROJECT NUMBER: 6527.10 **AUTHOR:** J. Overvoorde

TIME ARRIVED ON SITE: 6^05 **TIME LEFT SITE:** 12^05

WEATHER:
Temperature: 55 F° **Wind:** 5-10 MPH **Visibility:** mostly sunny

WORK/SAMPLING PERFORMED:

Completed groundwater sampling
MW-19-9D (6^50 - 8^05), MW-19-8 (8^37 - 9^22)
Rinsate blank (11^15)

pack equipment, clean supply room
misc. demob activities

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

- none -

COMMUNICATIONS:

Name/Representing: none

Subject/Comments:

Signed: Jennifer Overvoorde QC:

RMT

WATER LEVEL DATA

PROJECT NAME: LE Carpenter

DATE: April 6, 2005

PROJECT NUMBER: 6527.10

SAMPLER: J. Overvoorde

Well ID	Time	Top of Casing Elevation	Historical Depth to Water (ft) (05)	Depth to Water (feet)	Depth to Bottom (feet)	Water Elev (MSL)
MW-19	1557		8.19	6.27		
MW19-1	1559		7.74	5.89		
MW19-2	1607		8.62	6.73		
MW19-3	so ~~1559~~ 1605		8.81	~~5.89~~ 6.97		
MW19-4	1602		7.21	5.02		
MW19-5	1555		8.01	6.15		
MW19-6	1553		8.29	6.48		
MW19-7	1642		7.61	5.79		
MW19-8	1640		7.98	6.23		
MW19-9D	1616		7.94	5.65		
MW19-10	1635		6.48	4.80		
MW19-11	1638		6.40	4.68		
GEI-2S	1612		9.55	7.73		
GEI-2I	1610		9.64	7.48		
GEI-3I	1525		11.81	9.63		
MW-15S	1518		8.85	8.06		
MW-15I	1520		8.80	7.96		
SGR-1	1523		1.95	2.38		
SGD-1	1355			1.68	4/8/05	
SGD-3	1350			1.91		

JOvenoorde

Signed

7-6-05

QC'd By

Date

RMT	EQUIPMENT SUMMARY	SHEET: 8 of 40
		DATE: 4/6/05
		CHECKED BY: J. Overboorde
PROJECT: L. E. Carpenter	PROJECT NO: 6527.10	REVIEWED BY:

WATER LEVEL MEASUREMENTS WERE COLLECTED WITH:

QED MP-30
Name and Model Number of Instrument

LE Carpenter
Serial Number (if applicable)

DEPTH TO BOTTOM OF WELL MEASUREMENTS WERE COLLECTED WITH:

QED MP-30
Name and Model Number

LE Carpenter
Serial Number (if applicable)

PURGING METHOD:

QED portable low flow bladder pump
Name and Model Number of Pump or Type of Bailer

LE Carpenter
Serial Number (if applicable)

PURGE WATER DISPOSAL METHOD:

into 5 gall buckets - then into 55 gall drums

SAMPLING METHOD:

QED portable low flow bladder pump
Name and Model Number of Pump or Type of Bailer

LE Carpenter
Serial Number (if applicable)

teflon - lined polyethelene
Turbing Type

FILTRATION METHOD: N/A

Name and Model Number of Device

Serial Number (if applicable)

Filter Type

Tubing Type

DECONTAMINATION AND FILED BLANK WATER SOURCE:

N/A
Potable Water Source (if applicable)

laboratory
DI Water Source

METER CALIBRATION LOG

PROJECT NAME: L. E. Carpenter DATE: 4/7/05

PROJECT NUMBER: 6527.10 SAMPLER: J. Overvoorde

MODEL: QED MP-20 Flow Thru SERIAL NO.: LE Carpenter

pH METER

pH 4 pre-calibration	pH 4 after calibration	pH 7 pre-calibration	pH 7 after calibration	Time
4.23	4.00	7.12	7.00	7:32
4.18	4.00	7.03	7.00	11:45

Buffer Lot Numbers: pH 4: 2408349 pH 7: 2409220

CONDUCTIVITY METER

Temp. of Calibration Soln.	Corrected Cond. @ 25°C	Time
15.80	1412	7:32
18.67	1412	11:45

Calibration Solution Lot Number: 1403255

Calibration Range for Solution 1412 ±1 µmhos/cm @25°C

REDOX METER

Temp C°	E_H Reading (mV)	Time
15.24	245	7:32
18.67	250	11:45

Calibration Solution Lot Number: 04K17496

Calibration Range for Solution 225 – 250 mV

MODEL: Hach 2100P SERIAL NO.: LE Carpenter

Turbidity Meter

Std Value (NTU)	Reading (NTU)	Time
0 – 10 range	6	7:32
0 – 100 range	51	
0 – 1,000 range	505	
0 – 10 range	6	11:45
0 – 100 range	50	
0 – 1,000 range	500	

Problems/Corrective Actions: pH 4 will not calibrate - using additional pH meter (Fisher Scientific Accumet AP5) for QC of pH.

J Overvoorde 4/7/05

Signed Date QC'd By Date

METER CALIBRATION LOG

PROJECT NAME: L. E. Carpenter

DATE: 4/8/05

PROJECT NUMBER: 6527.10

SAMPLER: J. Overvoorde

MODEL: QED MP-20

SERIAL NO.: LE Carpenter

pH METER

pH 4 pre-calibration	pH 4 after calibration	pH 7 pre-calibration	pH 7 after calibration	Time
4.08 ⊗	4.00	7.17	7.01	715
4.01	4.00	7.06	7.00	1400

Buffer Lot Numbers: pH 4: 2408349 pH 7: 2409220

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	Time
16.79	1412	715
18.21	1412	1400

Calibration Solution Lot Number: 1403255

Calibration Range for Solution 1412 ±1 µmhos/cm @25°C

REDOX METER

Temp C°	E_H Reading (mV)	Time
16.92	241	715
18.21	249	1400

Calibration Solution Lot Number: 04K17496

Calibration Range for Solution 225 – 250 mV

MODEL: Hach 2100 P

SERIAL NO.: LE Carpenter

Turbidity Meter

Std Value (NTU)	Reading (NTU)	Time
0 – 10 range	6	715
0 – 100 range	51	
0 – 1,000 range	494	
0 – 10 range	6	1400
0 – 100 range	50	
0 – 1,000 range	501	

Problems/Corrective Actions: ⊗ using additional pH probe for QC.

J Overvoorde — Signed

4/8/05 — Date

QC'd By

7-6-05 — Date

METER CALIBRATION LOG

PROJECT NAME: L. E. Carpenter DATE: 4/9/05

PROJECT NUMBER: 6527.10 SAMPLER: J. Overvoorde

MODEL: QED MP-20 Flow Thru SERIAL NO.: LE Carpenter

pH METER

pH 4 pre-calibration	pH 4 after calibration	pH 7 pre-calibration	pH 7 after calibration	Time
4.06	4.00	7.15	7.02	742
4.01	4.00	7.01	7.00	1345

Buffer Lot Numbers: pH 4: 2408348 pH 7: 2409220

CONDUCTIVITY METER

Temp. of Calibration Soln	Corrected Cond. @ 25°C	Time
11.56	1412	742
NM	1412	1345

Calibration Solution Lot Number: 1403255

Calibration Range for Solution 1412 ±1 µmhos/cm @25°C

REDOX METER

Temp C°	E_H Reading (mV)	Time
11.56	252	742
NM	239	1345

Calibration Solution Lot Number: 04K17496

Calibration Range for Solution 225 – 250 mV

MODEL: Hach 2100P SERIAL NO.: LE Carpenter

Turbidity Meter

Cal Value (NTU)	Reading (NTU)	Time
0 – 10 range	6	742
0 – 100 range	51	
0 – 1,000 range	503	
0 – 10 range	6	1345
0 – 100 range	50	
0 – 1,000 range	505	

Problems/Corrective Actions:

J Overvoorde 4/9/05 [signature] 7-6-05

Signed Date QC'd By Date

METER CALIBRATION LOG

PROJECT NAME: L. E. Carpenter

DATE: 4/10/05

PROJECT NUMBER: 6527.10

SAMPLER: J. Overvoorde

MODEL: QED MP-20 Flow Thru

SERIAL NO.: LE Carpenter

pH METER

pH 4 pre-calibration	pH 4 after calibration	pH 7 pre-calibration	pH 7 after calibration	Time
3.98	4.00	6.87	7.00	645
4.02	4.00	7.02	7.00	945

Buffer Lot Numbers: pH 4: 2408349 pH 7: 2409220

CONDUCTIVITY METER

Temp. of Calibration Soln.	Corrected Cond. @ 25°C	Time
9.67	1412	645
13.59	1412	945

Calibration Solution Lot Number: 1403255

Calibration Range for Solution 1412 ±1 µmhos/cm @25°C

REDOX METER

Temp C°	E_H Reading (mV)	Time
10.11	242	645
13.59	248	945

Calibration Solution Lot Number: 04K17496

Calibration Range for Solution 225 – 250 mV

MODEL: Hach 2100P

SERIAL NO.: LE Carpenter

Turbidity Meter

Gel Value (NTU)	Reading (NTU)	Time
0 – 10 range	6	645
0 – 100 range	52	
0 – 1,000 range	507	
0 – 10 range	6	945
0 – 100 range	51	
0 – 1,000 range	502	

Problems/Corrective Actions: short sampling day

J Overvoorde — Signed

4/10/05 — Date

QC'd By

7.6.05 — Date

RMT®

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/7/05	By: ES	Date: 7-6-05	6527.10

SAMPLE NO.: MW-19-11 Lower WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 10^20	DATE: 4/7/05	SAMPLE	TIME: ____	DATE: ____
WELL VOLUME: 1.79 ☒ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: 28 ☐ Gallons ☒ Liters			COND. µmhos/cm	Ferr. Fe mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: NTU	ORP mV	Alk mg/L
DEPTH TO WATER: 4.67 T/OC			ODOR: ☐ None ☐ Other		COLOR:
DEPTH TO BOTTOM: 15.54 T/OC + 0.1			TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: cloudy, tan		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very			ODOR: ☐ None ☐ Other		
COMMENTS: ORP calib. OK, not reading right though			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

NA

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
10^20	400	7.82	629	⊕400	1.0	1402	12.00	4.67	Initial
10^25		7.82	380	364	1.0	1407	12.00	4.65	2
10^30		7.82	304	NM	1.0	1407	12.08	4.65	4
10^35		7.83	214	NM	1.0	1408	12.07	4.65	6
10^40		7.84	189	NM	1.0	1407	12.05	4.65	8
10^45		7.83	152	NM	1.0	1406	12.04	4.65	10
10^50		7.82	101	NM	1.0	1413	12.06	4.65	12
10^55		7.85	89	NM	1.0	1413	12.08	4.65	14
11^00		7.85	74	NM	1.0	1421	12.10	4.65	16
11^05		7.82	61	NM	0.8	1420	12.20	4.65	18

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
5	40 mL	Glass	E	☐Y ☒ N	2	1000 mL	Glass	C	☐Y ☒ N
1	40 mL	Glass	A	☐Y ☒ N	2	1000 mL	Amber	F	☐Y ☒ N
1	40 mL	Glass	C	☐Y ☒ N	2	1000 mL	Plastic	A	☐Y ☒ N
1	120 mL	Plastic	F	☐Y ☒ N					

CHAIN-OF-CUSTODY NUMBER: 0081757 DATE SHIPPED: 4/7/05 METHOD: ~~[illegible]~~ Fed Ex

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/7/05

KMI®

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/7/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-11 Lower (cont.) WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____
WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other
SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: ____	DATE: ____	SAMPLE	TIME: 1130	DATE: 4/7/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.88 SU	TEMP. 12.18 °C	D.O. 0.8 mg/L
TOTAL VOLUME REMOVED: ☐ Gallons ☐ Liters			COND. 1424 µmhos/cm	Ferr. Fe 4 mg/L	CO_2 17 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 38 NTU	ORP NM mV	Alk 110 mg/L
DEPTH TO WATER: T/ NA			ODOR: ☒ None ☐ Other		COLOR: clr w/ tan flocs
DEPTH TO BOTTOM: T/			TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 um) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1110	400	7.81	45	NM	0.8	1422	12.15	4.65	20 ~~Initial~~
1115		7.86	42	NM	0.8	1425	12.20	4.65	22
1120		7.87	42	NM	0.8	1418	12.20	4.65	24
1125		7.86	40	NM	0.8	1419	12.17	4.65	26
1130		7.88	38	NM	0.8	1424	12.18	4.65	28
					CO_2	17 ppm			
					Total Alk	110 ppm			
					Ferr Fe	4 ppm			

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081757 DATE SHIPPED: 4/7/05 METHOD: Fed Ex
AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/7/05

KMI®

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/7/05	By: BS	Date: 7-6-05	6527.10

SAMPLE NO.: MW-19-11 Upper WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 1210	DATE: 4/7/04	SAMPLE	TIME: ____	DATE: ____
WELL VOLUME: 1.83 ☒ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: 26 ☐ Gallons ☒ Liters			COND. µmhos/cm	Ferr. Fe mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: NTU	ORP mV	Alk mg/L
DEPTH TO WATER: 4.42 T/ OC			ODOR: ☐ None ☐ Other		COLOR:
DEPTH TO BOTTOM: 15.54 T/OC + 0.1			TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: Cloudy tan		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1210	400	7.84	466	233	1.0	1416	13.17	4.42	Initial
1215		7.84	376	NM	1.0	1404	11.83	4.42	2
1220		7.82	261	NM	0.8	1413	11.88	4.42	4
1225		7.84	126	NM	1.0	1420	11.90	4.42	6
1230		7.86	53	NM	0.8	1424	11.98	4.42	8
1235		7.87	pump slipped	NM	0.8	1424	12.02	4.42	10
1240		7.80		NM	0.8	1429	12.06	4.42	12
1245		7.80	343	NM	0.8	1428	12.13	4.42	14
1250		7.81	198	NM	0.8	1441	12.20	4.42	16
1255		7.80	63	NM	0.8	1441	12.14	4.42	18

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081757 DATE SHIPPED: 4/7/05 METHOD: Fed Ex

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 4/7/05

RMI

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/7/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-11 Upper (Cont.) WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☒ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: ____	DATE: ____	SAMPLE	TIME: 1315	DATE: 4/7/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.80 SU	TEMP. 12.12 °C	D.O. 0.8 mg/L
TOTAL VOLUME REMOVED: ☐ Gallons ☐ Liters			COND. 1442 µmhos/cm	Ferr. Fe 4 mg/L	CO_2 15 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 10 NTU	ORP NM mV	Alk 90 mg/L
DEPTH TO WATER: T/ NM			ODOR: ☒ None ☐ Other		COLOR: clear
DEPTH TO BOTTOM: T/			TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1300	400	7.80	34	NM	0.8	1444	12.11	4.42	20 ~~Initial~~
1305	↓	7.79	24	NM	0.8	1445	12.21	4.42	22
1310		7.79	17	NM	0.8	1443	12.23	4.42	24
1315	↓	7.80	10	NM	0.8	1442	12.12	4.42	26
					Ferr Iron 4 ppm				
					Total Alk 90 ppm				
					CO_2 15 ppm				

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F - $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081757 DATE SHIPPED: 4/7/05 METHOD: Fed Ex

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/7/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/7/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-7 Upper WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 1500	DATE: 4/7/05	SAMPLE	TIME: 1500	DATE: 4/7/05
WELL VOLUME: NA ☐ Gallons ☐ Liters			pH: 7.80 SU	TEMP. 11.22 °C	D.O. 1.0 mg/L
TOTAL VOLUME REMOVED: 12.8 ☐ Gallons ☒ Liters			COND. 961 µmhos/cm	Ferr. Fe 15 mg/L	CO_2 29 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 49 NTU	ORP NM mV	Alk 200 mg/L
DEPTH TO WATER: 5.92 T/OC			ODOR: ☒ None ☐ Other		COLOR: clr w/ tan flocs
DEPTH TO BOTTOM: NM T/OC			TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: clear		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1510	320	8.01	11	179	3.0	982	12.00	5.55	Initial
1515	320	7.91	25	NM	3.0	970	11.68	5.55	1.6
1520		7.92	30	NM	3.0	967	11.13	5.55	3.2
1525		7.79	36	NM	3.0	967	11.06	5.55	4.8
1530		7.85	41	NM	2.0	955	11.63	5.55	6.4
1535		7.81	49	NM	1.0	955	11.45	5.55	8.0
1540		7.83	47	NM	2.0	960	11.89	5.55	9.6
1545		7.84	48	NM	2.0	963	11.18	5.55	11.2
1550	↓	7.80	49	NM	1.0	961	11.22	5.55	12.8

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F - $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081757 DATE SHIPPED: 4/7/05 METHOD: Fed Ex

AIRBILL NUMBER: NA SIGNED: Overwarde DATE: 4/7/05

KMI®

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/7/05	By:	Date:	6527.10

SAMPLE NO.: MW-19-7 Lower WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____
WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other
SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 1640	DATE: 4/7	SAMPLE	TIME: 1725	DATE: 4/7/05
WELL VOLUME: NA ☐ Gallons ☐ Liters			pH: 7.82 SU	TEMP. 11.70 °C	D.O. 0.05 mg/L
TOTAL VOLUME REMOVED: 18 ☐ Gallons ☒ Liters			COND. 938 µmhos/cm	Ferr. Fe 15 mg/L	CO_2 36 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 25 NTU	ORP NM mV	Alk 160 mg/L
DEPTH TO WATER: 6.00 T/ OC			ODOR: ☐ None ☒ Other		COLOR:
DEPTH TO BOTTOM: NM T/ OC			TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: brown		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1640	400	7.83	1000+	160	0.5	961	12.36	4.89	Initial
1645		7.82	293	NM	0.1	944	11.72	4.89	2
1650		7.84	179	NM	0.1	940	11.80	4.89	4
1655		7.86	101	NM	0.1	935	11.84	4.89	6
1700		7.82	62	107	0.05	936	11.89	4.89	8
1705		7.84	32	103	0.05	936	11.83	4.89	10
1710		7.81	26	101	0.05	938	11.79	4.89	12
1715		7.82	30	103	0.05	938	11.70	4.89	14
1720		7.80	23	103	0.05	939	11.75	4.89	16
1725	400	7.82	25	102	0.05	938	11.70	4.89	18

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED — PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081757 DATE SHIPPED: 4/7/05 METHOD: Fed Ex
AIRBILL NUMBER: NA SIGNED: D Vereoarde DATE: 4/7/05

KMI®

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19- Upper WELL DIAMETER: ☒ 2" (☒ 4") ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 740	DATE: 4/8/05	SAMPLE	TIME: 815	DATE: 4/8/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.69 SU	TEMP. 8.46 °C	D.O. 1.0 mg/L
TOTAL VOLUME REMOVED: 12.6 ☐ Gallons ☒ Liters			COND. 760 µmhos/cm	Ferr. Fe 0.4 mg/L	CO_2 <10 ppm
METHOD: ☐ Bailer, ☐ ☒ Pump, Bladder			TURBIDITY: 10 NTU	ORP NM mV	Alk 29 mg/L
DEPTH TO WATER: 6.60 T/ OC			ODOR: ☒ None ☐ Other		COLOR: clear
DEPTH TO BOTTOM: T/ OC +0.1			TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: clear w/ red brown staining		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS: Atm Blank			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
740	360	7.52	40	397	1.0	799	8.50	6.60	Initial
745		7.61	34	NM	1.0	778	8.44	6.55	1.8
750		7.61	23	NM	1.0	775	8.43	6.55	3.6
755		7.58	17	NM	1.0	771	8.45	6.55	5.4
800		7.63	18	NM	1.0	768	8.45	6.55	7.2
805		7.65	16	NM	1.0	767	8.48	6.55	9.0
810		7.68	13	NM	1.0	763	8.47	6.55	10.8
815		7.69	10	NM	1.0	760	8.46	6.55	12.6

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒ N	2	1000 mL	Glass	C	☐Y ☒ N
1	40 mL	Glass	A	☐Y ☒ N	2	1000 mL	Amber	F	☐Y ☒ N
1	40 mL	Glass	C	☐Y ☒ N	2	1000 mL	Plastic	A	☐Y ☒ N
1	120 mL	Plastic	F	☐Y ☒ N					

CHAIN-OF-CUSTODY NUMBER: 0081760 DATE SHIPPED: 4/8/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/8/05

KMI®

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: Atm Blank WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other ____

WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☒ Other

PURGING	TIME: ____	DATE: ____	SAMPLE	TIME: 850	DATE: 4/8/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: ☒ Gallons ☐ Liters			COND. µmhos/cm	Ferr. Fe mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: NTU	ORP mV	Alk mg/L
DEPTH TO WATER: T/ NA			ODOR: ☐ None ☐ Other		COLOR:
DEPTH TO BOTTOM: T/			TURBIDITY: ☐ None ☐ Slight NA ☐ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
									Initial

NA

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO_3 C - H_2SO_4 D - NaOH E - HCl F - $Na_2S_2O_3$						
Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081760 DATE SHIPPED: 4/8/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/8/05

KMI

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19 Lower WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 935	DATE: 4/8/05	SAMPLE	TIME: 1000	DATE: 4/8/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.84 SU	TEMP. 8.60 °C	D.O. 1.0 mg/L
TOTAL VOLUME REMOVED: 8.0 ☐ Gallons ☒ Liters			COND. 734 µmhos/cm	Ferr. Fe 0.3 mg/L	CO_2 <10 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 10 NTU	ORP NM mV	Alk 30 mg/L
DEPTH TO WATER: 6.60 T/ OC			ODOR: ☒ None ☐ Other		COLOR: clear
DEPTH TO BOTTOM: T/ OC +0.1			TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: clr w/ floaties		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
935	320	7.79	14	326	1.0	755	8.60	6.52	Initial
940		7.79	13	NM	1.0	750	8.61	6.52	1.6
945		7.81	13	NM	1.0	745	8.59	6.52	3.2
950		7.82	11	NM	1.0	742	8.63	6.53	4.8
955		7.81	10	NM	1.0	738	8.59	6.54	6.4
1000		7.84	10	NM	1.0	734	8.60	6.54	8.0

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED — PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081763 DATE SHIPPED: 4/8/05 METHOD: Fed Ex

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/8/05

RMI

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-9-1 Upper WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 1153	DATE: 4/8/05	SAMPLE	TIME: 1228	DATE: 4/8/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.67 SU	TEMP. 8.50 °C	D.O. 1.0 mg/L
TOTAL VOLUME REMOVED: 12.6 ☐ Gallons ☒ Liters			COND. 2540 µmhos/cm	Ferr. Fe 0.1 mg/L	CO_2 <10 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 10 NTU	ORP NM mV	Alk 90 mg/L
DEPTH TO WATER: 6.08 T/OC			ODOR: ☒ None ☐ Other		COLOR: clear
DEPTH TO BOTTOM: 15.54 T/OC +0.1			TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: dr water, tan seds.		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1153	360	7.55	98	306	1.0	2700	8.78	6.10	Initial
1158		7.54	67	NM	1.0	2670	8.55	6.10	1.8
1203		7.55	48	NM	1.0	2640	8.37	6.10	3.6
1208		7.56	33	NM	1.0	2610	8.44	6.10	5.4
1213		7.61	28	NM	1.0	2560	8.47	6.10	7.2
1218		7.59	18	NM	1.0	2550	8.47	6.10	9.0
1223		7.63	12	NM	1.0	2550	8.46	6.10	10.8
1228		7.67	10	NM	1.0	2540	8.50	6.10	12.6

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F - $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081763 DATE SHIPPED: 4/8/05 METHOD: Fed Ex

AIRBILL NUMBER: NA SIGNED: dVenoarde DATE: 4/8/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By: BS	Date: 7-6-05	6527.10

SAMPLE NO.: Ditch-1 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other ____

WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: ____	DATE: ____	SAMPLE	TIME: 1320	DATE: 4/8/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: ☐ Gallons ☐ Liters			COND. µmhos/cm	Ferr. Fe mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: NTU	ORP NA mV	Alk mg/L
DEPTH TO WATER: T/ NA			ODOR: ☐ None ☐ Other NA		COLOR:
DEPTH TO BOTTOM: T/			TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
									Initial

NA

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$						
Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
~~4~~ 3	40 mL	Glass	E	☐Y ☒N	~~2~~	~~1000 mL~~	~~Glass~~	~~C~~	~~☐Y ☒N~~
~~1~~	~~40 mL~~	~~Glass~~	~~A~~	~~☐Y ☒N~~	2	1000 mL	Amber	F	☐Y ☒N
~~1~~	~~40 mL~~	~~Glass~~	~~C~~	~~☐Y ☒N~~	~~2~~	~~1000 mL~~	~~Plastic~~	~~A~~	~~☐Y ☒N~~
~~1~~	~~120 mL~~	~~Plastic~~	~~F~~	~~☐Y ☒N~~					

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CHAIN-OF-CUSTODY NUMBER: 0081763 DATE SHIPPED: 4/8/05 METHOD: Fed Ex.

AIRBILL NUMBER: NM SIGNED: dOvenoade DATE: 4/8/05

RMI

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By: BS	Date: 7.6.05	6527.10

SAMPLE NO.: Ditch-3 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other ____

WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: ____	DATE: ____	SAMPLE	TIME: 1340	DATE: 4/8/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: ☐ Gallons ☐ Liters			COND. µmhos/cm	Ferr. Fe mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: NTU	ORP mV	Alk mg/L
DEPTH TO WATER: T/			ODOR: ☐ None ☐ Other		COLOR:
DEPTH TO BOTTOM: T/ NA			TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
									Initial

NA

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$						
Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
~~3~~	40 mL	Glass	E	☐Y ☒ N	~~2~~	~~1000 mL~~	Glass	C	~~☐Y ☒ N~~
~~1~~	~~40 mL~~	~~Glass~~	~~A~~	~~☐Y ☒ N~~	2	1000 mL	Amber	F	☐Y ☒ N
~~1~~	~~40 mL~~	~~Glass~~	~~C~~	~~☐Y ☒ N~~	~~2~~	~~1000 mL~~	~~Plastic~~	~~A~~	~~☐Y ☒ N~~
~~1~~	~~120 mL~~	~~Plastic~~	~~E~~	~~☐Y ☒ N~~					

CHAIN-OF-CUSTODY NUMBER: 0081763 DATE SHIPPED: 4/8/05 METHOD: Fed Ex.

AIRBILL NUMBER: NM SIGNED: J Overmoyer DATE: 4/8/05

RMT®

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-1 lower WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 14^20	DATE: 4/8/05	SAMPLE	TIME: ____	DATE: ____
WELL VOLUME: ☐ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: 24 ☐ Gallons ☒ Liters			COND. µmhos/cm	Ferr. Fe NA mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: NTU	ORP mV	Alk mg/L
DEPTH TO WATER: 6.10 T/ oc			ODOR: ☐ None ☐ Other		COLOR:
DEPTH TO BOTTOM: 15.54 T/oc +0.1			TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: tan/brown		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very			ODOR: ☐ None ☐ Other		
COMMENTS: Dup-01			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
14^20	400	7.67	119	⊕ 275	1.0	2630	9.15	6.10	Initial
14^25		7.62	89	NM	1.0	2610	9.15	6.10	2
14^30		7.65	74	NM	0.8	2600	9.26	6.10	4
14^35		7.63	88	NM	0.8	2580	9.35	6.10	6
14^40		7.68	62	NM	0.8	2570	9.17	6.10	8
14^45		7.76	48	NM	0.8	2570	9.00	6.10	10
14^50		7.67	48	NM	0.8	2560	9.01	6.10	12
14^55		7.70	36	NM	1.0	2560	9.03	6.10	14
15^00		7.73	32	NM	0.8	2560	9.05	6.10	16
15^05		7.69	42	NM	0.8	2560	9.04	6.10	18

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCl F - $Na_2S_2O_3$

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081763 DATE SHIPPED: 4/8/05 METHOD: Fed Ex

AIRBILL NUMBER: NM SIGNED: [signature] DATE: 4/8/05

RMI

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By:	Date:	6527.10

SAMPLE NO.: MW-19-1 Lower (Cont.) WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: ____	DATE: ____	SAMPLE	TIME: 1520	DATE: 4/8/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.60 SU	TEMP. 9.15 °C	D.O. 0.8 mg/L
TOTAL VOLUME REMOVED: ☐ Gallons ☐ Liters			COND. 2540 µmhos/cm	Ferr. Fe 0.2 mg/L	CO_2 <10 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 22 NTU	ORP NM mV	Alk 75 mg/L
DEPTH TO WATER: T/ NA			ODOR: ☒ None ☐ Other		COLOR: clear w/ tan flecks
DEPTH TO BOTTOM: T/			TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1510	400	7.60	24	NM	~~NM~~ 0.8	2550	9.17	6.10	20 initial
1515	↓	7.63	23	NM	0.8	2540	9.11	6.10	22
1520	↓	7.60	22	NM	0.8	2540	9.15	6.10	24

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F - $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081763 DATE SHIPPED: 4/8/05 METHOD: Fed Ex.

AIRBILL NUMBER: NM SIGNED: [signature] DATE: 4/8/05

RMI

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-2 Upper WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 1650	DATE: 4/8/05	SAMPLE	TIME: 1710	DATE: 4/8/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.76 SU	TEMP. 8.00 °C	D.O. 0.8 mg/L
TOTAL VOLUME REMOVED: 6.4 ☐ Gallons ☒ Liters			COND. 1316 µmhos/cm	Ferr. Fe 0.1 mg/L	CO_2 10 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 10 NTU	ORP NM mV	Alk 100 mg/L
DEPTH TO WATER: 6.82 T/OC			ODOR: ☒ None ☐ Other		COLOR: clear
DEPTH TO BOTTOM: 15.73 T/OC +0.1			TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: clr w/ tan sediments		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1650	320	7.52	37	253	0.8	1338	9.54	6.85	Initial
1655	↓	7.63	22	NM	1.0	1306	8.00	6.85	1.6
1700		7.70	18	NM	0.8	1310	8.10	6.85	3.2
1705		7.74	14	NM	0.8	1313	8.02	6.85	4.8
1710	↓	7.76	10	NM	0.8	1316	8.00	6.85	6.4

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCL F- $Na_2S_2O_3$

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081763 DATE SHIPPED: 4/8/05 METHOD: Fed Ex

AIRBILL NUMBER: NM SIGNED: [illegible] DATE: 4/8/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/8/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-2 Lower WELL DIAMETER: ☐ 2" ☒ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 1805	DATE: 4/8/05	SAMPLE	TIME: 1845	DATE: 4/8/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.80 SU	TEMP. 7.76 °C	D.O. 0.8 mg/L
TOTAL VOLUME REMOVED: 16 ☐ Gallons ☒ Liters			COND. 1312 µmhos/cm	Ferr. Fe 0.1 mg/L	CO_2 <10 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 29 NTU	ORP NM mV	Alk 100 mg/L
DEPTH TO WATER: 7.03 T/OC			ODOR: ☒ None ☐ Other		COLOR: clear water, fine tan seds.
DEPTH TO BOTTOM: 15.73 T/OC + 0.1			TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: tan/brown		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1805	400	7.82	94	269	0.8	1310	9.50	7.03	Initial
1810		7.78	83	NM	0.8	1319	7.87	7.00	2
1815		7.82	76	NM	1.0	1318	7.81	6.94	4
1820		7.81	67	NM	0.8	1318	7.80	6.89	6
1825		7.80	51	NM	0.8	1316	7.79	6.89	8
1830		7.81	36	NM	0.8	1315	7.79	6.89	10
1835		7.80	32	NM	0.8	1314	7.78	6.89	12
1840		7.81	30	NM	0.8	1312	7.76	6.89	14
1845		7.80	29	NM	0.8	1312	7.78	6.89	16

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081763 DATE SHIPPED: 4/8/05 METHOD: Fed Ex

AIRBILL NUMBER: NM SIGNED: Overvorde DATE: 4/8/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/9/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-5 Upper WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 805	DATE: 4/9/05	SAMPLE	TIME: 845	DATE: 4/9/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.99 SU	TEMP. 6.96 °C	D.O. 0.8 mg/L
TOTAL VOLUME REMOVED: 16 ☐ Gallons ☒ Liters			COND. 2100 µmhos/cm	Ferr. Fe 0 mg/L	CO_2 10.5 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 38 NTU	ORP NM mV	Alk 45 mg/L
DEPTH TO WATER: 6.58 T/OC			ODOR: ☒ None ☐ Other		COLOR: clr, cooler, fine, tan sed
DEPTH TO BOTTOM: 15.60 T/OC	+0.1		TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: clear water, volatile floaties		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
805	400	8.09	29	255	1.0	2240	7.03	6.58	Initial
810		8.08	39	NM	1.0	2180	6.53	6.50	2
815		8.00	41	NM	1.0	2160	6.61	6.50	4
820		7.95	43	NM	0.8	2130	6.64	6.50	6
825		7.99	44	NM	0.8	2130	6.66	6.50	8
830		7.97	42	NM	0.8	2120	6.67	6.50	10
835		7.98	40	NM	0.8	2110	6.70	6.50	12
840		7.98	38	NM	0.8	2110	6.82	6.50	14
845		7.99	38	NM	0.8	2100	6.96	6.50	16

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO3 C - H2SO4 D - NaOH E - HCl F- Na2S2O3

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081764 DATE SHIPPED: 4/9/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/9/05

RMI

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/9/05	By: BS	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-S Lower WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 935	DATE: 4/9/05	SAMPLE	TIME: 1015	DATE: 4/9/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.94 SU	TEMP. 8.00 °C	D.O. 1.0 mg/L
TOTAL VOLUME REMOVED: 16 ☐ Gallons ☒ Liters			COND. 2640 µmhos/cm	Ferr. Fe 0 mg/L	CO_2 16 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 10 NTU	ORP Nm mV	Alk 45 mg/L
DEPTH TO WATER: 6.68 T/OC			ODOR: ☒ None ☐ Other		COLOR: clear
DEPTH TO BOTTOM: 15.60 T/OC +0.1			TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: tan w/ seds		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS: MS/MSD			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
935	400	7.90	32	*296	1.0	2090	8.13	6.75 ~~NM~~	Initial
940		7.84	28	NM	1.0	2180	7.98	NM	2
945		7.89	20	NM	1.0	2230	7.98	NM	4
950		7.88	16	NM	1.0	2340	8.07	NM	6
955		7.89	16	NM	1.0	2380	8.06	NM	8
1000		7.88	14	NM	0.8	2390	8.09	NM	10
1005		7.93	13	NM	0.8	2620	8.06	NM	12
1010		7.98 ~~8.00~~	13	NM	0.8	2620	8.03	need new	14
1015		7.94	10	NM	1.0	2640	8.00	battery	16

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

lots of bubbles in water

BOTTLES FILLED			PRESERVATIVE CODES: A - None B – HNO3 C - H2SO4 D - NaOH E - HCl F- Na2S2O3						
Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
5	40 mL	Glass	E	☐Y ☒ N	2	1000 mL	Glass	C	☐Y ☒ N
1	40 mL	Glass	A	☐Y ☒ N	2	1000 mL	Amber	F	☐Y ☒ N
1	40 mL	Glass	C	☐Y ☒ N	2	1000 mL	Plastic	A	☐Y ☒ N
1	120 mL	Plastic	F	☐Y ☒ N					

CHAIN-OF-CUSTODY NUMBER: 0081764 DATE SHIPPED: 4/9/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/9/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/9/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-6 Upper WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____
WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other
SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 1115	DATE: 4/9/05	SAMPLE	TIME: 1150	DATE: 4/9/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.48 SU	TEMP. 9.89 °C	D.O. 1.0 mg/L
TOTAL VOLUME REMOVED: 14 ☐ Gallons ☒ Liters			COND. 1790 µmhos/cm	Ferr. Fe 1 mg/L	CO_2 20 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 2 NTU	ORP NM mV	Alk 50 mg/L
DEPTH TO WATER: 6.32 T/ OC			ODOR: ☒ None ☐ Other		COLOR: clear
DEPTH TO BOTTOM: T/ OC +0.1			TURBIDITY: ☒ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: clear w/ wht flakes		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1115	400	7.76	17	293	1.0	503	10.37	6.32	Initial
1120	↓	7.56	11	NM	1.0	962	9.64	6.31	2
1125		7.54	10	NM	0.8	1382	9.79	6.30	4
1130		7.50	6	NM	0.8	1530	9.84	6.28	6
1135		7.53	4	NM	0.8	1700	9.76	6.28	8
1140		7.46	3	NM	1.0	1770	9.76	6.28	10
1145		7.46	3	NM	1.0	1780	9.80	6.28	12
1150	↓	7.48	2	NM	1.0	1790	9.89	6.28	14

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED — PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒ N	2	1000 mL	Glass	C	☐Y ☒ N
1	40 mL	Glass	A	☐Y ☒ N	2	1000 mL	Amber	F	☐Y ☒ N
1	40 mL	Glass	C	☐Y ☒ N	2	1000 mL	Plastic	A	☐Y ☒ N
1	120 mL	Plastic	F	☐Y ☒ N					

CHAIN-OF-CUSTODY NUMBER: 008764 DATE SHIPPED: 4/9/05 METHOD: Lab Courier
AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/9/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/9/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-6 Lower WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: ____	DATE: 4/9/05	SAMPLE	TIME: ____	DATE: ____
WELL VOLUME: ☐ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: 27 ☐ Gallons ☒ Liters			COND. µmhos/cm	Ferr. Fe mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: NTU	ORP mV	Alk mg/L
DEPTH TO WATER: 6.20 T/OC			ODOR: ☐ None ☐ Other		COLOR:
DEPTH TO BOTTOM: T/OC +0.1			TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: tan/red		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

NA

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1225	450	7.34	1000+	*265	1.0	2060	11.29	6.20	Initial
1230		7.31	1000+	NM	1.0	2070	11.03	6.20	2.25
1235		7.47	314	NM	1.0	2050	10.83	6.20	4.50
1240		7.41	222	NM	0.8	2020	10.80	6.22	6.75
1245		7.48	114	NM	1.0	1960	10.79	6.22	9.00
1250		7.51	73	NM	1.0	1890	10.76	6.22	11.25
1255		7.40	66	NM	1.0	1890	10.69	6.22	13.50
1300		7.43	57	NM	1.0	1870	10.69	6.22	15.75
1305		7.42	51	NM	1.0	1870	10.67	6.22	18.00
1310		7.46	44	NM	1.0	1870	10.63	6.23	20.25

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081764 DATE SHIPPED: 4/9/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/9/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/9/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-6 Lower (cont.) WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: ____	DATE: ____ /	SAMPLE	TIME: 1325	DATE: 4/9/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.50 SU	TEMP. 10.64 °C	D.O. 1.0 mg/L
TOTAL VOLUME REMOVED: ☐ Gallons ☐ Liters			COND. 1870 µmhos/cm	Ferr. Fe 0.1 mg/L	CO_2 15 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 27 NTU	ORP NM mV	Alk 75 mg/L
DEPTH TO WATER: T/ NA			ODOR: ☒ None ☐ Other		COLOR: clr w/ red floch
DEPTH TO BOTTOM: T/ NA			TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1315	450	7.48	30	NM	1.0	1860	10.66	6.23	~~Initial~~ 22.50
1320	↓	7.44	28	NM	1.0	1860	10.63	6.23	24.75
1325	↓	7.50	27	NM	1.0	1870	10.64	6.23	27.00

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081764 DATE SHIPPED: 4/9/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: D Bernardi DATE: 4/9/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/9/05	By: BS	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-10 Upper WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 1525	DATE: 4/9/05	SAMPLE	TIME: ____	DATE: ____
WELL VOLUME: ☒ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: 19.8 ☐ Gallons ☒ Liters			COND. µmhos/cm	Ferr. Fe mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: NTU	ORP mV	Alk mg/L
DEPTH TO WATER: 4.50 T/OC			ODOR: ☐ None ☐ Other		COLOR:
DEPTH TO BOTTOM: T/OC +0.1			TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: tan/brown		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

NP

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1525	360	7.47	61	257	1.0	1402	12.27	4.50	Initial
1530		7.51	94	NM	1.0	1345	10.90	4.60	1.80
1535		7.47	98	NM	1.0	1340	10.78	4.60	3.6
1540		7.49	102	NM	1.0	1331	10.87	4.60	5.4
1545		7.51	74	NM	1.0	1323	11.00	4.60	7.2
1550		7.52	64	NM	1.0	1320	11.06	4.60	9.0
1555		7.54	61	NM	1.0	1310	11.11	4.60	10.8
1600		7.56	53	NM	1.0	1310	11.11	4.60	12.6
1605		7.55	45	NM	1.0	1300	11.10	4.60	14.4
1610		7.53	37	NM	1.0	1298	11.10	4.60	16.2

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081762 DATE SHIPPED: 4/11/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: [illegible] DATE: 4/9/05

RMT®

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/9/05	By: GS	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-10 Upper (Cont) WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: ____	DATE: ____	SAMPLE	TIME: 1625	DATE: 4/9/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.48 SU	TEMP. 11.18 °C	D.O. 1.0 mg/L
TOTAL VOLUME REMOVED: ☐ Gallons ☐ Liters			COND. 1282 µmhos/cm	Ferr. Fe 1.0 mg/L	CO_2 13 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 41 NTU	ORP NM mV	Alk 75 mg/L
DEPTH TO WATER: T/ NA			ODOR: ☒ None ☐ Other		COLOR: clear with fine tan seds
DEPTH TO BOTTOM: T/			TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1620	360	7.50	39	NM	1.0	1288	11.12	4.60	18.0 ~~initial~~
1625	360	7.48	41	NM	1.0	1282	11.18	4.60	19.8

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081762 DATE SHIPPED: 4/11/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/9/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/9/05	By:	Date:	6527.10

SAMPLE NO.: MW-19-10 Lower WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 1657	DATE: 4/9/05	SAMPLE	TIME: 1727	DATE: 4/9/05
WELL VOLUME: ☒ Gallons ☐ Liters			pH: 7.47 SU	TEMP. 12.18 °C	D.O. 0.8 mg/L
TOTAL VOLUME REMOVED: 13.50 ☐ Gallons ☒ Liters			COND. 1209 µmhos/cm	Ferr. Fe 0.4 mg/L	CO_2 13 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 52 NTU	ORP NM mV	Alk 70 mg/L
DEPTH TO WATER: 4.68 T/OC			ODOR: ☒ None ☐ Other	COLOR: clr w/ wht floati	
DEPTH TO BOTTOM: T/OC +0.1			TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: brown		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1657	450	7.50	1000+	+258	1.0	1280	12.71	4.89	Initial
1708		7.48	381	NM	0.8	1261	12.37	4.95	2.25
1707		7.47	99	NM	0.8	1224	12.26	4.93	4.5
1712		7.48	68	NM	0.8	1214	12.24	4.98	6.75
1717		7.47	56	NM	0.8	1213	12.23	4.95	9.0
1722		7.43	59	NM	0.8	1212	12.21	4.95	11.25
1727		7.47	52	NM	0.8	1209	12.18	4.95	13.50

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED — PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081762 DATE SHIPPED: 4/11/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/9/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/10/05	By: BS	Date: 7-6-05	6527.10

SAMPLE NO.: MW-19-9D WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 650	DATE: 4/10/05	SAMPLE	TIME: ____	DATE: ____
WELL VOLUME: ☒ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: 40.5 ☐ Gallons ☒ Liters			COND. µmhos/cm	Ferr. Fe mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, ~~Bladder~~ Peristaltic			TURBIDITY: NTU	ORP mV	Alk mg/L
DEPTH TO WATER: 6.32 T/ OC			ODOR: ☐ None ☐ Other NA	COLOR:	
DEPTH TO BOTTOM: T/ OC +0.1			TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: tan		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
650	540	7.84	76	@ 21	0.2	470	11.41	6.32	Initial
655		7.87	321	NM	0.1	470	11.49	6.32	2.7
700		7.89	659	NM	0.05	471	11.55	6.32	5.4
705		7.81	707	NM	0.05	472	11.59		8.1
710		7.84	798	NM	0.05	476	11.87		10.8
715		7.85	787	NM	0.05	474	11.83		13.5
720		7.88	520	NM	0.05	474	11.83		16.2
725		7.89	292	NM	0.05	472	11.84		18.9
730		7.89	160	NM	0.05	470	11.87		21.6
735	↓	7.88	133	NM	0.05	470	11.89	↓	24.3

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B - HNO_3 C - H_2SO_4 D - NaOH E - HCl F - $Na_2S_2O_3$

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081762 DATE SHIPPED: 4/11/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: [signature] DATE: 4/10/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/10/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-9D (Cont.) WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: ____	DATE: ____	SAMPLE	TIME: 805	DATE: 4/10/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: 7.91 SU	TEMP. 12.12 °C	D.O. 0.05 mg/L
TOTAL VOLUME REMOVED: ☐ Gallons ☐ Liters			COND. 471 µmhos/cm	Ferr. Fe 710 mg/L	CO_2 18 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 70 NTU	ORP NM mV	Alk 70 mg/L
DEPTH TO WATER: T/ NA			ODOR: ☒ None ☐ Other		COLOR: clr w/ fine tan solids
DEPTH TO BOTTOM: T/			TURBIDITY: ☐ None ☐ Slight ☒ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
740	540	7.90	113	NM	0.05	471	11.92	6.32	27 ~~initial~~
745		7.88	95	NM	0.05	472	12.02		29.7
750		7.92	83	NM	0.05	470	12.06		32.4
755		7.92	77	NM	0.05	470	12.06		35.1
800		7.94	75	NM	0.05	472	12.10		37.8
805		7.91	70	NM	0.05	471	12.12		40.5

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081762 DATE SHIPPED: 4/11/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: Overvoorde DATE: 4/10/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/10/05	By: ES	Date: 7.6.05	6527.10

SAMPLE NO.: MW-19-8 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other

PURGING	TIME: 837	DATE: 4/10/05	SAMPLE	TIME: 922	DATE: 4/10/05
WELL VOLUME: ☒ Gallons ☐ Liters			pH: 7.92 SU	TEMP. 10.82 °C	D.O. 0.8 mg/L
TOTAL VOLUME REMOVED: 18 ☐ Gallons ☒ Liters			COND. 1510 µmhos/cm	Ferr. Fe 6 mg/L	CO_2 19 ppm
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: 47 NTU	ORP NM mV	Alk 70 mg/L
DEPTH TO WATER: 6.72 T/OC			ODOR: ☒ None ☐ Other		COLOR: clr w/ seds
DEPTH TO BOTTOM: 19.54 T/OC +0.1			TURBIDITY: ☐ None ☒ Slight ☐ Moderate ☐ Very		
ODOR: ☒ None ☐ Other	COLOR: tan		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☒ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
837	400	7.92	200	@261	1.0	1100	10.54	6.72	Initial
842		7.92	121	NM	0.8	1242	10.48	6.78	2
847		7.90	92	NM	0.8	1333	10.53	6.88	4
852		7.91	93	NM	0.8	1394	10.56	6.88	6
857		7.93	92	NM	0.8	1401	10.58	6.88	8
902		7.92	67	NM	0.6	1437	10.70	6.88	10
907		7.92	69	NM	0.6	1464	10.73	6.88	12
912		7.93	53	NM	0.6	1496	10.77	6.88	14
917		7.94	52	NM	0.6	1500	10.82	6.88	16
922		7.92	47	NM	0.8	1510	10.82	6.89	18

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	☐Y ☒N	2	1000 mL	Glass	C	☐Y ☒N
1	40 mL	Glass	A	☐Y ☒N	2	1000 mL	Amber	F	☐Y ☒N
1	40 mL	Glass	C	☐Y ☒N	2	1000 mL	Plastic	A	☐Y ☒N
1	120 mL	Plastic	F	☐Y ☒N					

CHAIN-OF-CUSTODY NUMBER: 0081762 DATE SHIPPED: 4/11/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: J Overmoorde DATE: 4/10/05

RMT

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 4/10/05	By: ES	Date: 6.7.05	6527.10

SAMPLE NO.: Rinsate Blank WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other ____

WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☒ Other

PURGING	TIME: ____	DATE: ____	SAMPLE	TIME: 1115	DATE: 4/10/05
WELL VOLUME: ☐ Gallons ☐ Liters			pH: SU	TEMP. °C	D.O. mg/L
TOTAL VOLUME REMOVED: ☐ Gallons ☐ Liters			COND. µmhos/cm	Ferr/Fe mg/L	CO_2
METHOD: ☐ Bailer, ☒ Pump, Bladder			TURBIDITY: NTU	ORP mV	Alk mg/L
DEPTH TO WATER: T/			ODOR: ☐ None ☐ Other		COLOR:
DEPTH TO BOTTOM: T/			TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very		
ODOR: ☐ None ☐ Other	COLOR:		FILTRATE (0.45 µm) ☐ Yes ☒ No		
TURBIDITY: ☐ None ☐ Slight ☐ Moderate ☐ Very			ODOR: ☐ None ☐ Other		
COMMENTS:			COLOR:		
DISPOSAL METHOD: ☐ Ground ☒ Drum ☐ Other			COMMENTS:		

NA

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
									Initial

NA

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/-5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B – HNO_3 C - H_2SO_4 D - NaOH E - HCl F- $Na_2S_2O_3$						
Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
5	40 mL	Glass	E	☐Y ☒ N	2	1000 mL	Glass	C	☐Y ☒ N
1	40 mL	Glass	A	☐Y ☒ N	2	1000 mL	Amber	F	☐Y ☒ N
1	40 mL	Glass	C	☐Y ☒ N	2	1000 mL	Plastic	A	☐Y ☒ N
1	120 mL	Plastic	F	☐Y ☒ N					

CHAIN-OF-CUSTODY NUMBER: 0081762 DATE SHIPPED: 4/11/05 METHOD: Lab Courier

AIRBILL NUMBER: NA SIGNED: J Overcarde DATE: 4/10/05

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
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For Lancaster Laboratories use only

Acct. #_____ Group#_____ Sample #_____

COC # 0081757

Please print. Instructions on reverse side correspond with circled numbers.

(1)

Client: RMT, Inc. Acct. #:

Project Name/#: LE Carpenter 6/27/10 PWSID #:

Project Manager: Nick Clevelt P.O.#:

Sampler: J. Overcarde Quote #:

Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #: 1201737

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (☐ Potable ☐ NPDES Check if Applicable)	Other	Total # of Containers	NH_3	8015B	NO_2	NO_3	TP	BTEX	SPC	EPA 625	SO_4, TSS, TDS	Remarks	Temperature of samples upon receipt (if requested)
MW-19-11 Lower	4/7/05	1130	X			X		14	X	X	X	X	X	X	X	X	X		
MW-19-11 Upper	4/7/05	1315	X			X		14	↓	↓	↓	↓	↓	↓	↓	↓	↓		
MW-19-7 Upper	4/7/05	1550	X			X		14	↓	↓	↓	↓	↓	↓	↓	↓	↓		
MW-19-7 Lower	4/7/05	1725	X			X		14	↓	↓	↓	↓	↓	↓	↓	↓	↓		

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: _____
Rush results requested by (please circle): Phone Fax E-mail
Phone #: _____ Fax #: _____
E-mail address: _____

(8) **Data Package Options** (please circle if required)

QC Summary — Type VI (Raw Data) — SDG Complete? Yes No
Type I (Tier I) — GLP
Type II (Tier II) — Other
Type III (NJ Red. Del.)
Type IV (CLP)

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	4/5/05	11:50	J. Overcarde	4/6/05	
J. Overcarde	4/7/05	18:00	Fed Ex		

Analysis Request / Environmental Services Chain of Custody

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Acct. #_____ Group#_____ Sample #_____

COC # 0081760

Please print. Instructions on reverse side correspond with circled numbers.

(1)

Client: RMT, Inc. Acct. #:

Project Name/#: L E Carpenter 6527.10 PWSID #:

Project Manager: N. Clevett P.O.#:

Sampler: J. Overvoorde Quote #:

Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #:

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (☐ Potable ☐ NPDES Check if Applicable)	Other	Total # of Containers	NH3	8015B	NO2	NO3	TP	BTEX	SPC	EPA 625	SO4, TSS, TDS	Remarks	Temperature of samples upon receipt (if requested)
MW-19 Upper	4/8/05	8:15	X			X		14	X	X	X	X	X	X	X	X	X		
Atm Blank	4/8/05	8:50	X			X		14	X	X	X	X	X	X	X	X	X		
Trip Blank						X		1						X					

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
QC Summary
Type I (Tier I)
Type II (Tier II)
Type III (NJ Red. Del.)
Type IV (CLP)
Type VI (Raw Data)
GLP
Other

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
J Overvoorde	4/8/05	942	Jay Clarke	4/8/05	0942

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only

Acct. #_____ Group#_____ Sample # _____

COC # 0081763

Please print. Instructions on reverse side correspond with circled numbers.

(1)

Client: RMT, Inc. Acct. #:

Project Name/#: LE Carpenter 6527.10 PWSID #:

Project Manager: N Clevett P.O.#:

Sampler: J. Overvoorde Quote #:

Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #:

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (Potable / NPDES)	Other	Total # of Containers	NH3	8015B	NO2	NO3	TP	BTEX	SPC (Heterotrophic Plate Count)	EPA 625 (DEHP)	SO4, TSS, TDS	Remarks	Temperature of samples upon receipt (if requested)
MW-19 Lower	4/1/05	10:00	X			X		14	X	X	X	X	X	X	X	X	X		
MW-19-1 Upper		12:28																	
MW 17-1 Lower		15:20																	
MW-19-2 Upper		17:10																	
MW-19-2 Lower		18:45																	
Dup-01																			
Ditch-1		13:20				10		5						X		X			
Ditch 3		13:40				10		5						X		X			
Trip Blank						X		1						X					

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
J Overvoorde	4/8/05	1920			

Analysis Request / Environmental Services Chain of Custody

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For Lancaster Laboratories use only

Acct. #_____ Group#_____ Sample # _____

COC # 0081764

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: RMT, Inc. Acct. #: _____
Project Name/#: LE Carpenter 6527.10 PWSID #: _____
Project Manager: N. Clevett P.O.#: _____
Sampler: J. Overvoorde Quote #: _____
Name of state where samples were collected: NJ

For Lab Use Only
FSC: _____
SCR #: _____

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Matrix (4) Soil	Water (☐ Potable ☐ NPDES Check if Applicable)	Other	Total # of Containers	(5) Analyses Requested: NH3	8015B	NO2	NO3	TP	BTEX	SPC	EPA 625	SO4, TSS, TDS	Remarks	(6) Temperature of samples upon receipt (if requested)
MW-19-5 Upper	4/9/05	845	X			X		14	X	X	X	X	X	X	X	X	X		
MW-19-5 Lower	↓	1015	↓			↓		14	X								→		
MW-19-6 Upper		1150						14	X								→		
MW-19-6 Lower		1325						14	X								→		
MW-19-5 Lower MS/MSD	↓	1015	↓			↓		9	X	X		X		X		X			
trip blank																			

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: _____
Rush results requested by (please circle): Phone Fax E-mail
Phone #: _____ Fax #: _____
E-mail address: _____

(8) **Data Package Options** (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
J. Overvoorde	4/8/05	1415	L. Smoker	4/9/05	14:15

Analysis Request / Environmental Services Chain of Custody

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Acct. #_____ Group#_____ Sample #_____

COC # 0081762

Please print. Instructions on reverse side correspond with circled numbers.

(1)

Client: RMT, Inc. Acct. #:

Project Name/#: LE Carpenter 6527.10 PWSID #:

Project Manager: N. Clevett P.O.#:

Sampler: J. Overvoorde Quote #:

Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #:

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	NH_3	8015B	NO_2	NO_3	TP	BTEX	SPC	EPA 625	SO4, TSS, TDS	Remarks
MW-19-10 Upper	1/9/05	16:25	X			X		14	X	X	X	X	X	X	X	X	X	
MW-19-10 Lower	1/9/05	17:27	↓			↓		14	X								→	
MW-19-9D	1/10/05	8:05	↓			↓		5						X		X		only BTEX, DEHP
MW-19-8	↓	9:22	↓			↓		14	X	X	X	X	X	X	X	X	X	
Rinsate Blank	↓	11:15	↓			↓		14	X								→	
Trip blank						↓		1						X				

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
J Overvoorde	1/9/05				

Appendix C
2nd Quarter 2005
Laboratory Analytical Report

Lancaster Laboratories

June 24, 2005

Mr. Nicholas J. Clevett
RMT, Inc
Suite 402
2025 East Beltline Avenue, SE
Grand Rapids, MI 49546

Dear Mr. Clevett:

Subject: L.E. Carpenter, NJ Project

During the data review for the analysis EPA 300.0 Anions by Ion Chromatography, we discovered an error in the calibration file used during the analysis. The error impacts the sulfate results for Lancaster Laboratories' Sample Nos. 4499939–4499940 and 4499942–4499943, submitted April 11, 2005. The error was with the concentration assigned to one of the five calibration standards (*Cal 1* below) that had been incorporated into the calibration file for sulfate.

The correct values for the calibration standard concentrations are:

Standard	Sulfate (mg/L)	
	Original	Corrected
Cal 1	***1.0***	***0.5***
Cal 2	2.0	
Cal 3	5.0	
Cal 4	10.0	
Cal 5	15.0	

As shown above, the Cal 1 standard for sulfate was prepared at the concentration of 0.5 mg/L; however, it was identified as being at a concentration of 1.0 mg/L in the calibration. This resulted in reported data for sulfate that was incorrectly calculated with a slightly high bias. We have corrected the calibration file and recalculated the sample results and corresponding QC. All of the QC associated with the sample was within specifications after the recalculation.

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

Shipping Address:
Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601

The values for sulfate for the samples affected are listed below:

LL#	Sample Designation	Original SO_4 (mg/L)	Corrected SO_4 (mg/L)
4499939	MW-19-10 Upper Grab Water Sample	18.3	17.5
4499940	MW-19-10 Lower Grab Water Sample	18.1	17.3
4499942	MW-19-8 Grab Water Sample	23.7	23.0
4499943	Rinsate Blank Grab Water Sample	ND (MDL =0.3)	ND (MDL =0.3)

I apologize for the inconvenience this has caused. If you have any questions, please contact me at 717-656-2300, Ext. 1516.

Sincerely,

Michele M. Turner

Michele M. Turner, B.A.
Director
Environmental Sciences

MMT/mcs
Enclosures

cc: Barb Weyandt

Lancaster Laboratories

REVISED

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 938868. Samples arrived at the laboratory on Monday, April 11, 2005. The PO# for this group is 6527.10.

Client Description	Lancaster Labs Number
MW-19-10 Upper Grab Water Sample	4499939
MW-19-10 Lower Grab Water Sample	4499940
MW-19-9D Grab Water Sample	4499941
MW-19-8 Grab Water Sample	4499942
Rinsate Blank Grab Water Sample	4499943
Trip Blank Water Sample	4499944

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO RMT, Inc. Attn: Nicholas J. Clevett
1 COPY TO Data Package Group

Lancaster Laboratories

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Robert G. Heisey

Robert G. Heisey
Group Leader

MEMBER ACIL

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

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499939

MW-19-10 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 16:25 by JO

Account Number: 09322

Submitted: 04/11/2005 15:15
Reported: 06/20/2005 at 09:06
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

1910U SDG#: LEC43-01

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	93.		1.	cfu/ml	n.a.
	The sample was plated by Earl Custer on 04/11/05 at 17:15.						
00206	Total Suspended Solids	n.a.	32.0		3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	691.		19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.12	J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.080	mg/l	1
00228	Sulfate	14808-79-8	17.5		1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	48.		2.0	ug/l	1
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
07109	Propane	74-98-6	N.D.		1.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/13/2005 18:05	Earl R Custer	n.a.

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499939

MW-19-10 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 16:25 by JO

Account Number: 09322

Submitted: 04/11/2005 15:15
Reported: 06/20/2005 at 09:06
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

1910U SDG#: LEC43-01

00206	Total Suspended Solids	EPA 160.2	1	04/13/2005 08:41	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/14/2005 07:41	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 16:02	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/20/2005 11:19	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/14/2005 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:20	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/13/2005 14:23	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 01:26	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/17/2005 08:58	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/15/2005 21:42	Brian K Graham	1
[illegible]8108	625 Water Extraction	EPA 625	1	04/12/2005 12:30	Andrew G Newton	1
[illegible]8263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

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717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499940

MW-19-10 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 17:27 by JO

Account Number: 09322

Submitted: 04/11/2005 15:15
Reported: 06/20/2005 at 09:07
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

1910L SDG#: LEC43-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	170.	1.	cfu/ml	n.a.
	The sample was plated by Earl Custer on 04/11/05 at 17:15.					
00206	Total Suspended Solids	n.a.	32.4	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	653.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	17.3	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	48.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/13/2005 18:05	Earl R Custer	n.a.

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Lancaster, PA 17605-2425
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Analysis Report

Lancaster Laboratories

REVISED

Lancaster Laboratories Sample No. WW 4499941

MW-19-9D Grab Water Sample
L.E. Carpenter, NJ

Collected:04/10/2005 08:05 by JO

Account Number: 09322

Submitted: 04/11/2005 15:15
Reported: 06/20/2005 at 09:07
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

199DL SDG#: LEC43-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	04/17/2005 10:09	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/15/2005 23:32	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/12/2005 12:30	Andrew G Newton	1

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717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499942

MW-19-8 Grab Water Sample
L.E. Carpenter, NJ

Collected:04/10/2005 09:22 by JO

Account Number: 09322

Submitted: 04/11/2005 15:15
Reported: 06/20/2005 at 09:07
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

198LC SDG#: LEC43-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	270.	1.	cfu/ml	n.a.
	The sample was plated by Earl Custer on 04/11/05 at 17:15.					
00206	Total Suspended Solids	n.a.	20.0	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	796.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	23.0	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	5.3	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/13/2005 18:05	Earl R Custer	n.a.

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499942

MW-19-8 Grab Water Sample
L.E. Carpenter, NJ

Collected:04/10/2005 09:22 by JO

Account Number: 09322

Submitted: 04/11/2005 15:15
Reported: 06/20/2005 at 09:07
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

198LC SDG#: LEC43-04

00206	Total Suspended Solids	EPA 160.2	1	04/13/2005 08:41	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/14/2005 07:41	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 16:04	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/20/2005 11:26	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/14/2005 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:34	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/13/2005 15:16	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 01:50	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/17/2005 10:44	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/16/2005 03:07	Brian K Graham	1
[illegible]108	625 Water Extraction	EPA 625	1	04/12/2005 12:30	Andrew G Newton	1
[illegible]263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 15:50	Nancy J Shoop	1

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

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499943

Rinsate Blank Grab Water Sample
L.E. Carpenter, NJ

Collected:04/10/2005 11:15 by JO

Account Number: 09322

Submitted: 04/11/2005 15:15
Reported: 06/20/2005 at 09:07
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

RBLLC SDG#: LEC43-05RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	2.	1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.					
	The sample was plated by Earl Custer on 04/11/05 at 17:15.					
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	N.D.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.	0.30	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499943

Rinsate Blank Grab Water Sample
L.E. Carpenter, NJ

Collected:04/10/2005 11:15 by JO

Account Number: 09322

Submitted: 04/11/2005 15:15
Reported: 06/20/2005 at 09:07
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

RBLLC SDG#: LEC43-05RB

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/13/2005 18:05	Earl R Custer	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/13/2005 08:41	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/14/2005 07:41	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 16:08	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/20/2005 11:27	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/14/2005 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:37	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/13/2005 15:56	Shannon L Phillips	1
00105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 02:14	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/17/2005 08:23	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/16/2005 04:02	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/12/2005 12:30	Andrew G Newton	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 15:50	Nancy J Shoop	1

Analysis Report

Lancaster Laboratories

REVISED

Lancaster Laboratories Sample No. WW 4499944

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 04/11/2005 15:15
Reported: 06/20/2005 at 09:07
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

TBLLC SDG#: LEC43-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	04/17/2005 07:42	K. Robert Caulfeild-James	1

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:07 AM

Group Number: 938868

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05101105101A	Sample number(s): 4499939-4499940							
Nitrite Nitrogen	N.D.	0.015	mg/l	101		90-110		
Batch number: 05101105101B	Sample number(s): 4499942-4499943							
Nitrite Nitrogen	N.D.	0.015	mg/l	101		90-110		
Batch number: 05102109101B	Sample number(s): 4499939-4499940							
Total Phosphorus as P (water)	N.D.	0.080	mg/l	96		89-110		
Batch number: 05102109102A	Sample number(s): 4499942-4499943							
Total Phosphorus as P (water)	N.D.	0.080	mg/l	95		89-110		
Batch number: 05102401101B	Sample number(s): 4499939-4499940,4499942-4499943							
Sulfate	N.D.	0.30	mg/l	98		89-110		
Batch number: 05102WAD625	Sample number(s): 4499939-4499943							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	103	99	68-111	4	30
Batch number: 051030028A	Sample number(s): 4499939-4499940,4499942-4499943							
Methane	N.D.	2.0	ug/l	95		80-120		
Ethane	N.D.	1.0	ug/l	95		80-120		
Ethene	N.D.	1.0	ug/l	95		80-120		
Propane	N.D.	1.0	ug/l	89		80-120		
Batch number: 05103020602B	Sample number(s): 4499939-4499940,4499942-4499943							
Total Suspended Solids	N.D.	3.0	mg/l	87		55-132		
Batch number: 05104021201A	Sample number(s): 4499939-4499940,4499942-4499943							
Total Dissolved Solids	N.D.	9.7	mg/l	98		80-120		
Batch number: 05104022101A	Sample number(s): 4499939-4499940,4499942-4499943							
Ammonia Nitrogen	N.D.	0.11	mg/l	97	97	91-100	0	1
Batch number: 05106A36B	Sample number(s): 4499939-4499944							
Total Xylenes	N.D.	0.6	ug/l	109	109	82-120	1	30
Benzene	N.D.	0.2	ug/l	109	110	86-119	0	30
Toluene	N.D.	0.2	ug/l	107	108	82-119	1	30

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

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:07 AM

Group Number: 938868

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylbenzene	N.D.	0.2	ug/l	109	110	81-119	1	30
Batch number: 05110106101A	Sample number(s): 4499939-4499940,4499942-4499943							
Nitrate Nitrogen	N.D.	0.040	mg/l	97		89-110		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05101105101A	Sample number(s): 4499939-4499940								
Nitrite Nitrogen	102		90-110			N.D.	N.D.	200* (1)	20
Batch number: 05101105101B	Sample number(s): 4499942-4499943								
Nitrite Nitrogen	94		90-110			N.D.	N.D.	0 (1)	20
Batch number: 05102109101B	Sample number(s): 4499939-4499940								
Total Phosphorus as P (water)	112*		90-110			N.D.	N.D.	0 (1)	3
Batch number: 05102109102A	Sample number(s): 4499942-4499943								
Total Phosphorus as P (water)	104		90-110			N.D.	N.D.	25* (1)	3
Batch number: 05102401101B	Sample number(s): 4499939-4499940,4499942-4499943								
Sulfate	92		90-110			17.5	17.1	2 (1)	3
Batch number: 051030028A	Sample number(s): 4499939-4499940,4499942-4499943								
Methane	82	80	63-120	1	20				
Ethane	90	85	69-118	6	20				
Ethene	90	85	67-125	6	20				
Propane	85	80	54-127	6	20				
Batch number: 05103020602B	Sample number(s): 4499939-4499940,4499942-4499943								
Total Suspended Solids						673.	713.	6 (1)	24
Batch number: 05104021201A	Sample number(s): 4499939-4499940,4499942-4499943								
Total Dissolved Solids	99	100	60-140	0	5	1,100.	1,090.	1	5
Batch number: 05104022101A	Sample number(s): 4499939-4499940,4499942-4499943								
Ammonia Nitrogen						3.7	3.7	1	2
Batch number: 05106A36B	Sample number(s): 4499939-4499944								
Total Xylenes	116		78-130						
Benzene	115		78-131						
Toluene	114		78-129						
Ethylbenzene	116		75-133						

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

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:07 AM

Group Number: 938868

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05110106101A	Sample number(s): 4499939-4499940,4499942-4499943								
Nitrate Nitrogen	105		90-110			N.D.	N.D.	0 (1)	2

Surrogate Quality Control

Analysis Name: Base Neutrals
Batch number: 05102WAD625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4499939	80	83	115
4499940	80	85	115
4499941	83	85	110
4499942	78	79	116
4499943	75	82	121
Blank	82	81	114
LCS	84	93	120
LCSD	84	88	118
Limits:	48-117	62-111	45-132

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 051030028A

	Propene
4499939	98
4499940	90
4499942	90
4499943	81
Blank	106
LCS	102
MS	86
MSD	83
Limits:	64-126

Analysis Name: BTEX (EPA 602)
Batch number: 05106A36B

	Trifluorotoluene-P
4499939	100
4499940	100
4499941	101
4499942	100

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

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:07 AM

Group Number: 938868

Surrogate Quality Control

4499943	100
4499944	100
Blank	101
LCS	99
LCSD	99
MS	100
Limits:	69-137

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

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Lancaster Laboratories

June 24, 2005

Mr. Nicholas J. Clevett
RMT, Inc.
Suite 402
2025 East Beltline Avenue, SE
Grand Rapids, MI 49546

Dear Mr. Clevett:

Subject: L.E. Carpenter, NJ Project

During the data review for the analysis EPA 300.0 Anions by Ion Chromatography, we discovered an error in the calibration file used during the analysis. The error impacts the sulfate results for Lancaster Laboratories' Sample Nos. 4499323–4499328, submitted April 9, 2005. The error was with the concentration assigned to one of the five calibration standards (*Cal 1* below) that had been incorporated into the calibration file for sulfate.

The correct values for the calibration standard concentrations are:

Standard	Sulfate (mg/L)	
	Original	Corrected
Cal 1	***1.0***	***0.5***
Cal 2	2.0	
Cal 3	5.0	
Cal 4	10.0	
Cal 5	15.0	

As shown above, the Cal 1 standard for sulfate was prepared at the concentration of 0.5 mg/L; however, it was identified as being at a concentration of 1.0 mg/L in the calibration. This resulted in reported data for sulfate that was incorrectly calculated with a slightly high bias. We have corrected the calibration file and recalculated the sample result and corresponding QC. During the recalculation the Continuing Calibration Verification standard (CCV) for sulfate associated with the samples was below the acceptance criteria of 90% to 110% and the samples were reanalyzed for sulfate on April 28, 2005 and April 29, 2005. All of the other QC associated with the samples remained within their acceptance criteria after the correction was made.

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www.lancasterlabs.com

Shipping Address:
Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601

The values for sulfate for the samples affected are listed below:

LL#	Sample Designation	Original SO_4 (mg/L)	Corrected SO_4 (mg/L)
4499323	MW-19 Lower Grab Water Sample	33.3	34.8
4499324	MW-19-1 Upper Grab Water Sample	32.9	34.6
4499325	MW-19-1 Lower Grab Water Sample	34.6	35.7
4499326	MW-19-2 Upper Grab Water Sample	29.3	30.5
4499327	MW-19-2 Lower Grab Water Sample	29.6	31.1
4499328	DUP-01 Grab Water Sample	33.7	35.6

I apologize for the inconvenience this has caused. If you have any questions, please contact me at 717-656-2300, Ext. 1516.

Sincerely,

Michele M. Turner

Michele M. Turner, B.A.
Director
Environmental Sciences

MMT/mcs
Enclosures

cc: Barb Weyandt

Lancaster Laboratories

REVISED

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 938760. Samples arrived at the laboratory on Saturday, April 09, 2005. The PO# for this group is 6527.10.

Client Description	Lancaster Labs Number
MW-19 Lower Grab Water Sample	4499323
MW-19-1 Upper Grab Water Sample	4499324
MW-19-1 Lower Grab Water Sample	4499325
MW-19-2 Upper Grab Water Sample	4499326
MW-19-2 Lower Grab Water Sample	4499327
DUP-01 Grab Water Sample	4499328
Ditch-1 Grab Water Sample	4499329
Ditch-3 Grab Water Sample	4499330
Trip Blank Water Sample	4499331

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO	RMT, Inc.	Attn: Nicholas J. Clevett
1 COPY TO	Data Package Group	

Lancaster Laboratories

REVISED

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Robert G. Heisey

Robert G. Heisey
Group Leader

MEMBER ACIL

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

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499323

MW-19 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 10:00 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

LMW19 SDG#: LEC42-09

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	390.		1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.						
	Sample was greater than 24 hours old when analyzed.						
	The sample was plated by Nicole Ortmann on 4-9-05 by 1130.						
00206	Total Suspended Solids	n.a.	10.8	J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	413.		9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	0.056		0.015	mg/l	1
	Matrix QC was performed on this sample for the nitrite-nitrogen analysis. Please see the attached QC Summary report for the parameter showing a matrix bias.						
00220	Nitrate Nitrogen	14797-55-8	2.8		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.		0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.080	mg/l	1
00228	Sulfate	14808-79-8	34.8		1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	3.0	J	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
07109	Propane	74-98-6	N.D.		1.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	530.		3.0	ug/l	5
07029	Benzene	71-43-2	N.D.		1.0	ug/l	5
07030	Toluene	108-88-3	1,300.		1.0	ug/l	5
07031	Ethylbenzene	100-41-4	97.		1.0	ug/l	5
	Due to dilution of the sample made necessary by the high level of Toluene, normal reporting limits were not attained.						
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	3.	J	1.	ug/l	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499323

MW-19 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 10:00 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

LMW19 SDG#: LEC42-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 11:20	Nicole M Ortmann	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/09/2005 11:16	William L Hamaker Jr	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 10:58	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:31	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/28/2005 23:29	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/13/2005 19:40	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/14/2005 19:31	K. Robert Caulfeild-James	5
00553	Base Neutrals	EPA 625	1	04/13/2005 12:08	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499324

MW-19-1 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 12:28 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

UM191 SDG#: LEC42-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	350.	1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.					
	The sample was plated by Nicole Ortmann on 4-9-05 by 1130.					
00206	Total Suspended Solids	n.a.	3.2 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,430.	38.8	mg/l	1
	Matrix QC was performed on this sample for the TDS analysis. Please see the attached QC Summary report for the parameter showing a matrix bias.					
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	2.8	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	34.6	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499324

MW-19-1 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 12:28 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

UM191 SDG#: LEC42-10

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 11:20	Nicole M Ortmann	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/09/2005 11:22	William L Hamaker Jr	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 10:59	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:05	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/28/2005 23:44	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/13/2005 19:52	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/13/2005 20:12	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/13/2005 13:04	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499325

MW-19-1 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 15:20 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

LM191 SDG#: LEC42-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	410.	1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.					
	The sample was plated by Nicole Ortmann on 4-9-05 by 1130.					
00206	Total Suspended Solids	n.a.	16.4	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,440.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	2.9	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	35.7	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499325

MW-19-1 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 15:20 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

LM191 SDG#: LEC42-11

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 11:20	Nicole M Ortmann	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/09/2005 11:23	William L Hamaker Jr	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:00	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:06	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/28/2005 23:59	Shannon L Phillips	5
105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/13/2005 20:03	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/13/2005 20:47	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/13/2005 14:00	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499326

MW-19-2 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 17:10 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

UM192 SDG#: LEC42-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	150.	1.	cfu/ml	n.a.
	The plating was performed by Nicole Ortmann on 040905 by 1230.					
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	750.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.64	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	30.5	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 11:20	Nicole M Ortmann	n.a.

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499326

MW-19-2 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 17:10 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
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Madison WI 53708-8923

UM192 SDG#: LEC42-12

00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/09/2005 11:24	William L Hamaker Jr	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:06	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:07	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/29/2005 00:14	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/13/2005 20:15	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/13/2005 21:22	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/13/2005 14:56	Brian K Graham	1
[illegible]8108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
[illegible]263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499327

MW-19-2 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 18:45 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

LM192 SDG#: LEC42-13

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	160.		1.	cfu/ml	n.a.
	The sample was plated by Nicole Ortmann on 4-9-05 by 1130.						
00206	Total Suspended Solids	n.a.	11.6	J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	780.		19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
	This sample was analyzed past the 48 hour hold time for nitrite nitrogen.						
00220	Nitrate Nitrogen	14797-55-8	0.62		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.17	J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.080	mg/l	1
00228	Sulfate	14808-79-8	31.1		1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	N.D.		2.0	ug/l	1
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
07109	Propane	74-98-6	N.D.		1.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499327

MW-19-2 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 18:45 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
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LM192 SDG#: LEC42-13

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 11:20	Nicole M Ortmann	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 09:20	Nicole M Kepley	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:10	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:08	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/29/2005 00:29	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/13/2005 20:27	Robert I Pusch	1
8238	BTEX (EPA 602)	EPA 602	1	04/13/2005 23:42	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/13/2005 15:52	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499328

DUP-01 Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

DUP1L SDG#: LEC42-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	150.	1.	cfu/ml	n.a.
	The sample was plated by Nicole Ortmann on 4-9-05 by 1130.					
00206	Total Suspended Solids	n.a.	6.8 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,570.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	3.1	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	35.6	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499328

DUP-01 Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
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DUP1L SDG#: LEC42-14

00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 11:20	Nicole M Ortmann	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/09/2005 11:26	William L Hamaker Jr	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:11	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:10	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/29/2005 00:44	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/13/2005 20:39	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/14/2005 00:17	K. Robert Caulfeild-James	1
[illegible]553	Base Neutrals	EPA 625	1	04/13/2005 16:48	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

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Analysis Report

Lancaster Laboratories

REVISED

Lancaster Laboratories Sample No. WW 4499329

Ditch-1 Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 13:20 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

DITC1 SDG#: LEC42-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	04/14/2005 00:52	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/13/2005 17:43	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1

Analysis Report

Lancaster Laboratories

REVISED

Lancaster Laboratories Sample No. WW 4499330

Ditch-3 Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 13:40 by JO

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

DITC2 SDG#: LEC42-16

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	79.		0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	21.		0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	2.	J	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	04/14/2005 01:27	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/13/2005 18:38	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499331

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 04/09/2005 09:50
Reported: 06/20/2005 at 09:03
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

TBLEC SDG#: LEC42-17TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	04/13/2005 17:52	K. Robert Caulfeild-James	1

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717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 938760
Reported: 06/20/05 at 09:03 AM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05099105102A	Sample number(s): 4499323-4499326,4499328							
Nitrite Nitrogen	N.D.	0.015	mg/l	104		90-110		
Batch number: 05101105101A	Sample number(s): 4499327							
Nitrite Nitrogen	N.D.	0.015	mg/l	101		90-110		
Batch number: 05101WAA625	Sample number(s): 4499323-4499330							
Bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	93		68-111		
Batch number: 05102020601B	Sample number(s): 4499323-4499328							
Total Suspended Solids	N.D.	3.0	mg/l	79		55-132		
Batch number: 05102021201A	Sample number(s): 4499323-4499328							
Total Dissolved Solids	N.D.	9.7	mg/l	98		80-120		
Batch number: 05102022101A	Sample number(s): 4499323-4499328							
Ammonia Nitrogen	N.D.	0.11	mg/l	96		91-100		
Batch number: 05102109101A	Sample number(s): 4499323-4499324							
Total Phosphorus as P (water)	N.D.	0.080	mg/l	96		89-110		
Batch number: 05102109101B	Sample number(s): 4499325-4499328							
Total Phosphorus as P (water)	N.D.	0.080	mg/l	96		89-110		
Batch number: 05102401101A	Sample number(s): 4499323-4499328							
Sulfate	N.D.	0.30	mg/l	98		89-110		
Batch number: 051030027A	Sample number(s): 4499323-4499328							
Methane	N.D.	2.0	ug/l	93		80-120		
Ethane	N.D.	1.0	ug/l	93		80-120		
Ethene	N.D.	1.0	ug/l	92		80-120		
Propane	N.D.	1.0	ug/l	88		80-120		
Batch number: 05103A36A	Sample number(s): 4499324-4499331							
Total Xylenes	N.D.	0.6	ug/l	96	108	82-120	12	30
Benzene	N.D.	0.2	ug/l	96	108	86-119	12	30
Toluene	N.D.	0.2	ug/l	98	111	82-119	12	30

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

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Quality Control Summary

Client Name: RMT, Inc. Group Number: 938760
Reported: 06/20/05 at 09:03 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylbenzene	N.D.	0.2	ug/l	96	108	81-119	12	30
Batch number: 05104A36A	Sample number(s): 4499323							
Total Xylenes	N.D.	0.6	ug/l	107	105	82-120	2	30
Benzene	N.D.	0.2	ug/l	106	103	86-119	2	30
Toluene	N.D.	0.2	ug/l	105	103	82-119	2	30
Ethylbenzene	N.D.	0.2	ug/l	107	105	81-119	2	30
Batch number: 05108106102A	Sample number(s): 4499323							
Nitrate Nitrogen	N.D.	0.040	mg/l	106		89-110		
Batch number: 05108106102B	Sample number(s): 4499324-4499328							
Nitrate Nitrogen	N.D.	0.040	mg/l	106		89-110		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05099105102A	Sample number(s): 4499323-4499326,4499328								
Nitrite Nitrogen	115*		90-110			0.056	0.055	2 (1)	20
Batch number: 05101105101A	Sample number(s): 4499327								
Nitrite Nitrogen	102		90-110			N.D.	N.D.	200* (1)	20
Batch number: 05101WAA625	Sample number(s): 4499323-4499330								
bis(2-Ethylhexyl)phthalate	94	94	69-111	0	30				
Batch number: 05102020601B	Sample number(s): 4499323-4499328								
Total Suspended Solids						22.4	28.8	25* (1)	24
Batch number: 05102021201A	Sample number(s): 4499323-4499328								
Total Dissolved Solids	99	122	60-140	8*	5	1,430.	1,450.	2	5
Batch number: 05102022101A	Sample number(s): 4499323-4499328								
Ammonia Nitrogen	99	100	64-128	1	8	N.D.	N.D.	0 (1)	2
Batch number: 05102109101A	Sample number(s): 4499323-4499324								
Total Phosphorus as P (water)	106		90-110			N.D.	N.D.	200* (1)	3
Batch number: 05102109101B	Sample number(s): 4499325-4499328								
Total Phosphorus as P (water)	112*		90-110			N.D.	N.D.	0 (1)	3
Batch number: 05102401101A	Sample number(s): 4499323-4499328								
Sulfate	91		90-110			11.1	10.9	1 (1)	3

*- Outside of specification
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( ) The background result was more than four times the spike added.

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:03 AM

Group Number: 938760

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 051030027A	Sample number(s): 4499323-4499328								
Methane	83	70	63-120	8	20				
Ethane	65*	98	69-118	41*	20				
Ethene	66*	103	67-125	44*	20				
Propane	61	94	54-127	43*	20				
Batch number: 05103A36A	Sample number(s): 4499324-4499331								
Total Xylenes	111	108	78-130	2	30				
Benzene	112	112	78-131	0	30				
Toluene	(2)	(2)	78-129	4	30				
Ethylbenzene	112	111	75-133	1	30				
Batch number: 05104A36A	Sample number(s): 4499323								
Total Xylenes	114		78-130						
Benzene	116		78-131						
Toluene	115		78-129						
Ethylbenzene	115		75-133						
Batch number: 05108106102A	Sample number(s): 4499323								
Nitrate Nitrogen	117*		90-110			N.D.	N.D.	0 (1)	2
Batch number: 05108106102B	Sample number(s): 4499324-4499328								
Nitrate Nitrogen	117*		90-110			N.D.	N.D.	64* (1)	2

Surrogate Quality Control

Analysis Name: Base Neutrals
Batch number: 05101WAA625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4499323	83	91	100
4499324	86	89	113
4499325	87	89	113
4499326	87	91	107
4499327	84	90	107
4499328	83	89	108
4499329	85	89	96
4499330	82	88	104
Blank	84	91	109
LCS	90	88	110
MS	85	89	98
MSD	90	87	102

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

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:03 AM

Group Number: 938760

Surrogate Quality Control

Limits: 48-117 62-111 45-132

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 051030027A

	Propene
4499323	97
4499324	95
4499325	91
4499326	89
4499327	90
4499328	97
Blank	97
LCS	98
MS	67
MSD	84
Limits:	64-126

Analysis Name: BTEX (EPA 602)
Batch number: 05103A36A

	Trifluorotoluene-P
4499324	100
4499325	100
4499326	100
4499327	100
4499328	99
4499329	101
4499330	98
4499331	100
Blank	100
LCS	98
LCSD	99
MS	100
MSD	99
Limits:	69-137

Analysis Name: BTEX (EPA 602)
Batch number: 05104A36A

	Trifluorotoluene-P
4499323	100
Blank	98
LCS	99
LCSD	99
MS	100
Limits:	69-137

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

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:03 AM

Group Number: 938760

Surrogate Quality Control

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

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Lancaster Laboratories

June 24, 2005

Mr. Nicholas J. Clevett
RMT, Inc
Suite 402
2025 East Beltline Avenue, SE
Grand Rapids, MI 49546

Dear Mr. Clevett:

Subject: L.E. Carpenter, NJ Project

During the data review for the analysis EPA 300.0 Anions by Ion Chromatography, we discovered an error in the calibration file used during the analysis. The error impacts the sulfate results for Lancaster Laboratories' Sample Nos. 4499745–4499746 and 4499750–4499751, submitted April 9, 2005. The error was with the concentration assigned to one of the five calibration standards (*Cal 1* below) that had been incorporated into the calibration file for sulfate.

The correct values for the calibration standard concentrations are:

Standard	Sulfate (mg/L)	
	Original	Corrected
Cal 1	***1.0***	***0.5***
Cal 2	2.0	
Cal 3	5.0	
Cal 4	10.0	
Cal 5	15.0	

As shown above, the Cal 1 standard for sulfate was prepared at the concentration of 0.5 mg/L; however, it was identified as being at a concentration of 1.0 mg/L in the calibration. This resulted in reported data for sulfate that was incorrectly calculated with a slightly high bias. We have corrected the calibration file and recalculated the sample result and corresponding QC. During the recalculation the Continuing Calibration Verification standard (CCV) for sulfate associated with LL Sample No. 4499745 was below the acceptance criteria of 90% to 110% and the sample was reanalyzed for sulfate on April 29, 2005. All of the other QC associated with the samples remained within their acceptance criteria after the correction was made.

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Shipping Address:
Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601

The values for sulfate for the samples affected are listed below:

LL#	Sample Designation	Original SO_4 (mg/L)	Corrected SO_4 (mg/L)
4499745	MW-19-5 Upper Grab Water Sample	8.7	8.6
4499746	MW-19-5 Lower Unspiked Grab Water Sample	12.0	11.1
4499750	MW-19-6 Upper Grab Water Sample	32.7	32.2
4499751	MW-19-6 Lower Grab Water Sample	33.5	33.0

I apologize for the inconvenience this has caused. If you have any questions, please contact me at 717-656-2300, Ext. 1516.

Sincerely,

Michele M. Turner

Michele M. Turner, B.A.
Director
Environmental Sciences

MMT/mcs
Enclosures

cc: Barb Weyandt

Lancaster Laboratories

REVISED

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 938807. Samples arrived at the laboratory on Saturday, April 09, 2005. The PO# for this group is 6527.10.

Client Description	Lancaster Labs Number
MW-19-5 Upper Grab Water Sample	4499745
MW-19-5 Lower Unspiked Grab Water Sample	4499746
MW-19-5 Lower Matrix Spike Grab Water Sample	4499747
MW-19-5 Lower Matrix Spike Dup. Grab Water Sample	4499748
MW-19-5 Lower Duplicate Grab Water Sample	4499749
MW-19-6 Upper Grab Water Sample	4499750
MW-19-6 Lower Grab Water Sample	4499751
Trip Blank Water Sample	4499752

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO	RMT, Inc.	Attn: Nicholas J. Clevett
1 COPY TO	Data Package Group	

Lancaster Laboratories

REVISED

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Robert G. Heisey

Robert G. Heisey
Group Leader

MEMBER ACIL

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499745

MW-19-5 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 08:45 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19-5U SDG#: LEC42-18

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	100.		1.	cfu/ml	n.a.
	The plating was performed by Chris Smith on 040905 at 1800.						
00206	Total Suspended Solids	n.a.	3.6	J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	141.		9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
	This sample was analyzed past the 48 hour hold time for nitrite nitrogen.						
00220	Nitrate Nitrogen	14797-55-8	0.43		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.		0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.080	mg/l	1
00228	Sulfate	14808-79-8	8.6		1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	N.D.		2.0	ug/l	1
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
07109	Propane	74-98-6	N.D.		1.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	2.3	J	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	9.5		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	0.4	J	0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

MEMBER ACIL

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Lancaster, PA 17605-2425
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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499745

MW-19-5 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 08:45 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19-5U SDG#: LEC42-18

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 17:25	Christopher C Smith	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/13/2005 08:41	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 09:21	Nicole M Kepley	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:12	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:11	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/29/2005 01:29	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 00:15	Robert I Pusch	1
[illegible]238	BTEX (EPA 602)	EPA 602	1	04/14/2005 02:02	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/13/2005 22:19	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499746

MW-19-5 Lower Unspiked Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 10:15 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19-5L SDG#: LEC42-19BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	3,000.		1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.						
	The plating was performed by Chris Smith on 040905 at 1800.						
00206	Total Suspended Solids	n.a.	3.6	J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	177.		9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.		0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.080	mg/l	1
	Matrix QC was performed on this sample for the total phosphorus analysis. Please see the attached QC Summary report for the parameter showing a matrix bias.						
00228	Sulfate	14808-79-8	11.1		1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	380.		20.	ug/l	10
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
07109	Propane	74-98-6	N.D.		1.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	5,300.		120.	ug/l	200
07029	Benzene	71-43-2	N.D.		40.	ug/l	200
07030	Toluene	108-88-3	27,000.		40.	ug/l	200
07031	Ethylbenzene	100-41-4	1,000.		40.	ug/l	200
	Due to dilution of the sample made necessary by the high level of Toluene, normal reporting limits were not attained.						
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	1.	J	1.	ug/l	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499746

MW-19-5 Lower Unspiked Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 10:15 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19-5L SDG#: LEC42-19BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
	State of New Jersey Lab Certification No. PA011					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 17:25	Christopher C Smith	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/13/2005 08:41	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 09:57	Nicole M Kepley	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:14	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:12	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/13/2005 13:16	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 00:27	Robert I Pusch	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 19:22	Robert I Pusch	10
08238	BTEX (EPA 602)	EPA 602	1	04/14/2005 03:47	K. Robert Caulfeild-James	200
00553	Base Neutrals	EPA 625	1	04/13/2005 06:56	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499747

MW-19-5 Lower Matrix Spike Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 10:15 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19-5L SDG#: LEC42-19MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00219	Nitrite Nitrogen	14797-65-0	0.20	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.96	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	13.9	0.11	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	870.	20.	ug/l	10
07107	Ethane	74-84-0	54.	1.0	ug/l	1
07108	Ethene	74-85-1	56.	1.0	ug/l	1
07109	Propane	74-98-6	56.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	19,000.	120.	ug/l	200
07029	Benzene	71-43-2	4,500.	40.	ug/l	200
07030	Toluene	108-88-3	31,000.	40.	ug/l	200
07031	Ethylbenzene	100-41-4	5,500.	40.	ug/l	200
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	95.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 09:23	Nicole M Kepley	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:15	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 00:39	Robert I Pusch	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 19:34	Robert I Pusch	10

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499747

MW-19-5 Lower Matrix Spike Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 10:15 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
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Madison WI 53708-8923

19-5L SDG#: LEC42-19MS

08238	BTEX (EPA 602)	EPA 602	1	04/14/2005 04:22	K. Robert Caulfeild-James	200
00553	Base Neutrals	EPA 625	1	04/13/2005 07:51	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499748

MW-19-5 Lower Matrix Spike Dup. Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 10:15 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19-5L SDG#: LEC42-19MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00221	Ammonia Nitrogen	7664-41-7	14.0	0.11	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	860.	20.	ug/l	10
07107	Ethane	74-84-0	51.	1.0	ug/l	1
07108	Ethene	74-85-1	53.	1.0	ug/l	1
07109	Propane	74-98-6	53.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	18,000.	120.	ug/l	200
07029	Benzene	71-43-2	4,500.	40.	ug/l	200
07030	Toluene	108-88-3	30,000.	40.	ug/l	200
07031	Ethylbenzene	100-41-4	5,400.	40.	ug/l	200
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	95.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 00:51	Robert I Pusch	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 19:46	Robert I Pusch	10
08238	BTEX (EPA 602)	EPA 602	1	04/14/2005 04:57	K. Robert Caulfeild-James	200
00553	Base Neutrals	EPA 625	1	04/13/2005 11:12	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499748

MW-19-5 Lower Matrix Spike Dup. Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 10:15 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

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19-5L SDG#: LEC42-19MSD

Analysis Report

Lancaster Laboratories

REVISED

Lancaster Laboratories Sample No. WW 4499749

MW-19-5 Lower Duplicate Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 10:15 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
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19-5L SDG#: LEC42-19DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 10:00	Nicole M Kepley	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:16	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499750

MW-19-6 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 11:50 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
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19-6U SDG#: LEC42-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	160.	1.	cfu/ml	n.a.
	The plating was performed by Chris Smith on 040905 at 1800.					
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,190.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.0	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	32.2	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	96.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	37.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	74.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	11.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 17:25	Christopher C Smith	n.a.

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499750

MW-19-6 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 11:50 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

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19-6U SDG#: LEC42-20

00206	Total Suspended Solids	EPA 160.2	1	04/13/2005 08:41	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 09:24	Nicole M Kepley	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:17	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:18	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/13/2005 13:56	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 01:03	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/14/2005 02:37	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/13/2005 23:15	Brian K Graham	1
[illegible]8108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
[illegible]263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499751

MW-19-6 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 13:25 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
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19-6L SDG#: LEC42-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	23.	1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution. The plating was performed by Chris Smith on 040905 at 1800.					
00206	Total Suspended Solids	n.a.	18.0	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,180.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.3	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.29 J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	33.0	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	44.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	64.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	160.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	16.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4499751

MW-19-6 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/09/2005 13:25 by JO

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
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19-6L SDG#: LEC42-21

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 17:25	Christopher C Smith	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/13/2005 08:41	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/11/2005 09:25	Nicole M Kepley	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 11:19	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 09:19	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/13/2005 14:09	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/14/2005 01:14	Robert I Pusch	1
[illegible]238	BTEX (EPA 602)	EPA 602	1	04/14/2005 03:12	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/14/2005 00:11	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 19:00	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

Analysis Report

Lancaster Laboratories

REVISED

Lancaster Laboratories Sample No. WW 4499752

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 04/09/2005 17:05
Reported: 06/20/2005 at 09:05
Discard: 07/21/2005

RMT, Inc.
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LECTB SDG#: LEC42-22TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	04/13/2005 18:27	K. Robert Caulfeild-James	1

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:05 AM

Group Number: 938807

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05101105101A	Sample number(s): 4499745-4499747,4499749-4499751							
Nitrite Nitrogen	N.D.	0.015	mg/l	101		90-110		
Batch number: 05101WAA625	Sample number(s): 4499745-4499748,4499750-4499751							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	93		68-111		
Batch number: 05102021201A	Sample number(s): 4499745-4499746,4499750-4499751							
Total Dissolved Solids	N.D.	9.7	mg/l	98		80-120		
Batch number: 05102022101A	Sample number(s): 4499745-4499751							
Ammonia Nitrogen	N.D.	0.11	mg/l	96		91-100		
Batch number: 05102109101B	Sample number(s): 4499745-4499746,4499750-4499751							
Total Phosphorus as P (water)	N.D.	0.080	mg/l	96		89-110		
Batch number: 05102401101A	Sample number(s): 4499745-4499746,4499750-4499751							
Sulfate	N.D.	0.30	mg/l	98		89-110		
Batch number: 051030028A	Sample number(s): 4499745-4499748,4499750-4499751							
Methane	N.D.	2.0	ug/l	95		80-120		
Ethane	N.D.	1.0	ug/l	95		80-120		
Ethene	N.D.	1.0	ug/l	95		80-120		
Propane	N.D.	1.0	ug/l	89		80-120		
Batch number: 05103020602B	Sample number(s): 4499745-4499746,4499750-4499751							
Total Suspended Solids	N.D.	3.0	mg/l	87		55-132		
Batch number: 05103A36A	Sample number(s): 4499745-4499748,4499750-4499752							
Total Xylenes	N.D.	0.6	ug/l	96	108	82-120	12	30
Benzene	N.D.	0.2	ug/l	96	108	86-119	12	30
Toluene	N.D.	0.2	ug/l	98	111	82-119	12	30
Ethylbenzene	N.D.	0.2	ug/l	96	108	81-119	12	30
Batch number: 05108106102B	Sample number(s): 4499745-4499747,4499749-4499751							
Nitrate Nitrogen	N.D.	0.040	mg/l	106		89-110		

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

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:05 AM

Group Number: 938807

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05101105101A	Sample number(s): 4499745-4499747,4499749-4499751								
Nitrite Nitrogen	102		90-110			N.D.	N.D.	200* (1)	20
Batch number: 05101WAA625	Sample number(s): 4499745-4499748,4499750-4499751								
bis(2-Ethylhexyl)phthalate	94	94	69-111	0	30				
Batch number: 05102021201A	Sample number(s): 4499745-4499746,4499750-4499751								
Total Dissolved Solids	99	122	60-140	8*	5	1,430.	1,450.	2	5
Batch number: 05102022101A	Sample number(s): 4499745-4499751								
Ammonia Nitrogen	99	100	64-128	1	8	N.D.	N.D.	0 (1)	2
Batch number: 05102109101B	Sample number(s): 4499745-4499746,4499750-4499751								
Total Phosphorus as P (water)	112*		90-110			N.D.	N.D.	0 (1)	3
Batch number: 05102401101A	Sample number(s): 4499745-4499746,4499750-4499751								
Sulfate	91		90-110			11.1	10.9	1 (1)	3
Batch number: 051030028A	Sample number(s): 4499745-4499748,4499750-4499751								
Methane	82	80	63-120	1	20				
Ethane	90	85	69-118	6	20				
Ethene	90	85	67-125	6	20				
Propane	85	80	54-127	6	20				
Batch number: 05103020602B	Sample number(s): 4499745-4499746,4499750-4499751								
Total Suspended Solids						673.	713.	6 (1)	24
Batch number: 05103A36A	Sample number(s): 4499745-4499748,4499750-4499752								
Total Xylenes	111	108	78-130	2	30				
Benzene	112	112	78-131	0	30				
Toluene	(2)	(2)	78-129	4	30				
Ethylbenzene	112	111	75-133	1	30				
Batch number: 05108106102B	Sample number(s): 4499745-4499747,4499749-4499751								
Nitrate Nitrogen	117*		90-110			N.D.	N.D.	64* (1)	2

Surrogate Quality Control

Analysis Name: Base Neutrals
Batch number: 05101WAA625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4499745	84	88	100

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

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:05 AM

Group Number: 938807

Surrogate Quality Control

4499746	87	90	108
4499747	85	89	98
4499748	90	87	102
4499750	84	86	109
4499751	88	89	108
Blank	84	91	109
LCS	90	88	110
MS	85	89	98
MSD	90	87	102
Limits:	48-117	62-111	45-132

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 051030028A

	Propene
4499745	89
4499746	93
4499747	86
4499748	83
4499750	93
4499751	89
Blank	106
LCS	102
MS	86
MSD	83
Limits:	64-126

Analysis Name: BTEX (EPA 602)
Batch number: 05103A36A

	Trifluorotoluene-P
4499745	98
4499746	98
4499747	100
4499748	99
4499750	99
4499751	99
4499752	101
Blank	100
LCS	98
LCSD	99
MS	100
MSD	99
Limits:	69-137

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

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:05 AM

Group Number: 938807

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

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Lancaster Laboratories

June 24, 2005

Mr. Nicholas J. Clevett
RMT, Inc.
Suite 402
2025 East Beltline Avenue, SE
Grand Rapids, MI 49546

Dear Mr. Clevett:

Subject: L.E. Carpenter, NJ Project

During the data review for the analysis EPA 300.0 Anions by Ion Chromatography, we discovered an error in the calibration file used during the analysis. The error impacts the sulfate results for Lancaster Laboratories' Sample Nos. 4498765–4498766, submitted April 8, 2005. The error was with the concentration assigned to one of the five calibration standards (*Cal 1* below) that had been incorporated into the calibration file for sulfate.

The correct values for the calibration standard concentrations are:

Standard	Sulfate (mg/L)	
	Original	Corrected
Cal 1	***1.0***	***0.5***
Cal 2	2.0	
Cal 3	5.0	
Cal 4	10.0	
Cal 5	15.0	

As shown above, the Cal 1 standard for sulfate was prepared at the concentration of 0.5 mg/L; however, it was identified as being at a concentration of 1.0 mg/L in the calibration. This resulted in reported data for sulfate that was incorrectly calculated with a slightly high bias. We have corrected the calibration file and recalculated the sample results and corresponding QC. All of the QC associated with the sample was within specifications after the recalculation.

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717-656-2300 Fax: 717-656-2681
www.lancasterlabs.com

Shipping Address:
Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601

Lancaster Laboratories

REVISED

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 938658. Samples arrived at the laboratory on Friday, April 08, 2005. The PO# for this group is 6527.10.

Client Description	Lancaster Labs Number
MW-19 Upper Grab Water Sample	4498765
ATM Blank Grab Water Sample	4498766
Trip Blank Water Sample	4498767

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO	RMT, Inc.	Attn: Nicholas J. Clevett
1 COPY TO	Data Package Group	

Lancaster Laboratories

REVISED

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Robert G. Heisey

Robert G. Heisey
Group Leader

MEMBER ACIL

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

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498765

MW-19 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 08:15 by JO

Account Number: 09322

Submitted: 04/08/2005 13:50
Reported: 06/20/2005 at 12:22
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

MW19U SDG#: LEC42-06

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	1,400.		1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.						
	The sample was plated by Earl Custer on 4-8-05 at 1700.						
00206	Total Suspended Solids	n.a.	14.8		3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	455.		9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	0.042	J	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	3.2		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.		0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.080	mg/l	1
00228	Sulfate	14808-79-8	29.9		1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	2.0	J	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
07109	Propane	74-98-6	N.D.		1.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	430.		0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	410.		1.0	ug/l	5
07031	Ethylbenzene	100-41-4	86.		0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	3.	J	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498765

MW-19 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 08:15 by JO

Account Number: 09322

Submitted: 04/08/2005 13:50
Reported: 06/20/2005 at 12:22
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

MW19U SDG#: LEC42-06

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 10:15	Earl R Custer	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/09/2005 09:19	William L Hamaker Jr	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 09:49	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/12/2005 17:30	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/14/2005 08:56	Nicole M Kepley	1
0228	Sulfate	EPA 300.0	2	04/11/2005 16:57	Shannon L Phillips	5
105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/13/2005 19:04	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	04/15/2005 03:47	K. Robert Caulfeild-James	5
08238	BTEX (EPA 602)	EPA 602	1	04/15/2005 08:30	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/14/2005 11:37	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 09:30	Amanda W Herr	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/12/2005 13:45	Nancy J Shoop	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498766

ATM Blank Grab Water Sample
L.E. Carpenter, NJ

Collected:04/08/2005 08:50 by JO

Account Number: 09322

Submitted: 04/08/2005 13:50
Reported: 06/20/2005 at 12:22
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

ATMBL SDG#: LEC42-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	86.	1.	cfu/ml	n.a.
	The sample was plated by Earl Custer on 4-8-05 at 1700.					
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	N.D.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.	0.30	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Lancaster Laboratories

REVISED

Lancaster Laboratories Sample No. WW 4498767

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 04/08/2005 13:50
Reported: 06/20/2005 at 12:22
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

TBLLE SDG#: LEC42-08TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	04/13/2005 17:16	K. Robert Caulfeild-James	1

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 12:22 PM

Group Number: 938658

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05099105101B	Sample number(s): 4498765-4498766							
Nitrite Nitrogen	N.D.	0.015	mg/l	107		90-110		
Batch number: 05099WAA625	Sample number(s): 4498765-4498766							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	96	99	68-111	3	30
Batch number: 05101401101A	Sample number(s): 4498765-4498766							
Sulfate	N.D.	0.30	mg/l	102		89-110		
Batch number: 05102020601A	Sample number(s): 4498765-4498766							
Total Suspended Solids	N.D.	3.0	mg/l	79		55-132		
Batch number: 05102021201A	Sample number(s): 4498765-4498766							
Total Dissolved Solids	N.D.	9.7	mg/l	98		80-120		
Batch number: 05102022101A	Sample number(s): 4498765-4498766							
Ammonia Nitrogen	N.D.	0.11	mg/l	96		91-100		
Batch number: 05102109101A	Sample number(s): 4498765-4498766							
Total Phosphorus as P (water)	N.D.	0.080	mg/l	96		89-110		
Batch number: 051030027A	Sample number(s): 4498765-4498766							
Methane	N.D.	2.0	ug/l	93		80-120		
Ethane	N.D.	1.0	ug/l	93		80-120		
Ethene	N.D.	1.0	ug/l	92		80-120		
Propane	N.D.	1.0	ug/l	88		80-120		
Batch number: 05103A36A	Sample number(s): 4498766-4498767							
Total Xylenes	N.D.	0.6	ug/l	96	108	82-120	12	30
Benzene	N.D.	0.2	ug/l	96	108	86-119	12	30
Toluene	N.D.	0.2	ug/l	98	111	82-119	12	30
Ethylbenzene	N.D.	0.2	ug/l	96	108	81-119	12	30
Batch number: 05104A36A	Sample number(s): 4498765							
Toluene	N.D.	0.2	ug/l	105	103	82-119	2	30
Batch number: 05104A36B	Sample number(s): 4498765							

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

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 938658
Reported: 06/20/05 at 12:22 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Total Xylenes	N.D.	0.6	ug/l	107	105	82-120	2	30
Benzene	N.D.	0.2	ug/l	106	103	86-119	2	30
Ethylbenzene	N.D.	0.2	ug/l	107	105	81-119	2	30
Batch number: 05108106101B	Sample number(s): 4498765-4498766							
Nitrate Nitrogen	N.D.	0.040	mg/l	104		89-110		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05099105101B	Sample number(s): 4498765-4498766								
Nitrite Nitrogen	104		90-110			N.D.	N.D.	0 (1)	20
Batch number: 05101401101A	Sample number(s): 4498765-4498766								
Sulfate	93		90-110			13.2	12.9	2 (1)	3
Batch number: 05102020601A	Sample number(s): 4498765-4498766								
Total Suspended Solids						313.	301.	4	24
Batch number: 05102021201A	Sample number(s): 4498765-4498766								
Total Dissolved Solids	99	122	60-140	8*	5	1,430.	1,450.	2	5
Batch number: 05102022101A	Sample number(s): 4498765-4498766								
Ammonia Nitrogen	99	100	64-128	1	8	N.D.	N.D.	0 (1)	2
Batch number: 05102109101A	Sample number(s): 4498765-4498766								
Total Phosphorus as P (water)	106		90-110			N.D.	N.D.	200* (1)	3
Batch number: 051030027A	Sample number(s): 4498765-4498766								
Methane	83	70	63-120	8	20				
Ethane	65*	98	69-118	41*	20				
Ethene	66*	103	67-125	44*	20				
Propane	61	94	54-127	43*	20				
Batch number: 05103A36A	Sample number(s): 4498766-4498767								
Total Xylenes	111	108	78-130	2	30				
Benzene	112	112	78-131	0	30				
Toluene	(2)	(2)	78-129	4	30				
Ethylbenzene	112	111	75-133	1	30				
Batch number: 05104A36A	Sample number(s): 4498765								
Toluene	115		78-129						

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

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Lancaster, PA 17605-2425
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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 938658
Reported: 06/20/05 at 12:22 PM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05104A36B	Sample number(s): 4498765								
Total Xylenes	114		78-130						
Benzene	116		78-131						
Ethylbenzene	115		75-133						
Batch number: 05108106101B	Sample number(s): 4498765-4498766								
Nitrate Nitrogen	87*		90-110			N.D.	N.D.	0 (1)	2

Surrogate Quality Control

Analysis Name: Base Neutrals
Batch number: 05099WAA625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4498765	91	96	106
4498766	92	95	120
Blank	98	79	117
LCS	99	82	122
LCSD	101	97	124
Limits:	48-117	62-111	45-132

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 051030027A

	Propene
4498765	101
4498766	92
Blank	97
LCS	98
MS	67
MSD	84
Limits:	64-126

Analysis Name: BTEX (EPA 602)
Batch number: 05103A36A

	Trifluorotoluene-P
4498766	100
4498767	100
Blank	100
LCS	98
LCSD	99

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

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2425 New Holland Pike
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717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 12:22 PM

Group Number: 938658

Surrogate Quality Control

MS	100
MSD	99
Limits:	69-137

Analysis Name: BTEX MTBE
Batch number: 05104A36A
Trifluorotoluene-P

Blank	98
LCS	99
LCSD	99
MS	100
Limits:	69-137

Analysis Name: BTEX (EPA 602)
Batch number: 05104A36B
Trifluorotoluene-P

498765	95
lank	100
LCS	99
LCSD	99
MS	100
Limits:	69-137

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

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

Lancaster Laboratories

June 24, 2005

Mr. Nicholas J. Clevett
RMT, Inc.
Suite 402
2025 East Beltline Avenue, SE
Grand Rapids, MI 49546

Dear Mr. Clevett:

Subject: L.E. Carpenter, NJ Project

During the data review for the analysis EPA 300.0 Anions by Ion Chromatography, we discovered an error in the calibration file used during the analysis. The error impacts the sulfate results for Lancaster Laboratories' Sample Nos. 4498172–4498175, submitted April 8, 2005. The error was with the concentration assigned to one of the five calibration standards (*Cal 1* below) that had been incorporated into the calibration file for sulfate.

The correct values for the calibration standard concentrations are:

Standard	Sulfate (mg/L)	
	Original	Corrected
Cal 1	***1.0***	***0.5***
Cal 2	2.0	
Cal 3	5.0	
Cal 4	10.0	
Cal 5	15.0	

As shown above, the Cal 1 standard for sulfate was prepared at the concentration of 0.5 mg/L; however, it was identified as being at a concentration of 1.0 mg/L in the calibration. This resulted in reported data for sulfate that was incorrectly calculated with a slightly high bias. We have corrected the calibration file and recalculated the sample results and corresponding QC. All of the QC associated with the sample was within specifications after the recalculation.

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

Shipping Address:
Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601

The values for sulfate for the samples affected are listed below:

LL#	Sample Designation	Original SO_4 (mg/L)	Corrected SO_4 (mg/L)
4498765	MW-19 Upper Grab Water Sample	30.4	29.9
4498766	ATM Blank Grab Water Sample	ND (MDL =0.3)	ND (MDL =0.3)

I apologize for the inconvenience this has caused. If you have any questions, please contact me at 717-656-2300, Ext. 1516.

Sincerely,

Michele M. Turner

Michele M. Turner, B.A.
Director
Environmental Sciences

MMT/mcs
Enclosures

cc: Barb Weyandt

The values for sulfate for the samples affected are listed below:

LL#	Sample Designation	Original SO_4 (mg/L)	Corrected SO_4 (mg/L)
4498172	MW-19-11 Lower Grab Water Sample	18.0	17.2
4498173	MW-19-11 Upper Grab Water Sample	17.2	16.4
4498174	MW-19-7 Upper Grab Water Sample	ND (MDL =1.5)	ND (MDL =1.5)
4498175	MW-19-7 Lower Grab Water Sample	ND (MDL =1.5)	ND (MDL =1.5)

I apologize for the inconvenience this has caused. If you have any questions, please contact me at 717-656-2300, Ext. 1516.

Sincerely,

Michele M. Turner

Michele M. Turner, B.A.
Director
Environmental Sciences

MMT/mcs
Enclosures

cc: Barb Weyandt

Analysis Report

Lancaster Laboratories

REVISED

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 938564. Samples arrived at the laboratory on Friday, April 08, 2005. The PO# for this group is 6527.10.

Client Description	Lancaster Labs Number
MW-19-11 Lower Grab Water Sample	4498172
MW-19-11 Upper Grab Water Sample	4498173
MW-19-7 Upper Grab Water Sample	4498174
MW-19-7 Lower Grab Water Sample	4498175
Trip Blank Water Sample	4498176

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO	RMT, Inc.	Attn: Nicholas J. Clevett
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Robert G. Heisey

Robert G. Heisey
Group Leader

MEMBER ACIL

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

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498172

MW-19-11 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/07/2005 11:30 by JO

Account Number: 09322

Submitted: 04/08/2005 09:30
Reported: 06/20/2005 at 09:00
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

1911L SDG#: LEC42-01

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	22.		1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution. The sample also contained spreader-type colony growth that may have affected the enumeration of the sample.						
	The sample was plated by Marlaina Kohler on 4-8-05 by 1128.						
00206	Total Suspended Solids	n.a.	64.0		3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	731.		19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.42	J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.080	mg/l	1
00228	Sulfate	14808-79-8	17.2		1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	930.		40.	ug/l	20
07107	Ethane	74-84-0	1.1	J	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
07109	Propane	74-98-6	N.D.		1.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1.	ug/l	1

State of New Jersey Lab Certification No. PA011

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PO Box 12425
Lancaster, PA 17605-2425
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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498172

MW-19-11 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/07/2005 11:30 by JO

Account Number: 09322

Submitted: 04/08/2005 09:30
Reported: 06/20/2005 at 09:00
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

1911L SDG#: LEC42-01

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 17:10	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/09/2005 08:36	William L Hamaker Jr	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 09:57	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/11/2005 18:45	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/11/2005 12:59	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/11/2005 14:44	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/12/2005 03:07	Robert I Pusch	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/12/2005 17:57	Robert I Pusch	20
08238	BTEX (EPA 602)	EPA 602	1	04/13/2005 19:02	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/14/2005 01:06	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 09:30	Amanda W Herr	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/11/2005 09:00	Choon Y Tian	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498173

MW-19-11 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/07/2005 13:15 by JO

Account Number: 09322

Submitted: 04/08/2005 09:30
Reported: 06/20/2005 at 09:00
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

1911U SDG#: LEC42-02

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	14.		1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.						
	The sample was plated by Marlaina Kohler on 4-8-05 by 1128.						
00206	Total Suspended Solids	n.a.	27.2		3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	740.		19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.41	J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.080	mg/l	1
00228	Sulfate	14808-79-8	16.4		1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	1,200.		40.	ug/l	20
07107	Ethane	74-84-0	1.3	J	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
07109	Propane	74-98-6	N.D.		1.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1.	ug/l	1

State of New Jersey Lab Certification No. PA011

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498173

MW-19-11 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/07/2005 13:15 by JO

Account Number: 09322

Submitted: 04/08/2005 09:30
Reported: 06/20/2005 at 09:00
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

1911U SDG#: LEC42-02

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 17:10	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/09/2005 08:37	William L Hamaker Jr	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 09:58	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/11/2005 18:45	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/11/2005 13:02	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/11/2005 14:57	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/12/2005 03:18	Robert I Pusch	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/12/2005 18:09	Robert I Pusch	20
08238	BTEX (EPA 602)	EPA 602	1	04/13/2005 19:37	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	04/14/2005 02:01	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 09:30	Amanda W Herr	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/11/2005 09:00	Choon Y Tian	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498174

MW-19-7 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/07/2005 15:50 by JO

Account Number: 09322

Submitted: 04/08/2005 09:30
Reported: 06/20/2005 at 09:00
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

197-U SDG#: LEC42-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	41.	1.	cfu/ml	n.a.
	The sample was plated by Marlaina Kohler on 4-8-05 by 1128.					
00206	Total Suspended Solids	n.a.	48.0	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	481.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.35 J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.32	0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	10,000.	500.	ug/l	250
07107	Ethane	74-84-0	11.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	1,400.	6.0	ug/l	10
07029	Benzene	71-43-2	9.5 J	2.0	ug/l	10
07030	Toluene	108-88-3	2,700.	2.0	ug/l	10
07031	Ethylbenzene	100-41-4	210.	2.0	ug/l	10
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498174

MW-19-7 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected:04/07/2005 15:50 by JO

Account Number: 09322

Submitted: 04/08/2005 09:30
Reported: 06/20/2005 at 09:00
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

197-U SDG#: LEC42-03

00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	04/11/2005 17:10	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	04/12/2005 15:16	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	04/12/2005 11:51	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	04/09/2005 08:38	William L Hamaker Jr	1
00220	Nitrate Nitrogen	EPA 353.2	1	04/18/2005 09:47	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	04/11/2005 18:45	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	04/11/2005 13:03	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	2	04/11/2005 16:30	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/12/2005 03:30	Robert I Pusch	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	04/12/2005 18:20	Robert I Pusch	250
08238	BTEX (EPA 602)	EPA 602	1	04/14/2005 18:20	K. Robert Caulfeild-James	10
00553	Base Neutrals	EPA 625	1	04/14/2005 02:57	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	04/11/2005 09:30	Amanda W Herr	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	04/11/2005 09:00	Choon Y Tian	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498175

MW-19-7 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected:04/07/2005 17:25 by JO

Account Number: 09322

Submitted: 04/08/2005 09:30
Reported: 06/20/2005 at 09:00
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

197-L SDG#: LEC42-04

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	32.		1.	cfu/ml	n.a.
	This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.						
	The sample was plated by Marlaina Kohler on 4-8-05 by 1128.						
00206	Total Suspended Solids	n.a.	54.0		3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	472.		9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.50	J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.45		0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.		1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	13,000.		500.	ug/l	250
07107	Ethane	74-84-0	16.		1.0	ug/l	1
07108	Ethene	74-85-1	N.D.		1.0	ug/l	1
07109	Propane	74-98-6	N.D.		1.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	2,300.		15.	ug/l	25
07029	Benzene	71-43-2	13.	J	5.0	ug/l	25
07030	Toluene	108-88-3	5,600.		5.0	ug/l	25
07031	Ethylbenzene	100-41-4	370.		5.0	ug/l	25
	Due to dilution of the sample made necessary by the high level of Toluene, normal reporting limits were not attained.						
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1.	ug/l	1

State of New Jersey Lab Certification No. PA011

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4498176

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 04/08/2005 09:30
Reported: 06/20/2005 at 09:00
Discard: 07/21/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

MW19T SDG#: LEC42-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	04/13/2005 16:06	K. Robert Caulfeild-James	1

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 938564
Reported: 06/20/05 at 09:01 AM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05099105101A	Sample number(s): 4498172-4498175							
Nitrite Nitrogen	N.D.	0.015	mg/l	107		90-110		
Batch number: 05099WAA625	Sample number(s): 4498172-4498175							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	96	99	68-111	3	30
Batch number: 051010026A	Sample number(s): 4498172-4498175							
Methane	N.D.	2.0	ug/l	98		80-120		
Ethane	N.D.	1.0	ug/l	98		80-120		
Ethene	N.D.	1.0	ug/l	100		80-120		
Propane	N.D.	1.0	ug/l	98		80-120		
Batch number: 05101022101A	Sample number(s): 4498172-4498175							
Ammonia Nitrogen	N.D.	0.11	mg/l	96	97	91-100	0	1
Batch number: 05101109101B	Sample number(s): 4498172-4498175							
Total Phosphorus as P (water)	N.D.	0.080	mg/l	93		89-110		
Batch number: 05101401101A	Sample number(s): 4498172-4498175							
Sulfate	N.D.	0.30	mg/l	102		89-110		
Batch number: 05102020601A	Sample number(s): 4498172-4498175							
Total Suspended Solids	N.D.	3.0	mg/l	79		55-132		
Batch number: 05102021201A	Sample number(s): 4498172-4498175							
Total Dissolved Solids	N.D.	9.7	mg/l	98		80-120		
Batch number: 05103A36A	Sample number(s): 4498172-4498173,4498176							
Total Xylenes	N.D.	0.6	ug/l	96	108	82-120	12	30
Benzene	N.D.	0.2	ug/l	96	108	86-119	12	30
Toluene	N.D.	0.2	ug/l	98	111	82-119	12	30
Ethylbenzene	N.D.	0.2	ug/l	96	108	81-119	12	30
Batch number: 05104A36A	Sample number(s): 4498174-4498175							
Total Xylenes	N.D.	0.6	ug/l	107	105	82-120	2	30
Benzene	N.D.	0.2	ug/l	106	103	86-119	2	30
Toluene	N.D.	0.2	ug/l	105	103	82-119	2	30

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

Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 938564
Reported: 06/20/05 at 09:01 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylbenzene	N.D.	0.2	ug/l	107	105	81-119	2	30
Batch number: 05108106101B	Sample number(s): 4498172-4498175							
Nitrate Nitrogen	N.D.	0.040	mg/l	104		89-110		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05099105101A	Sample number(s): 4498172-4498175								
Nitrite Nitrogen	106		90-110			N.D.	N.D.	0 (1)	20
Batch number: 051010026A	Sample number(s): 4498172-4498175								
Methane	103	112	63-120	6	20				
Ethane	92	95	69-118	4	20				
Ethene	92	97	67-125	5	20				
Propane	89	94	54-127	5	20				
Batch number: 05101022101A	Sample number(s): 4498172-4498175								
Ammonia Nitrogen						11.6	11.7	1	2
Batch number: 05101109101B	Sample number(s): 4498172-4498175								
Total Phosphorus as P (water)	97		90-110			N.D.	N.D.	0 (1)	3
Batch number: 05101401101A	Sample number(s): 4498172-4498175								
Sulfate	93		90-110			13.2	12.9	2 (1)	3
Batch number: 05102020601A	Sample number(s): 4498172-4498175								
Total Suspended Solids						313.	301.	4	24
Batch number: 05102021201A	Sample number(s): 4498172-4498175								
Total Dissolved Solids	99	122	60-140	8*	5	1,430.	1,450.	2	5
Batch number: 05103A36A	Sample number(s): 4498172-4498173,4498176								
Total Xylenes	111	108	78-130	2	30				
Benzene	112	112	78-131	0	30				
Toluene	(2)	(2)	78-129	4	30				
Ethylbenzene	112	111	75-133	1	30				
Batch number: 05104A36A	Sample number(s): 4498174-4498175								
Total Xylenes	114		78-130						
Benzene	116		78-131						
Toluene	115		78-129						
Ethylbenzene	115		75-133						

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

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:01 AM

Group Number: 938564

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05108106101B	Sample number(s): 4498172-4498175								
Nitrate Nitrogen	87*		90-110			N.D.	N.D.	0 (1)	2

Surrogate Quality Control

Analysis Name: Base Neutrals
Batch number: 05099WAA625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4498172	92	98	106
4498173	95	100	119
4498174	81	89	107
4498175	87	94	112
Blank	98	79	117
LCS	99	82	122
LCSD	101	97	124
Limits:	48-117	62-111	45-132

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 051010026A

	Propene
4498172	83
4498173	89
4498174	92
4498175	86
Blank	96
LCS	106
MS	89
MSD	94
Limits:	64-126

Analysis Name: BTEX (EPA 602)
Batch number: 05103A36A

	Trifluorotoluene-P
4498172	98
4498173	98
4498176	100
Blank	100
LCS	98

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

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/20/05 at 09:01 AM

Group Number: 938564

Surrogate Quality Control

LCSD	99
MS	100
MSD	99
Limits:	69-137

Analysis Name: BTEX (EPA 602)
Batch number: 05104A36A
Trifluorotoluene-P

4498174	99
4498175	99
Blank	98
LCS	99
LCSD	99
MS	100
Limits:	69-137

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

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