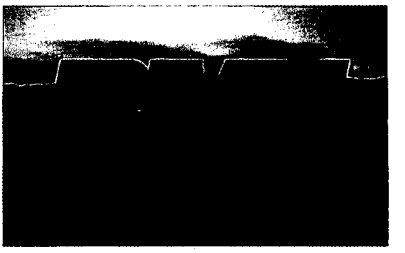

Quarterly Monitoring Report

2nd Quarter 2004

L.E. Carpenter & Company
Wharton, New Jersey

USEPA ID No. NJD002168748

September 2004

318139

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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, Wharton, 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 2004 (2Q04), including but not limited to routine quarterly groundwater monitoring, surface water monitoring, and monthly free product recovery activities. In addition, this report outlines activities completed during 2Q04, including additional activities pertaining to implementation of the NJDEP and USEPA approved *Workplan for Supplemental Investigation of Natural Attenuation of Dissolved Constituents in Groundwater* (RMT May, 2001) (herein "the MNA workplan") as requested by USEPA in their letter dated January 15, 2004, and installation and sampling of passive diffusion bag (PDB) samplers as requested by NJDEP in their letter dated December 16, 2003.

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 2Q04:

- Monthly mobile free product recovery using enhanced fluid recovery (EFR) techniques in accordance with the NJDEP approval letter dated August 20, 1997 (Reference Section 2, and Figures 2 and 3).
- Quarterly groundwater monitoring as required under the ACO (Reference Sections 3 and 4 and Figures 4, 5, and 6).
- Various follow-up activities associated with both the lead and free product investigations, and the proposed conceptual remediation plan. (Reference Section 6).
- Installation of new wells east of the source reduction area (to be sampled as part of the Monitored Natural Attenuation (MNA) program) could not be completed as planned because of wetland flooding.
- Installation and sampling of the passive diffusion bag (PDB) samplers (Reference Section 5).
- Installation and sampling of one new well in the MW-19 area (Reference Section 4).

- Installation of absorbent booms to prevent migration of free-product sheen to the river and the ditch (Reference Section 5.1).

Surface water sampling at the drainage ditch feature that separates the LEC site from the Air Products property as requested in the NJDEP letter dated May 31, 2002 could not be completed due to lack of a site access agreement (Reference Section 5).

We provide a discussion of these activities in the referenced sections.

1.1 Response to Regulatory Review of the 1st Quarter 2004 Monitoring Report

Responses to the NJDEP comment letter received by LEC on June 30, 2004 are presented in the following paragraphs:

- MW-11D(R) will continue to be sampled as part of regularly scheduled groundwater monitoring events until the Remedial Action Work Plan (RAWP) for lead and free-product source reduction has been implemented, currently anticipated to begin in September 2004. The well will then have to be abandoned and sealed per New Jersey well abandonment guidelines in order to protect the lower parts of the aquifer while implementing the RAWP.
- Profile sampling is currently being performed via sampling of various wells completed at different depths within the unconfined aquifer. To date, no contaminants have been detected within intermediate and deeper portions of the aquifer, and all contaminants are limited to the zone of historical groundwater elevation fluctuations (smear zone). Such a distribution is expected because of the nature of the contaminants light non-aqueous phase liquids (LNAPL) together with site-wide upward vertical hydraulic gradients. As discussed in past reports, occasional detections of bis (2-ethylhexyl) phthalate (DEHP) in MW-11D(R) has been a function of various past (pre-low-flow) sampling protocols and laboratory contamination (DEHP is not only ubiquitous in the general outdoor environment, but is also a common lab contaminant). As NJDEP is aware, implementation of the RAWP, scheduled to take place beginning in September 2004, will necessitate the abandonment of numerous existing monitoring wells. Details of these abandonment's is included in the RAWP. LEC will work closely with NJDEP to assure that the appropriate intervals will be screened and sampled for. Locations and screened intervals for post remediation wells will be detailed in a revised MNA monitoring plan that will be prepared and submitted for NJDEP and EPA review and approval following the RAWP implementation.
- Groundwater contours were reexamined in light of NJDEP comments regarding water elevations for some wells that did not exactly match the groundwater contours. The water levels are indeed measured before any sampling and EFR activities can effect them. In addition, water level elevations are also corrected for wells in which free product is

measured. Nevertheless, we believe that a number of factors complicate the interpretation of water level contours from within the area of free product. The most important factors are likely related to variations in the density of product (which effects the accuracy of calculated water elevation corrections), the potential depression of the water table due to the presence of the "floating" product layer, the hydrophobic nature of LNAPL in the smear zone which likely effects recharge of infiltrating rainwater/snowmelt, and retarded infiltration over LNAPL areas which may cause localized mounding. See Section 5.2 for more details regarding interpretation of groundwater elevations for this 2Q04 groundwater monitoring report.

Section 2
Monthly EFR Activities

2.1 Summary of Activities

In August 1997, the NJDEP approved the Remedial Action Plan (RAP), which described free product removal using EFR for the eastern portion of the subject site (east of the railroad right-of-way). EFR is conducted by applying a vacuum to product recovery wells to primarily remove free-phase product in addition to limited volumes of contaminated groundwater and contaminant vapors within vadose zone and capillary fringe soils. As the result of increased aeration, this procedure enhances any natural biodegradation that may be occurring in the soil and groundwater. The locations of the 28 EFR wells purged during each monthly EFR event and all groundwater monitoring wells are shown in Figure 2.

RMT arranged performance of three EFR events during the 2Q04 on April 16th, May 20th, and June 17th. RMT coordinated measurement of the free product thickness in each recovery well (where applicable), followed by EFR. The free-product thickness measured inside well casings and volumes of free product calculated based on the measured thicknesses and the well diameter are referred to herein as "apparent free-product" because free-product in a well is not a measure of actual product thickness or recoverable volumes in the soils adjacent to each well. Tracking total apparent free-product volume and comparing that number to the total volume recovered during an EFR event (as determined by above ground storage tank (AST) gauging with the interface probe) is also a method to determine how much free product was drawn out of the soils surrounding the EFR well casings. RMT observed measurable free product within 14 of the 74 wells monitored on June 14, 2004 (Table 5). Table 1 lists apparent free product thickness measurements recorded during 2Q04.

RMT's subcontractor, CEMCO, used the recorded free product measurements to determine the placement of the drop pipe that maximized free product recovery volumes produced during each EFR event. Table 1 also provides a cumulative breakdown of EFR specific information such as minimum and maximum free product thickness levels (in feet), associated waste management costs, extracted product (liquid and vapor phase) and groundwater volumes (in gallons) to date.

During 2Q04, EFR activities were conducted utilizing a Nortech, Inc. 55B vacuum head apparatus capable of producing a vacuum of 17-inches of mercury (in Hg) at 100 cubic feet per minute (cfm). This unit is connected to a fitted 55-gallon drum, and braced to a mobile 4-wheel drive vehicle. When compared to the previously utilized vacuum trucks, use of this system has

enabled CEMCO to get closer to each individual EFR well head, minimizing potential losses in the system previously experienced due to the use of greater lengths of extraction hose, while maximizing the maneuverability of the drop pipe. Use of this system has also resulted in a more efficient EFR event, minimizing the volume of groundwater extracted. The average ratio of extracted groundwater to free product during the 2Q04 was approximately 0.16 gallons/gallon. Between November 1997 to December 1999 (before use of the current extraction method), the ratio of extracted groundwater to free product was 4.7 gallons/gallon.

Once the extraction apparatus is full (approximately 55-gallons), the free product and limited volume of groundwater are transferred to the on-site 550-gallon AST equipped with secondary containment for satellite storage. The fluids generated during EFR events, including purged groundwater generated during groundwater monitoring activities, are transported off-site by Clean Venture, Inc. (US EPA ID No. NJ0000027193) and managed by Cycle Chem, Inc. (USEPA ID No. NJD002200046) at their facility located in Elizabeth, New Jersey. Waste fluids will be transported off-site before the August 2004 EFR event.

2.2 Apparent Free Product Trends

The following sections describe apparent product trends in the western, west central, east central, and eastern portions of the free product area. In this section, apparent product refers to the volume (in gallons) of free product occupying the casing of each EFR well. As described in the following sections, "total volume of apparent free product" represents the sum of product volumes from each EFR well within each of the four segregated regions. This data is summarized on Table 2.

The apparent product thickness is not representative of the actual free product thickness or volume that exists within the formation outside of the well casing. RMT previously evaluated actual or "true" free product thickness and volume in our report entitled *Free Product Volume Analysis* (May 2000). That report estimated a total volume of recoverable (using *in-situ* methods) free product actually present in the subsurface to be between 8,000 and 13,000 gallons. In addition, the LNAPL "true" thickness calculated in the May 2000 report (using the Van Genuchten method) for the area comprising all of the regions discussed below averaged 0.265 feet. The calculated "true" thickness also was very similar to the apparent free-product thicknesses in terms of defining 4 separate regions or sub-areas with the most significant amounts of free product. Similarly in this report, to facilitate description of the current distribution of free product, the zone of free product occurrence has been divided into the same four sub-areas. These four areas, discussed from west to east, are summarized below:

2.2.1 Western Region of Free Product

In the western portion of the free product area (EFR wells 1, 2, 3, 17, 18, 20, 21, and 28), there was a decrease in the total volume of apparent free product measured in EFR wells during the 2Q04 compared to first quarter of 2004 (1Q04) (5.48 gallons in 2Q04 down from 6.89 gallons in 1Q04). Free product thickness increased at EFR wells 2, 3, 20, and 21 and remained the same at EFR wells 1, 17, and 18. EFR well 28 was destroyed during test pit activities in early spring and so was not measured during 2Q04. In general, however, the overall apparent free product volume in the western region increased compared to 1Q04 based on increased levels of free product in WP-A2, WP-A4, WP-A6, and WP-A9 (Figure 3 and Appendix B).

2.2.2 West-Central Region of Free Product

In the western-central portion of the free product area (EFR wells 4, 5, 6, 7, 19, 22, 23, 24, 25, 26, and 27), the total volume of apparent free product decreased from 1.57 gallons in 1Q04 to 1.35 gallons in 2Q04. Free product thickness decreased at EFR wells 6, and 23, increased at EFR wells 5, 25, and 26, and remained the same at EFR wells 4, 7, 19, 22, 24, and 27. However, the decreases in apparent free product within the EFR wells was offset somewhat by increased levels of free product in WP-A7 and WP-A8 (Figure 3 and Appendix B).

2.2.3 East-Central Region of Free Product

In the east-central portion of the free product area (EFR wells 8, 9, 10, 11, 12, and 13), there was a decrease in the total volume of apparent free product measured during the 2Q04 compared to the previous quarter (1.97 gallons in 1Q04 down to 1.17 gallons in 2Q04). Free product thickness decreased at EFR wells 8, 9, and 13, increased at EFR wells 10 and 11, and was not found in EFR well 12 for all three EFR events. The overall apparent free product volume in the eastern-central region continues to decrease since LEC initiated EFR in November 1997 (Figure 3 and Appendix B).

2.2.4 Eastern Region of Free Product

Similar to previous events, no free product was detected in EFR wells 14, 15, and 16 during 2Q04. However, a free product thickness 0.92 feet (0.60 gallons) was measured in 2Q04 in nearby monitoring well MW-3. This represents an increase in the apparent free product for that well compared to the 1Q04 results. (Refer to Figure 3 and Appendix B)

2.2.5 Site Total Apparent Free Product Area

In general, the total apparent free product trend chart indicates a general decrease in the apparent free product volumes existing within on-site wells. A cumulative breakdown of free product thickness and apparent free product volumes specific to each region is presented in Table 2. Additionally, trend charts for each of the four free product regions, and for the site as a whole, graphically display apparent free product volume fluctuations over time are presented in Appendix B. Figure 3 shows apparent thickness contours and the lateral extent of apparent free product on-site during 2Q04. This figure incorporates the apparent free product thickness measurements from the groundwater monitoring event conducted by RMT on June 14, 2004 and the pre-EFR event measurements from the EFR wells obtained by CEMCO on June 17, 2004.

2.3 Recovered Free Product Volume Estimates

After the completion of each EFR event, the total volume of extracted fluid was determined by gauging the 55-gallon vacuum head drum previously mentioned in Section 2.1 with an oil/water interface probe. The drum was allowed to stabilize for one hour prior to gauging to allow for separation of emulsified product resulting from aggressive recovery prior to gauging. Gauging was conducted on a level surface and recorded thickness was converted to volumes based on a conversion of 1.65 gallons per inch of fluid thickness in the 55-gallon drum. Recovered liquid free product volume was determined by subtracting the volume of water from the total fluid volume collected in the 55-gallon drum. Vapor phase product volume was estimated based on vacuum head airflow (in cfm) and vented contaminant concentrations (in ppm) obtained during extraction at each EFR well. The volume (combined liquid and vapor phase) of free product extracted during each month's EFR event is presented in Table 3.

The total extraction volume (measurable free product, product vapor, and groundwater) during 1Q04 was 66.00 gallons. Approximately 56.91 gallons of that amount were measurable free product as determined by vacuum head drum gauging and vapor phase volume calculations, and 9.09 gallons were groundwater. Since initiation in December 1997, on-site EFR activities have removed approximately 15,222 gallons of total fluids, of which, approximately 4,006 gallons were measurable free phase product. Based on historical modeling data (Ref. Section 2.2), approximately 4,000 to 9,000 gallons of recoverable free product remains in the ground. Tables 1, 2, and 3 contain a complete breakdown of EFR related information.

Section 3
Quarterly Groundwater Monitoring

3.1 Implementation of Monitored Natural Attenuation Work Plan

In a letter dated January 15, 2004, USEPA requested LEC to implement the remainder of the May 2001 MNA workplan. Prior to that time, LEC implemented only the low-flow sampling protocols as outlined in the MNA workplan. LEC began implementing additional portions of the MNA workplan during this quarterly sampling event. Sampling and testing of the wells coded in red color on Figure 4 took place per the approved workplan.

MW-19-10 was installed in the MW-19/Hot Spot 1 area on May 17, 2004 and sampled during the 2Q04 monitoring event. The soil boring log and laboratory analytical results are presented in Appendix F. The installation of MW-27 and MW-28 in the Wharton Enterprises area were postponed due to high river levels in mid-May that flooded the area.

3.2 Methods

RMT conducted groundwater monitoring activities in the 2Q04 on June 14th - 18th. In the past, 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, the remaining parts of the MNA workplan had not yet been initiated, although a QED bladder pump system with disposable Teflon bladders (as described in the approved MNA workplan Quality Assurance Project Plan (QAPP)) was used to collect groundwater samples at LEC. However, per the comments received from USEPA on January 15, 2004 regarding their review of the third quarter 2003 (3Q03) monitoring report, LEC began implementing additional portions of the MNA workplan during this 2Q04 sampling event. Locations of the quarterly MNA monitoring wells are shown on Figure 2.

Quarterly MNA monitoring wells MW-2R, MW-4, MW-14S, MW-14I, MW-15S, MW-15I, MW-17S, MW-21, MW-22(R), and MW-25(R), and WP-B7 were sampled utilizing the low-flow methodology outlined in the QAPP, presented in Appendix A of the approved MNA workplan. Specifically, RMT used a QED bladder pump to remove groundwater at a low rate (average of 0.3 L/minute). Before sampling the wells we measured field parameters until they stabilized to

obtain a representative sample of the formation water for laboratory testing. Monitoring well sampling data for the 2Q04 is presented in Appendix C. Once the field parameters in each well stabilized, or following adequate purging if stabilization could not be achieved, samples were collected from the Teflon-lined polyethylene tubing of the bladder pump. Monitoring wells MW-3, MW-6R, and WP-B6 were not able to be sampled because free product was measured in MW-3 and MW-6R, and strong odors were detected in WP-B6.

A sample duplicate, a trip blank and a rinsate blank were collected to satisfy Quality Assurance/Quality Control (QA/QC) requirements. A summary of the quarterly groundwater monitoring QA/QC requirements for the LEC site is also outlined in Table 4. The trip blank was prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory. The duplicate was collected from monitoring well MW-19-7 (duplicate sample No. Dupe-01) and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), DEHP, and MNA parameters. The rinsate blank was collected by circulating triple distilled water through the cleaned bladder pump assembly to verify that 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. A field (atmosphere) blank was not collected during the sampling event due to sampler error. A field (atmosphere) blank is 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. This sample will be collected during third quarter 2004 (3Q04).

RMT submitted the samples to Lancaster Laboratories, Inc. (Lancaster), located in Lancaster, Pennsylvania for BTEX and DEHP, analysis per the current MNA groundwater monitoring protocol outlined in Table 4.

3.3 Groundwater Elevations and Flow Direction

On June 14, 2004, RMT measured static groundwater levels from 76 different locations throughout the site (Table 5). RMT used these data to calculate groundwater elevations and evaluate the groundwater flow pattern in the shallow aquifer system.

Figure 4 displays the site-wide shallow groundwater elevation contours, and indicates groundwater flow direction in the shallow aquifer east of the rail spur is similar to that observed historically (generally toward the east). Washington Forge Pond acts as a constant head boundary that provides the driving head for both shallow and deep groundwater flow. As a result, areas of the site exhibit upward vertical gradients, while the drainage ditch acts as a discharge zone, as does the downstream portion of the Rockaway River. The portion of the

Rockaway River south of and immediately adjacent to the site is a losing reach, particularly in drought periods when the groundwater levels beneath the site are depressed a few feet and a gradient from the River into the site occurs. As one moves downstream the River transitions to a gaining stream, but the location of the transition oscillates due to changes in recharge events. Also exhibited in Figure 4 are the effects caused by the presence of the drainage ditch. The drainage ditch acts as a local groundwater "sink", and shallow groundwater flow direction from a large portion of the site is towards the drainage ditch.

The regional groundwater "sink" for this area is the Rockaway River, as exhibited by the strong upward vertical gradients observed for all of the on-site well clusters. For example, the water elevation in MW-11D(R) is 2.79 feet higher than the corrected water elevation for its' shallow counterpart MW-11S (Table 5). Similarly, data collected during the 2Q04 sampling event shows the water elevation in MW-14I is 0.41 feet higher than the water elevation for its' shallow counterpart MW-14S. Historical water level data for this and other locations of well clusters confirms the predominant upward vertical gradients across the site (Figures 7, and 8).

Shallow groundwater at the southern edge of the LEC site is generally recharged directly by the Rockaway River and first flows northwards towards the site and then toward the east. All flow from the site is ultimately to the drainage ditch and/or the Rockaway River (Figure 4). Although permission to access the Air Products property was not granted for this second quarterly event (because the current access agreement was in the process of being re-negotiated), historical data shows shallow groundwater on the Air Products property flows southeast, south, and southwest towards the drainage ditch.

The potentiometric surface contours were generated using the measured fluid level elevations in site shallow wells. We also used surface water elevations from points in the Rockaway River, and the Washington Forge Reservoir to control and interpret the groundwater elevation contours.

As described above in Section 1.2, we reexamined the groundwater contours in light of NJDEP comments regarding certain groundwater elevation points that were not in agreement with elevation contours. The contours presented on Figure 4 have been developed using a contouring protocol that strictly agrees with corrected elevations for the wells within the free-product zone. The resulting contours show a depressed water table that matches closely with the area of apparent free product thicknesses shown on Figure 3.

3.4 Testing Results

A comparison of the results of the chemical analyses to New Jersey Class IIa Groundwater Quality Standards (NJGWQS) is outlined in Table 6. The presence of BTEX and/or DEHP was

not detected at concentrations above NJGWQS in samples collected from MW-14S, MW-14I, MW-15S, MW-15I, MW-21, and MW-25(R). Following the approved MNA sampling protocol, MW-17S was only sampled for MNA parameters and not BTEX or DEHP. The presence of DEHP was detected in WP-B7, MW-2(R), MW-4, and MW-22(R) at concentrations of 25,000 µg/L, 15,000 µg/L, 5,200 µg/L, and 150 µg/L respectively. These concentrations exceed the NJGWQS for DEHP of 30 µg/L. In addition, total xylene concentrations were detected above the NJGWQS of 40 µg/L in MW-2(R) (49 µg/L) and MW-22(R) (1200 µg/L).

Concentrations of total xylenes and DEHP at MW-22(R) have consistently exceeded NJGWQS, concentrations of these constituents at downgradient monitoring location MW-14S have never exceeded NJGWQS. In addition, contaminant concentrations at monitoring location MW-25(R) (also located downgradient from MW-22R at certain times of the year) have not exceeded NJGWQS since second quarter 1997.

Monitoring well MW-11D(R) was not able to be sampled during the 2Q04 sampling event because the low flow sampling pump was unexpectedly contaminated with product from the previously sampled well. The need for decontaminating of pumps will be eliminated once the RAWP has been implemented and a permanent dedicated well network has been designed, approved, and installed. No discernable trend of DEHP concentrations in MW-11D(R) when the data are viewed in total from 1999 through 2003 (Table 6; Appendix D). In addition, as we have described in previous reports, the reliability of low-level detections of DEHP have been questionable because DEHP is ubiquitous in the environment, and it is also a common laboratory contaminant. In summary, sporadic past DEHP detections in MW-11D(R) are false positives based on the following: 1.) DEHP has often been found in laboratory blanks, 2.) past field decontamination of sampling equipment has at times likely been inadequate, and 3.) the very strong upward vertical hydraulic gradient (Table 5). LEC has performed a variety of tasks in order to eliminate or minimize production of false positive data. The first steps we took were to institute more rigid field decontamination procedures in order to minimize potential field cross-contamination, as well as changing to in-field use of triple-distilled decontamination water. This was followed by initiation of low-flow sampling methodology (March 2002) in order to minimize amounts of contaminated suspended particulate matter (*e.g.* clay particles) and purging of stagnant water within the well riser.

Despite these actions, laboratory cross-contamination of DEHP had still proved to be a concern in certain monitoring events through fourth quarter of 2002 (4Q02). As a result RMT evaluated several laboratories in terms of their in-house program to minimize DEHP as a common lab contaminant. As was mentioned in the 4Q02 monitoring report, beginning with first quarter 2003 (1Q03) Lancaster performed all laboratory analyses. As shown in the 2Q04 analytical results provided by Lancaster, DEHP was not detected above the method detection limit (MDL)

of 1.0 µg/L in either the laboratory blanks nor in any of the QA/QC samples taken during this event.

LEC will continue to sample groundwater from MW-11D(R) and test it for the presence of DEHP. However, MW-11I(R) and MW-11D(R) will be properly abandoned prior to initiation of the free product remediation, currently scheduled to begin in the fourth quarter 2004 (4Q04). This should satisfy the concerns of potential future upward trends in concentrations for the deep well expressed in the NJDEP letter received on June 30, 2004.

3.5 MNA Parameters

Tables 9 and 10 summarize the MNA field and analytical 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. These data will be examined closely in the future with respect to post-remediation evaluation of MNA.

Section 4
MW19/Hot Spot 1 Groundwater Monitoring

This section summarizes the results of a groundwater monitoring event conducted in the MW-19/Hot Spot 1 area on June 14-18, 2004. In their January 15, 2004 letter, the USEPA commented on their desire to begin MNA sampling. LEC began implementing the MNA workplan during this 2Q04 sampling event. Quarterly MNA monitoring wells MW-19, MW-19-1, MW-19-2, MW-19-5, MW-19-6, MW-19-7, MW-19-8, MW-19-9D, and MW-19-10 were sampled utilizing the low-flow methodology outlined in the QAPP, presented in Appendix A of the approved MNA workplan.

4.1 Monitoring Well Locations

Following the installation of MW19-10 per the MNA workplan, a NJ licensed surveyor surveyed the well including the top-of-casing elevation. The site was flown on February 14, 2002 and a site-wide topographic map was constructed from that aerial photograph. Figure 2 incorporates the newly surveyed well, MW-19-10, all of the MW-19/Hot Spot 1 area monitoring wells, and nearby buildings, utilities, fences, and streets.

4.2 Groundwater Flow

As in previous quarters, groundwater flow in the MW-19/Hot Spot 1 area is generally northwards and bends northeast (Figure 5). In addition, the localized flow of shallow groundwater in this area is also 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.

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.

4.3 Delineation of Groundwater Contamination

4.3.1 Contaminants of Concern

Table 7 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 on June 14-18, 2004. The June 2004 data also show concentrations of BTEX and DEHP continue to show a decreasing trend since 1998 in all the monitoring wells. Corresponding analytical laboratory reports are presented in Appendix E. Lancaster performed all laboratory analyses.

The NJGWQS for DEHP is not exceeded in any monitoring wells. Benzene, toluene, and total xylenes exceed the NJGWQS in groundwater collected from MW-19, MW19-5 and MW19-7. In addition, groundwater collected from MW-19 and MW19-5 exceeded the NJGWQS for ethylbenzene. MW-19 is located close to the former 10,000-gallon underground storage tanks (UST's E-3 and E-4) that likely were responsible for releasing some of the waste DEHP and BTEX constituents. However, these former UST's are no longer a 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 Bldg 9 may have resulted in releases of both DEHP and BTEX were stopped in 1987. Finally, there is no free product in this area. Therefore, there no longer appears to be any active primary source for DEHP or BTEX remaining in the MW-19/Hot-Spot 1 area. The decreasing concentrations over time also suggest that natural attenuation of dissolved contaminants is actively taking place.

No BTEX or DEHP were detected in the newly installed MW19-10. However, this well appears to be not immediately downgradient from MW-19-7 based on the first measured groundwater elevation from this newly installed well (Figure 5). LEC will continue to monitor the MW-19 area wells to further evaluate flow directions and the potential for a MNA remedy for addressing the dissolved contaminates of concern (COC's) in groundwater.

RMT constructed Figure 6 to show isoconcentration contours for total BTEX levels in 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 and qualified low levels of DEHP were detected in MW19-9D (Table 7). This shows that 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 hydraulic data we discuss below.

Table 5 lists monitoring well surveyed reference elevations, water level measurements, and groundwater elevations. Although NJDEP/EPA retracted their earlier requirement to pair a shallow well with MW19-9D, we installed MW19-9D only about 12 feet north of MW19-6 because of access issues. The driller had to conform to OSHA requirements and maintain a safe distance from the overhead power lines that overhang the north side of Ross Street. As previously stated the on-site NJDEP representative approved the well location in the field before drilling commenced.

The closeness of MW19-6 and MW19-9D allows a general comparison between groundwater elevations versus screened interval and to evaluate the vertical gradient. The hydraulic head at MW19-9D is 0.28 feet higher than at MW19-6, indicating a significant upward vertical gradient. The vertical distance between the middle of the MW19-6 and the MW19-9D 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 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 ft), the Rockaway River, acts as constant head boundaries comprising a regional aquifer discharge area.

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

4.3.2 MNA Parameters

Tables 8 and 9 summarize the MNA field and analytical 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. These data will be examined closely in the future with respect to post-remediation evaluation of MNA.

Section 5
Surface Water Monitoring

5.1 Discovery of LNAPL Discharge to Ditch and River

RMT mobilized to the LEC site on May 17, 2004 in order to install seven (7) passive diffusion bag samplers and three (3) new monitoring wells as required by the NJDEP. RMT field staff reported discovery of a visible oily sheen migrating from seep zones adjacent to the drainage ditch along the LEC property line fence at the southeastern corner of the LEC property, and into the river just southeast of WP-B7. RMT believes these releases are largely due to the springtime high water table. RMT has never before observed these seeps at this site, and we are not aware of any historical documentation of such seeps. Because of these discoveries we have expanded the proposed footprint of the source reduction excavation as shown on the revised Figure 8 from the RAWP (Appendix G). The following is a summary of activities that occurred following discovery of these presumed LNAPL discharges.

RMT notified LEC on May 21, 2004 that the oily sheen should be immediately reported per 33 CFR Part 153 (Control of Pollution by Oil and Hazardous Substances, Discharge Removal; specifically, Part 153 Subpart B entitled "Notice of Discharge of Oil or a Hazardous Substance"), and on the same day notified the National Response Center (Report # 722504). The following specific information was provided to Ms. Jones with the National Response Center at 1-800-424-8802:

- The reporting party provided to the National Response Center was:
  Mr. Karl DeLoof
  RMT, Inc.
  2025 E. Beltline Ave SE, Suite 402
  Grand Rapids, MI 49546
  Telephone: (616)975-5415
  Fax: (616)975-1098

- The Responsible party provided to the National Response Center was:
  L.E. Carpenter and Company
  33585 Walker Drive
  Avon Lake, OH 44018
  Contact Person: Mr. Cris Anderson
  L.E. Carpenter & Company
  Telephone: (440) 930-1334

- The site of the release provided was:
  170 North Main Street
  Morris County, Wharton, NJ 07885
  Site Contact: Mr. Dave Condon at 973-366-1750
- The time of the confirmed discharge provided was 11:35 EDT May 21,2004 and the volume of the release was reported as "intermittent sheen on surface water". The contaminants were reported as BTEX and DEHP.

Following notification to the National Response center, RMT also discussed the detailed specifics of the release with the NJDEP project manager for the LEC site, Mr. Anthony Cinque at 609-633-1416. Mr. Cinque requested that LEC halt migration of the sheen further downstream.

L.E. Carpenter & Company authorized RMT to halt the discharge per Subpart C of 33 CFR Part 153. RMT subcontracted with a local environmental emergency response company, Rapid Response, Inc. (Rapid Response) of Northampton, PA, who arrived at the site on May 21, 2004 at approximately 3:00 pm. Rapid Response installed oil booms and sweeps at the edge of the visible sheen present on the surface water of the ditch, and several yards downstream from the visible limit of that sheen.

One area of visible sheen was observed to begin near the LEC/Air Products fence line, which is where the elevated water level of the ditch was located at the time of discovery. The sheen was about 3 feet wide and extended from the LEC side of the ditch several feet out into the ditch surface water. Occurrence of this sheen has never been observed at this site in the past, and RMT believes that the seeps are related to unusually high groundwater levels. The seeps occur as a result of the elevated water table intercepting the ground surface. The LNAPL which floats as a thin layer or film on the water table is then released along with the seepage of water in areas adjacent to residual free product (see attached Figure 3 that shows the extent of free product as measured during the 2Q04 monitoring event).

As shown on the attached groundwater contour map (Figure 4), groundwater flow at the LEC site is towards the ditch and the river at the southeast corner of the LEC property. Groundwater flow on the Air Products side of the ditch is towards the drainage ditch itself, and therefore, contaminated groundwater from the LEC site cannot migrate beyond the ditch onto the Air Products property east of the ditch. No samples of the sheen have been collected, and no samples of the ditch surface water were collected during the 2Q04 event pending the new access agreement with Air Products. Samples of ditch surface water from the 1Q04 event showed j-qualified detections (below the practical quantitation limit (PQL)) for both xylenes and ethyl benzene (1.9 and 0.3 ppb respectively) in sample SW-5, located near the bend in the ditch by SG-D2 on Figure 4. Migration of a portion of the free-product constituents into the ditch was

further defined by the results of the PDB sampling that took place during the second quarterly event (see Section 5.3 below).

5.2 Surface Water Sampling

As part of the quarterly monitoring activities, RMT normally samples the eastern drainage channel that separates the adjacent Air Products facility from the LEC site and the adjacent Wharton Enterprises property. This sampling is conducted at the request of NJDEP as outlined in their letter dated May 31, 2002. Surface water sampling was not possible during 2Q04 because no signed access agreement was in place at the time RMT was on-site.

As shown in previous sampling event results, the drainage ditch influences shallow groundwater flow direction as described in Section 4.

Historical surface water sampling results are summarized in Table 10.

5.3 PDB Sampling and Testing in the Drainage Ditch and River

As outlined in the letter dated December 16, 2003, NJDEP recommended sampling groundwater directly below sediments in the drainage ditch and Rockaway River using PDB. The objective for collecting these samples is to better characterize potential groundwater discharge of constituents into the drainage ditch and the Rockaway River. It is important to note here that historical data shows some minimal (at detection limit) concentrations are often found in surface water samples collected quarterly from the drainage ditch (see Section 6), which verify concentrations of free product constituents are being transported into the drainage ditch. However, NJDEP seeks verification that sub-ditch flow is not expediting migration of constituents at higher concentrations than detected in surface water samples. NJDEP also believes some contaminated groundwater, especially in areas very close to the river could be contributing contaminants to the river at certain times of the year. In addition, new discoveries made during installation of the PDB samplers (see Section 5.1 above) now show active migration of LNAPL constituents into the river occurs, at least during certain times of the year. As described in Section 5, migration of product sheen into the river has been halted through the use of absorbent booms.

The PDB sampling methodology was discussed at the October 7, 2003 meeting with NJDEP, and during a telephone call with NJDEP on January 20, 2004. During that call, the number and locations for PDB samplers shown on Figures 2 and 4 were agreed upon. LEC installed the PDB samplers at the seven locations outlined on Figures 2 and 4 on May 17-19, 2004. During the installation activities while wading in the river to install PDB-4, field staff encountered some apparently contaminated sediments adjacent to the seawall near staff gauge SG-R2. Material

from silts entrapped between river cobbles appeared contaminated following their disturbance and mixing with the flowing river. Following installation a NJ licensed surveyor surveyed the PDB locations. Figure 2 incorporates the newly surveyed features. The PDB samplers were collected for VOC testing during the 2Q04 event. Field staff who collected the PDB samplers could not replicate disturbance and discovery of potentially contaminated sediments. The PDB results are summarized in Table 11.

The results for PDB-2, which was located at the southwestern bend in the ditch, agrees with historical surface water data and shows free product constituents are migrating into the surface water of the ditch. Results for PDB-3 indicate free product constituents have attenuated to less than detection level concentrations within a short distance downstream from PDB-2. Sample PDB-1 had no detectable volatile organic compounds (VOCs), and therefore defines the upstream limits of free product migration into the ditch.

Results for the PDB samplers installed in the river show that little to no free product constituents are migrating into the river in the areas sampled. However, the recent appearance of seeps and sheen migration into the river indicates that migration, at least during certain seasons, is occurring into the river just downstream from PDB-7. LEC will evaluate the need for further sampling of the groundwater surface water interface. Techniques that can be used to complete the testing will be pre-approved by NJDEP prior to installation.

PDB testing results further strengthens the need to implement the proposed source reduction as presented in the RAWP.

Section 6
Upcoming Sampling Activities and Remedial Actions

The following section briefly outlines activities anticipated for completion during 3Q04 and 4Q04. LEC completed the 3Q04 groundwater sampling event in August 2004. However, 4Q04 sampling activities will either be limited or delayed until completion of the RAWP implementation, and subsequent installation of the new monitoring well network.

6.1 Free Product Source Reduction

In December 2001, RMT conducted a subsurface investigation to further investigate methods to expedite removal of free product as outlined in the NJDEP approved workplan and amendment entitled *Workplan to Evaluate Free Product Remedial Strategies* (RMT, November 2001), and *Amendment to Workplan to Evaluate Free Product Remedial Strategies* (RMT, November 2001). Results of this investigation were submitted to USEPA and NJDEP in the document entitled *Findings & Recommendations Regarding a Conceptual Free-Product Remediation Strategy* in March 2002. NJDEP and USEPA comments were provided in the NJDEP letter dated July 26, 2002. Written responses to the comments outlined in the July 26, 2002 letter were provided to NJDEP and USEPA in the RMT response letter dated October 22, 2002. All of the issues described in the comments and response letters were addressed at the meeting held in Edison New Jersey on September 19, 2002. Both the NJDEP and USEPA verbally approved the conceptual approach to free product remediation during that meeting. As was requested in the NJDEP letter dated January 22, 2003, RMT submitted on March 4, 2003 a detailed schedule of all activities anticipated through remedial mobilization tentatively set at August 31, 2004. The schedule was revised and re-submitted on January 14, 2004. RMT, on behalf of LEC, prepared and submitted a Remedial Action Work Plan (RAWP) dated April 2004 that outlines both the engineering and design of the conceptual approach, and the various requirements (*i.e.*, plans, permits and approvals) needed to implement the remedy on-site.

Comments resulting from review of the RAWP were received from NJDEP and USEPA on July 21, 2004. Implementation of the source removal strategy presented in the RAWP will take place after the RAWP review comments have been addressed. Free product remediation is still tentatively scheduled to start in 4Q04.

6.2 Excavation and Disposal of Lead Soils

In November 2001, RMT conducted a subsurface investigation as outlined in the *Revised Workplan for Delineating and Characterizing Elevated Lead Concentrations in Soil* (RMT, May 2001) to delineate the extent of on-site lead contamination in soils. Results of this investigation were submitted to USEPA and NJDEP in the document entitled *Nature and Extent of Lead in Soils and Groundwater* in March 2002. NJDEP and USEPA comments were provided in the NJDEP letter dated July 26, 2002. Written responses to the comments outlined in the July 26, 2002 letter were discussed at the September 19, 2002 meeting and also provided to NJDEP and USEPA in the RMT response letter dated October 22, 2002. As was required in the NJDEP letter dated January 22, 2003, RMT on behalf of LEC, submitted the report entitled *Focused Feasibility Study Lead-Impacted Soil Remediation* (FFS)(RMT, February 2003) so that an Explanation of Significant Difference (ESD) could be prepared by NJDEP and USEPA documenting and approving this change in the current Record of Decision (ROD) remedial approach for lead soils from excavation and off-site disposal to excavation and on-site beneficial reuse. NJDEP and USEPA comments were received on July 3, 2003. On behalf of LEC, RMT attended a meeting with NJDEP and USEPA on October 7, 2003 to discuss the draft FFS comments. Based on the results of that meeting, LEC submitted a letter formally requesting withdrawal of the FFS on December 9, 2003. That letter stated lead contaminated soils would be remediated by implementing the original ROD alternative of removal and off-site disposal, except soils would be removed down to a level of 400 ppm (residential cleanup criterion) instead of the ROD-mandated cleanup level of 600 ppm (industrial cleanup criterion). The withdrawal of the lead FFS was approved by NJDEP and EPA in a letter dated December 23, 2003. Procedures for staging and removal of the lead-contaminated soils to an off-site disposal facility are detailed in the RAWP and this remediation will take place immediately prior to remediation of the LNAPL source area.

Tables

Table 1
L.E. CARPENTER - Wharton, New Jersey
Free Product Recovery - EFR Well # 1 - 28

EFR Event Date Well No.	Development 21-Nov-97 Feet of Product	EFR #1 09-Dec-97 Feet of Product	EFR #2 07-Jan-98 Feet of Product	EFR #3 22-Jan-98 Feet of Product	EFR #4 17-Feb-98 Feet of Product	EFR #5 13-Mar-98 Feet of Product	EFR #6 27-Mar-98 Feet of Product	EFR #7 24-Apr-98 Feet of Product	EFR #8 29-May-98 Feet of Product	EFR #9 30-Jun-98 Feet of Product
EFR-1	1.64	1.53	1.94	0.36	2.48	0.93	0.94	1.42	1.55	2.11
EFR-2	1.55	1.50	1.86	0.06	2.20	2.96	2.92	2.65	2.44	1.78
EFR-3	0.86	1.02	1.27	--	1.58	1.19	0.03	0.24	0.19	0.77
EFR-4	1.03	2.27	0.54	0.07	0.30	--	--	--	--	0.03
EFR-5	4.03	3.74	4.25	0.32	3.29	3.39	1.71	2.71	2.02	1.86
EFR-6	0.72	1.00	1.24	--	2.27	1.71	1.17	2.23	1.55	1.56
EFR-7	0.17	0.09	0.16	--	--	--	--	--	--	0.02
EFR-8	0.00	0.00	0.00	--	0.08	--	--	--	--	0.03
EFR-9	0.00	1.10	1.79	1.16	0.16	3.08	0.08	0.07	0.11	0.29
EFR-10	5.20	5.80	6.42	2.34	7.47	7.06	6.05	6.71	5.47	5.68
EFR-11	3.07	4.04	4.28	5.64	4.47	4.32	4.57	5.91	5.73	6.08
EFR-12	0.04	0.03	0.00	--	0.07	--	--	--	0.02	0.28
EFR-13	0.48	0.56	1.33	0.05	1.28	1.07	1.07	0.67	--	0.90
EFR-14	0.10	0.16	0.00	--	--	--	--	--	--	--
EFR-15	0.09	0.12	0.27	--	0.06	--	--	--	--	0.03
EFR-16	0.00	0.00	0.00	--	--	--	--	--	--	--
EFR-17	0.04	0.17	1.56	0.39	0.17	0.08	--	0.09	--	0.02
EFR-18	0.10	0.10	0.09	--	--	--	--	--	--	0.01
EFR-19	0.54	2.80	1.89	0.49	1.95	1.63	1.44	0.88	0.65	0.42
EFR-20	0.40	0.34	0.95	0.47	0.27	--	--	0.04	0.24	0.37
EFR-21	2.36	2.40	2.71	2.74	2.74	4.14	3.97	4.23	3.98	3.29
EFR-22	3.78	4.10	0.05	4.81	3.40	4.69	3.42	1.82	1.22	0.96
EFR-23	0.00	0.06	0.06	--	0.02	--	--	--	--	0.05
EFR-24	0.00	0.00	0.00	--	--	--	--	--	--	--
EFR-25	2.95	3.00	3.55	0.26	4.15	3.11	0.72	0.82	0.79	0.78
EFR-26	2.20	2.05	2.66	0.29	2.30	2.12	1.43	1.32	1.95	1.21
EFR-27	0.15	0.02	2.71	0.02	0.74	--	--	0.03	--	0.02
EFR-28	2.20	2.30	1.78	0.48	2.60	3.20	3.48	4.40	3.16	2.61
MIN (ft)	0.00	0.00	0.00	0.02	0.02	0.08	0.03	0.03	0.02	0.01
MAX (ft)	5.20	5.80	6.42	5.64	7.47	7.06	6.05	6.71	5.73	6.08
Average (ft)	1.20	1.44	1.55	1.17	1.92	2.79	2.21	2.01	1.94	1.25
Total Free Product (ft)	33.69	40.30	43.36	19.94	44.05	44.68	33.10	36.24	31.07	31.16
Total Standing Free Product Volume (gal)	21.60	25.83	27.79	12.78	28.24	28.64	21.22	23.23	19.92	19.97
Estimated Total Free Product Removed (gal) (1) *(Liquid and Vapor Phase Free Product Volume)*	315.00	250.00	210.00	80.00	120.00	130.00	100.00	110.00	95.00	105.00
Estimated Total Fluids Removed (gal) *(Liquid Phase Free Product Volume plus Groundwater Extraction Volume) as of Jan 2000*										
Vapor Phase Free Product Extraction Volume (gal) *as of Jan 2000*										
Liquid Phase Free Product Extraction Volume (gal) *as of Jan 2000*										
Groundwater Extraction Volume (gal) per each EFR Event (7) *as of Jan 2000*										
Total EFR Extraction Volume (gal) *(Total Volume: free product + groundwater + product vapor)*	2350.00	1410.00	376.00	256.00	314.00	300.00	339.00	403.00	390.00	561.00
Estimated Volume Removed Resulting from Drum Purging (GW purge water) *if applicable* (9)	-	-	-	-	-	338	150	600	70	110
Total Volume Removed from Site (gal) *(Manifested volume)* (8)	2,350	1,410	376	256	314	638	489	1,003	460	671
Cumulative Total Free Product Removed (gal)	315	565	775	855	975	1,105	1,205	1,315	1,410	1,515
Extraction, Transportation & Disposal Cost(2)	$ 3,976.37	$ 2,742.62	$ 1,130.50	$ 1,130.50	$ 1,219.12	$ 1,431.87	$ 1,541.31	$ 2,038.43	$ 1,240.75	$ 1,347.69
Unit Cost per gal(3)	$ 1.69	$ 1.95	$ 3.01	$ 4.42	$ 3.88	$ 2.24	$ 3.15	$ 2.03	$ 2.70	$ 2.01
State Manifest Document Number	NJA2786096	NJA2786165	NJA2787308	NJA2785935	NJA2785830	NJA2785548	NJA2785541	NJA2787847	NJA2785596	NJA2970479

EFR Event Date Well No.	EFR #10 31-Jul-98 Feet of Product	EFR #11(4) 24-Aug-98 Feet of Product	EFR #12 17-Sep-98 Feet of Product	EFR #13 22-Oct-98 Feet of Product	EFR #14 20-Nov-98 Feet of Product	EFR #15 18-Dec-98 Feet of Product	EFR #16 13-Jan-99 Feet of Product	EFR #17 18-Feb-99 Feet of Product	EFR #18 24-Mar-99 Feet of Product	EFR #19 19-Apr-99 Feet of Product	EFR #20 18-May-99 Feet of Product	EFR #21 22-Jun-99 Feet of Product
EFR-1	1.28	1.22	1.71	1.59	1.71	1.57	0.53	1.79	3.68	1.13	1.09	1.15
EFR-2	1.12	1.09	1.21	1.29	1.51	1.41	0.95	1.40	2.42	1.46	1.22	0.92
EFR-3	0.72	0.93	1.03	1.01	1.19	1.18	1.14	1.01	1.63	0.36	0.25	0.86
EFR-4	0.38	1.23	2.40	2.17	1.75	1.79	0.73	0.10	0.14	0.08	0.05	0.03
EFR-5	2.38	2.52	2.33	2.52	2.19	2.28	2.68	3.47	6.15	2.65	2.61	2.66
EFR-6	1.96	1.56	1.42	1.25	1.29	1.38	0.49	0.84	0.88	0.61	1.07	1.16
EFR-7	0.02	0.03	0.07	0.05	0.20	0.16	0.02	0.04	0.04	0.07	0.02	0.08
EFR-8	0.04	0.08	0.13	0.09	0.07	0.03	0.12	0.00	0.03	0.03	0.03	0.09
EFR-9	0.61	0.98	1.23	1.31	1.26	1.86	0.74	0.49	0.06	0.11	0.32	0.49
EFR-10	4.94	4.52	4.34	4.38	3.98	3.99	3.68	5.79	5.52	4.97	4.23	3.71
EFR-11	4.73	4.47	3.95	4.06	3.65	3.52	2.42	4.69	2.84	2.02	2.48	3.28
EFR-12	0.22	0.28	0.24	0.15	0.29	0.17	0.04	0.11	0.05	0.02	0.02	0.10
EFR-13	0.56	0.48	0.66	0.82	1.13	1.30	0.22	1.19	0.15	0.49	0.50	0.44
EFR-14	-	--	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00
EFR-15	0.02	0.03	0.03	0.12	0.12	0.32	0.11	0.07	0.01	0.01	0.00	0.00
EFR-16	-	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-17	0.37	0.29	0.46	0.56	0.71	0.53	0.26	0.08	0.06	0.06	0.08	0.12
EFR-18	0.08	0.14	0.48	0.68	0.98	1.08	0.56	0.11	-	0.06	0.16	0.46
EFR-19	0.90	1.26	1.68	1.95	2.31	2.44	1.89	1.68	0.52	0.44	0.52	1.10
EFR-20	0.65	0.69	0.79	1.24	1.85	2.11	0.65	1.33	0.88	0.43	0.89	0.67
EFR-21	1.97	1.87	1.86	1.77	1.67	1.62	1.21	1.49	2.62	2.35	1.49	1.46
EFR-22	2.86	2.87	2.97	2.83	2.58	2.27	2.06	0.84	0.34	0.95	1.39	1.93
EFR-23	0.11	0.08	0.27	1.03	3.07	2.29	1.55	0.91	0.47	0.22	0.25	0.45
EFR-24	-	--	0.00	0.03	0.12	0.14	0.36	0.06	0.00	0.00	0.00	0.08
EFR-25	0.60	0.41	0.29	0.41	1.33	1.58	1.05	1.75	1.19	1.08	0.76	0.54
EFR-26	2.06	1.58	1.17	1.24	1.08	1.09	0.73	0.55	0.45	0.75	1.29	1.28
EFR-27	0.33	0.45	1.49	0.54	0.47	0.51	0.09	0.12	0.00	0.00	0.02	0.03
EFR-28	1.47	1.73	1.69	1.83	1.79	1.74	1.03	1.29	1.71	1.65	1.46	1.25
MIN (ft)	0.02	0.03	0.03	0.03	0.07	0.03	0.02	0.04	0.00	0.00	0.00	0.00
MAX (ft)	4.94	4.52	4.34	4.38	3.98	3.99	3.68	5.79	6.15	4.97	4.23	3.71
Average (ft)	1.22	1.23	1.36	1.34	1.47	1.48	0.97	1.25	1.22	0.79	0.79	0.88
Total Free Product (ft)	30.38	30.73	33.90	34.92	38.30	38.36	25.27	31.14	31.84	22.00	22.20	24.54
Total Standing Free Product Volume (gal)	19.47	19.70	22.04	22.70	24.90	24.93	16.43	20.24	20.70	14.30	14.43	15.95
Estimated Total Free Product Removed (gal) (1) *(Liquid and Vapor Phase Free Product Volume)*	76.00	55.00	60.00	15.00	25.00	51.00	23.00	74.00	40.00	59.24	47.20	38.51
Estimated Total Fluids Removed (gal) *(Liquid Phase Free Product Volume plus Groundwater Extraction Volume) as of Jan 2000*												
Vapor Phase Free Product Extraction Volume (gal) *as of Jan 2000*												
Liquid Phase Free Product Extraction Volume (gal) *as of Jan 2000*												
Groundwater Extraction Volume (gal) per each EFR Event (7) *as of Jan 2000*												
Total EFR Extraction Volume (gal) *(Total Volume: free product + groundwater + product vapor)*	211.00	220.00	329.00	212.00	120.00	256.00	234.00	498.00	689.00	904.76	360.00	564.26
Estimated Volume Removed Resulting from Drum Purging (GW purge water) *if applicable* (9)	71	-	110	-	-	110	-	235	-	139	-	-
Total Volume Removed from Site (gal) *(Manifested volume)* (8)	282	220	439	212	120	256	234	733	689	1,044	353	539
Cumulative Total Free Product Removed (gal)	1,591	1,646	1,706	1,721	1,746	1,797	1,820	1,894	1,934	1,993	2,040	2,079
Extraction, Transportation & Disposal Cost(2)	$ 1,324.62	$ 1,839.93	$ 1,389.19	$ 915.25	$ 863.25	$ 973.00	$ 1,156.62	$ 1,641.56	$ 1,703.44	$ 2,049.75	$ 930.31	$ 1,598.13
Unit Cost per gal(3)	$ 4.70	$ 8.36	$ 3.15	$ 4.32	$ 7.19	$ 3.80	$ 4.94	$ 2.24	$ 2.49	$ 1.96	$ 2.64	$ 2.97
State Manifest Document Number	NJA2988712	NJA2988449	NJA2988517	NJA2989962	NJA2986079	NJA2986996	NJA3017471	NJA3030488	NJA3016902	NJA3015530	NJA3031178	NJA3016209

Notes:
Product thickness was determined prior to the EFR event.
gal = gallon
All EFR Wells are 4 inch in diameter
EFR events 13 and 14 product removal was low due to significant quantities of product remaining emulsified

as the result of a short vac truck standing time prior to gauging

Product removal estimate does not take into account a % of product remaining emulsified do to high agitation
[shaded] Indicates that this data will be known once the next EFR waste T&D event is performed

(1) Estimated free product (gal) based on Vacuum Truck gauging (interface probe) directly after each EFR Event and vapor monitoring during extraction (See Table 3)
(2) Total invoiced disposal cost for EFR event (product and groundwater) and monitoring well purge water from 1/4iy well development and monitoring activities *(if applicable)*
(3) Total Cost per gallon includes product transportation & disposal, manifest prep, & regulatory admin. fee for combined EFR and GW purge water volumes *(if applicable)*
(4) EFR # 11 free product volume was 55 gal and contained PCBs (approx. weight 450lbs total @ specific gravity of 8.18 lbs./gal). Disposal costs were significantly higher due to PCB content
(5) EFR # 23 cost and unit cost higher than normal due to additional vac truck trans and mob time. As the vac truck was broken when it reached the site, a 3 hour credit will be applied to next months EFR T&D bill.
(6) Free product stored in an on-site 550-gallon AST equipped with secondary containment. AST contents, along with groundwater resulting from well purge activities are drained and transported by CycleChem/CleanVenture every 90 days .
(7) Volume of ground water collected during each EFR event. Volume estimated using an oil/water interface probe on the 55-gal extraction drum. On-Site measurement began 1st quarter of 2000.
(8) Those volumes that are totaled over a specific period (beginning 1st quarter 2000) is that volume specific to each of the EFR event it represents.
(9) Estimated by subtracting the free product aqueous volume and extracted groundwater volume for each of the representative EFR event from the total removal volume manifested for a specific disposal event
(10) EFR events did not take place in January or February 2001 due to access issues caused by inclement weather.
(11) This shippment contained 7.0 ppm of PCBs in organic layer and % moisture of organic lyer 57.58%
(12) Vapor phase free product volume not determined for July 2003 EFR Event No. 68 due to instrument failure
(13) This shipment contained 18.3 ppm PCBs, 2nd sample contained 12.5 ppm PCBs.

Table 1
L.E. CARPENTER - Wharton, New Jersey
Free Product Recovery - EFR Well # 1 - 28

EFR Event Date / Well No.	EFR #22 26-Jul-99 Feet of Product	EFR #23 [5] 27-Aug-99 Feet of Product	EFR #24 22-Sep-99 Feet of Product	EFR #25 27-Oct-99 Feet of Product	EFR #26 30-Nov-99 Feet of Product	EFR #27 16-Dec-99 Feet of Product	EFR #28 29-Jan-00 Feet of Product	EFR #29 18-Feb-00 Feet of Product	EFR #30 24-Mar-00 Feet of Product	EFR #31 19-Apr-00 Feet of Product	EFR #32 18-May-00 Feet of Product	EFR #33 16-Jun-00 Feet of Product	EFR #34 18-Jul-00 Feet of Product	EFR #35 17-Aug-00 Feet of Product	EFR #36 18-Sep-00 Feet of Product	EFR #37 25-Oct-00 Feet of Product	EFR #38 17-Nov-00 Feet of Product	EFR #39 15-Dec-00 Feet of Product	EFR #40 [10] 15-Mar-01 Feet of Product	EFR #41 23-Apr-01 Feet of Product	EFR #42 25-May-01 Feet of Product	EFR #43 13-Jun-01 Feet of Product	EFR #44 27-Jul-01 Feet of Product
EFR-1	1.49	1.27	1.94	1.53	1.47	1.20	1.22	0.85	1.95	1.59	1.54	2.10	1.51	1.26	1.53	1.00	1.07	1.14	2.91	1.25	1.02	1.14	0.57
EFR-2	1.21	1.00	0.53	1.35	1.29	1.40	0.95	1.04	2.25	2.00	1.64	1.89	1.40	0.36	1.08	0.97	1.09	0.78	2.92	2.09	1.75	2.26	1.22
EFR-3	0.89	1.03	0.74	0.69	0.47	0.02	0.51	0.07	0.09	0.09	0.62	1.02	0.25	0.02	0.08	0.44	0.43	0.46	0.33	0.29	0.49	0.70	0.40
EFR-4	0.44	0.99	0.51	0.11	0.03	0.68	0.61	0.48	0.11	0.11	0.41	0.22	0.05	0.02	0.02	0.02	0.05	0.21	0.59	1.65	0.01	0.44	0.02
EFR-5	2.96	1.57	1.77	3.23	2.99	1.27	2.95	2.46	2.91	2.54	1.84	2.34	1.99	1.69	1.57	2.74	2.47	2.76	5.95	1.75	1.90	0.82	2.24
EFR-6	1.51	0.91	0.15	0.86	0.53	0.39	1.07	0.77	0.29	0.31	0.49	0.27	0.54	0.29	0.55	0.83	0.79	0.96	2.05	0.32	0.43	0.16	0.46
EFR-7	0.28	0.05	0.01	0.07	0.04	0.47	0.15	0.02	0.35	0.01	0.02	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.28	0.02	0.02	0.00	0.00
EFR-8	0.39	0.27	0.09	0.13	0.05	0.11	0.05	0.06	0.08	0.03	0.05	0.03	0.02	0.01	0.01	4.26	0.02	0.06	0.03	0.05	0.04	0.03	0.01
EFR-9	1.16	0.56	0.41	0.28	0.10	0.15	0.13	0.08	0.19	0.02	0.06	0.06	0.12	0.16	0.08	0.02	0.50	0.77	0.57	0.07	0.56	0.07	0.14
EFR-10	3.63	2.47	3.02	5.18	3.95	3.07	4.50	3.55	3.50	4.50	1.36	2.50	3.09	0.75	2.76	3.86	3.27	4.05	5.64	3.17	3.52	3.32	3.73
EFR-11	2.78	1.57	1.93	3.20	3.11	1.07	3.44	4.95	2.41	2.95	2.93	2.49	4.12	0.79	4.73	0.16	4.00	3.73	2.82	2.41	3.56	2.60	3.91
EFR-12	0.30	0.20	0.03	0.09	0.07	0.01	0.09	0.49	0.45	0.10	0.19	0.01	0.01	0.00	0.03	0.11	0.04	0.02	0.07	0.02	0.25	0.01	0.01
EFR-13	1.33	1.01	0.74	0.78	0.57	0.25	0.36	0.34	0.49	0.47	0.59	0.55	0.73	0.49	0.22	0.25	0.09	0.15	1.14	0.27	0.78	0.25	0.39
EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-15	0.00	0.13	0.04	0.02	0.08	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-17	0.39	0.36	0.10	0.06	0.24	0.25	0.11	0.32	0.04	0.16	0.65	0.04	0.01	0.02	0.09	0.06	0.36	0.01	0.41	0.31	0.51	0.29	0.02
EFR-18	0.96	1.37	0.61	0.36	0.77	0.05	0.20	0.05	0.12	0.04	0.32	0.01	0.06	0.16	0.09	0.31	0.31	0.20	3.27	1.35	0.43	0.31	0.01
EFR-19	2.05	2.02	0.51	1.54	0.94	0.69	1.57	1.73	0.25	0.60	0.98	0.17	0.69	0.34	0.22	0.87	0.59	1.42	2.32	0.65	1.98	1.01	0.44
EFR-20	1.59	1.86	0.47	1.92	1.36	0.76	1.08	2.58	0.64	0.42	0.54	0.33	0.30	0.39	0.46	0.54	0.11	0.37	0.24	0.97	0.52	0.31	0.09
EFR-21	1.57	1.04	1.01	2.32	1.40	1.70	1.92	1.34	3.04	2.86	2.47	3.02	2.09	1.52	2.76	1.79	1.65	1.37	4.09	3.51	2.96	2.01	1.98
EFR-22	1.47	1.41	0.17	2.22	1.76	0.53	0.82	0.58	0.09	0.15	0.05	0.05	0.01	0.18	0.06	0.53	2.14	1.50	0.91	0.05	0.43	0.00	0.00
EFR-23	2.19	1.09	0.12	0.53	0.54	0.24	0.23	0.31	0.45	0.06	0.06	0.01	0.13	0.09	0.07	0.07	0.09	0.29	0.07	0.03	0.88	0.28	0.05
EFR-24	0.08	0.05	0.00	0.00	0.04	0.13	0.11	0.07	0.58	0.02	0.03	0.00	0.00	0.00	0.01	0.01	0.01	0.04	2.27	0.05	0.34	0.01	0.01
EFR-25	1.74	1.49	0.21	0.39	0.19	0.05	0.31	0.39	0.58	0.21	0.10	0.03	0.10	0.09	0.10	0.19	0.12	0.10	0.04	0.39	0.28	0.14	0.03
EFR-26	1.23	0.72	0.29	0.52	0.94	0.59	1.54	1.10	1.33	1.69	2.02	1.44	2.25	1.38	2.01	2.05	1.79	1.10	2.64	2.55	2.69	1.48	2.24
EFR-27	0.17	0.21	0.06	0.01	0.01	0.01	0.02	0.14	0.20	0.01	0.03	0.04	0.01	0.01	0.15	0.01	0.01	0.01	0.49	0.05	0.04	0.00	0.01
EFR-28	1.87	1.78	0.38	2.19	0.96	1.42	1.33	1.00	2.30	2.42	1.81	2.68	1.72	2.48	2.02	1.39	1.36	0.64	2.81	2.75	1.86	2.34	1.36
MIN (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX (ft)	3.63	2.47	3.02	5.18	3.95	3.07	4.50	4.95	3.50	4.50	2.93	3.02	4.12	2.48	4.73	4.26	4.00	4.05	5.95	3.51	3.56	3.32	3.91
Average (ft)	1.18	0.94	0.57	1.06	0.88	0.58	0.87	0.89	0.88	0.84	0.75	0.76	0.76	0.45	0.74	0.80	0.80	0.79	1.60	0.95	0.97	0.73	0.69
Total Free Product (ft)	39.11	26.36	16.94	29.68	24.59	16.37	24.34	24.79	24.62	23.38	20.91	21.30	21.14	12.49	20.67	22.51	22.36	22.23	44.76	26.62	27.24	20.38	19.33
Total Standing Free Product Volume (gal)	21.52	17.19	10.36	19.29	15.98	10.64	15.82	16.11	16.00	15.20	13.59	13.85	13.74	8.12	13.44	14.63	14.53	14.45	29.09	17.30	17.71	13.25	12.56
Estimated Total Free Product Removed (gal) [1] *(Liquid and Vapor Phase Free Product Volume)*	54.48	36.00	44.00	54.73	44.79	49.34	43.52	51.66	48.14	45.46	45.50	43.66	40.38	22.05	26.07	44.12	35.36	49.32	79.06	46.44	56.76	37.50	40.36
Estimated Total Fluids Removed (gal) *(Liquid Phase Free Product Volume plus Groundwater Extraction Volume) as of Jan 2000*							40.93	46.21	52.80	41.26	40.18	39.44	40.43	20.13	21.05	39.79	31.36	43.73	74.01	40.01	51.15	31.23	36.30
Vapor Phase Free Product Extraction Volume (gal) *as of Jan 2000*							6.55	7.93	10.19	5.86	6.31	6.05	7.60	5.22	5.26	6.58	5.65	6.42	11.06	8.49	8.90	7.50	6.53
Liquid Phase Free Product Extraction Volume (gal) *as of Jan 2000*							36.97	43.73	37.95	39.61	39.19	38.61	38.78	16.83	19.81	37.54	29.71	42.90	68.00	37.95	47.85	30.00	33.83
Groundwater Extraction Volume (gal) per each EFR Event [7] *as of Jan 2000*							3.96	2.48	14.85	1.65	0.99	0.83	1.65	3.30	1.24	1.24	1.65	0.83	6.01	2.06	3.30	1.24	2.48
Total EFR Extraction Volume (gal) (Total Volume: *free product + groundwater + product vapor)*	725.54	298.00	239.00	265.00	249.07	350.00	47.48	54.14	62.99	47.11	46.49	44.49	48.03	25.35	26.31	46.36	37.01	50.15	85.07	48.50	60.05	38.73	42.84
Estimated Volume Removed Resulting from Drum Purging (GW purge water) *if applicable* [6]	374	-	-	199	82	-	357				110				134			148			296		
Total Volume Removed from Site (gal) *(Manifested volume)* [8]	1,100	292	241	464	331	350	539				250				225			306			415		
Cumulative Total Free Product Removed (gal)	2,133	2,169	2,213	2,268	2,313	2,362	2,406	2,457	2,506	2,551	2,597	2,640	2,687	2,709	2,734	2,778	2,813	2,863	2,942	2,989	3,045	3,082	3,123
Extraction, Transportation & Disposal Cost[2]	$ 2,165.75	$ 2,102.12	$ 995.81	$ 1,288.50	$ 1,028.99	$ 969.87	$ 1,045.62				$ 795.13				$ 762.31			$ 996.13			$ 1,175.19		
Unit Cost per gal[3]	$ 1.97	$ 7.40	$ 4.13	$ 2.79	$ 3.11	$ 2.77	$ 1.94				$ 3.18				$ 3.39			$ 3.26			$ 2.83		
State Manifest Document Number	NJA3016543	NJA3022956	NJA2986932	NJA313015	NJA030027	NJA3074974	NJA3114860				NJA3115867				NJA3101135			NJA3239139			NJA3288383		

Table 1
L.E. CARPENTER - Wharton, New Jersey
Free Product Recovery - EFR Well # 1 - 28

EFR Event Date Well No.	EFR #45 24-Aug-01 Feet of Product	EFR #46 25-Sep-01 Feet of Product	EFR #47 25-Oct-01 Feet of Product	EFR #48 20-Nov-01 Feet of Product	EFR #49 31-Dec-01 Feet of Product	EFR #50 29-Jan-02 Feet of Product	EFR #51 20-Feb-02 Feet of Product	EFR #52 26-Mar-02 Feet of Product	EFR #53 10-Apr-02 Feet of Product	EFR #54 06-May-02 Feet of Product	EFR #55 19-Jun-02 Feet of Product	EFR #56 15-Jul-02 Feet of Product	EFR #57 09-Aug-02 Feet of Product	EFR #58 13-Sep-02 Feet of Product	EFR #59 08-Oct-02 Feet of Product	EFR #60 07-Nov-02 Feet of Product	EFR #61 17-Dec-02 Feet of Product	EFR #62 11-Mar-03 Feet of Product	EFR #63 17-Mar-03 Feet of Product	EFR #64 21-Mar-03 Feet of Product	EFR #65 10-Apr-03 Feet of Product	EFR #66 09-May-03 Feet of Product
EFR-1	0.80	1.29	1.00	1.51	1.57	2.07	1.93	0.90	0.77	1.00	1.92	0.65	0.91	1.14	0.83	1.52	1.33	0.69	0.22	0.41	0.45	0.19
EFR-2	1.17	1.22	1.14	1.15	1.19	1.37	1.33	1.40	1.20	2.39	2.15	1.33	1.02	0.09	1.27	2.86	3.07	1.96	0.94	1.02	1.40	1.54
EFR-3	0.86	0.51	0.81	0.76	0.80	0.70	0.78	1.05	1.09	1.28	1.53	0.25	0.89	0.81	0.91	0.98	0.88	0.70	0.30	0.20	0.07	0.14
EFR-4	1.86	0.11	0.57	0.68	0.54	0.26	1.13	0.37	0.89	0.99	1.07	1	0.26	0.11	0.43	2.86	0.52	0.00	0.00	0.00	0.00	0.00
EFR-5	2.05	2.26	2.55	2.10	2.67	2.66	2.69	3.50	3.07	3.25	2.17	2.01	2.00	2.05	1.57	1.68	0.37	2.91	1.19	0.15	0.79	0.49
EFR-6	0.49	0.37	1.13	1.56	1.23	0.71	2.21	2.30	0.77	0.43	0.27	0.54	0.45	0.62	0.38	3.14	1.63	0.27	0.29	0.27	0.39	0.14
EFR-7	0.16	0.00	0.05	0.08	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-8	0.18	0.00	0.18	0.16	0.22	0.01	0.04	0.07	0.10	0.05	0.07	0	0.14	0.29	0.18	0.1	0.25	0.37	0.27	0.23	0.33	0.05
EFR-9	0.27	0.39	0.56	0.85	0.32	0.29	0.45	0.32	0.32	0.28	0.11	0.35	0.30	0.19	0.32	0.33	0.25	0.24	0.02	0.32	0.54	0.17
EFR-10	2.30	2.62	2.70	2.61	2.91	2.02	3.32	3.48	2.77	2.64	3.39	3.16	2.31	2.83	1.95	2.70	2.76	2.45	0.84	0.28	0.94	0.79
EFR-11	2.97	3.86	3.22	2.44	2.90	2.89	2.58	2.12	0.99	0.67	1.01	1.54	2.08	3.91	2.06	1.88	1.87	2.62	4.69	3.83	1.19	0.99
EFR-12	0.23	0.00	0.00	0.34	0.21	0.26	0.11	0.10	0.15	0.00	0.06	0.30	0.06	0.33	0.25	0.24	0.64	0.56	0.49	0.52	0.45	0.13
EFR-13	0.47	0.38	0.46	0.88	0.44	0.84	0.44	0.87	0.68	1.71	1.11	0.55	0.26	0.61	0.30	0.55	0.68	0.08	0.11	0.26	0.25	0.12
EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-15	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.20	0.00	0.09	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00
EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-17	0.49	0.34	0.85	0.97	1.57	1.49	2.23	1.90	0.77	0.75	0.60	0.49	0.67	1.50	0.71	1.10	1.07	0.18	0.03	0.00	0.00	0.39
EFR-18	0.13	0.41	0.69	0.75	1.22	1.90	1.00	1.07	0.81	0.80	0.05	0.32	0.02	1.56	0.21	0.04	0.84	1.32	1.31	0.04	0.00	0.65
EFR-19	1.19	0.54	2.18	2.36	2.38	2.26	3.22	2.90	2.69	1.34	0.95	1.82	1.55	2.55	0.35	1.30	1.03	0.40	0.90	0.31	1.51	0.52
EFR-20	0.32	0.24	0.73	1.10	1.29	1.78	0.48	1.24	1.24	1.74	2.03	1.62	1.59	1.85	1.47	1.77	2.45	2.30	1.88	1.33	2.42	1.00
EFR-21	1.61	1.87	1.58	1.39	1.54	1.51	1.60	2.25	1.05	2.11	2.51	1.99	1.46	0.02	0.44	0.00	0.00	0.01	2.43	1.95	1.45	2.44
EFR-22	0.47	0.67	1.22	1.53	1.38	0.98	0.63	0.80	0.39	0.16	0.19	0.32	0.11	0.22	1.39	1.09	0.76	2.60	0.54	0.00	0.00	0.00
EFR-23	0.34	0.07	0.95	2.67	0.76	0.98	1.13	0.01	0.70	0.57	0.52	0.60	0.38	0.77	0.53	0.91	0.67	0.82	0.06	0.50	2.24	0.05
EFR-24	0.27	0.14	0.35	0.38	0.34	0.47	2.66	0.60	1.35	0.33	0.24	1.18	0.19	0.13	0.16	0.01	0.00	0.00	0.00	0.00	0.00	0.00
EFR-25	0.47	0.09	0.43	0.53	0.64	0.82	0.98	0.75	1.21	0.33	0.29	0.36	0.25	0.35	0.28	0.33	0.69	0.14	0.09	0.05	0.21	0.32
EFR-26	1.07	1.20	1.45	1.22	1.13	1.14	0.87	1.55	1.67	1.83	1.92	2.42	1.69	1.24	0.59	0.28	0.40	0.33	0.27	0.30	0.18	0.51
EFR-27	0.04	0.00	0.62	0.49	0.13	0.53	0.32	0.00	0.00	0.38	1.31	1.10	0.04	1.43	2.53	1.77	3.10	2.49	0.00	0.00	0.00	0.00
EFR-28	1.67	1.05	1.50	1.38	1.51	1.67	1.86	0.21	0.53	0.29	0.35	1.08	0.38	1.22	0.22	0.14	0.28	1.04	0.30	0.61	0.44	0.38
MIN (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX (ft)	2.97	3.86	3.22	2.67	2.91	2.89	3.32	3.50	3.07	3.25	3.39	3.16	2.31	3.91	2.53	3.14	3.10	2.91	4.69	3.83	2.42	2.44
Average (ft)	0.75	0.70	0.97	1.07	1.06	1.05	1.21	1.06	0.93	0.93	0.92	0.90	0.68	0.93	0.69	1.00	0.91	0.87	0.61	0.45	0.54	0.39
Total Free Product (ft)	21.08	19.52	27.29	30.01	29.67	29.55	33.86	29.61	25.91	26.11	25.82	25.11	19.01	25.91	19.43	27.86	25.54	24.47	17.07	12.59	15.15	11.02
Total Standing Free Product Volume (gal)	19.70	12.69	17.74	19.51	19.29	19.21	22.01	19.38	16.84	16.97	16.79	16.32	12.36	16.84	12.63	18.11	16.60	15.91	11.10	8.18	9.85	7.16
Estimated Total Free Product Removed (gal) [1] *(Liquid and Vapor Phase Free Product Volume)*	37.70	27.86	28.54	31.09	29.36	32.48	33.28	29.73	31.72	28.10	29.15	25.59	26.19	39.55	28.67	25.66	27.22	38.50	30.39	17.21	27.34	19.05
Estimated Total Fluids Removed (gal) *(Liquid Phase Free Product Volume plus Groundwater Extraction Volume) as of Jan 2000*	33.00	25.58	25.16	26.40	23.93	24.75	26.40	25.16	28.05	26.40	28.05	25.58	24.75	37.13	31.02	28.05	28.05	38.78	31.35	17.33	30.53	19.39
Vapor Phase Free Product Extraction Volume (gal) *as of Jan 2000*	6.35	4.76	6.26	7.99	7.91	9.38	8.53	6.63	6.15	5.00	6.05	2.49	3.51	6.55	1.93	1.74	1.64	1.38	1.51	0.71	0.94	0.90
Liquid Phase Free Product Extraction Volume (gal) *as of Jan 2000*	31.35	23.10	22.28	23.10	21.45	23.10	24.75	23.10	25.58	23.10	23.10	23.10	22.69	33.00	26.73	23.93	25.58	37.13	28.86	16.50	26.40	18.15
Groundwater Extraction Volume (gal) per each EFR Event [7] *as of Jan 2000*	1.65	2.48	2.89	3.30	2.48	1.65	1.65	2.06	2.48	3.30	4.95	2.48	2.06	4.13	4.29	4.13	2.48	1.65	2.48	0.83	4.13	1.24
Total EFR Extraction Volume (gal) (Total Volume: *free product + groundwater + product vapor)*	39.35	30.34	31.42	34.39	31.84	34.13	34.93	31.79	34.21	31.40	34.10	28.07	28.26	43.68	32.95	29.80	29.70	40.16	32.87	18.04	31.47	20.29
Estimated Volume Removed Resulting from Drum Purging (GW purge water) *if applicable* [8]	90				0				142				0					328.09				
Total Volume Removed from Site (gal) *(Manifested volume)* [8]	200				100				250				105					529				
Cumulative Total Free Product Removed (gal)	3,160	3,188	3,217	3,248	3,277	3,310	3,343	3,373	3,404	3,433	3,462	3,487	3,513	3,553	3,582	3,607	3,635	3,673	3,703	3,721	3,748	3,767
Extraction, Transportation & Disposal Cost[2]	$ 1,069.50				$ 766.26				$ 995.12				$ 851.00					$				
Unit Cost per gal[3]	$ 5.35				$ 7.66				$ 3.98				$ 8.10					$				
State Manifest Document Number	NJA4036630				NJA4036384				NJA4036992				NJA4069029 (11)					NJA5010142 (13)				

Table 1
L.E. CARPENTER - Wharton, New Jersey
Free Product Recovery - EFR Well # 1 - 28

EFR Event Date Well No.	EFR #67 10-Jun-03 Feet of Product	EFR #68 (2) 09-Jul-03 Feet of Product	EFR #69 07-Aug-03 Feet of Product	EFR #70 09-Sep-03 Feet of Product	EFR #71 09-Oct-03 Feet of Product	EFR #72 06-Nov-03 Feet of Product	EFR #73 31-Dec-03 Feet of Product	EFR #74 13-Jan-04 Feet of Product	EFR #75 25-Feb-04 Feet of Product	EFR #76 30-Mar-04 Feet of Product	EFR #77 16-Apr-04 Feet of Product	EFR #78 20-May-04 Feet of Product	EFR #79 17-Jun-04 Feet of Product	EFR AVERAGES	EFR TOTALS
EFR-1	0.48	0.19	0.49	0.59	0.89	0.26	0.09	0.05	0.29	0.19	0.12	0.08	0.12		
EFR-2	2.34	1.61	1.32	1.41	1.75	1.22	1.10	0.59	0.45	0.47	0.52	0.54	0.58		
EFR-3	0.05	0.08	0.10	0.19	0.19	0.08	0.05	0.01	0.01	0.14	0.02	0.04	0.17		
EFR-4	0.00	0.00	0.00	0.03	0	0	0	0	0	0	0	0	0		
EFR-5	0.81	0.29	0.29	0.72	0.73	0.51	0.42	0.11	0.22	0.28	0.08	0.01	0.50		
EFR-6	0.49	0.12	0.00	0.16	0.07	0.00	0.22	0.06	0.01	0.02	0.05	0.00	0.02		
EFR-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00		
EFR-8	0.11	0.00	0.00	0	0.02	0.03	0.03	0.02	0.07	0.02	0.05	0	0.02		
EFR-9	0.10	1.03	0.00	0.02	0.07	0.06	0.03	0.06	0.04	0.26	0.14	0.00	0.02		
EFR-10	1.39	0.54	0.00	2.21	0.92	0.93	0.76	0.16	0.37	0.15	0.19	0.02	0.27		
EFR-11	1.01	0.65	0.19	3.57	1.52	0.70	0.89	0.21	0.29	1.18	0.00	0.01	0.92		
EFR-12	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0	0.16	0.00	0.00	0.00	0.00		
EFR-13	0.27	0.03	0.12	0.18	0.09	0.08	0.07	0	0.01	0.03	0.09	0.06	0.02		
EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00		
EFR-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00		
EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00		
EFR-17	0.51	0.01	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00		
EFR-18	0.01	0.00	0.00	0.08	0.11	0.00	0.00	0	0.11	0.00	0.00	0.00	0.00		
EFR-19	0.09	0.00	0.00	0.00	0.02	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00		
EFR-20	3.18	2.41	0.00	1.78	2.40	2.59	2.51	1.2	1.19	1.49	0.95	1.20	1.14		
EFR-21	2.39	2.03	2.55	2.19	2.45	1.23	1.08	0.75	1.95	1.95	0.99	0.01	1.94		
EFR-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00		
EFR-23	0.26	0.04	0.00	0.11	0.10	0.10	0.26	0.02	0.17	0.02	0.09	0.00	0.02		
EFR-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00		
EFR-25	0.00	0.00	0.00	0.06	0.03	0.11	0.00	0	0.14	0.00	0.00	0.00	0.02		
EFR-26	0.20	0.15	0.00	0.89	0.58	0.33	0.24	0.25	0.45	0.66	0.37	0.34	0.58		
EFR-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00		
EFR-28	0.30	0.09	0.08	0.06	0.11	0.14	0.16	0							
MIN (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
MAX (ft)	3.18	2.41	2.55	3.57	2.45	2.59	2.51	1.20	1.95	1.95	0.99	1.20	1.94		
Average (ft)	0.50	0.33	0.18	0.51	0.43	0.30	0.28	0.12	0.22	0.25	0.14	0.09	0.23		
Total Free Product (ft)	14.11	9.23	5.14	14.39	11.93	8.37	7.90	3.49	5.96	6.70	3.95	2.41	6.24		
Total Standing Free Product Volume (gal)	9.17	6.00	3.34	9.35	7.75	5.44	5.14	2.27	3.81	4.36	2.57	1.57	4.06		
Estimated Total Free Product Removed (gal) (1) *(Liquid and Vapor Phase Free Product Volume)*	25.45	21.45	12.02	17.46	22.29	25.49	14.91	14.17	14.53	14.77	14.11	17.59	25.21	50	4,006
Estimated Total Fluids Removed (gal) *(Liquid Phase Free Product Volume plus Groundwater Extraction Volume) as of Jan 2000*	26.40	22.28	14.95	20.63	24.34	29.70	16.50	15.67	28.88	15.68	14.03	21.46	27.23	30	1,571
Vapor Phase Free Product Extraction Volume (gal) *as of Jan 2000*	2.35	0.00	1.39	0.96	0.84	0.74	0.88	0.56	0.50	1.57	0.91	0.26	2.11	4	232
Liquid Phase Free Product Extraction Volume (gal) *as of Jan 2000*	23.10	21.45	10.73	16.50	21.45	24.75	14.03	13.61	14.03	13.20	13.20	17.33	23.10	27	1,412
Groundwater Extraction Volume (gal) per each EFR Event (7) *as of Jan 2000*	3.30	0.83	4.13	4.13	2.89	4.95	2.48	2.06	14.85	2.48	0.83	4.13	4.13	3	160
Total EFR Extraction Volume (gal) *(Total Volume: free product + groundwater + product vapor)*	28.75	22.28	16.16	21.59	25.18	30.44	17.39	16.23	29.38	17.25	14.94	21.72	29.34	190	15,222
Estimated Volume Removed Resulting from Drum Purging (GW purge water) *if applicable* (8)														182	4,193
Total Volume Removed from Site (gal) *(Manifested volume)* (8)				125										485	18,902
Cumulative Total Free Product Removed (gal)	3,792	3,814	3,826	3,843	3,865	3,891	3,906	3,920	3,935	3,950	3,949	3,967	3,974	2,743	219,418
Extraction, Transportation & Disposal Cost(2)	1,344.26			$ 719.94										$ 1,267.08	$ 53,279.72
Unit Cost per gal(2)	2.54			$ 5.76										$ 3.74	N/A
State Manifest Document Number	NJA5076935													N/A	N/A

TABLE 2
L.E. CARPENTER - WHARTON, NEW JERSEY
REGIONAL APPARENT FREE PRODUCT TRENDS

	EFR Event Date	21-Nov-97	9-Dec-97	7-Jan-98	16-Feb-98	16-Mar-98	27-Mar-98	24-Apr-98	29-May-98	30-Jun-98	31-Jul-98	24-Aug-98	17-Sep-98	22-Oct-98	20-Nov-98	18-Dec-98	13-Jan-99	17-Feb-99	23-Mar-99
Western Region of Free Product	EFR-1	1.64	1.53	1.94	2.48	0.93	0.94	1.42	1.55	2.11	1.28	1.22	1.71	1.59	1.71	1.57	0.53	1.79	3.68
	EFR-2	1.55	1.50	1.86	2.20	2.96	2.92	2.65	2.44	1.78	1.12	1.09	1.21	1.29	1.51	1.41	0.95	1.40	2.42
	EFR-3	0.85	1.02	1.27	1.58	1.19	0.03	0.24	0.19	0.77	0.72	0.93	1.03	1.01	1.19	1.18	1.14	1.01	1.63
	EFR-17	0.04	0.17	1.56	0.17	0.08	0.00	0.09	0.00	0.02	0.37	0.29	0.46	0.56	0.71	0.53	0.26	0.08	0.06
	EFR-18	0.10	0.10	0.09	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.14	0.48	0.68	0.98	1.08	0.56	0.11	0.00
	EFR-20	0.40	0.34	0.95	0.27	0.00	0.00	0.04	0.24	0.37	0.65	0.63	0.79	1.24	1.85	2.11	0.65	1.33	0.88
	EFR-21	2.36	2.40	2.71	2.74	4.14	3.97	4.23	3.98	3.29	1.97	1.87	1.86	1.77	1.67	1.62	1.21	1.43	2.62
	EFR-28	2.20	2.30	1.78	2.60	3.20	3.48	4.40	3.16	2.61	1.47	1.73	1.69	1.83	1.79	1.74	1.03	1.29	1.71
	Total Free Product (ft)	9.14	9.36	12.16	12.04	12.50	11.34	13.07	11.56	10.96	7.66	7.90	9.23	9.97	11.41	11.24	6.33	8.44	13.00
	Total Free Product (gal)	5.86	6.00	7.79	7.72	8.01	7.27	8.38	7.41	7.03	4.91	5.06	6.00	6.48	7.42	7.31	4.11	5.49	8.45
West-Central Region of Free Product	EFR-4	1.03	2.27	0.54	0.30	0.00	0.00	0.00	0.00	0.03	0.38	1.23	2.40	2.17	1.75	1.79	0.73	0.10	0.14
	EFR-5	4.03	3.74	4.25	3.29	3.39	1.71	2.71	2.02	1.86	2.38	2.52	2.33	2.52	2.19	2.28	2.68	3.47	6.15
	EFR-6	0.72	1.00	1.24	2.27	1.71	1.17	2.23	1.55	1.56	1.96	1.56	1.42	1.25	1.29	1.38	0.49	0.84	0.88
	EFR-7	0.17	0.09	0.16	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.03	0.07	0.05	0.20	0.16	0.02	0.04	0.04
	EFR-19	0.54	2.80	1.89	1.95	1.63	1.44	0.88	0.65	0.42	0.90	1.26	1.68	1.95	2.31	2.44	1.83	1.68	0.52
	EFR-22	3.78	4.10	0.05	3.40	4.69	3.42	1.82	1.22	0.96	2.86	2.87	2.97	2.83	2.58	2.27	2.06	0.84	0.34
	EFR-23	0.00	0.06	0.06	0.02	0.00	0.00	0.00	0.00	0.05	0.11	0.08	0.27	1.03	3.07	2.29	1.55	0.91	0.47
	EFR-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.03	0.12	0.14	0.38	0.06	0.00
	EFR-25	2.95	3.00	3.55	4.15	3.11	0.72	0.82	0.79	0.78	0.60	0.41	0.29	0.41	1.33	1.58	1.05	1.75	1.19
	EFR-26	2.20	2.05	2.66	2.30	2.12	1.43	1.32	1.95	1.21	2.06	1.58	1.17	1.24	1.08	1.09	0.73	0.55	0.45
	EFR-27	0.15	0.02	2.71	0.74	0.00	0.00	0.03	0.00	0.02	0.33	0.45	1.49	0.54	0.47	0.51	0.09	0.12	0.00
	Total Free Product (ft)	15.57	19.13	17.11	18.42	16.65	9.89	9.81	8.18	6.91	11.60	11.99	14.09	14.02	16.39	15.93	11.61	10.36	10.18
	Total Free Product (gal)	9.98	12.26	10.97	11.81	10.67	6.34	6.29	5.24	4.43	7.44	7.69	9.16	9.11	10.65	10.35	7.55	6.73	6.62
East-Central Region of Free Product	EFR-8	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.03	0.04	0.08	0.13	0.09	0.07	0.03	0.12	0.00	0.03
	EFR-9	0.00	1.10	1.79	0.16	3.08	0.08	0.07	0.11	0.29	0.61	0.98	1.23	1.31	1.26	1.86	0.74	0.49	0.06
	EFR-10	5.20	5.80	6.42	7.47	7.06	6.05	6.71	5.47	5.68	4.94	4.52	4.34	4.38	3.98	3.99	3.68	5.79	5.52
	EFR-11	3.07	4.04	4.28	4.47	4.32	4.67	5.91	5.73	6.08	4.73	4.47	3.95	4.06	3.65	3.52	2.42	4.69	2.84
	EFR-12	0.04	0.03	0.00	0.07	0.00	0.00	0.00	0.02	0.28	0.22	0.28	0.24	0.15	0.29	0.17	0.04	0.11	0.05
	EFR-13	0.48	0.56	1.33	1.28	1.07	1.07	0.67	0.00	0.90	0.56	0.48	0.66	0.82	1.13	1.30	0.22	1.19	0.15
	Total Free Product (ft)	8.79	11.53	13.82	13.53	15.53	11.87	13.36	11.33	13.26	11.10	10.81	10.55	10.81	10.38	10.87	7.22	12.27	8.65
	Total Free Product (gal)	5.63	7.39	8.86	8.67	9.95	7.61	8.56	7.26	8.50	7.12	6.93	6.86	7.03	6.75	7.07	4.69	7.98	5.62
Eastern Region of Free Product	EFR-14	0.10	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.09	0.12	0.27	0.06	0.00	0.00	0.00	0.00	0.03	0.02	0.03	0.03	0.12	0.12	0.32	0.11	0.07	0.01
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.19	0.28	0.27	0.06	0.00	0.00	0.00	0.00	0.03	0.02	0.03	0.03	0.12	0.12	0.32	0.11	0.07	0.01
	Total Free Product (gal)	0.12	0.18	0.17	0.04	0.00	0.00	0.00	0.00	0.02	0.01	0.02	0.02	0.08	0.08	0.21	0.07	0.04	0.01
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		21.60	25.83	27.79	28.24	28.64	21.22	23.23	19.92	19.97	19.47	19.70	22.03	22.70	24.89	24.93	16.42	20.24	20.70

TABLE 2
L.E. CARPENTER - WHARTON, NEW JERSEY
REGIONAL APPARENT FREE PRODUCT TRENDS

	EFR Event Date	19-Apr-99	18-May-99	22-Jun-99	28-Jul-99	27-Aug-99	22-Sep-99	27-Oct-99	30-Nov-99	16-Dec-99	28-Jan-00	18-Feb-00	24-Mar-00	19-Apr-00	18-May-00	16-Jun-00	18-Jul-00	17-Aug-00	18-Sep-00
Western Region of Free Product	EFR-1	1.13	1.09	1.15	1.49	1.27	1.94	1.63	1.47	1.20	1.22	0.85	1.86	1.59	1.54	2.10	1.51	1.26	1.53
	EFR-2	1.46	1.22	0.92	1.21	1.00	0.63	1.35	1.28	1.40	0.06	1.04	2.25	2.00	1.64	1.89	1.40	0.36	1.08
	EFR-3	0.36	0.25	0.86	0.88	1.03	0.74	0.69	0.47	0.02	0.51	0.07	0.08	0.09	0.62	1.02	0.25	0.02	0.08
	EFR-17	0.06	0.08	0.12	0.39	0.36	0.10	0.06	0.24	0.25	0.11	0.32	0.04	0.16	0.65	0.04	0.01	0.02	0.09
	EFR-18	0.06	0.16	0.46	0.96	1.37	0.61	0.36	0.77	0.05	0.20	0.05	0.12	0.04	0.32	0.01	0.06	0.16	0.08
	EFR-20	0.43	0.89	0.87	1.59	1.86	0.47	1.92	1.36	0.75	1.08	2.58	0.64	0.42	0.54	0.33	0.30	0.39	0.45
	EFR-21	2.35	1.49	1.46	1.57	1.04	1.01	2.32	1.40	1.70	1.92	1.34	3.04	2.86	2.47	3.02	2.09	1.62	2.75
	EFR-28	1.65	1.46	1.25	1.67	1.78	0.38	2.19	0.96	1.42	1.33	1.00	2.30	2.42	1.81	2.68	1.72	2.48	2.02
	Total Free Product (ft)	7.50	6.64	7.09	9.76	9.71	5.88	10.52	7.95	6.79	6.43	7.25	10.33	9.58	9.59	11.09	7.34	6.31	8.08
	Total Free Product (gal)	4.88	4.32	4.61	6.34	6.31	3.82	6.84	5.17	4.41	4.18	4.71	6.71	6.23	6.23	7.21	4.77	4.10	5.25
West-Central Region of Free Product	EFR-4	0.08	0.05	0.03	0.44	0.99	0.51	0.11	0.03	0.58	0.51	0.48	0.11	0.11	0.41	0.22	0.05	0.02	0.02
	EFR-5	2.65	2.61	2.66	2.66	1.57	1.77	3.23	2.99	1.27	2.95	2.46	2.91	2.54	1.84	2.34	1.99	1.69	1.57
	EFR-6	0.61	1.07	1.16	1.51	0.91	0.15	0.86	0.63	0.33	1.07	0.77	0.29	0.31	0.49	0.27	0.54	0.29	0.55
	EFR-7	0.07	0.02	0.08	0.28	0.05	0.01	0.07	0.04	0.47	0.15	0.02	0.35	0.01	0.02	-	-	0.01	-
	EFR-19	0.44	0.52	1.10	2.05	2.02	0.51	1.54	0.84	0.69	1.67	1.73	0.25	0.60	0.98	0.17	0.63	0.34	0.22
	EFR-22	0.95	1.39	1.93	1.47	1.41	0.17	2.22	1.76	0.53	0.82	0.58	0.09	0.16	0.05	0.05	0.01	0.18	0.06
	EFR-23	0.22	0.25	0.45	2.13	1.03	0.12	0.53	0.64	0.24	0.23	0.31	0.46	0.06	0.06	0.01	0.13	0.03	0.07
	EFR-24	0.00	0.00	0.08	0.08	0.05	0.00	0.00	0.04	0.13	0.11	0.07	0.58	0.02	0.03	-	-	-	0.01
	EFR-25	1.08	0.76	0.54	1.74	1.48	0.21	0.39	0.19	0.05	0.31	0.39	0.58	0.21	0.10	0.03	0.10	0.03	0.10
	EFR-26	0.75	1.29	1.28	1.23	0.72	0.29	0.52	0.94	0.59	1.54	1.10	1.33	1.68	2.02	1.44	2.25	1.38	2.01
	EFR-27	0.00	0.02	0.03	0.17	0.21	0.06	0.01	0.01	0.01	0.02	0.14	0.20	0.01	0.03	0.04	0.01	0.01	0.15
	Total Free Product (ft)	6.85	7.98	9.34	13.76	10.44	3.80	9.48	8.11	4.89	9.38	8.05	7.15	5.71	6.03	4.57	5.71	3.98	4.76
	Total Free Product (gal)	4.45	5.19	6.07	8.94	6.79	2.47	6.16	5.27	3.18	6.10	5.23	4.65	3.71	3.92	2.97	3.71	2.59	3.09
East-Central Region of Free Product	EFR-8	0.03	0.03	0.09	0.39	0.27	0.09	0.13	0.05	0.11	0.05	0.06	0.08	0.03	0.05	0.03	0.02	0.01	0.01
	EFR-9	0.11	0.32	0.49	1.16	0.56	0.41	0.28	0.10	0.15	0.13	0.08	0.19	0.02	0.06	0.06	0.12	0.16	0.08
	EFR-10	4.97	4.23	3.71	3.63	2.47	3.02	5.18	3.95	3.07	4.50	3.55	3.50	4.50	1.36	2.50	3.09	0.75	2.76
	EFR-11	2.02	2.48	3.28	2.78	1.57	1.93	3.20	3.11	1.07	3.44	4.95	2.41	2.95	2.93	2.49	4.12	0.79	4.73
	EFR-12	0.02	0.02	0.10	0.30	0.20	0.03	0.09	0.67	0.01	0.03	0.49	0.46	0.10	0.19	0.01	0.01	0.00	0.03
	EFR-13	0.49	0.50	0.44	1.33	1.01	0.74	0.78	0.57	0.26	0.36	0.34	0.48	0.47	0.69	0.55	0.73	0.49	0.22
	Total Free Product (ft)	7.64	7.58	8.11	9.59	6.08	6.22	9.66	8.45	4.67	8.51	9.47	7.12	8.07	5.28	5.64	8.09	2.20	7.83
	Total Free Product (gal)	4.97	4.93	5.27	6.23	3.95	4.04	6.28	5.49	3.04	5.53	6.16	4.63	5.25	3.43	3.67	5.26	1.43	5.09
Eastern Region of Free Product	EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.01	0.00	0.00	0.00	0.13	0.04	0.02	0.08	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.01	0.00	0.00	0.00	0.13	0.04	0.02	0.08	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00
	Total Free Product (gal)	0.01	0.00	0.00	0.00	0.08	0.03	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		14.30	14.43	15.95	21.52	17.13	10.36	19.29	15.98	10.64	15.82	16.11	16.00	15.20	13.59	13.85	13.74	8.12	13.44

TABLE 2
L.E. CARPENTER - WHARTON, NEW JERSEY
REGIONAL APPARENT FREE PRODUCT TRENDS

	EFR Event Date	25-Oct-00	17-Nov-00	15-Dec-00	15-Mar-01	23-Apr-01	25-May-01	13-Jun-01	27-Jul-01	24-Aug-01	25-Sep-01	25-Oct-01	20-Nov-01	31-Dec-01	29-Jan-02	20-Feb-02	26-Mar-02	10-Apr-02	6-May-02
Western Region of Free Product	EFR-1	1.00	1.07	1.14	2.91	1.25	1.02	1.14	0.57	0.80	1.29	1.60	1.51	1.57	2.07	1.93	0.90	0.77	1.60
	EFR-2	0.97	1.09	0.76	2.92	2.66	1.75	2.26	1.22	1.17	1.22	1.14	1.15	1.19	1.37	1.33	1.40	1.20	2.39
	EFR-3	0.44	0.43	0.46	0.33	0.29	0.49	0.70	0.40	0.66	0.51	0.81	0.76	0.80	0.70	0.78	1.05	1.09	1.28
	EFR-17	0.06	0.36	0.01	0.41	0.31	0.51	0.28	0.02	0.49	0.34	0.85	0.97	1.57	1.43	2.23	1.90	0.77	0.75
	EFR-18	0.31	0.31	0.20	3.27	1.35	0.43	0.31	0.01	0.13	0.41	0.69	0.75	1.22	1.90	1.00	1.07	0.81	0.80
	EFR-20	0.54	0.11	0.37	0.24	0.97	0.52	0.31	0.08	0.32	0.24	0.73	1.10	1.29	1.78	0.46	1.24	1.24	1.74
	EFR-21	1.79	1.65	1.37	4.09	3.51	2.96	2.61	1.98	1.61	1.87	1.58	1.38	1.54	1.51	1.50	2.25	1.65	2.11
	EFR-28	1.39	1.36	0.64	2.81	2.75	1.86	2.34	1.36	1.67	1.05	1.50	1.38	1.51	1.67	1.86	0.21	0.63	0.29
	Total Free Product (ft)	6.50	6.38	4.95	16.98	13.09	9.54	9.95	5.64	6.85	6.93	8.90	9.00	10.69	12.43	11.09	10.02	8.16	10.96
	Total Free Product (gal)	4.23	4.15	3.22	11.04	8.51	6.20	6.47	3.67	4.45	4.50	5.79	5.85	6.95	8.08	7.21	6.51	5.30	7.12
West-Central Region of Free Product	EFR-4	0.02	0.05	0.21	0.59	1.65	0.01	0.44	0.02	1.86	0.11	0.57	0.68	0.54	0.26	1.13	0.37	0.89	0.98
	EFR-5	2.74	2.47	2.76	5.95	1.75	1.90	0.62	2.24	2.05	2.25	2.55	2.10	2.67	2.66	2.68	3.50	3.07	3.25
	EFR-6	0.83	0.79	0.96	2.05	0.32	0.43	0.16	0.46	0.49	0.37	1.13	1.56	1.23	0.71	2.21	2.30	0.77	0.43
	EFR-7	0.01	0.01	0.01	0.28	0.02	0.02	0.00	0.00	0.16	0.00	0.05	0.08	0.24	0.00	0.00	0.00	0.00	0.00
	EFR-19	0.87	0.59	1.42	2.32	0.65	1.98	1.01	0.44	1.19	0.54	2.15	2.36	2.38	2.26	3.22	2.90	2.69	1.34
	EFR-22	0.53	2.14	1.50	0.81	0.06	0.43	0.00	0.00	0.47	0.57	1.22	1.53	1.93	0.98	0.63	0.80	0.39	0.16
	EFR-23	0.07	0.08	0.39	0.07	0.03	0.88	0.28	0.05	0.34	0.07	0.85	2.67	0.75	0.98	1.13	0.01	0.70	0.57
	EFR-24	0.01	0.01	0.04	2.27	0.05	0.34	0.01	0.01	0.27	0.14	0.35	0.38	0.34	0.47	2.65	0.60	1.35	0.33
	EFR-25	0.19	0.12	0.10	0.04	0.39	0.28	0.14	0.03	0.47	0.09	0.43	0.63	0.64	0.82	0.99	0.75	1.21	0.33
	EFR-26	2.05	1.78	1.10	2.64	2.56	2.68	1.48	2.24	1.07	1.20	1.45	1.22	1.13	1.14	0.87	1.55	1.67	1.83
	EFR-27	0.01	0.01	0.01	0.48	0.05	0.04	0.00	0.01	0.04	0.00	0.52	0.49	0.13	0.53	0.32	0.00	0.00	0.38
	Total Free Product (ft)	7.33	8.05	8.50	17.50	7.53	8.99	4.14	5.50	8.41	5.34	11.27	13.70	11.98	10.81	15.83	12.78	12.74	9.60
	Total Free Product (gal)	4.76	5.23	5.53	11.38	4.89	5.84	2.69	3.58	5.47	3.47	7.33	8.91	7.79	7.03	10.29	8.31	8.28	6.24
East-Central Region of Free Product	EFR-8	0.16	0.02	0.06	0.03	0.05	0.04	0.03	0.01	0.18	0.00	0.18	0.16	0.22	0.01	0.04	0.07	0.10	0.05
	EFR-9	0.02	0.50	0.77	0.57	0.07	0.56	0.07	0.14	0.27	0.39	0.56	0.85	0.32	0.29	0.45	0.32	0.32	0.28
	EFR-10	3.88	3.27	4.05	5.64	3.17	3.52	3.32	3.73	2.30	2.62	2.70	2.61	2.91	2.02	3.32	3.48	2.77	2.64
	EFR-11	4.26	4.00	3.73	2.82	2.41	3.56	2.60	3.91	2.37	3.86	3.22	2.44	2.90	2.89	2.58	2.12	0.99	0.87
	EFR-12	0.11	0.04	0.02	0.07	0.02	0.25	0.01	0.01	0.23	0.00	0.00	0.34	0.21	0.26	0.11	0.10	0.15	0.00
	EFR-13	0.25	0.09	0.15	1.14	0.27	0.78	0.26	0.39	0.47	0.38	0.46	0.88	0.44	0.84	0.44	0.87	0.68	1.71
	Total Free Product (ft)	8.68	7.92	8.78	10.27	5.99	8.71	6.29	8.19	5.82	7.25	7.12	7.28	7.00	6.31	6.94	6.96	5.01	5.55
	Total Free Product (gal)	5.64	5.15	5.71	6.68	3.89	5.66	4.09	5.32	3.78	4.71	4.63	4.73	4.55	4.10	4.51	4.52	3.26	3.61
Eastern Region of Free Product	EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.05	0.00	0.00
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.05	0.00	0.00
	Total Free Product (gal)	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.03	0.00	0.00
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		14.63	14.53	14.45	29.09	17.30	17.71	13.25	12.56	13.70	12.69	17.74	19.51	19.29	19.21	22.01	19.38	16.84	16.97

TABLE 2
L.E. CARPENTER - WHARTON, NEW JERSEY
REGIONAL APPARENT FREE PRODUCT TRENDS

	EFR Event Date	13-Jun-02	15-Jul-02	9-Aug-02	13-Sep-02	8-Oct-02	7-Nov-02	17-Dec-02	11-Mar-03	17-Mar-03	24-Mar-03	10-Apr-03	8-May-03	10-Jun-03	8-Jul-03	7-Aug-03	9-Sep-03	9-Oct-03	6-Nov-03
									3 EFR events in March of 1Q03 due to snow and ice cover in Jan and Feb 03										
Western Region of Free Product	EFR-1	1.92	0.65	0.81	1.14	0.83	1.62	1.33	0.68	0.22	0.41	0.45	0.19	0.48	0.13	0.49	0.69	0.83	0.26
	EFR-2	2.15	1.33	1.02	0.09	1.27	2.86	3.07	1.96	0.94	1.02	1.40	1.54	2.34	1.61	1.32	1.41	1.75	1.22
	EFR-3	1.53	0.25	0.89	0.81	0.91	0.98	0.88	0.70	0.30	0.20	0.07	0.14	0.05	0.08	0.10	0.19	0.13	0.08
	EFR-17	0.60	0.43	0.67	1.50	0.71	1.10	1.07	0.18	0.03	0.00	0.00	0.39	0.51	0.01	0.00	0.00	0.00	0.00
	EFR-18	0.05	0.32	0.02	1.56	0.21	0.04	0.84	1.32	1.31	0.04	0.00	0.66	0.01	0.00	0.00	0.08	0.11	0.00
	EFR-20	2.03	1.62	1.58	1.85	1.47	1.77	2.45	2.30	1.88	1.33	2.42	1.00	3.18	2.41	0.00	1.78	2.40	2.59
	EFR-21	2.51	1.98	1.46	0.02	0.44	0.00	0.00	0.01	2.43	1.95	1.45	2.44	2.39	2.03	2.55	2.19	2.45	1.23
	EFR-28	0.35	1.08	0.38	1.22	0.22	0.14	0.28	1.04	0.30	0.61	0.44	0.38	0.30	0.09	0.08	0.06	0.11	0.14
	Total Free Product (ft)	11.14	7.66	6.83	8.19	6.06	8.51	9.92	8.19	7.41	5.56	6.23	6.74	9.26	6.36	4.54	6.40	7.78	5.52
	Total Free Product (gal)	7.24	4.98	4.44	5.32	3.94	5.53	6.45	5.32	4.82	3.61	4.05	4.38	6.02	4.13	2.95	4.16	5.06	3.59
West-Central Region of Free Product	EFR-4	1.07	1.00	0.26	0.11	0.43	2.86	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
	EFR-5	2.17	2.01	2.00	2.05	1.67	1.68	0.37	2.91	1.19	0.16	0.79	0.49	0.81	0.29	0.29	0.72	0.73	0.51
	EFR-6	0.27	0.54	0.45	0.62	0.38	3.14	1.63	0.27	0.29	0.27	0.39	0.14	0.43	0.12	0.00	0.16	0.07	0.00
	EFR-7	0.00	0.00	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-19	0.95	1.82	1.55	2.55	0.35	1.30	1.03	0.40	0.80	0.31	1.51	0.52	0.09	0.00	0.00	0.00	0.02	0.00
	EFR-22	0.19	0.32	0.11	0.22	1.39	1.09	0.76	2.60	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-23	0.52	0.60	0.38	0.77	0.53	0.81	0.67	0.82	0.06	0.50	2.24	0.05	0.26	0.04	0.00	0.11	0.10	0.10
	EFR-24	0.24	1.18	0.19	0.13	0.16	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-25	0.29	0.36	0.25	0.35	0.28	0.33	0.69	0.14	0.09	0.05	0.21	0.32	0.00	0.00	0.00	0.06	0.03	0.11
	EFR-26	1.92	2.42	1.69	1.24	0.59	0.28	0.40	0.33	0.27	0.30	0.18	0.51	0.20	0.15	0.00	0.93	0.58	0.33
	EFR-27	1.31	1.10	0.04	1.43	2.53	1.77	3.10	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	8.93	11.35	7.03	9.48	8.31	13.27	9.17	9.96	3.24	1.59	5.32	2.03	1.79	0.60	0.29	2.01	1.53	1.05
	Total Free Product (gal)	5.80	7.38	4.57	6.16	5.40	8.63	5.96	6.47	2.11	1.03	3.46	1.32	1.16	0.39	0.19	1.31	0.99	0.68
East-Central Region of Free Product	EFR-8	0.07	0.00	0.14	0.28	0.18	0.10	0.25	0.37	0.27	0.23	0.33	0.05	0.11	0.00	0.00	0.00	0.02	0.03
	EFR-9	0.11	0.35	0.30	0.19	0.32	0.33	0.25	0.24	0.02	0.32	0.54	0.17	0.10	1.03	0.00	0.02	0.07	0.06
	EFR-10	3.39	3.16	2.31	2.83	1.95	2.70	2.76	2.45	0.84	0.28	0.84	0.79	1.33	0.54	0.00	2.21	0.92	0.93
	EFR-11	1.01	1.54	2.08	3.91	2.06	1.88	1.87	2.62	4.69	3.83	1.19	0.99	1.01	0.66	0.19	3.57	1.52	0.70
	EFR-12	0.06	0.30	0.06	0.33	0.25	0.24	0.64	0.56	0.49	0.52	0.45	0.13	0.24	0.01	0.00	0.00	0.00	0.00
	EFR-13	1.11	0.55	0.26	0.61	0.30	0.55	0.68	0.08	0.11	0.26	0.25	0.12	0.27	0.03	0.12	0.18	0.09	0.08
	Total Free Product (ft)	5.75	5.90	5.15	8.15	5.06	5.80	6.45	6.32	6.42	5.44	3.60	2.25	3.06	2.27	0.31	5.98	2.62	1.80
	Total Free Product (gal)	3.74	3.84	3.35	5.30	3.29	3.77	4.19	4.11	4.17	3.54	2.34	1.46	1.99	1.48	0.20	3.89	1.70	1.17
Eastern Region of Free Product	EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.00	0.20	0.00	0.09	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.00	0.20	0.00	0.09	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (gal)	0.00	0.13	0.00	0.06	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		16.78	16.32	12.36	16.84	12.63	18.11	16.60	15.91	11.10	8.18	9.85	7.16	9.17	6.00	3.34	9.35	7.75	5.44

TABLE 2
L.E. CARPENTER - WHARTON, NEW JERSEY
REGIONAL APPARENT FREE PRODUCT TRENDS

	EFR Event Date	31-Dec-03	13-Jan-04	25-Feb-04	30-Mar-04	16-Apr-04	20-May-04	17-Jun-04
Western Region of Free Product	EFR-1	0.09	0.05	0.28	0.19	0.12	0.08	0.12
	EFR-2	1.10	0.59	0.45	0.47	0.52	0.64	0.58
	EFR-3	0.05	0.01	0.01	0.14	0.02	0.04	0.17
	EFR-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-18	0.00	0.00	0.11	0.00	0.00	0.00	0.00
	EFR-20	2.51	1.20	1.13	1.43	0.96	1.20	1.14
	EFR-21	1.08	0.75	1.95	1.85	0.99	0.01	1.84
	EFR-28	0.15	0.00	0.00	NM	NM	NM	NM
	Total Free Product (ft)	4.98	2.60	3.93	4.08	2.61	1.97	3.85
	Total Free Product (gal)	3.24	1.69	2.55	2.65	1.70	1.28	2.50
West-Central Region of Free Product	EFR-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-5	0.42	0.11	0.22	0.28	0.08	0.01	0.50
	EFR-6	0.22	0.06	0.01	0.02	0.05	0.00	0.02
	EFR-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-23	0.26	0.02	0.17	0.02	0.08	0.00	0.02
	EFR-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-25	0.00	0.00	0.14	0.00	0.00	0.00	0.02
	EFR-26	0.24	0.25	0.45	0.66	0.37	0.34	0.58
	EFR-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	1.14	0.44	0.99	0.98	0.58	0.35	1.14
	Total Free Product (gal)	0.74	0.29	0.64	0.64	0.38	0.23	0.74
East-Central Region of Free Product	EFR-8	0.03	0.02	0.07	0.02	0.05	0.00	0.02
	EFR-9	0.03	0.06	0.04	0.26	0.14	0.00	0.02
	EFR-10	0.76	0.16	0.37	0.15	0.19	0.02	0.27
	EFR-11	0.89	0.21	0.29	1.18	0.00	0.01	0.92
	EFR-12	0.00	0.00	0.16	0.00	0.00	0.00	0.00
	EFR-13	0.07	0.00	0.01	0.03	0.08	0.06	0.02
	Total Free Product (ft)	1.78	0.45	0.94	1.64	0.46	0.09	1.25
	Total Free Product (gal)	1.16	0.29	0.61	1.07	0.30	0.06	0.81
Eastern Region of Free Product	EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (gal)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		5.14	2.27	3.81	4.36	2.37	1.57	4.06

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR WELL GAUGING LOG

EFR #77 DATE 4/16/04

WELL ID	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (ft)	PRODUCT TICKNESS (ft)
EFR-1	8.88	9	0.12
EFR-2	9.48	10	0.52
EFR-3	9.45	9.47	0.02
EFR-4	10.07	10.07	0.00
EFR-5	9.23	9.31	0.08
EFR-6	8.45	8.5	0.05
EFR-7	4.79	4.79	0.00
EFR-8	4.97	5.02	0.05
EFR-9	5.14	5.28	0.14
EFR-10	5.66	5.85	0.19
EFR-11	5.4	5.4	0.00
EFR-12	4.5	4.5	0.00
EFR-13	4.13	4.21	0.08
EFR-14	3.91	3.91	0.00
EFR-15	3.04	3.04	0.00
EFR-16	3.97	3.97	0.00
EFR-17	7.31	7.31	0.00
EFR-18	8.02	8.02	0.00
EFR-19	10.77	10.77	0.00
EFR-20	8.91	9.87	0.96
EFR-21	7.86	8.85	0.99
EFR-22	10.55	10.55	0.00
EFR-23	6.97	7.05	0.08
EFR-24	10.42	10.42	0.00
EFR-25	9.91	9.91	0.00
EFR-26	12.07	12.44	0.37
EFR-27	8.33	8.33	0.00
EFR-28			

Total Volume Of Free Standing Product (gal) 2.37

CEMCO FIELD TECHNICIAN: G. Pizzuti

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR
VAPOR AND LIQUID PHASE VOLUMETRIC CALCULATION LOG

EFR #77 **16-Apr-04**

WELL ID	EXTRACTION TIME		VAPOR PHASE CONCENTRATION		SYSTEM RECOVERY DATA			
	TOTAL TIME (min)	TOTAL TIME (hrs)	PPM	LEL (%)	VACUUM In Hg	CFM	lbs/hr	Total lbs
EFR-1	2.0	0.0333	341	5	17	100	1.58	0.0526
EFR-2	3.0	0.0500	6,035	92	17	100	27.90	1.3949
EFR-3	2.0	0.0333	1,837	28	17	100	8.49	0.2830
EFR-4	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-5	2.0	0.0333	2,099	32	17	100	9.70	0.3235
EFR-6	3.0	0.0500	551	8	17	100	2.55	0.1274
EFR-7	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-8	2.0	0.0333	4,461	68	17	100	20.62	0.6874
EFR-9	2.0	0.0333	1,574	24	17	100	7.28	0.2426
EFR-10	3.0	0.0500	5,642	86	17	100	26.08	1.3040
EFR-11	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-12	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-13	2.0	0.0333	1,443	22	17	100	6.67	0.2224
EFR-14	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-15	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-16	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-17	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-18	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-19	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-20	7.0	0.1167	590	9	17	100	2.73	0.3184
EFR-21	7.0	0.1167	1,214	19	17	100	5.61	0.6545
EFR-22	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-23	2.0	0.0333	3,411	52	17	100	15.77	0.5256
EFR-24	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-25	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-26	3.0	0.0500	4,330	66	17	100	20.01	1.0007
EFR-27	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-28	0.0	0.0000	0	0	17	100	0.00	0.0000
Total EFR Time (hrs)		0.6667	AVG ppm	1524.01			TOTAL (Lbs)	7.1370
							TOTAL VAPOR PHASE VOLUME (GAL)	0.9140

NOTE: PPM = (% LEL on Meter) x (LEL of Product Mixture) x (1,000,000)
(1) Weighted LEL for analyte mixture @ 0.656% (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Analyte LELs: DEHP @ 0.3% ; Ethylbenzene @ 1%; Xylenes @ 1.1%

Where:

ppm_v =	Parts per Million by Volume		
Flow =	Cubic feet per minute (CFM)	100	
Molar Mass (MM) =	Molecular Weight (lb/lb-mole) =	292	(2)
IGC =	Ideal Gas Constant (359 ft^3/lb-mole) =	379	
LEL =	Free Product Mixture =	0.656	(1)
SG =	Specific Gravity =	0.9363	(3)

NOTE: (2) Avg. Molar Mass @ 292 (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Individual Analyte Molar Mass: DEHP @ 390.54; Ethylbenzene @ 106.2; Total Xylenes @ 106.2
(3) Average specific gravity of 0.9363 (RMT, Inc. product sampling in October 1999 @ MW-1R; EFR-11 & WP-A8)

$$\text{Pounds/Hr (lbs/hr)} = (ppm_v \times (60\ \text{min/hr}) \times (\text{CFM}) \times (\text{MM})) / ((1 \times 10^{6}) \times (359\ ft^3/\text{lb-mole}))$$

Free Product & Groundwater Gauging (55-Gal Drum)	
Product Thickness (in)	8.00
Groundwater Thickness (in)	0.50
Conversion @ 1.65 gal/inch	1.65
Total Product Volume (gal)	13.20
Total Groundwater Volume (gal)	0.83
Ratio Groundwater to Free Product (gal/gal)	0.06

		Y (gal)
Total Recovered Groundwater Volume (gal)		0.83
Total Recovered Free Product Volume (gal)		13.20
Total Recovered Fluids Volume (gal)		14.03
TOTAL EFR PRODUCT VOLUME		14.11 GAL

Date	16-Apr-04
Project #	6527.03
Subcontractor	CEMCO
Vac Head Utilized	NORTECH Corp. 551B

CEMCO Field Technician: Gary Pizzuti

RMT Project Manager: Nick Clevett

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR WELL GAUGING LOG

EFR #78 DATE 20-May-04

WELL ID	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (ft)	PRODUCT TICKNESS (ft)
EFR-1	8.97	9.05	0.08
EFR-2	9.57	10.21	0.64
EFR-3	10.56	10.6	0.04
EFR-4	10.78	10.78	0.00
EFR-5	9.38	9.39	0.01
EFR-6	8.67	8.67	0.00
EFR-7	5.58	5.58	0.00
EFR-8	5.03	5.03	0.00
EFR-9	5.22	5.22	0.00
EFR-10	5.64	5.66	0.02
EFR-11	5.44	5.45	0.01
EFR-12	4.58	4.58	0.00
EFR-13	4.19	4.25	0.06
EFR-14	3.96	3.96	0.00
EFR-15	3.37	3.37	0.00
EFR-16	4.18	4.18	0.00
EFR-17	7.65	7.65	0.00
EFR-18	8.29	8.29	0.00
EFR-19	11.19	11.19	0.00
EFR-20	8.99	10.19	1.20
EFR-21	7.93	7.94	0.01
EFR-22	11.17	11.17	0.00
EFR-23	7.54	7.54	0.00
EFR-24	10.65	10.65	0.00
EFR-25	10.3	10.3	0.00
EFR-26	12.15	12.49	0.34
EFR-27	9.05	9.05	0.00
EFR-28			

Total Volume Of Free Standing Product (gal) 1.57

CEMCO FIELD TECHNICIAN: G. Pizzuti

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR
VAPOR AND LIQUID PHASE VOLUMETRIC CALCULATION LOG

EFR #78 **20-May-04**

WELL ID	EXTRACTION TIME		VAPOR PHASE CONCENTRATION		SYSTEM RECOVERY DATA			
	TOTAL TIME (min)	TOTAL TIME (hrs)	PPM	LEL (%)	VACUUM In Hg	CFM	lbs/hr	Total lbs
EFR-1	2.0	0.0333	984	15	17	100	4.55	0.1516
EFR-2	3.5	0.0583	3,214	49	17	100	14.86	0.8668
EFR-3	2.0	0.0333	3,280	50	17	100	15.16	0.5054
EFR-4	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-5	1.0	0.0167	262	4	17	100	1.21	0.0202
EFR-6	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-7	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-8	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-9	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-10	1.0	0.0167	131	2	17	100	0.61	0.0101
EFR-11	1.0	0.0167	525	8	17	100	2.43	0.0404
EFR-12	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-13	2.0	0.0333	538	8	17	100	2.49	0.0829
EFR-14	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-15	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-16	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-17	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-18	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-19	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-20	6.0	0.1000	262	4	17	100	1.21	0.1213
EFR-21	1.0	0.0167	722	11	17	100	3.34	0.0556
EFR-22	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-23	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-24	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-25	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-26	3.0	0.0500	663	10	17	100	3.06	0.1531
EFR-27	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-28	0.0	0.0000	0	0	17	100	0.00	0.0000
Total EFR Time (hrs)		0.3750	AVG ppm	480.97			TOTAL (LBS)	2.0075
							TOTAL VAPOR PHASE VOLUME (GAL)	0.2571

NOTE: PPM = (% LEL on Meter) x (LEL of Product Mixture) x (1,000,000)
(1) Weighted LEL for analyte mixture @ 0.656% (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Analyte LELs: DEHP @ 0.3% ; Ethylbenzene @ 1%; Xylenes @ 1.1%

Where:

ppm_v =	Parts per Million by Volume		
Flow =	Cubic feet per minute (CFM)	100	
Molar Mass (MM) =	Molecular Weight (lb/lb-mole) =	292	(2)
IGC =	Ideal Gas Constant (359 ft^3/lb-mole) =	379	
LEL =	Free Product Mixture =	0.656	(1)
SG =	Specific Gravity =	0.9363	(3)

NOTE: (2) Avg. Molar Mass @ 292 (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Individual Analyte Molar Mass: DEHP @ 390.54; Ethylbenzene @ 106.2; Total Xylenes @ 106.2
(3) Average specific gravity of 0.9363 (RMT, Inc. product sampling in October 1999 @ MW-1R; EFR-11 & WP-A8)

$$\text{Pounds/Hr (lbs/hr)} = (ppm_v \times (60\ \text{min/hr}) \times (\text{CFM}) \times (\text{MM})) / ((1 \times 10^6) \times (359\ ft^3/\text{lb-mole}))$$

Free Product & Groundwater Gauging (55-Gal Drum)	
Product Thickness (in)	10.50
Groundwater Thickness (in)	2.50
Conversion @ 1.65 gal/inch	1.65
Total Product Volume (gal)	17.33
Total Groundwater Volume (gal)	4.13
Ratio Groundwater to Free Product (gal/gal)	0.24

	Y (gal)
Total Recovered Groundwater Volume (gal)	4.13
Total Recovered Free Product Volume (gal)	17.33
Total Recovered Fluids Volume (gal)	21.45
TOTAL EFR PRODUCT VOLUME	17.58 GAL

Date	20-May-04
Project #	6527.03
Subcontractor	CEMCO
Vac Head Utilized	NORTECH Corp. 551B

CEMCO Field Technician: Gary Pizzuti

RMT Project Manager: Nick Clevett

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR WELL GAUGING LOG

EFR #79 DATE 17-Jun-04

WELL ID	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (ft)	PRODUCT TICKNESS (ft)
EFR-1	10.14	10.26	0.12
EFR-2	10.67	11.25	0.58
EFR-3	10.65	10.82	0.17
EFR-4	12	12	0.00
EFR-5	10.45	10.95	0.50
EFR-6	9.75	9.77	0.02
EFR-7	6.76	6.76	0.00
EFR-8	6.04	6.06	0.02
EFR-9	6.21	6.23	0.02
EFR-10	6.76	7.03	0.27
EFR-11	6.47	7.39	0.92
EFR-12	5.55	5.55	0.00
EFR-13	5.18	5.2	0.02
EFR-14	4.92	4.92	0.00
EFR-15	4.27	4.27	0.00
EFR-16	4.95	4.95	0.00
EFR-17	8.78	8.78	0.00
EFR-18	9.4	9.4	0.00
EFR-19	12.26	12.26	0.00
EFR-20	10.07	11.21	1.14
EFR-21	8.97	10.81	1.84
EFR-22	12.37	12.37	0.00
EFR-23	8.72	8.74	0.02
EFR-24	11.76	11.76	0.00
EFR-25	11.43	11.45	0.02
EFR-26	13.2	13.78	0.58
EFR-27	10.25	10.25	0.00
EFR-28			

Total Volume Of Free Standing Product (gal) 4.06

CEMCO FIELD TECHNICIAN: G. Pizzuti

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR
VAPOR AND LIQUID PHASE VOLUMETRIC CALCULATION LOG

EFR #79 **17-Jun-04**

WELL ID	EXTRACTION TIME		VAPOR PHASE CONCENTRATION		SYSTEM RECOVERY DATA			
	TOTAL TIME (min)	TOTAL TIME (hrs)	PPM	LEL (%)	VACUUM In Hg	CFM	lbs/hr	Total lbs
EFR-1	2.0	0.0333	2,972	45	17	100	13.74	0.4579
EFR-2	3.0	0.0500	4,185	64	17	100	19.35	0.9674
EFR-3	3.0	0.0500	34,243	522	17	100	158.30	7.9148
EFR-4	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-5	2.0	0.0333	1,771	27	17	100	8.19	0.2729
EFR-6	0.5	0.0083	525	8	17	100	2.43	0.0202
EFR-7	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-8	0.5	0.0083	459	7	17	100	2.12	0.0177
EFR-9	0.5	0.0083	131	2	17	100	0.61	0.0051
EFR-10	2.0	0.0333	2,034	31	17	100	9.40	0.3134
EFR-11	5.0	0.0833	1,246	19	17	100	5.76	0.4801
EFR-12	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-13	0.5	0.0083	328	5	17	100	1.52	0.0126
EFR-14	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-15	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-16	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-17	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-18	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-19	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-20	7.0	0.1167	4,474	68	17	100	20.68	2.4128
EFR-21	10.0	0.1667	4,159	63	17	100	19.23	3.2043
EFR-22	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-23	0.5	0.0083	787	12	17	100	3.64	0.0303
EFR-24	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-25	0.5	0.0083	197	3	17	100	0.91	0.0076
EFR-26	2.0	0.0333	2,421	37	17	100	11.19	0.3730
EFR-27	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-28	0.0	0.0000	0	0	17	100	0.00	0.0000
Total EFR Time (hrs)		0.6500	AVG ppm	2724.19			TOTAL (Lbs)	16.4902
							TOTAL VAPOR PHASE VOLUME (GAL)	2.1118

NOTE: PPM = (% LEL on Meter) x (LEL of Product Mixture) x (1,000,000)
(1) Weighted LEL for analyte mixture @ 0.656% (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Analyte LELs: DEHP @ 0.3% ; Ethylbenzene @ 1%; Xylenes @ 1.1%

Where:

ppm_v =	Parts per Million by Volume		
Flow =	Cubic feet per minute (CFM)	100	
Molar Mass (MM) =	Molecular Weight (lb/lb-mole) =	292	(2)
IGC =	Ideal Gas Constant (359 ft^3/lb-mole) =	379	
LEL =	Free Product Mixture =	0.656	(1)
SG =	Specific Gravity =	0.9363	(3)

NOTE: (2) Avg. Molar Mass @ 292 (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Individual Analyte Molar Mass: DEHP @ 390.54; Ethylbenzene @ 106.2; Total Xylenes @ 106.2
(3) Average specific gravity of 0.9363 (RMT, Inc. product sampling in October 1999 @ MW-1R; EFR-11 & WP-A8)

$$\text{Pounds/Hr (lbs/hr)} = (ppm_v \times (60\ \text{min/hr}) \times (\text{CFM}) \times (\text{MM})) \ / \ ((1 \times 10^6) \times (359\ ft^3/\text{lb-mole}))$$

Free Product & Groundwater Gauging (55-Gal Drum)	
Product Thickness (in)	14.00
Groundwater Thickness (in)	2.50
Conversion @ 1.65 gal/inch	1.65
Total Product Volume (gal)	23.10
Total Groundwater Volume (gal)	4.13
Ratio Groundwater to Free Product (gal/gal)	0.18

		Y (gal)
Total Recovered Groundwater Volume (gal)		4.13
Total Recovered Free Product Volume (gal)		23.10
Total Recovered Fluids Volume (gal)		27.23
TOTAL EFR PRODUCT VOLUME		25.21 GAL

Date	17-Jun-04
Project #	6527.03
Subcontractor	CEMCO
Pump Head Utilized	NORTECH Corp. 551B

CEMCO Field Technician: Gary Pizzuti

RMT Project Manager: Nick Clevett

Table 4
Data Quality Objectives and Well Selection Criteria
L.E. Carpenter & Company MNA Workplan

FREE PRODUCT/DISSOLVED PLUME AEC [1]	
Well	**Objective.**
MW-6R	Define source area COC and MNA parameter concentrations.
MW-2R	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
MW-3	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
MW-4	Quarterly groundwater monitoring well for defining COC.
MW-14S	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
MW-14I	Define COC and MNA parameter concentrations and vertical gradient relationships between shallow and intermediate groundwater zones.
MW-15S	Quarterly groundwater monitoring well (upgradient).
MW-15I	Quarterly groundwater monitoring well (upgradient) and evaluate vertical gradient.
WP-B6	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
WP-B7	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
MW-17S [2]	Establish baseline MNA parameter concentrations in an on-site shallow upgradient "Clean Zone".
MW-21	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
MW-25(R)	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
MW-22R	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
MW-27 [3]	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
MW-28 [3]	Define COC and MNA parameter concentrations and shallow groundwater flow pattern relationships.
SW-1 & SW-2	Define COC in ditch surface-water samples.

COCs = Contaminants of Concern: benzene, toluene, ethylbenzene, xylenes, and bis (2-ethyl hexyl) phthalate (DEHP)
AEC = Area of Environmental Concern
MNA = Monitored Natural Attenuation

Note(s):

1. Many of the wells in the AEC's are proposed for comprehensive sampling for all parameters listed on Table 2 to establish baseline concentrations for one full year (four quarters) of sampling. Once baseline concentrations have been established, a reduced list of wells will be selected for long-term monitoring. Rationale for well selection for long-term monitoring will be provided to USEPA/NJDEP once established.
2. MW-17S is a background well that has consistently shown no detection for all COCs.
3. Data obtained from these wells will more clearly define shallow groundwater flow patterns influenced by the Rockaway River and the Air Products drainage ditch.
4. MW-19/Hot Spot 1 area of concern is located in the northwestern portion of the LEC site.

Table 4 (Cont.)
Data Quality Objectives and Well Selection Criteria
L.E. Carpenter & Company MNA Workplan

MW-19/HOTSPOT 1 AEC [1] [4]	
Well	**Objective**
MW-19	Establish baseline dissolved COC and MNA parameter concentrations in the MW19/HS1 former source area.
MW-19-1	Establish baseline dissolved COC and MNA parameter concentrations in the MW19/HS1 former source area.
MW-19-2	Establish baseline dissolved COC and MNA parameter concentrations cross-gradient of the MW19/HS1 former source area (leading western edge of the plume).
MW-19-5	Establish baseline downgradient dissolved COC and MNA parameter concentrations.
MW-19-6	Establish baseline downgradient dissolved COC and MNA parameter concentrations.
MW-19-7	Establish baseline downgradient dissolved COC and MNA parameter concentrations.
MW-19-8	Establish baseline downgradient dissolved COC and MNA parameter concentrations.
MW-19-9D	Establish baseline dissolved COC concentrations at Ross Street regional interceptor sewer line, and vertical gradient evaluation.
MW-19-10	Establish baseline downgradient dissolved COC and MNA parameter concentrations.

COCs = Contaminants of Concern: benzene, toluene, ethylbenzene, xylenes, and bis (2-ethyl hexyl) phthalate (DEHP)
AEC = Area of Environmental Concern
MNA = Monitored Natural Attenuation

Note(s):

5. Many of the wells in the AEC's are proposed for comprehensive sampling for all parameters listed on Table 2 to establish baseline concentrations for one full year (four quarters) of sampling. Once baseline concentrations have been established, a reduced list of wells will be selected for long-term monitoring. Rationale for well selection for long-term monitoring will be provided to USEPA/NJDEP once established.
6. MW-17S is a background well that has consistently shown no detection for all COCs.
7. Data obtained from these wells will more clearly define shallow groundwater flow patterns influenced by the Rockaway River and the Air Products drainage ditch.
8. MW-19/Hot Spot 1 area of concern is located in the northwestern portion of the LEC site.

TABLE 5

2nd Quarter 2004

L.E. Carpenter and Company, Wharton, New Jersey

Quarterly Groundwater Elevations

WELL LOCATION	WELL TYPE	ELEVATIONS (FT. MSL)			QUARTERLY MEASUREMENT INFORMATION (6)								
		GROUND	OUTER CASING	INNER WELL	MEAS. DATE	PRODUCT DEPTH	WATER DEPTH	PRODUCT ELEVATION	WATER ELEVATION	PRODUCT THICKNESS (ft)	CORRECTED WATER ELEVATIONS (2)	MAX. WATER ELEVATIONS	MIN. WATER ELEVATIONS
CW-1	Caisson Well	630.23	633.75		14-Jun-04	7.15	7.16	623.08	623.07	0.01	623.08	627.60	621.01
CW-3	Caisson Well	628.03	632.70		14-Jun-04		7.38	-	620.65	-	-	626.92	619.22
GEI-1I	Piezometer	627.84	630.33	630.18	14-Jun-04		4.44	-	625.74	-	-	627.58	623.04
GEI-2I	Piezometer	635.32	637.75	637.60	14-Jun-04		10.68	-	626.92	-	-	630.22	624.14
GEI-2S	Piezometer	634.86	637.27	637.07	14-Jun-04		10.60	-	626.47	-	-	629.26	623.65
GEI-3I	Piezometer	636.96	639.39	639.25	14-Jun-04		12.85	-	626.40	-	-	630.17	623.53
MW-1(R)	Monitoring Well	635.19	635.18	634.87	14-Jun-04	9.37	10.21	625.50	624.66	0.84	625.45	628.99	623.68
MW-2(R)	Monitoring Well	628.46	631.68	631.54	14-Jun-04		6.40	-	625.14	-	-	627.05	623.46
MW-3	Monitoring Well	628.04	631.67	631.96	14-Jun-04	6.66	7.58	625.30	624.38	0.92	625.24	627.28	622.69
MW-4 (3)	Monitoring Well	628.26	631.71	631.90	14-Jun-04		6.40	-	625.50	-	-	628.05	622.71
MW-6(R)	Monitoring Well	629.22	632.04	631.82	14-Jun-04	6.41	6.42	625.41	625.40	0.01	625.41	627.89	623.94
MW-8 (5)	Monitoring Well	627.39	629.96	628.19	14-Jun-04		NM	-	NA	-	-	628.52	622.23
MW-9 (5)	Monitoring Well	628.61	631.09	629.58	14-Jun-04		4.10	-	625.48	-	-	627.94	623.30
MW-11S	Monitoring Well	630.63	632.66	632.36	14-Jun-04	7.23	12.62	625.13	619.74	5.39	624.79	629.37	622.18
MW-11I(R)	Monitoring Well	630.29	633.07	632.73	14-Jun-04		7.35	-	625.38	-	-	632.25	621.87
MW-11D(R) (5)	Monitoring Well	630.06	632.75	632.49	14-Jun-04		4.91	-	627.58	-	-	631.59	624.72
MW-12S(R)	Monitoring Well	631.57	634.26	633.73	14-Jun-04		8.19	-	625.54	-	-	628.16	623.71
MW-13S	Monitoring Well	627.74	630.80	630.63	14-Jun-04		NM (11)	-	NA	-	-	627.85	622.58
MW-13S(R)	Monitoring Well	627.66	630.36	629.99	14-Jun-04		NM (11)	-	NA	-	-	626.72	622.73
MW-13I	Monitoring Well	627.76	630.28	630.06	14-Jun-04		NM (11)	-	NA	-	-	627.86	622.50
MW-14S	Monitoring Well	625.18	628.03	627.81	14-Jun-04		3.17	-	624.64	-	-	626.27	622.24
MW-14I (5)	Monitoring Well	625.33	627.72	627.63	14-Jun-04		2.58	-	625.05	-	-	627.23	622.38
MW-15S (5)	Monitoring Well	634.23	636.43	636.17	14-Jun-04		10.50	-	625.67	-	-	628.45	622.89
MW-15I (5)	Monitoring Well	634.14	636.28	636.06	14-Jun-04		10.39	-	625.67	-	-	628.43	622.89
MW-16S	Monitoring Well	631.97	634.09	633.87	14-Jun-04		8.79	-	625.08	-	-	629.62	623.28
MW-16I	Monitoring Well	631.83	634.48	634.36	14-Jun-04		8.19	-	626.17	-	-	629.29	623.36
MW-17S (5)	Monitoring Well	632.35	634.32	634.19	14-Jun-04		8.40	-	625.79	-	-	629.53	622.97
MW-18S	Monitoring Well	627.62	630.88	630.66	14-Jun-04		NM	-	NA	-	-	626.78	622.98
MW-18I	Monitoring Well	627.75	630.59	630.44	14-Jun-04		NM	-	NA	-	-	627.48	619.21
MW-19(9)	Monitoring Well	636.22	636.23	635.90	14-Jun-04		9.30	-	626.60	-	-	629.35	623.74
MW-19-1(9)	Monitoring Well	635.93	635.96	635.64	14-Jun-04		9.05	-	626.59	-	-	628.64	624.56
MW-19-2(9)	Monitoring Well	636.46	636.50	636.30	14-Jun-04		9.65	-	626.65	-	-	628.33	624.55
MW-19-3(9)	Monitoring Well	636.97	637.06	636.70	14-Jun-04		10.06	-	626.64	-	-	628.52	624.67
MW-19-4(9)	Monitoring Well	635.69	635.76	635.43	14-Jun-04		8.78	-	626.65	-	-	629.26	623.60
MW-19-5(9)	Monitoring Well	635.93	635.93	635.56	14-Jun-04		9.06	-	626.50	-	-	628.13	624.45
MW-19-6(4)(9)	Monitoring Well	636.17	636.16	635.82	14-Jun-04		9.24	-	626.58	-	-	628.18	624.96
MW-19-7(4)(9)	Monitoring Well	635.31	635.36	635.00	14-Jun-04		8.72	-	626.28	-	-	627.98	624.87
MW-19-8(4)(9)	Monitoring Well	635.82	635.82	635.36	14-Jun-04		8.96	-	626.40	-	-	627.98	624.88
MW-19-9D(4)(9)	Monitoring Well	636.39	636.41	636.10	14-Jun-04		8.93	-	627.17	-	-	628.51	624.80
MW-19-10(10)	Monitoring Well	634.72	634.81	634.43	14-Jun-04		7.48		626.95				
MW-20	Monitoring Well	634.22	636.43	636.17	14-Jun-04		9.61	-	626.56	-	-	630.45	623.55
MW-21 (5)	Monitoring Well	624.57	628.49	628.20	14-Jun-04		3.55	-	624.65	-	-	626.70	622.00
MW-22(R) (5)	Monitoring Well	625.34	627.71	627.53	14-Jun-04		3.07	-	624.46	-	-	627.60	622.29
MW-23	Monitoring Well	628.10	630.35	630.04	14-Jun-04		NM (11)	-	NA	-	-	628.44	624.64
MW-25(R) (5)	Monitoring Well	624.65	626.77	626.62	14-Jun-04		2.28	-	624.34	-	-	626.83	622.21
MW-26	Monitoring Well	630.24	633.79	632.66	14-Jun-04		7.37	-	625.29	-	-	626.94	622.15
RW-1	Recovery Well	634.59	637.21	636.78	14-Jun-04	11.14	12.50	625.64	624.28	1.36	625.55	628.82	622.77
RW-2	Recovery Well	629.20	631.18	631.08	14-Jun-04		5.98	-	625.10	-	-	627.61	622.51
RW-3	Recovery Well	629.29	631.55	631.39	14-Jun-04		6.25	-	625.14	-	-	627.14	622.64
SG-D1 (1)	Drainage Channel Staff Gauge	625.81	-	-	14-Jun-04		NM (11)	-	NA	-	-	625.61	623.08
SG-D2 (1)	Drainage Channel Staff Gauge	626.26	-	-	14-Jun-04		NM (11)	-	NA	-	-	626.86	623.53
SG-D3 (1)	Drainage Channel Staff Gauge	625.83	-	-	14-Jun-04		NM (11)	-	NA	-	-	624.88	623.40
SG-R1 (1)	Rockaway River Staff Gauge	640.92	-	-	14-Jun-04		1.38	-	638.97	-	-	653.28	639.50
SG-R2 (10)	Rockaway River Staff Gauge	629.41	-	-	14-Jun-04		3.04		626.37	-	-		
SG-R3 (1)	Rockaway River Staff Gauge	626.78	-	-	14-Jun-04		NM		NA	-	-	625.63	624.05
WP-A1	Area A Well Point	635.69	635.72	635.21	14-Jun-04	10.46	10.68	624.75	624.53	0.22	624.74	628.55	623.66
WP-A2	Area A Well Point	636.71	639.02	638.59	14-Jun-04	13.05	13.26	625.54	625.33	0.21	625.53	628.78	624.03
WP-A3	Area A Well Point	635.37	635.37	634.96	14-Jun-04		9.12	-	625.84	-	-	629.59	623.01
WP-A4	Area A Well Point	635.03	635.06	634.50	14-Jun-04	9.16	11.80	625.34	622.70	2.64	625.17	628.31	621.84
WP-A5	Area A Well Point	635.10		637.25	14-Jun-04		11.59		625.66	-	-	629.14	622.88
WP-A6	Area A Well Point	634.35		636.68	14-Jun-04	11.10	13.99	625.58	622.69	2.89	625.40	636.65	622.88
WP-A7	Area A Well Point	632.34		634.28	14-Jun-04	8.96	10.60	625.32	623.68	1.64	625.22	628.47	622.79
WP-A8	Area A Well Point	634.10		636.96	14-Jun-04	11.51	13.42	625.45	623.54	1.91	625.33	628.24	622.73
WP-A9	Area A Well Point	636.62		638.72	14-Jun-04	13.19	17.96	625.53	620.76	4.77	625.23	629.06	622.85
WP-B1	Area B Well Point	631.25		633.05	14-Jun-04		7.37	-	625.68	-	-	629.70	623.37
WP-B2	Area B Well Point	629.88	631.98	631.65	14-Jun-04		6.22	-	625.43	-	-	627.97	622.72
WP-B3	Area B Well Point	631.11		632.73	14-Jun-04		7.11	-	625.62	-	-	628.92	622.80
WP-B4	Area B Well Point	629.33		631.96	14-Jun-04	6.70	8.55	625.26	623.41	1.85	625.14	627.62	622.78
WP-B5	Area B Well Point	629.43		631.51	14-Jun-04		5.18	-	626.33	-	-	627.77	623.83
WP-B6	Area B Well Point	629.12		631.26	14-Jun-04		6.47	-	624.79	-	-	627.56	622.86
WP-B7	Area B Well Point	627.02		628.89	14-Jun-04		4.34	-	624.55	-	-	626.82	622.81
WP-B10	Area B Well Point	629.82	632.52	632.14	14-Jun-04		6.81	-	625.33	-	-	627.70	622.66
WP-C1	Area C Well Point	632.21		632.91	14-Jun-04		7.38	-	625.53	-	-	628.18	622.64
WP-C2	Area C Well Point	632.42		633.86	14-Jun-04		8.30	-	625.56	-	-	630.02	622.94
WP-C3	Area C Well Point	630.40		632.04	14-Jun-04		6.45	-	625.59	-	-	628.18	622.60
WP-C4	Area C Well Point	631.84		632.67	14-Jun-04		DRY	-	NA	-	-	633.27	623.70

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) Wells included in the quarterly sampling program. Depth to water recorded before purging
(4) Wells installed during new RI efforts per NJDEP and EPA request to further delineate MW19/Hot Spot 1 Area
(5) No boring log or well construction diagram available. Well specific information determined from Weston Geologic Cross Section
(6) "-" 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
(7) "-" in the Well Installation and Construction Information section indicates that well construction logs were not available for review
(8) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NGVD 29
(9) All "19 series" wells were resurveyed August 8, 2001 at owners request. Wells MW19 through MW19-5 were converted to flush mount wells to allow for through traffic. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA
(10) MW-19-10 was installed as part of the MNA/PDB efforts. SG-R2 replaced SG-R2 installed in Nov. 1998. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA
(11) Air Product monitoring wells and staff gauges located in the ditch were not sampled during 2nd quarter 2004 because no current access agreement was in place at the time of sampling.

[illegible]LE 6
L.E. CARPENTE[illegible] Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-2(R)	2004	2	18-Jun-04	< 0.2	8	< 0.2	49	15,000

TABLE 6
L.E. CARPENTER, Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS [5]				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-4	1995	1	22-Feb-95	< 0.3	26	< 0.3	32	26,000
		2	13-Jun-95	< 0.5	16	< 0.7	13	46,000
		3	13-Sep-95	< 1	9.7	< 1.4	8.7	NA
		4	7-Dec-95	< 0.1	8.8	< 0.14	11	17,000
	1996	1	7-Mar-96	< 0.5	24	< 0.7	47	NA
		2	14-Jun-96	< 0.1	7	< 0.14	7.8	5,300
		3	17-Sep-96	< 0.1	6.8	< 0.14	4.3	NA
		4	12-Dec-96	< 0.1	2.3	< 0.14	< 0.5	11,000
	1997	1	7-Apr-97	< 0.2	3.5	< 0.14	1.8	NA
		2	14-Aug-97	< 0.2	1.2	< 0.14	4.2	120
		3	3-Oct-97	< 0.2	2.2	< 0.14	12.6	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.4	< 0.28	< 0.28	< 1	NA
		2	4-Jun-98	< 0.2	1.0	< 0.14	1.4	710
		3	28-Aug-98	< 0.2	1.9	< 0.14	1.2	NA
		4	20-Nov-98	< 0.2	9.3	< 0.14	3.3	350
	1999	1	21-Jan-99	< 0.2	1.1	< 0.14	2.5	NA
		2	15-Apr-99	< 0.31	0.66	< 0.34	< 0.4	3,000
		2 duplicate	15-Apr-99	< 0.31	0.43	< 0.34	< 0.4	4,400
		3	22-Jul-99	< 0.31	3.10	< 0.34	2.9	NA
		4	25-Oct-99	< 0.31	0.51	< 0.34	< 0.4	4,000
	2000	1	17-Jan-00	< 0.31	0.54	< 0.34	1.6	NA
		2	13-Apr-00	< 0.25	0.31	< 0.27	< 0.25	480
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	0.41	210
		4 duplicate	30-Oct-00	< 0.25	< 0.27	< 0.27	0.33	NA
	2001	1	27-Feb-01	< 0.25	1	< 0.27	3.7	NA
DEHP found in lab blank		2	2-Apr-01	< 0.28	0.31	< 0.26	0.41	300
		3	24-Jul-01	< 0.28	0.52	< 0.26	2.5	NA
		4	26-Oct-01	< 0.28	0.33	< 0.26	0.77	3300
	2002	1	7-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	150
		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	1200
		2 duplicate	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	950
Dilution factor 5.0 for bis(2-ethylhexyl)phthalate		3	13-Aug-02	< 0.22	0.54	< 0.24	0.86	670
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 8.6
	2003	1	20-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	46
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	72
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	J 3
		3 duplicate	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	J 7
		4	18-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	67
	2004	1	25-Feb-04	< 0.2	< 0.2	< 0.2	0.6	28
		2	18-Jun-04	< 0.2	< 0.2	< 0.2	< 0.6	5200

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L.E. CARPENTE[illegible]Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-11(DR) (2)(3)	1999	1	21-Jan-99	< 0.2	< 0.1	< 0.14	< 0.5	64
		1 duplicate	21-Jan-99	< 0.2	< 0.1	< 0.14	< 0.5	20
		2		NS	NS	NS	NS	NS
		3(3)	22-Jul-99	NA	NA	NA	NA	59
		3 duplicate	22-Jul-99	NA	NA	NA	NA	13
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
	2000	1	17-Jan-00	NA	NA	NA	NA	< 4.2
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
	Field ID: MW-11DD	2 duplicate	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	3.4
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	2
DEHP found in lab blank	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	0.8
DEHP found in lab blank	Field ID: MW-11DD	1 duplicate	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	0.9
DEHP found in lab blank		2	2-Apr-01	NA	NA	NA	NA	1.5
		3	24-Jul-01	NA	NA	NA	NA	< 0.4
		4	26-Oct-01	NA	NA	NA	NA	0.6
	2002	1	7-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	2.8
		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	26
		3	13-Aug-02	NA	NA	NA	NA	63
		4	20-Nov-02	NA	NA	NA	NA	B 0.2
	2003	1	20-Mar-03	NA	NA	NA	NA	< 1
		2	3-Jun-03	NA	NA	NA	NA	J 2
		3	20-Aug-03	NA	NA	NA	NA	< 1
		4	18-Nov-03	NA	NA	NA	NA	< 1
	2004	1	25-Feb-04	NA	NA	NA	NA	< 1
		2	18-Jun-04	NS*	NS	NS	NS	NS

TABLE 6
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Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS [5]				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-14S	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.2
DEHP found in lab blank		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	0.7
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.3
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.5
	2003	1	19-Mar-03	< 0.2	J 0.21	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	J 3
		4	17-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	J 2
	2004	1	24-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		2	16-Jun-04	< 0.2	< 0.2	J 0.2	< 0.6	J 1

TABLE 6
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Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-14I	1995	1	22-Feb-95	< 0.3	0.4	< 0.3	1.2	140
		2	13-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	1.6
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	2.6
	1996	1	7-Mar-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.3
		3	17-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	2.7
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	1.6
		3	3-Oct-97	1.2	22.1	< 0.7	176	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	4-Jun-98	< 0.2	0.34	< 0.14	2	24
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	< 0.5	< 1.2
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	NA
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	2.4
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	3.5
Field ID: MW-14Id		2 duplicate	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	2.2
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	3.4
DEHP found in lab blank		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	1.0
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.2
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.3
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	J 2
		4	17-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
	2004	1	24-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		2	16-Jun-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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L.E. CARPENTE[illegible] Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-15S	1995	1	22-Feb-95	< 0.3	< 0.3	< 0.3	< 1	2.4
		2	13-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	< 1.1
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
	1996	1	7-Mar-96	< 0.2	33	< 0.28	83	NA
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
		3	17-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	0.21	< 0.14	1.7	< 1.2
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	1.2
		3	3-Oct-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	1.4	< 0.5	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	1.3	< 1.1
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	1-Dec-98	< 0.2	< 0.14	< 0.14	< 0.5	< 1.2
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	NA
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	NA
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	0.8
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	< 0.4
	2002	1	7-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.0
DEHP found in lab blank		2	20-May-02	< 0.22	< 0.18	< 0.24	< 0.2	0.7
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.2
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	8
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		4	18-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
	2004	1	25-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9
		2	15-Jun-04	< 0.2	< 0.2	J 0.5	< 0.6	J 2

TABLE 6
L.E. CARPENTER, Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-15I	1995	1	22-Feb-95	< 0.3	< 0.3	< 0.3	< 1	280
		2	13-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	7.2
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	2.8
	1996	1	7-Mar-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	1.2
		3	17-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	1.7
		4 duplicate	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	1.9
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	2.2
		3	3-Oct-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	1.9
		2 duplicate	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	3.8
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	0.53	11
		4 duplicate	20-Nov-98	< 0.2	0.2	< 0.14	0.8	9.8
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	4.8
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	4.1
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	NA
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	2
	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	NA
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	1.2
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	0.5
	2002	1	7-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.0
		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	0.5
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	< 0.2
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2 duplicate	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9
		4	18-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	J 4
	2004	1	25-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9
		1 duplicate	25-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		2	15-Jun-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-17S (4)	1995	1	24-Feb-95	< 0.3	0.6	0.3	1.9	11
		2	13-Jun-95	0.2	< 0.14	0.18	< 0.5	< 1.1
		3		NS	NS	NS	NS	NS
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	0.63	< 1.2
	1996	1		NS	NS	NS	NS	NS
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.3
		3		NS	NS	NS	NS	NS
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	1.5
	1997	1		NA	NA	NA	NA	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	< 1.3
		3		NS	NS	NS	NS	NS
		4		NS	NS	NS	NS	NS
	1998	1		NS	NS	NS	NS	NS
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	1.2	6.1
		3		NS	NS	NS	NS	NS
		4	1-Dec-98	< 0.2	< 0.14	< 0.14	< 0.5	6
	1999	1		NS	NS	NS	NS	NS
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
		3		NS	NS	NS	NS	NS
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	40
	2000	1		NS	NS	NS	NS	NS
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3		NS	NS	NS	NS	NS
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
DEHP found in lab blank	2001	2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	1.8
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	9.6
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.0
Sample designation DUP01		1 duplicate	6-Mar-01	< 0.28	< 0.26	< 0.26	< 0.25	1.6
DEHP found in lab blank		2	20-May-02	< 0.22	< 0.18	< 0.24	< 0.2	0.6
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.2
		4	21-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		4	18-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
	2004	1	25-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		2	18-Jun-04	NS (7)	NS	NS	NS	NS

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-21 (1)	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	< 4.2
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.3
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	6
		1 duplicate	17-Jan-00	NA	NA	NA	NA	< 4.2
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.24	< 2.1
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
DEHP found in lab blank	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	2.7
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	0.9
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	0.9
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	0.6
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.3
DEHP found in lab blank		2	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	1
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.3
Sample designation DUPE-001		3 duplicate	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.4
		4	19-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.3
	2003	1	18-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
			20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	J 2
		4	17-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
	2004	1	24-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		2	17-Jun-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS [5]				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-22(R)	1995	1	21-Feb-95	< 0.3	57	< 0.3	260	6,500
		2	13-Jun-95	< 2.5	311	< 3.5	965	380
		3	13-Sep-95	< 2.5	171	< 3.5	693	NA
		4	7-Dec-95	< 2	123	< 2.8	494	320
	1996	1		NS	NS	NS	NS	NS
		2	8-Jul-96	< 2	258	< 2.8	941	70
		3	17-Sep-96	< 2.5	359	< 3.5	1,020	NA
		4	12-Dec-96	< 5	320	< 7	1,930	< 1.2
	1997	1		NS	NS	NS	NS	NS
		2	14-Aug-97	< 200	6,730	< 140	32,900	7,500
		3	3-Oct-97	< 400	11,400	< 280	66,000	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 200	4,070	348	20,600	NA
		2	4-Jun-98	< 40	2,260	< 28	11,300	5,800
		3	28-Aug-98	< 50	1880	< 35	10300	NA
		3 duplicate	28-Aug-98	< 50	2,510	< 35	11,000	NA
		4	20-Nov-98	< 40	1,650	< 28	7,230	1,100
	1999	1	21-Jan-99	< 0.4	18	< 0.28	94	NA
		2	15-Apr-99	< 31	1,500	< 34	7,600	670
		3	22-Jul-99	< 31	1,200	42	5,200	NA
		4	25-Oct-99	< 16	810	< 17	3,300	1200
		4 duplicate	25-Oct-99	< 31	840	< 34	3,400	1500
	2000	1	17-Jan-00	< 7.8	360	< 8.5	1,400	NA
Dilution Factor 50		2	13-Apr-00	< 12	820	< 14	3,600	92
Dilution Factor 200		3	31-Jul-00	< 50	1,000	< 54	4,800	NA
Dilution Factor 50 and 250 for DEHP and BTEX respectively		4	30-Oct-00	< 62	1,200	< 68	6,200	6,100
Dilution Factor 200	2001	1	27-Feb-01	< 50	1,900	< 54	9,000	NA
Dilution Factor 20 and 100 for DEHP and BTEX respectively. DEHP found in lab blank		2	2-Apr-01	< 20	910	< 26	4,100	3,400
Dilution factor 100 for BTEX, 50 for DEHP. DEHP detected in field blank		3	24-Jul-01	< 20	1,100	< 26	5,300	8,200
Dilution Factor 100		4	26-Oct-01	< 20	980	< 26	4,700	15,000
Dilution Factor 100		4 duplicate	26-Oct-01	< 20	1,000	< 26	4,900	NA
Dilution factors - 10 for BTEX, 2 for DEHP.	2002	1	6-Mar-02	< 2.0	140	< 2.6	420	18
Dilution factors - 50 for BTEX, 1 for DEHP		2	22-May-02	< 11	320	< 12	1,400	21
Dilution factors - 50 for BTEX, 1 for DEHP		3	13-Aug-02	< 11	180	< 12	1,400	13
Dilution factor - 25 for BTEX		4	20-Nov-02	< 6.5	310	< 6	1,000	B 6.3
Dilution factor - 5 for total xylenes and ethylbenzene	2003	1	18-Mar-03	< 1	540	< 0.2	2,000	54.0
Dilution factors - 5 for BTEX, 3 for DEHP		2	3-Jun-03	< 1	690	< 1	2,600	170.0
		3	20-Aug-03	< 1	210	< 1	1,200	260.0
Dilution factor - 5 for total xylenes, 25 for DEHP		4	17-Nov-03	J 0.2	190	< 0.2	940	2,200.0
Dupe-01		4 duplicate	17-Nov-03	J 0.2	180	< 0.2	920	910.0
	2004	1	25-Feb-04	< 1	330	< 1	1,500	3,400.0
		2	16-Jun-04	< 1	200	< 1	1,200	150.0

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS [5]				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-25(R)	1995	1		NS	NS	NS	NS	NS
		2	14-Jun-95	< 0.2	< 0.2	< 0.2	< 1	1.6
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	68
	1996	1		NS	NS	NS	NS	NS
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
		3	17-Sep-96	< 0.1	0.34	< 0.14	2.2	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.3
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	14-Aug-97	< 0.2	13.5	< 0.14	89	63
		3	3-Oct-97	< 0.2	4.1	< 0.14	30.7	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	0.33	< 0.14	1.5	NA
		1 duplicate	12-Mar-98	< 0.2	0.39	< 0.14	0.94	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	5.3
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	< 0.5	1.9
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	< 4.3
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	14	< 4.1
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	1.4	9.6
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
	2000	1	1-Mar-00	< 0.31	< 0.38	< 0.34	< 0.4	< 3.5
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
Field ID: MW-25RD		3 duplicate	31-Jul-00	NA	NA	NA	NA	< 2
		4	30-Oct-00	< 0.25	0.33	< 0.27	1.1	3.4
DEHP found in lab blank	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	1.9
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	1.4
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	0.5
Field ID: MW-25D		3 duplicate	24-Jul-01	NA	NA	NA	NA	1.2
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	0.7
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	0.5
DEHP found in lab blank		2	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	1.1
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.2
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	< 0.3
Dupe-01		4 duplicate	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	18-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	J 7
		4	17-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	J 1
	2004	1	24-Feb-04	< 0.2	< 0.2	J 0.2	< 0.6	J 2
		2	17-Jun-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
WP-B7	2004	2	17-Jun-04	< 0.2	4.8	< 0.2	4.6	25,000

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
Trip Blank	1995	1	27-Feb-95	< 0.3	< 0.3	< 0.3	< 1	NA
		2	12-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		3	12-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
	1996	1	6-Mar-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		2	12-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		3	16-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	13-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		3	3-Oct-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	ND
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
		3	22-Jul-99	NA	NA	NA	NA	< 4.2
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
	2000	1	17-Jan-00	NA	NA	NA	NA	< 4.1
		1	1-Mar-00	NA	NA	NA	NA	< 3.8
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		3	31-Jul-00	NA	NA	NA	NA	< 2
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
DEHP found in lab blank	2001	1	27-Feb-01	NA	NA	NA	NA	0.6
		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
Performed for Lab No. N067 (MW22H DEHP sample). STL forgot to sample DEHP at this well on first round		3	24-Jul-01	NA	NA	NA	NA	< 0.4
		3	24-Jul-01	NA	NA	NA	NA	< 0.4
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
	2002	1	5-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	NA
		2	20-May-02	< 0.22	< 0.18	< 0.24	< 0.2	NA
		3	12-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	180
TB-01		4	19-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	4-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	NA
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		4	18-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
	2004	1	26-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		2	17-Jun-04	< 0.2	< 0.2	< 0.2	< 0.6	NA

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
Rinsate Sample	2002	1		ND	ND	0.7	ND	2.5
DEHP found in lab blank		2	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	3.4
Rinsate -001		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	4.5
Rinsate-01		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.3
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	J 2
		4	18-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
	2004	1	25-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		2	18-Jun-03	< 0.2	< 0.2	< 0.2	< 0.2	< 1

TABLE 6
L.E. CARPENTER, Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (9)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
Field Blank	1995	1	27-Feb-95	< 0.3	< 0.3	< 0.3	< 1	< 1.1
		2	13-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	1.3
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
	1996	1	7-Mar-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.4
		3	17-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
	1997	1	7-Apr-97	< 0.2	< 0.14	0.2	< 0.5	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	< 1.1
		3	3-Oct-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	< 1.1
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	< 0.5	1.3
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	< 4.4
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.4
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.3
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.6
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
		1	1-Mar-00	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
		1	16-Mar-00	NA	NA	NA	NA	3.2
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
DEHP found in lab blank	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	1.3
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	2
Performed for Lab No. N087 (MW22R DEHP sample). STL forgot to sample DEHP at this well on first round		3		NA	NA	NA	NA	1.2
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	< 0.5
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	< 0.4
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	16
		2	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	130
FB-001		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.5
FB-01		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.4
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		3	20-Aug-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		4	17-Nov-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
	2004	1	25-Feb-04	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		2	18-Jun-04	NS	NS	NS	NS	NS

TABLE 6
L.E. CARPENTER, Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS [5]				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
GENERAL NOTES PAGE								

LEGEND
ug/L: micrograms per liter
NJGWQS: New Jersey Groundwater Quality Standards
NS: Not Sampled
NA: Not Analyzed
duplicate Duplicate sample
B: Analyte found in laboratory blank as well as sample.
DEHP: bis-2-Ethylhexylphthalate

SAMPLING NOTES
(1) MW-21 Quarterly sampling required for both DEHP and BTEX as of NJDEP letter dated Nov 23, 1998
(2) MW-11(IR) & MW-11(DR) sampled for both DEHP and BTEX per NJDEP letter dated Nov 23, 1998 (one time sample round- baseline concentration)
(3) MW-11D required to be sampled quarterly per NJDEP letter dated August 17, 1999. Third quarter 1999 sampling was performed prior to receiving the NJDEP letter. Subsequently, the well was only sampled for DEHP. Starting 4th quarter 1999, MW-11D will be sampled for both DEHP and BTEX. Based on NJDEP letter dated April 5, 2001, this well will be sampled for DEHP only (starting 2nd qtr 2001).
(4) Well initially sampled Biannually - 2nd and 4th Quarter as of the beginning of 1998. 1st quarter 2002, well sampled quarterly for both DEHP and BTEX.
(5) Low flow sampling initiated 1st quarter 2002.
(6) MW-11 (DR) was not sampled during the 2nd quarter sampling event due to a product covered pump
(7) MW-17 (S) was, and will continue to be, sampled for only MNA parameters as outlined in the MNA workplan approved by NJDEP in a letter dated April 2003.

15,000 Above the NJDEP NJGWQS

TABLE 7
L.E. CARPENTER - Wharton, New Jersey
MW19/Hot Spot 1 Groundwater Monitoring Data

MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene		Ethylbenzene		Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)	
			ANALYTICAL PARAMETERS									
		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		11,700		110,000		10,000		NR
Dilution factor for BTEX 100	14-Jun-95	2		150		3,400		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		75,700		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 BEX 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
MW19-1												
Dilution factor for BTEX 200	12-Mar-98	1	<	40		219		4,270		1,160		2190
	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
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		32		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
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		79,800		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
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2 duplicate	<	1,100		1,900		92,000		6,900	<	9.4
	19-Nov-03	4	<	0.2	<	0.2		4.3	J	0.9	<	0.9
	18-Dec-03	4 resample	<	0.2		3.7		240.0		24.0	<	0.9
	16-Jun-04	2	<	100.0		1,400		88,000		7,400	J	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

TABLE 7
L.E. CARPENTER - Wharton, 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	
MW19-7												
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		830	<	1.0
	16-Jun-04	2 duplicate	J	4.0		130.0		2,100.0		610	<	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
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
MW19-10												
	17-Jun-04	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0

END

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

680 : Concentration exceeds NJGWQS

B: Analyte also detected in blank

J: Estimated value. Value falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ)

NOTES

(1) Low flow sampling initiated 1st quarter 2002

(2) GEI series wells are piezometers installed by Weston

Table 8
L.E.Carpenter, Wharton, New Jersey
Quarterly Groundwater Monitoring MNA Field Data

Well ID	Event	DO (mg/L)	pH	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Total Iron (mg/L)	Alkalinity (ppm)	CO2 (mg/L)
MW-2(R)	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	2.50	6.91	-1	723	NM	12.14	NM	NM	NM
MW-3	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	1Q04	3.82	7.64	65	630	3	3.29	NM	NM	NM
	2Q04	2.91	7.00	25	67	NM	14.52	NM	NM	NM
MW-6(R)	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14S	1Q04	2.99	5.92	7	540	17	9.02	NM	NM	NM
	2Q04	3.19	7.19	-16	517	4	12.82	5.50	125.00	14.00
MW-14I	1Q04	2.78	6.30	80	335	41	10.79	NM	NM	NM
	2Q04	1.29	7.56	207	321	8	13.30	0.50	90.00	1000+
MW-15S	1Q04	2.64	7.25	151	688	30	8.08	NM	NM	NM
	2Q04	5.40	7.14	157	921	15	13.75	NM	NM	NM
MW-15I	1Q04	3.24	7.55	-11	674	5	10.57	NM	NM	NM
	2Q04	2.97	7.44	-25	477	10	14.37	NM	NM	NM
MW-17S	1Q04	0.38	7.57	194	160	2	3.60	NM	NM	NM
	2Q04									
MW-17	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.38	6.05	250	301	NM	13.10	NM	NM	NM
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.97	7.23	24	890	2	13.94	22.3	160	70
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	13.9	7.22	180	1373	10	13.9	0.6	125	17
MW-19-2	1Q94	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	4.45	7.3	83	1199	6	13.97	3.5	210	60
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.16	7.02	41	1550	4	12.89	1.5	130	70
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	5.48	6.86	56	2640	10	15.24	35	80	33
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	5.89	6.82	48	380	6	14.34	8	95	90
MW-19-8	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.98	6.9	-24	2010	10	15.69	15	125	30
MW-19-9D	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.03	7.11	-28	480	63	14.64	NM	NM	NM
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.82	6.78	85	1050	7	13.94	1	80	25
MW-21	1Q04	2.65	5.57	125	447	2	9.54	NM	NM	NM
	2Q04	1.02	7.16	51	543	35	12.70	NM	NM	NM
MW-22 (R)	1Q04	4.68	7.77	-6	586	30	7.09	NM	NM	NM
	2Q04	2.22	7.20	-35	655	3	12.84	10.00	175	25
MW-25(R)	1Q04	3.22	5.87	7	563	89	4.70	NM	NM	NM
	2Q04	1.37	6.96	-34	620	35	15.67	NM	NM	NM
WP-B6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
WP-B7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	7.63	6.87	-7	768	187	13	NM	175	70
SW-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-3	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 9

Through 2nd Quarter 2004

L.E.Carpenter, Wharton, New Jersey
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	Ferrous Iron	Methane
(units)		cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l
MW-2(R)	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	320.00	ND	202	499	347.00	ND	1.00	0.85	1.7 J	32.10	8400.00
MW-3	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6(R)	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14S	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	69.00	ND	167	17	256	ND	0.30 J	ND	5.10	5.70	920.00
MW-14I	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	35.00	ND	112	3.6 J	180	0.18	ND	0.048 J	14.90	0.025 J	ND
MW-15S	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15I	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17S	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	520	NS	52	62	163	ND	ND	0.11	11.40	ND	ND
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	80	ND	207	30	589	ND	ND	0.054	3.6 J	19.2	150
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	100	ND	162	ND	725	1.4	ND	ND	32.4	0.091 J	ND
MW-19-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10	ND	335	6.0 J	704	ND	ND	ND	33.6	2.1	1600
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	35	ND	151	10.4 J	1670	1.6	ND	ND	37.3	1.8	140
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	110	ND	142	6.8 J	2110	0.21	ND	ND	47.2	6.6	5200
	2Q04D	88	ND	152	9.2 J	2040	0.21	0.15 J	ND	37.3	9.6	5400
MW-19-8	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	45	ND	143	14.4	1120	ND	ND	0.15	22.8	13.1	79
MW-19-9D	1Q04	NS	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	1.2	1300
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	34	ND	109	6.8 J	563	ND	ND	ND	18	1.1	2.6 J
MW-21	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	110	ND	157	11.6 J	301	0.16	ND	0.050 J	14.10	0.018 J	ND
MW-22 (R)	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	24	ND	196	29	320	ND	0.50 J	0.10	ND	15.00	6100.00
MW-25(R)	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	220	ND	204	38	341	ND	ND	0.056	2.9 J	89	1100
WP-B6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WP-B7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	300	ND	228	378	366	ND	ND	0.53	6	52.5	14000
SW-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-3	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 10
L.E. CARPENTER - Wharton, New Jersey
Surface Water Monitoring Data

	ROCKAWAY RIVER			INFILTRATION GALLERY														
	SW-1	SW-2	SW-3	SW-4	SW-5										SW-6			
SAMPLING DATE	03/14/89 (1)	03/14/89 (1)	03/14/89 (1)	03/14/89 (1)(6)	08/02/89 (1)	5/29/98 (5)	06/06/02	11/21/02	03/20/03	06/02/03	08/20/03	11/18/03	02/24/04	06/14/04	03/14/89 (1)	08/27/90	5/29/98 (5)	06/06/02
VOLATILE ORGANIC COMPOUNDS (ug/l) (4)																		
Methylene Chloride	J 1	ND	ND	ND	JP 3.8	ND	NA	NA	NA	NA	NA	NA	NA	NS	J 3.8	(2) ND	ND	NA
1,1,1-Trichloroethane	ND	ND	ND	ND	J 3.7	0.4	NA	NA	NA	NA	NA	NA	NA	NS	ND	ND	0.5	NA
Ethylbenzene	ND	ND	ND	ND	J 3.5	ND	NA	< 0.18	< 0.2	< 0.2	< 0.2	< 0.2	J 0.3	NS	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NS	J 1.2	ND	ND	NA
Acetone	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NS	ND	ND	ND	NA
Total Xylenes	ND	ND	ND	ND	44	ND	ND	< 0.2	< 0.6	< 0.6	< 0.6	< 0.6	J 1.9	NS	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	1	< 0.24	< 0.2	< 0.2	J 0.4	< 0.2	< 0.2	NS	ND	ND	ND	ND
1,1,2-Trichloro-2,2,1-Triflouroethane	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NS	ND	ND	ND	NA
Benzene							ND	< 0.22	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NS				ND
BASE NEUTRAL COMPOUNDS (ug/l) (4)																		
Di-n-butyl phthalate (3)	JP 3.2	JP 3.7	JP 3.6	JP 3.5	ND	ND	NA	NA	NA	NA	NA	NA	NA	NS	JP 4	NA	ND	NA
bis(2-Ethylhexyl) phthalate	ND	ND	ND	J 7.2	ND	ND	ND	B 0.3	< 1	< 1	J 3	< 1	J 2	NS	ND	J(2) 7	ND	ND
METALS (ug/l) (4)																		
Antimony	ND	ND	ND	J 22.8	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	ND	NA	NA	NA
Arsenic	ND	ND	J 2.4	ND	10	NA	NA	NA	NA	NA	NA	NA	NA	NS	15.9	NA	NA	NA
Cadmium	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	J 22.2	NA	NA	NA
Chromium	ND	ND	J 8	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	231	NA	NA	NA
Copper	J 16.7	J 5.3	J 22.1	J 6.7	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	405	NA	NA	NA
Lead	20.7	ND	87.2	J 2.7	6	NA	NA	NA	NA	NA	NA	NA	NA	NS	1340	NA	NA	NA
Mercury	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	2.8	NA	NA	NA
Nickel	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	J 60.8	NA	NA	NA
Selenium	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	7.1	NA	NA	NA
Zinc	96.4	J 4.2	152	23	60	NA	NA	NA	NA	NA	NA	NA	NA	NS	2370	NA	NA	NA
POLYCHLORINATED BIPHENYLS (PCBs) (ug/l) (6)																		
Arochlor-1016	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
Arochlor-1221	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
Arochlor-1232	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
Arochlor-1242	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
Arochlor-1248	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
Arochlor-1254	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA
Arochlor-1260	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA

LEGEND
ug/L = micrograms per liter
SW = Surface water sample (Roy F. Weston nomenclature)
ND: No Detection
NA: Not Analysed
Concentration data in **BOLD** above detection level
B: Compound detected in lab blank.

LABORATORY QUALIFIERS
J: Detected below reporting limit or is an estimated concentration
P: Compound detected in laboratory method blank
B: Analyte found in laboratory blank as well as sample

NOTES
(1) NJDEP Tier 1 sample holding time was exceeded
(2) Compound detected in method blank. Sample concentration < 3x conc. in method blank
Per Tier 1 guidelines the result is negated
(3) All concentrations later negated by NJDEP
(4) Only those parameters listed showed concentrations above ND.
All other parameters were either ND or NA.
(5) Sampling performed by RMT per NJDEP request letter dated Jan 28, 1998
VOCs and Base Neutrals ONLY (EPA 624 and 625 respectively)
(6) The PCB sample (SW-4) was collected May 9, 1989
(7) Surface water samples were not collected during 2nd quarter 2004 because there
was no existing access agreement with Air Products at the time of sampling

Sediment Sampling Information
1989 GeoEngineering/Roy F. Weston sampling November 1989: VO+15 (EPA 624), BN+15 (EPA 625); PP Metals (EPA 200 series), PCBs (SW-4 only) (EPA 608)
PP Metals (EPA 200 series), PCBs (SW/SS-4 only) (for SW sample EPA 608, for SS EPA 8080)
SW-1: Background sample location in Washington Forge Pond
SW-2: Assess impact on Rockaway River. Located immediately adjacent to Bldg. 12
SW-3: Assess impact on Rockaway River. Located dowNAtream of former impoundment area
SW-4: Located in former infiltration gallery between former impoundment area and tank farm
SW-5: Located in the drainage ditch between LEC and Air Products
SW-6: Located in a drainage feature in NE corner, up by former Starch drying beds. Potential floor drain and non-contact cooling water impacts

1990 Roy F. Weston Supplemental RI (November 1990)
SW-7: Former outfall from northeast corner starch drying beds. (VOC+10, BN+10, PCB)
SW-8: Bend in drainage ditch. Assess downgradient quality of drainAge ditch (VOC+10)
SW-9: Junction of ditch and Rockaway River. Assess impact of ditch on river quality. (VOC+10, BN+10, PCB)
SW-10: Rockaway River south of MW-4. Assess impact of site on contaminants of Rockaway River. (VOC+10, TAL Metals)

2002 Sampling performed by RMT pre the NJDEP letter dated May 31, 2002 [NJDEP/EPA review of Quarterly Monitoring Report - 1st Quarter 2002
During 3Q02 sampling event only SW-8 location sampled due drought conditions.

TABLE 10
L.E. CARPENTER - Wharton, New Jersey
Surface Water Monitoring Data

	DRAINAGE DITCH																		ROCKAWAY RIVER	
	SW-7							SW-8											SW-9	SW-10
SAMPLING DATE	11/21/02	03/20/03	06/02/03	08/20/03	11/18/03	02/24/04	06/14/04	08/27/90	5/29/98 [5]	06/06/02	08/14/02	11/21/02	03/20/03	06/02/03	08/20/03	11/18/03	02/24/04	06/14/04	08/28/90	08/28/90
VOLATILE ORGANIC COMPOUNDS (ug/l) [4]																		NS		
Methylene Chloride	NA	NA	NA	NA	NA	NA	NS	[2] ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	[2] ND	[2] ND
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NS	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	ND	ND
Ethylbenzene	< 0.18	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NS	ND	ND	ND	< 0.18	< 0.18	J 0.91	J 0.2	< 0.2	< 0.2	J 0.8	NS	ND	ND
Chlorobenzene	NA	NA	NA	NA	NA	NA	NS	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	ND	ND
Acetone	NA	NA	NA	NA	NA	NA	NS	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	ND	ND
Total Xylenes	< 0.2	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	NS	ND	ND	ND	0.43	0.32	J 2.7	J 1.2	< 0.6	J 1.2	6.8	NS	ND	ND
Toluene	< 0.24	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NS	ND	ND	1	0.54	< 0.24	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NS	ND	ND
1,1,2-Trichloro-2,2,1-Triflouroethane	NA	NA	NA	NA	NA	NA	NS	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	ND	ND
Benzene	< 0.22	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NS			ND	< 0.22	< 0.22	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NS		
BASE NEUTRAL COMPOUNDS (ug/l) [4]																				
Di-n-butyl phthalate [3]	NA	NA	NA	NA	NA	NA	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA
bis(2-Ethylhexyl) phthalate	B 0.4	< 1	< 1	J 1	J 3	< 1	NS	NA	ND	0.6	1.3	B 0.4	< 1	< 1	J 4	< 1	< 1	NS	J[2] 6	NA
METALS (ug/l) [4]																				
Antimony	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	ND
Arsenic	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	J 3.9
Cadmium	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	ND
Chromium	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	ND
Copper	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	ND
Lead	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	J 4.6
Mercury	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	ND
Nickel	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	ND
Selenium	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	ND
Zinc	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	J 5.4
POLYCHLORINATED BIPHENYLS (PCBs) (ug/l) [6]																				
Arochlor-1016	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA
Arochlor-1221	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA
Arochlor-1232	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA
Arochlor-1242	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA
Arochlor-1248	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA
Arochlor-1254	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA
Arochlor-1260	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA

LEGEND
ug/L = micrograms per liter
SW = Surface water sample (Roy F. Weston nomenclature)
ND: No Detection
NA: Not Analysed
Concentration data in **BOLD** above detection level
B: Compound detected in lab blank.

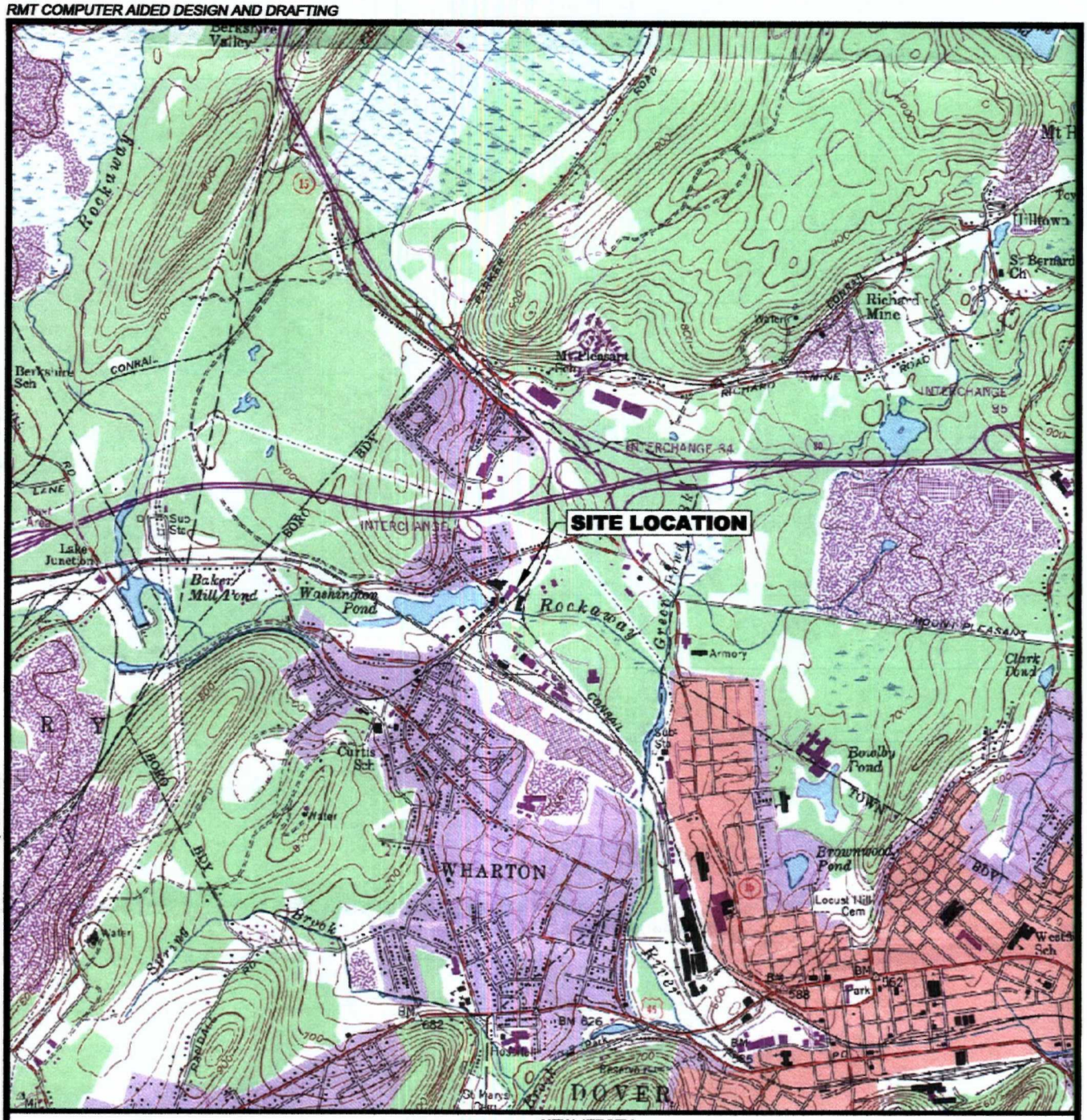
LABORATORY QUALIFIERS
J: Detected below reporting limit or is an estimated concentration
P: Compound detected in laboratory method blank
B: Analyte found in laboratory blank as well as sample

Table 11
PDB Monitoring Data
L.E.Carpenter, Wharton, New Jersey
PDB Monitoring Data

MONITORING WELLS	SAMPLE DATE	QUARTER	CHEMICAL ANALYSIS RESULTS (5)			
			Benzene	Ethylbenzene	Toluene	Total Xylenes
			ug/l	ug/l	ug/l	ug/l
NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40
	PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2
PDB-1						
	6/15/2004	2	< 0.2	< 0.2	J 0.5	< 0.6
PDB-2						
	6/15/2004	2	< 0.2	1.4	12	67
PDB-3						
	6/15/2004	2	< 0.2	< 0.2	J 1	< 0.6
PDB-4						
	6/14/2004	2	< 0.2	< 0.2	< 0.2	J 0.8
PDB-5						
	6/14/2004	2	< 0.2	J 0.2	J 0.3	J 0.8
PDB-6						
	6/15/2004	2	< 0.2	< 0.2	2.9	< 0.6
PDB-7						
	6/15/2004	2	< 0.2	< 0.2	3.1	< 0.6
PDB-field blank						
	6/15/2004	2	< 0.2	< 0.2	J 0.2	< 0.6

Figures

RMT COMPUTER AIDED DESIGN AND DRAFTING



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

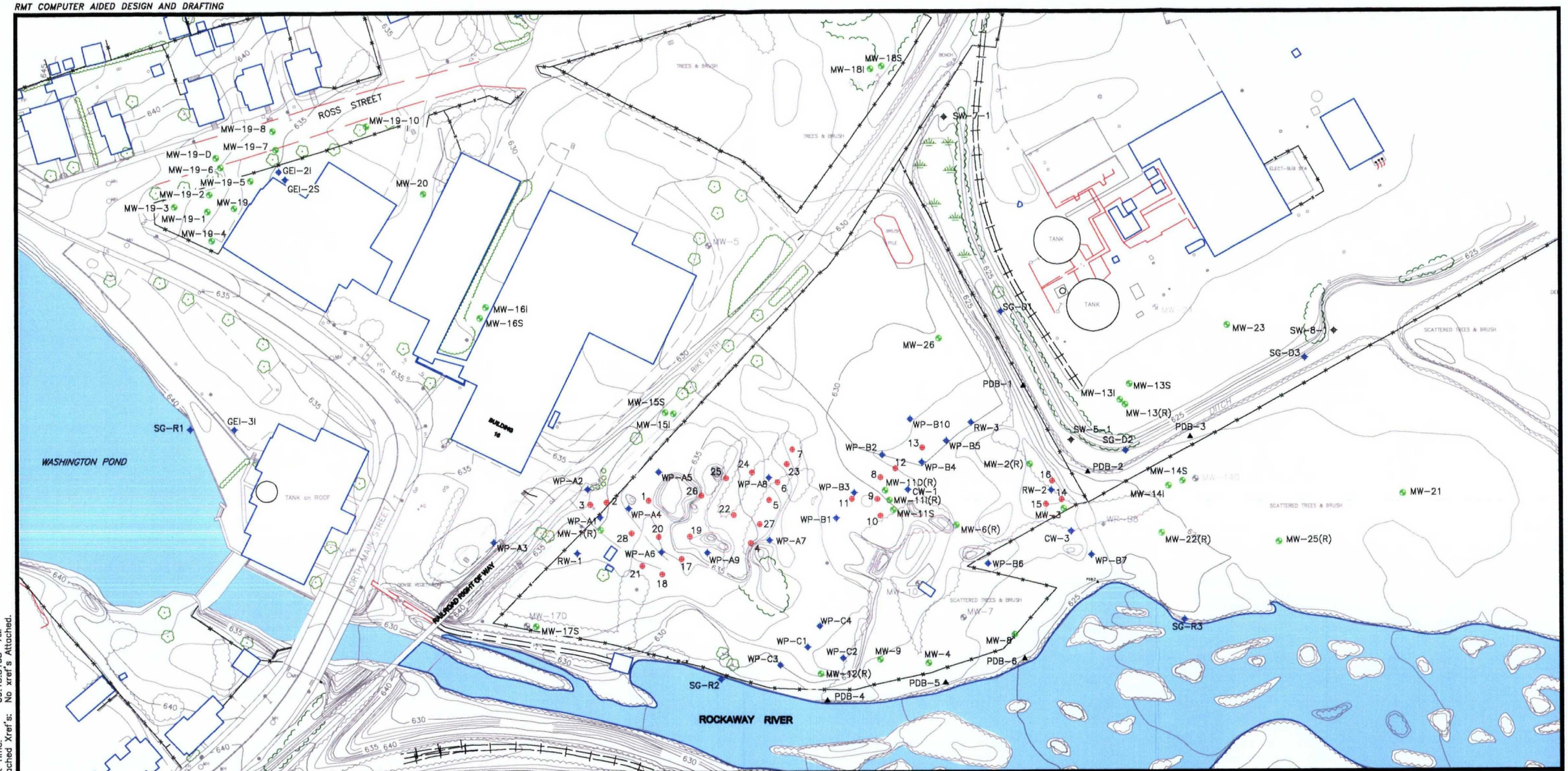
SITE LOCATION MAP
2nd QUARTER 2004

DRAWN BY:	SJL
APPROVED BY:	JO
PROJECT NUMBER:	6527.02
FILE NUMBER:	65270231.DWG
DATE:	SEPTEMBER 2004

FIGURE 1

PLOT DATA
Drawing Name: J:\06527\02\65270231.dwg
Operator Name: lucidos
Scale: 1"=2000'
Dwg Size: 82643 Bytes
Plot Date: September 2004
Plot Time: 09:05.0010 AM
Attached Xref's: No xref's Attached.

RMT COMPUTER AIDED DESIGN AND DRAFTING



LEGEND

	PROPERTY LINE	◆ WP-B7	WELL POINTS
	FENCE	◆ SG-R1	RIVER POINT
MW-21	MONITORING WELL	◆ SG-D1	DRAINAGE CHANNEL POINT
MW-24	ABANDONED WELL	◆ GEI-2I	PIEZOMETERS
13	ENHANCED FLUID RECOVERY WELL	SW-7-1	SURFACE WATER SAMPLE
◆ RW-2	RECOVERY WELL	▲ PDB-1	PASSIVE DIFFUSION BAG LOCATION AND NUMBER
◆ CW-3	CAISSON WELLS		

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. PDBs WERE INTSALLED AT THE GROUND WATER SURFACE INTERFACE.

N

0 100' 200'

SCALE IN FEET

LE CARPENTER
WHARTON, NEW JERSEY

SITE PLAN WITH WELL LOCATIONS
2nd QUARTER 2004

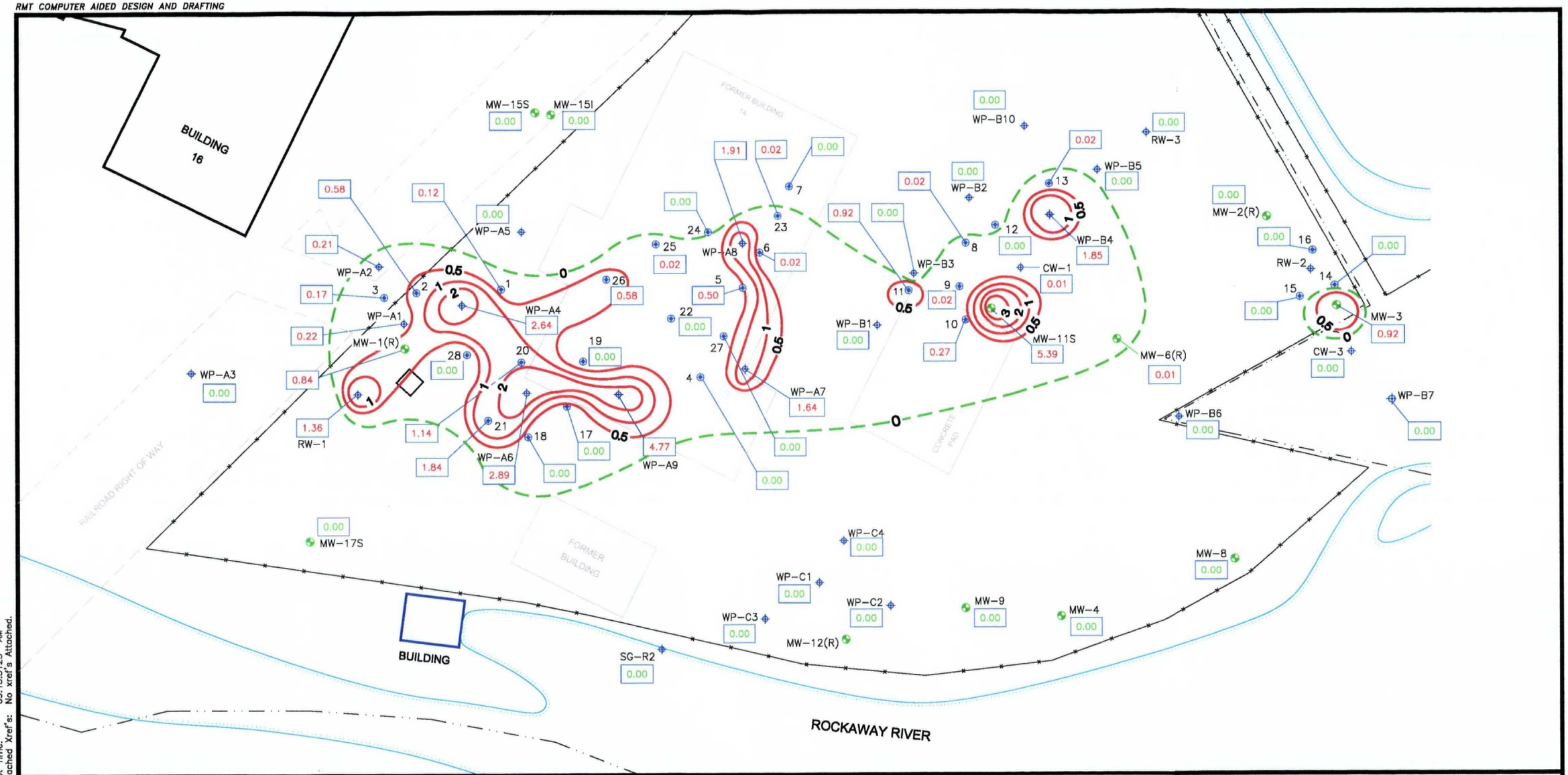
DRAWN BY:	SJL	PROJECT NUMBER:	6527.02
CHECKED BY:	JO	FILE NUMBER:	65270232.DWG
APPROVED BY:	NC	DATE:	SEPTEMBER 2004

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: J:\06527\02\65270232.dwg
Operator Name: lucidos
Scale: 1"=1'
Dwg Size: 912251 Bytes
Plot Date: September 2004
Plot Time: 09:13.51 AM
Attached Xref's: No xref's Attached.

Layout Name: Site Plan - 2nd Quarter 2004



LEGEND

- SURFACE WATER FEATURE
- PROPERTY LINE
- FENCE
- 1 APPARENT PRODUCT THICKNESS CONTOURS (FT)
- 0 APPROXIMATE OUTER LIMIT OF FREE PRODUCT
- 0.00 NO MEASURABLE PRODUCT
- 1.13 PRODUCT THICKNESS MEASURED IN WELL (FT) (Measurements collected at monitoring wells and well points) on June 14, 2004 by RMT, Inc.) (Measurements collected at EFR wells on June 17, 2004 by CEMCO)

- MW-13S MONITORING WELL
- MW-24 ABANDONED WELL
- RW-2 RECOVERY WELL
- CW-3 CAISSON WELLS
- WP-B7 WELL POINTS WITH ELEVATION
- 13 ENHANCED FLUID RECOVERY WELL (EFR)

N

0 50' 100'
SCALE IN FEET

LE. CARPENTER
WHARTON, NEW JERSEY

FREE PRODUCT THICKNESS MAP
2nd QUARTER 2004

DRAWN BY:	SJL	PROJECT NUMBER:	6527.02
CHECKED BY:	JO	FILE NUMBER:	65270233.DWG
APPROVED BY:	NC	DATE:	SEPTEMBER 2004

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

FIGURE 3

PLOT DATA
Drawing Name: J:\06527\02\65270233.dwg
Operator Name: lucidos
Scale: 1"=50'
Dwg Size: 141028 Bytes
Plot Date: September 2004
Plot Time: 09:15:32 AM
Attached Xref's: No xref's Attached.

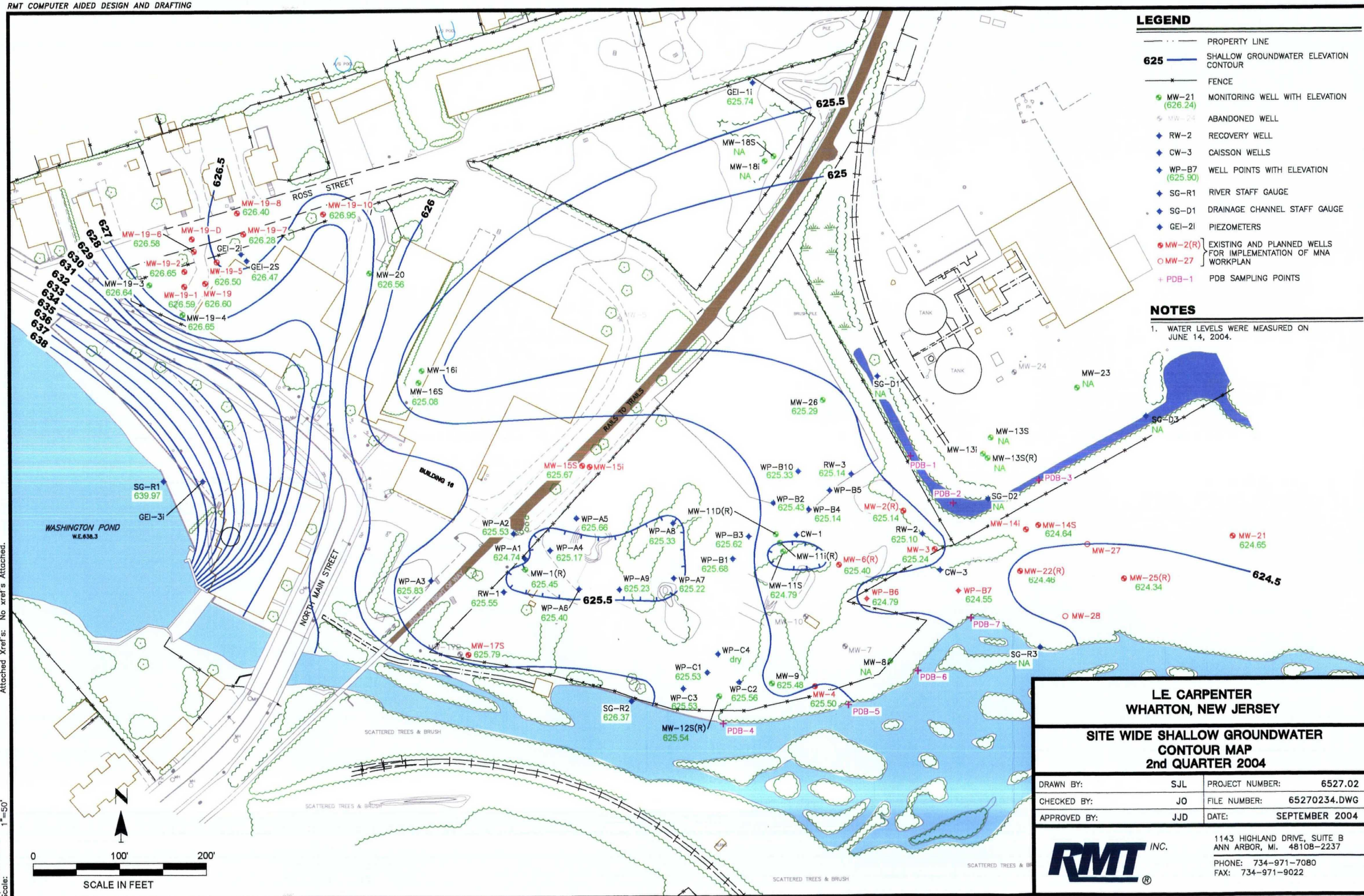
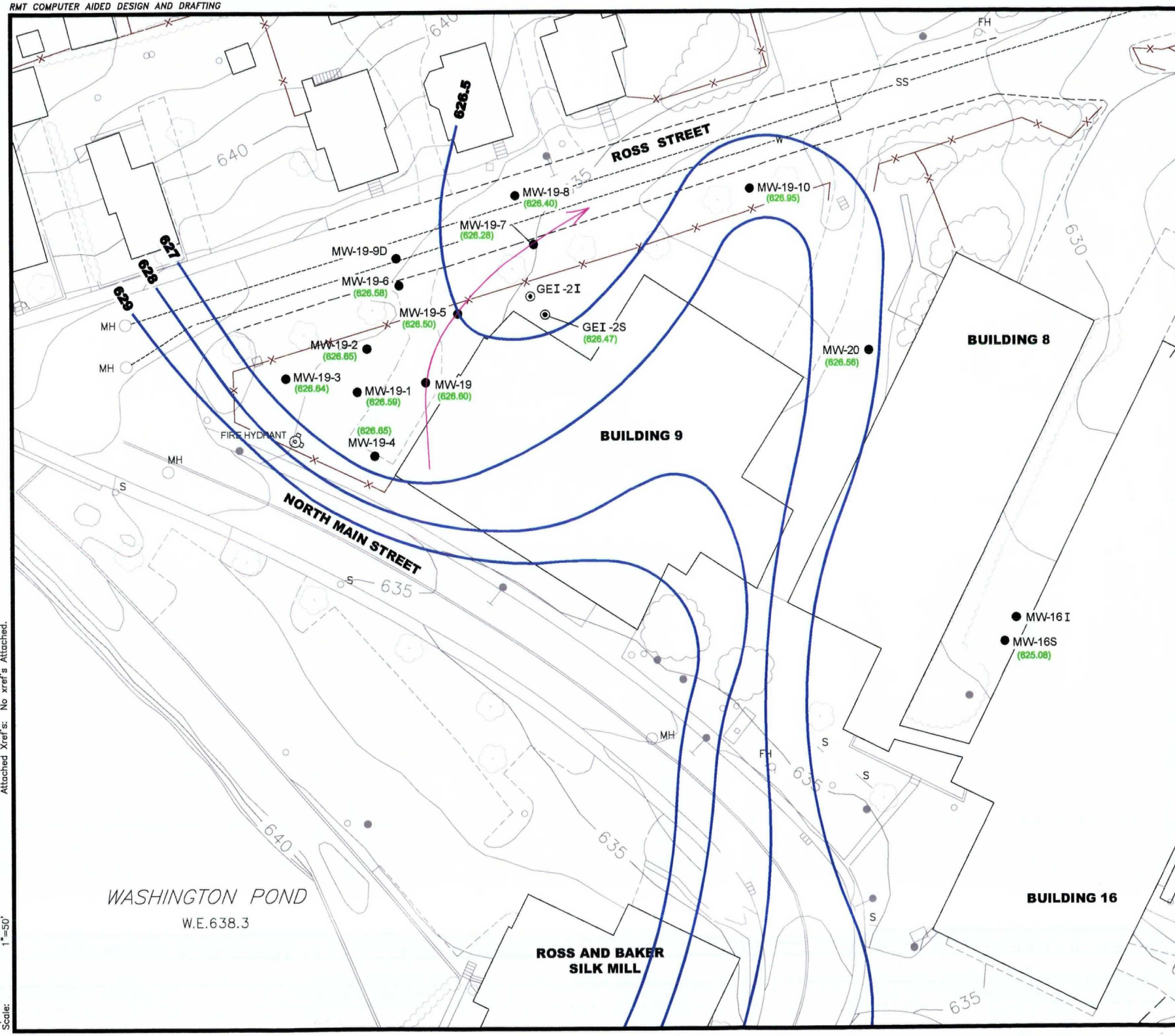

LEGEND
PROPERTY LINE
625 SHALLOW GROUNDWATER ELEVATION CONTOUR
FENCE
MW-21 (626.24) MONITORING WELL WITH ELEVATION
MW-24 ABANDONED WELL
RW-2 RECOVERY WELL
CW-3 CAISSON WELLS
WP-B7 (625.90) WELL POINTS WITH ELEVATION
SG-R1 RIVER STAFF GAUGE
SG-D1 DRAINAGE CHANNEL STAFF GAUGE
GEI-2I PIEZOMETERS
MW-2(R) MW-27 EXISTING AND PLANNED WELLS FOR IMPLEMENTATION OF MNA WORKPLAN
PDB-1 PDB SAMPLING POINTS
NOTES
1. WATER LEVELS WERE MEASURED ON JUNE 14, 2004.
ROSS STREET
NORTH MAIN STREET
RAILS TO TRAILS
BUILDING 16
WASHINGTON POND
W.E.638.3
SCATTERED TREES & BRUSH
TANK
0 100' 200'
SCALE IN FEET
LE CARPENTER
WHARTON, NEW JERSEY
SITE WIDE SHALLOW GROUNDWATER CONTOUR MAP
2nd QUARTER 2004
DRAWN BY: SJL
PROJECT NUMBER: 6527.02
CHECKED BY: JO
FILE NUMBER: 65270234.DWG
APPROVED BY: JJD
DATE: SEPTEMBER 2004
RMT INC.
1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI. 48108-2237
PHONE: 734-971-7080
FAX: 734-971-9022
PLOT DATA
Drawing Name: J:\06527\02\65270234.dwg
Operator Name: lucidos
Scale: 1"=50'
Dwg Size: 1892351 Bytes
Plot Date: September 2004
Plot Time: 09:33.32 AM
Attached Xref's: No xref's Attached.
Layout Name: Shallow GW Contour Map (2nd 2004)

FIGURE 4

RMT COMPUTER AIDED DESIGN AND DRAFTING



LEGEND

- FENCE LINE
- SS — APPROXIMATE LOCATION OF ROCKAWAY RIVER REGIONAL INTERCEPTOR SEWER
- 627 — GROUNDWATER ELEVATION CONTOUR
- MW-19-6 (627.80) — MONITORING WELL LOCATION AND NUMBER WITH CONCENTRATION OF TOTAL BTEXT (mg/L)
- GEI-2S (627.66) — GEOPROBE INSTALLED PIEZOMETER LOCATION AND NUMBER WITH CONCENTRATION OF TOTAL BTEX (mg/L)
- SS — SANITARY SEWER
- G&W — GAS AND WATER
- E — ELECTRIC
- W — WATER
- APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTES

1. GROUNDWATER ELEVATIONS BASED ON LEVELS MEASURED ON FEBRUARY 23, 2004.

N

0 40' 80'

SCALE IN FEET

LE. CARPENTER
WHARTON, NEW JERSEY

MW-19 / HOT SPOT 1 SHALLOW AQUIFER POTENTIOMENTRIC SURFACE MAP
2nd QUARTER 2004

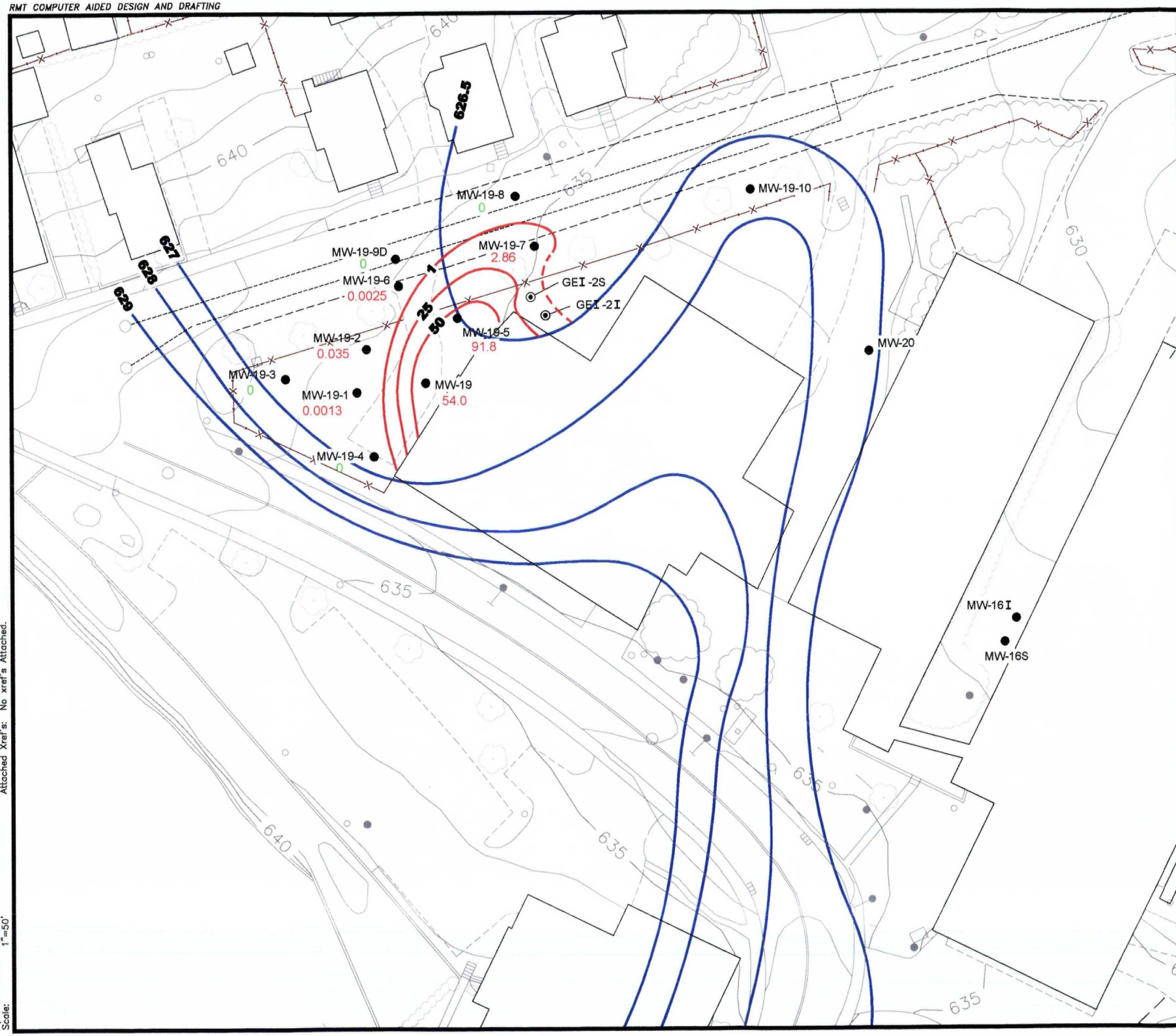
DRAWN BY:	SJL	PROJECT NUMBER:	6527.02
CHECKED BY:	JO	FILE NUMBER:	65270235.DWG
APPROVED BY:	JDD	DATE:	SEPTEMBER 2004

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

FIGURE 6

PLOT DATA
Drawing Name: J:\06527\02\65270235.dwg
Operator Name: lucidos
Scale: 1"=50'
Dwg Size: 918614 Bytes
Plot Date: September 2004
Plot Time: 09:35.1064 AM
Attached Xref's: No xref's Attached.

RMT COMPUTER AIDED DESIGN AND DRAFTING



LEGEND

- FENCE LINE
- SS — APPROXIMATE LOCATION OF ROCKAWAY RIVER REGIONAL INTERCEPTOR SEWER
- 626 — GROUNDWATER ELEVATION CONTOUR
- MW-19-7 2.86 — MONITORING WELL LOCATION AND NUMBER WITH CONCENTRATION OF TOTAL BTEX (mg/L)
- GEI -2S — GEOPROBE INSTALLED PIEZOMETER LOCATION AND NUMBER
- SS — SANITARY SEWER
- G&W — GAS AND WATER
- E — ELECTRIC
- W — WATER
- 50 — ISOCONCENTRATION CONTOUR FOR TOTAL BTEX (ppm). SAMPLES COLLECTED JUNE 14 - 18, 2004.

NOTES

1. GROUNDWATER ELEVATIONS BASED ON LEVELS MEASURED ON JUNE 14, 2004.

N

0 40' 80'

SCALE IN FEET

L.E. CARPENTER
WHARTON, NEW JERSEY

MW-19 / HOT SPOT 1
ISOCONCENTRATION MAP
FOR 2nd QUARTER 2004

DRAWN BY:	SJL	PROJECT NUMBER:	6527.02
CHECKED BY:	JO	FILE NUMBER:	65270236.DWG
APPROVED BY:	JDD	DATE:	SEPTEMBER 2004

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

PLOT DATA
Drawing Name: J:\06527\02\65270236.dwg
Operator Name: lucidos
Scale: 1"=50'
Dwg Size: 978969 Bytes
Plot Date: September 2004
Plot Time: 2:32:46:52 PM
Attached Xref's: No xref's Attached.

FIGURE 6

Figure 7 - Upward Gradient Trend Chart for the MW-14 Well Cluster

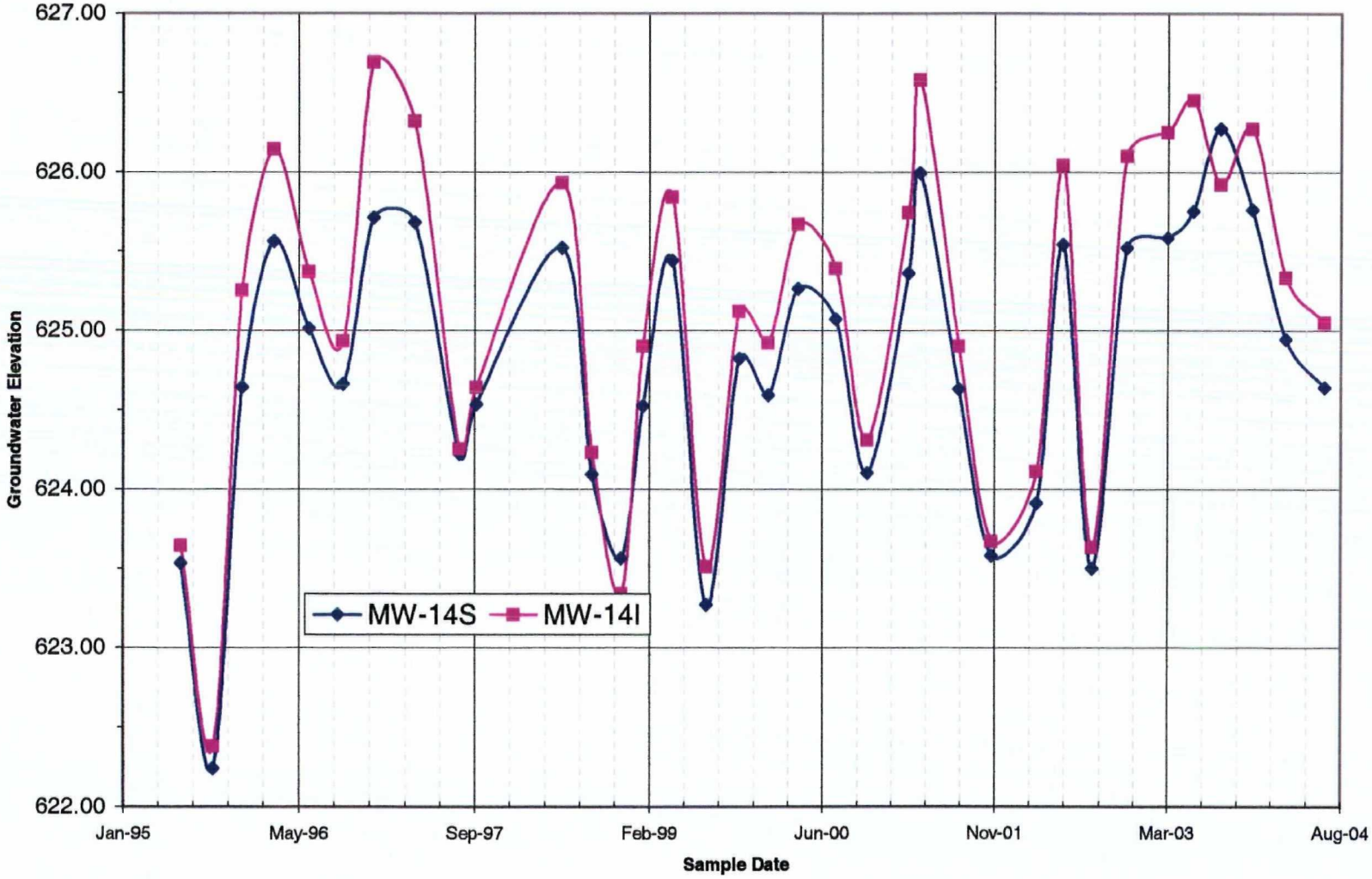
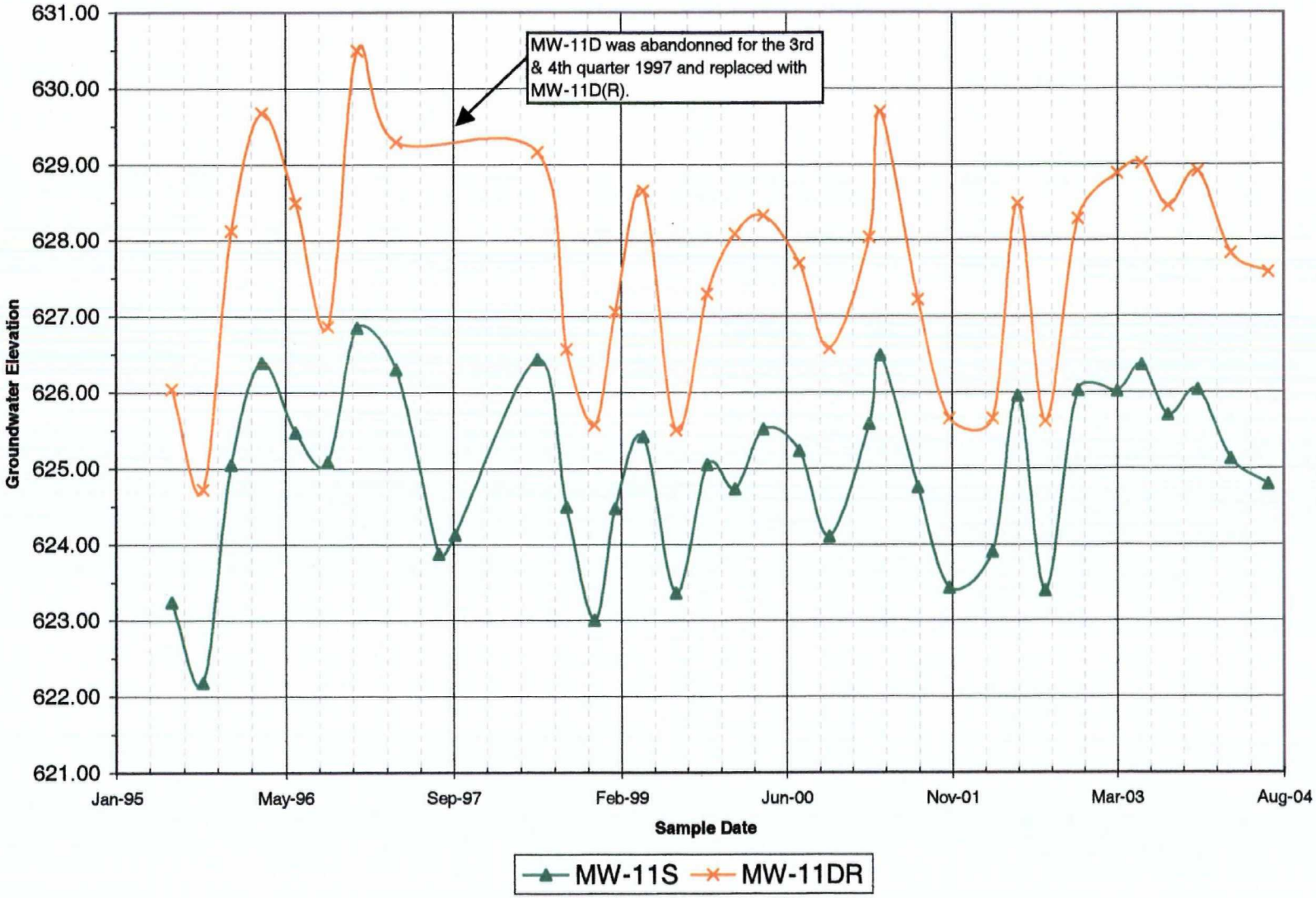


Figure 8- Upward Gradient Trend Chart for the MW-11 Well Cluster



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

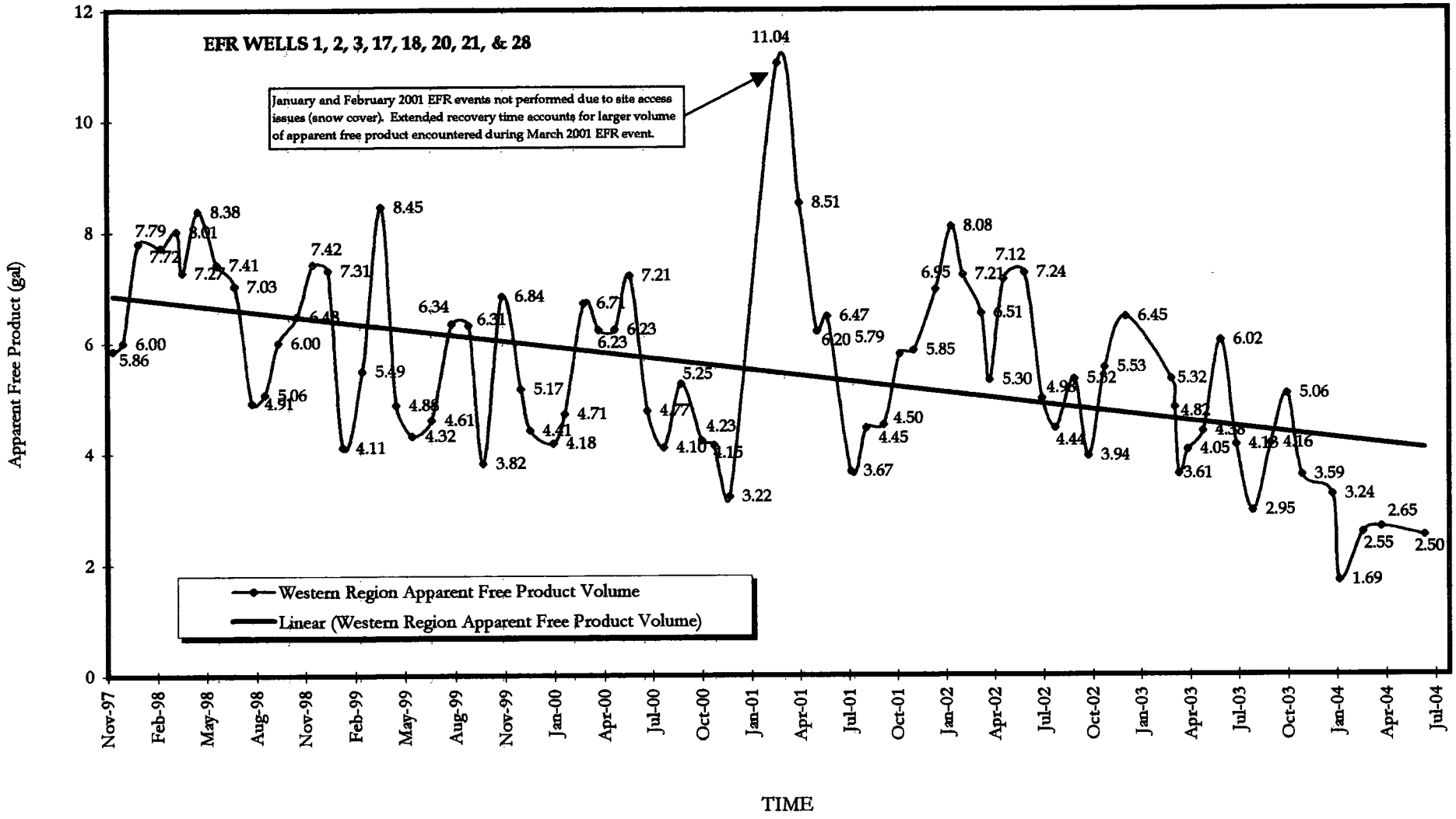
8/31/04

DATE

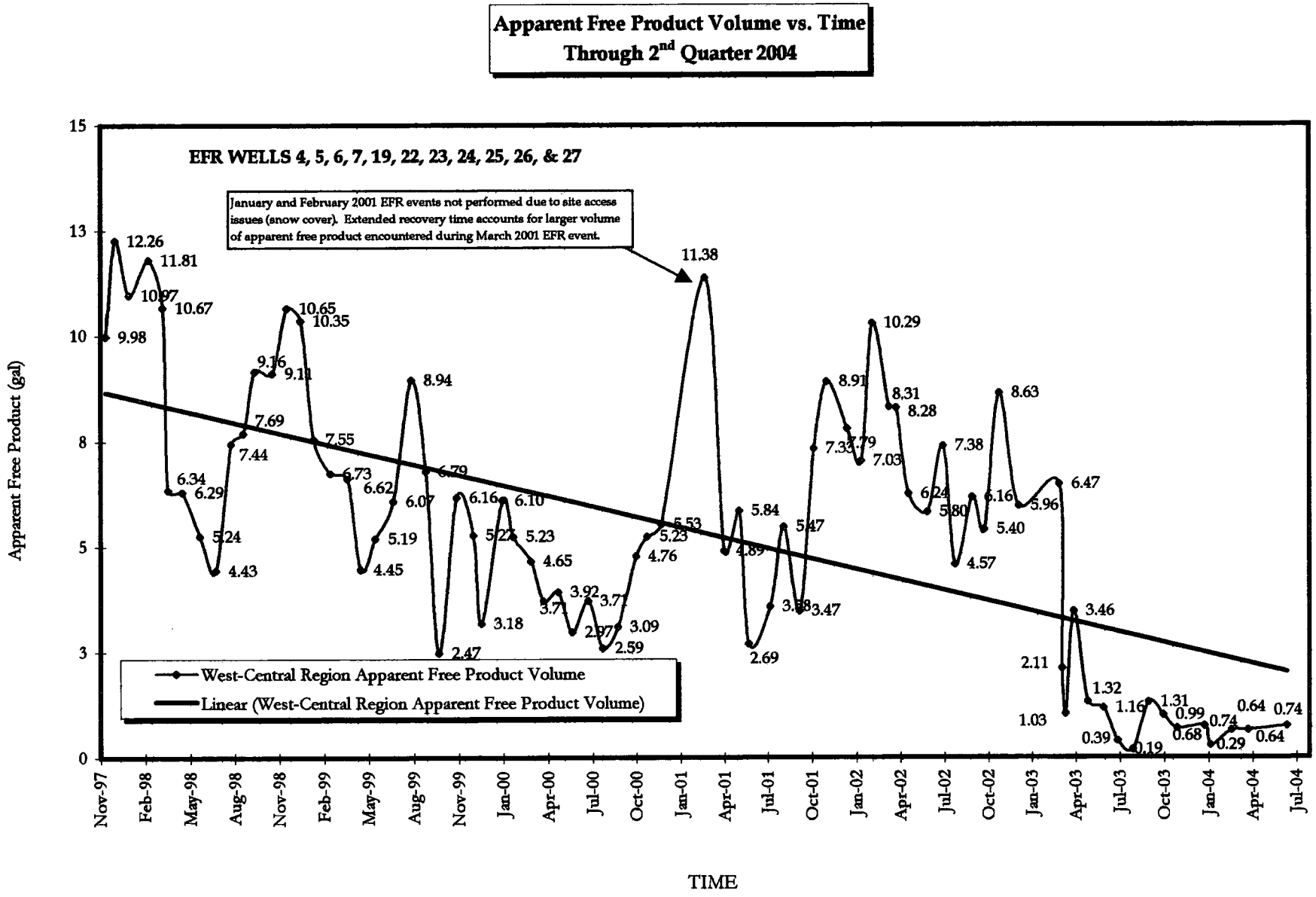
Appendix B
Apparent Free Product Volume Trend Charts

L.E. Carpenter and Company
Western Region of Free Product

Apparent Free Product Volume vs. Time
Through 2nd Quarter 2004

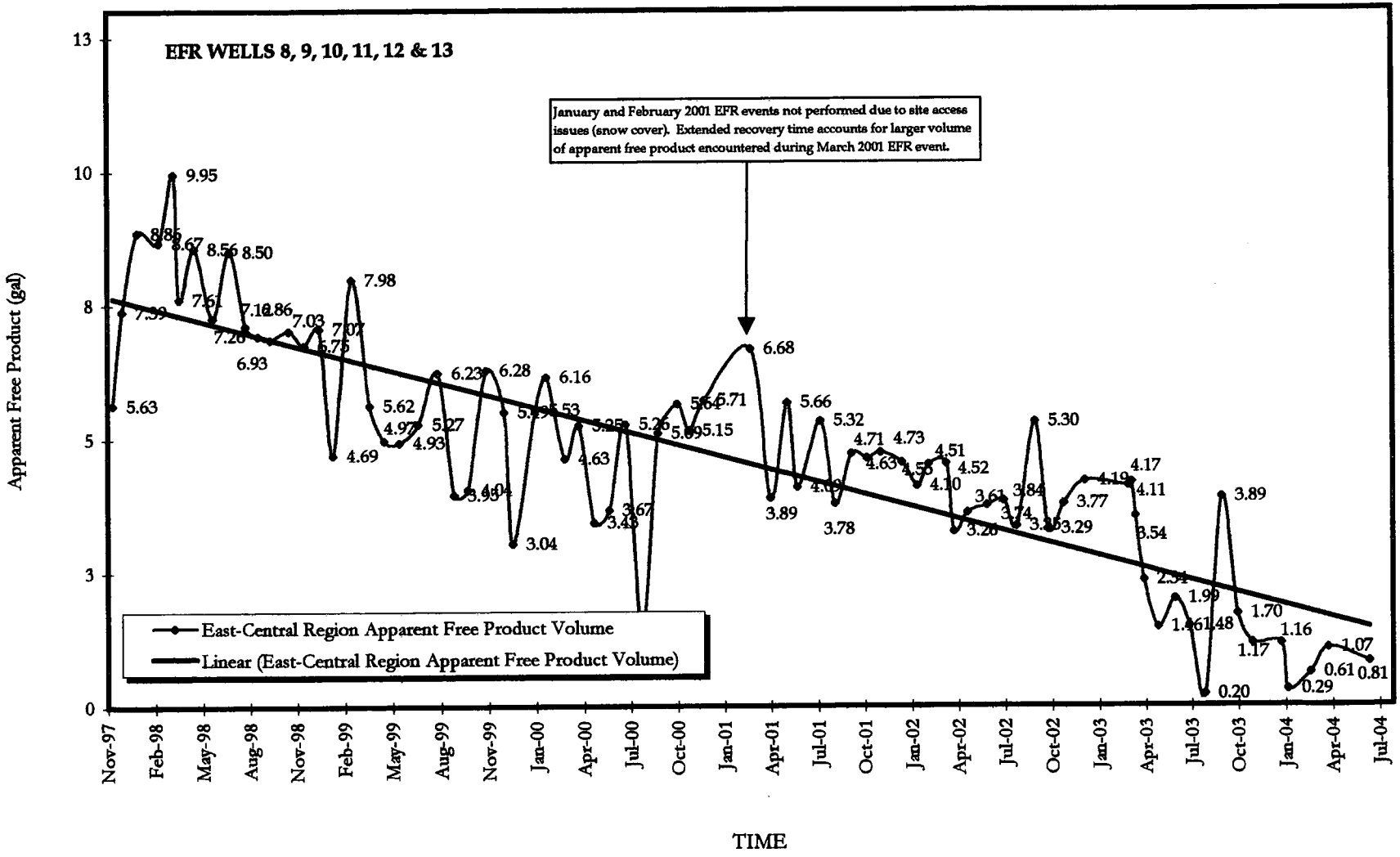


L.E. Carpenter and Company
West-Central Region of Free Product



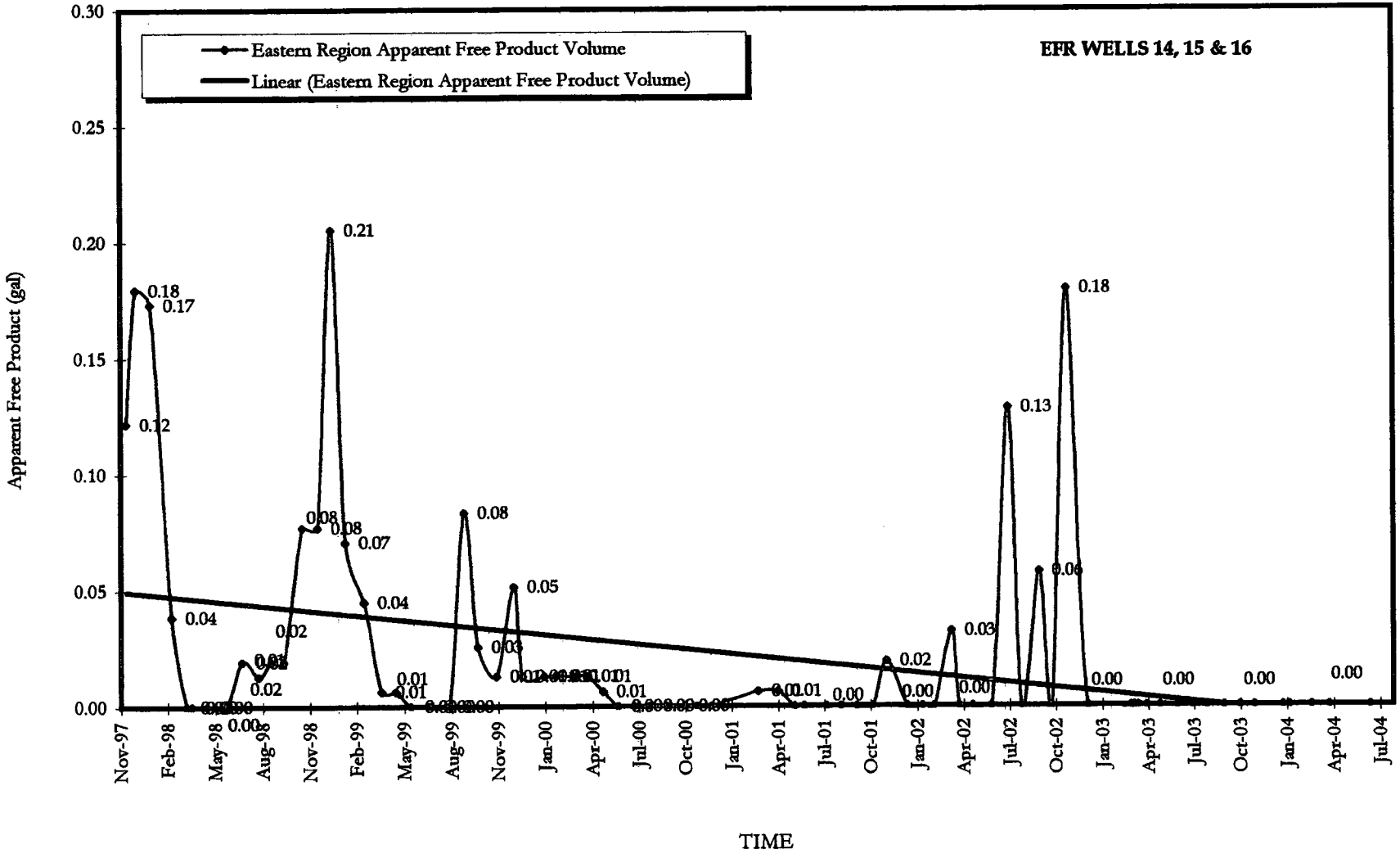
L.E. Carpenter and Company
East-Central Region of Free Product

Apparent Free Product Volume vs. Time
Through 2nd Quarter 2004



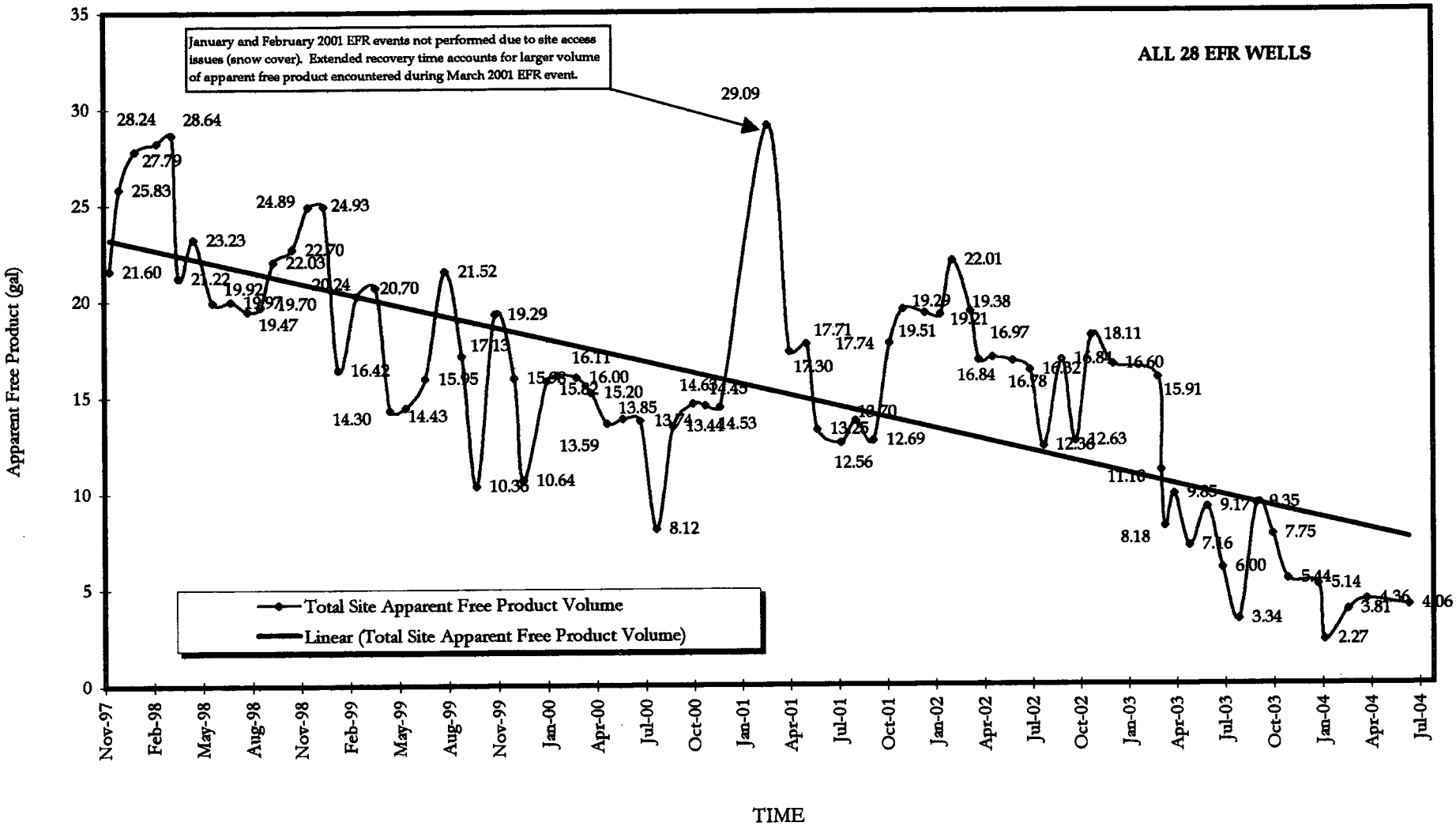
L.E. Carpenter and Company
Eastern Region of Free Product

Apparent Free Product Volume vs. Time
Through 2nd Quarter 2004



L.E. Carpenter and Company
Total Site Free Product

Apparent Free Product Volume vs. Time
Through 2nd Quarter 2004



Appendix C
2nd Quarter 2004 Monitoring Well Sampling Data

RMT®

PROJECT NAME:	L. E. Carpenter
PROJECT NUMBER:	6527.02
LOCATION:	Wharton, NJ
DATES OF FIELD WORK:	6/14-18/2004
PURPOSE OF FIELD WORK:	2nd Quarter Groundwater Monitoring
WORK PERFORMED BY:	Jennifer Overvoorde Brendan McLennan

J Overvoorde	6/14/04	M. Altamirano	7/1/04
Signed	Date	QC'd By	Date

RMT	FIELD NOTES	SHEET 2 of
		DATE: 6/14/04
		AUTHOR: J. Overvoorde
PROJECT: LEC		PROJECT NO 6527.02
TIME ARRIVED ON SITE: 8:20		TIME LEFT SITE: 17:30

WEATHER:

Temperature: 75 °F Wind: 5 MPH Visibility: very clear, site dry
Wharton

WORK / SAMPLING PERFORMED: measured WLs
sampled 2 pdb bags

PROBLEMS ENCOUNTERED / CORRECTIVE ACTION:

COMMUNICATIONS:

NAME REPRESENTING: Dave Condon

SUBJECT / COMMENTS: obtain site keys

J. Overvoorde
SIGNED

M. Altomaro 7/1/04
REVIEWED BY

06/03

H:\FORMS\GRM FIELD FORMS\LEC Field Forms_2004.xls

RMT FIELD NOTES	SHEET 3 of
	DATE: 6/15/04
	AUTHOR: J. Overvoorde
PROJECT: LEC	PROJECT NO 6527.02
TIME ARRIVED ON SITE: 730	TIME LEFT SITE:

WEATHER:

Temperature: 80 °F Wind: 10-20 MPH Visibility: good, clear

WORK / SAMPLING PERFORMED: finished sampling pdbs
sampled monitoring wells:

PROBLEMS ENCOUNTERED / CORRECTIVE ACTION: —

COMMUNICATIONS:

NAME REPRESENTING: —

SUBJECT / COMMENTS:

J. Overvoorde
SIGNED

Nicole A. Ottaviano 7/14/04
REVIEWED BY

06/03

H:\FORMS\GRM FIELD FORMS\LEC Field Forms_2004.xls

RMT FIELD NOTES	SHEET 4 of
	DATE: 6/16/04
	AUTHOR: J. Overvoorde
PROJECT: LEC	PROJECT NO 6527.02
TIME ARRIVED ON SITE: 7:00 am	TIME LEFT SITE:

WEATHER:

Temperature: 84 °F Wind: 5-10 MPH Visibility: good, clear

WORK / SAMPLING PERFORMED:

cont. sampled monitoring wells:

PROBLEMS ENCOUNTERED / CORRECTIVE ACTION:

—

COMMUNICATIONS:

NAME REPRESENTING: —

SUBJECT / COMMENTS:

J Overvoorde
SIGNED

N. Altomare 7/14/04
REVIEWED BY

RMT FIELD NOTES	SHEET 5 of
	DATE: 6/17/04
	AUTHOR: J. Overvoorde
PROJECT: LEC	PROJECT NO 6527.02
TIME ARRIVED ON SITE: 7:00 am	TIME LEFT SITE:

WEATHER:

Temperature: ~80 °F Wind: 5-20 MPH varried during day due to storm Visibility: cloudy, on + off rain

WORK / SAMPLING PERFORMED:

sampled monitoring wells

PROBLEMS ENCOUNTERED / CORRECTIVE ACTION:

while removing the pump from WP-B7, ~~#~~ an odor is noticed. There was product in the well even though nothing registered w/ the product level meter.

COMMUNICATIONS:

NAME REPRESENTING: Nick Clevett

SUBJECT / COMMENTS: pump covered in dissolved + possible free phase product.

J Overvoorde
SIGNED

M. Altamirano 7/14/04
REVIEWED BY

06/03

H:\FORMS\GRM FIELD FORMS\LEC Field Forms_2004.xls

RMT FIELD NOTES	SHEET 6 of
	DATE: 6/18/04
	AUTHOR: J. Overvoorde
PROJECT: LEC	PROJECT NO 6527.02
TIME ARRIVED ON SITE: 5:00 am	TIME LEFT SITE:

WEATHER:

Temperature: 78 °F Wind: 5-10 MPH Visibility: good / hazy

WORK / SAMPLING PERFORMED:

finished sampling wells - bailed
demob

PROBLEMS ENCOUNTERED / CORRECTIVE ACTION:

—

COMMUNICATIONS:

NAME REPRESENTING: —

SUBJECT / COMMENTS:

J Overvoorde
SIGNED

M. Altomare 7/14/04
REVIEWED BY

RMT	EQUIPMENT SUMMARY	SHEET: 7 of
		DATE:
		CHECKED BY:
PROJECT: LEC	PROJECT NO: 6527.02	REVIEWED BY: Y/AA 7/14/04

WATER LEVEL MEASUREMENTS WERE COLLECTED WITH:

QED draw down control
Name and Model Number of Instrument

LEC owned
Serial Number (if applicable)

DEPTH TO BOTTOM OF WELL MEASUREMENTS WERE COLLECTED WITH:

QED
Name and Model Number

LEC owned
Serial Number (if applicable)

PURGING METHOD:

QED Portable Bladder
Name and Model Number of Pump or Type of Bailer

LEC owned
Serial Number (if applicable)

PURGE WATER DISPOSAL METHOD:

55 gal drum

SAMPLING METHOD:

QED Portable Bladder Pump
Name and Model Number of Pump or Type of Bailer

LEC owned
Serial Number (if applicable)

dedicated teflon-lined poly eth.
Turbing Type

FILTRATION METHOD:

Name and Model Number of Device

Serial Number (if applicable)

NA

Filter Type

Tubing Type

DECONTAMINATION AND FILED BLANK WATER SOURCE:

Potable Water Source (if applicable)

laboratory
DI Water Source

RMT	PH / CONDUCTIVITY METER CALIBRATION LOG	SHEET 8 of
		DATE: 6/15 - 18/04
PROJECT: LEC		PROJECT NO: 6527.02
LOCATION Wharton, NJ		SAMPLER NAME: J. Overvoorde B. McClenan
MODEL: QED MP-20 Flow Thru	SERIAL NO: LEC owned	DEVICE OWNER: LEC

pH CALIBRATION

DATE / TIME	pH 4 PRE-CALIBRATION READING	pH 4 POST-CALIBRATION READING	pH 7 PRE-CALIBRATION READING	pH 7 POST-CALIBRATION READING	pH 10 PRE-CALIBRATION READING	pH 10 POST-CALIBRATION READING
6/15/04 11:02	4.31 / 4.00	4.0 / 4.00	7.17 / 7.00	7.00 / 7.00	NA / 10.00	NA / 10.00
6/15/04 20:35	4.04 / 4.00	4.00 / 4.00	7.10 / 7.00	7.00 / 7.00	NA / 10.00	NA / 10.00
6/16/04 8:00	4.10 / 4.00	3.99 / 4.00	7.18 / 7.00	7.00 / 7.00	NA / 10.00	NA / 10.00
6/16/04 20:05	4.02 / 4.00	4.0 / 4.00	7.06 / 7.00	7.01 / 7.00	NA / 10.00	NA / 10.00
6/17/04 7:50	3.98 / 4.00	4.0 / 4.00	7.03 / 7.00	7.01 / 7.00	NA / 10.00	NA / 10.00
6/17/04 11:55	4.01 / 4.00	4.00 / 4.00	7.04 / 7.00	7.00 / 7.00	NA / 10.00	NA / 10.00
6/18/04 4:50	4.06 / 4.00	3.99 / 4.00	7.02 / 7.00	6.99 / 7.00	NA / 10.00	NA / 10.00
	/ 4.00	/ 4.00	/ 7.00	/ 7.00	/ 10.00	/ 10.00

Buffer Log Numbers: pH4: NA pH7: NA pH 10: NA Solution Source

CONDUCTIVITY CALIBRATION

DATE / TIME	CONDUCTIVITY SOLUTION (units)	PRE-CALIBRATION READING (units)	POST CALIBRATION READING (units)
6/15/04 11:02	1412	1409	1412
6/15/04 20:35	1412	1418	1412
6/16/04 8:00	1412	1424	1412
6/16/04 20:05	1412	1416	1412
6/17/04 7:50	1412	1428	1412
6/17/04 11:55	1412	1417	1412
6/18/04 4:50	1412	1420	1412

CALIBRATION SOLUTION LOT NUMBER: NA CALIBRATION RANGE FOR SOLUTION:

PROBLEMS / CORRECTIVE ACTIONS: pH 10 calib solution expired

J Overvoorde 6/15/04
SIGNED DATE

M. Attanasio 7/14/04
REVIEWED BY DATE

RMT	TURBIDITY METER CALIBRATION LOG	SHEET 9 of
		DATE: various
PROJECT: LEC		PROJECT NO: 6527.02
LOCATION: Wharton, NJ		SAMPLER NAME: JO
MODEL: Hach 2100	SERIAL NO:	DEVICE OWNER: LEC

	DATE / TIME	0 - 20 NTU READING	0 - 100 NTU READING	0 - 1000 NTU READING	Comments
11:02 am	6/15/04	20	94	753	calibration concentrates
20:35	6/15/04	5	54	521	reg. calib. solu.
7:50 am	6/16/04	5	52	520	"
20:05	6/16/04	6	53	524	"
7:50 am	6/17/04	6	56	526	"
11:55 am	6/17/04	6	54	521	"
4:50 am	6/18/04	5	54	522	"

CALIBRATION SOLUTION LOT NUMBER: NA CALIBRATION RANGE FOR SOLUTION: NA

PROBLEMS / CORRECTIVE ACTIONS:

J Openoorde 6/15/04
SIGNED DATE

N. Attanzaro 7/14/04
REVIEWED BY DATE

RMT

WATER LEVEL DATA

PROJECT NAME: LE Carpenter

DATE: 6/14/04

PROJECT NUMBER: 6527.02

SAMPLER: JO/BM

Well ID	Time	Top of Casing Elevation	Historical Depth to Water	Depth to Product (feet)*	Depth to Water (feet)*	Depth to Bottom (feet)	Water Elev (MSL)
CW-1	15 19			7.15	7.16		
MW-11S	15 13			7.23 well	12.62		
MW-1R	12 48			9.37	10.21		
MW-2R	16 20			—	6.40		
MW-3	16 15			6.66	7.58		
MW-6R	16 12			6.41	6.42		
RW-1	12 58			11.14	12.50		
RW-2	16 18			—	5.98		
RW-3	15 33			—	6.25		
WPA1	12 45			10.46	10.68		
WPA2	12 28			13.05	13.26		
WPA4	13 07			9.16	11.80		
WPA5	13 05			—	11.59		
WPA6	13 11			11.10	13.99		
WPA7	14 50			8.96	10.60		
WPA8	14 37			11.51	13.42		
WPA9	13 19			13.19	17.96		
WPB1	14 56			—	7.37		
WPB2	15 00			—	6.22		
WPB3	14 59			—	7.11		
WPB4	15 23			6.70	8.55		
WPB5	15 26			—	5.18		

casi
7.55
12.9

* Note the Presence of Sheen as an "S"

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

TYPE OF MEASURING DEVICE: Solonist Model 122 Interface Probe

J Overwoods 6/14/04 — Signed — Date

M. Altamirano 7/1/04 — QC'd By — Date

RMT

WATER LEVEL DATA

PROJECT NAME: LE Carpenter

DATE: 6/14/04

PROJECT NUMBER: 6527.02

SAMPLER: JO/BM

Well ID	Time	Top of Casing Elevation	Historical Depth to Water	Depth to Product (feet)*	Depth to Water (feet)**	Depth to Bottom (feet)	Water Elev (MSL)
MW-11DR	15 09				4.91		
MW-11IR	15 10				7.35		
MW-16I	10 37				8.19		
MW-16S	10 38				8.79		
MW-19	10 00				9.30		
MW19-1	9 53				9.05		
MW19-2	9 51				9.65		
MW19-3	9 56				10.06		
MW19-4	9 58				8.78		
MW19-5	10 02				9.06		
MW-20	10 41				9.61		
MW-22	16 48				3.07		
MW-~~X~~ 21	16 55				~~15.70~~ 3.55		
MW-25	16 50				2.28		
WPA3	12 54				9.12		
WPB10	15 28				6.81 PVC		
WPB6	16 34				6.47		
WPB7	16 31				4.34		
WPC1	13 31				7.38		
WPC2	13 35				8.30		
WPC3	13 29				6.45		
WPC4	13 37				dry	7.93	

JO 6/14/04

casin 7.21

* Note the Presence of Sheen as an "S"

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

TYPE OF MEASURING DEVICE: QED MP-30

[signature] 6/14/04 — Signed — Date

[signature] 7/1/04 — QC'd By — Date

REV 09/98

F-183

RMT

WATER LEVEL DATA

PROJECT NAME: LECarpenter

DATE: 6/14/04

PROJECT NUMBER: 6527.02

SAMPLER: JO/BM

Well ID	Time	Top of Casing Elevation	Historical Depth to Water	Depth to Product (feet)*	Depth to Water (feet)	Depth to Bottom (feet)	Water Elev (MSL)	
GEI-1I	10 55				4.44			
GEI-2I	10 04				10.68			
GEI-2S	10 05				JO 6/14/04 10.68			
GEI-3I	12 00				12.85			
MW_26	15 30				7.37			
MW-12R	13 32				8.19 PVC			8.72 casi
MW-14I	16 42				2.58			
MW-14S	16 41				3.17			
MW-15I	11 12				10.39			
MW-15S	11 09				10.50			
MW-17S	12 56				8.40			
MW-18I	10 58				NM-lost			
MW-18S	10 58				NM-lost			
MW19-6	10 12				9.24			
MW19-7	10 14				JO ~~15.14~~ 8.72			
MW19-8	10 22				8.96			
MW19-9D	10 15				8.93			
MW-4	14 18				6.40			
MW-8	NA				NM			
MW-9	14 20				4.10 PVC			5.6 casi
SGR-1	12 07				1.38			
SGR-2	13 26				3.04			

* Note the Presence of Sheen as an "S"

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

TYPE OF MEASURING DEVICE: QED MP-30

J Overvoorde 6/14/04 — Signed — Date

N. Altamirano 7/1/04 — QC'd By — Date

RMT

WATER LEVEL DATA

PROJECT NAME: LE Carpenter

DATE: 6/14/04

PROJECT NUMBER: 6527.02

SAMPLER: JO/BM

Well ID	Time	Top of Casing Elevation	Historical Depth to Water	Depth to Product (feet)*	Depth to Water (feet)*	Depth to Bottom (feet)	Water Elev (MSL)
CW-3	1629				7.38		
MW-13I	1021				No access		
MW-13R	1021				No access		
MW-13S	1021				No access		
MW-23	1021				No access		
SGD-1	1021				No access		
SGD-2	1021				No access		
SGD-3	1021				No access		
SGR-3	NA				NM		
MW-19-10	1026				7.48		
MW-18	1050				dry ~~5.09~~	5.09	

* Note the Presence of Sheen as an "S"

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

TYPE OF MEASURING DEVICE: QED MP30

[signature] 6/14/04 — Signed / Date

[signature] 7/1/04 — QC'd By / Date

REV 09/98

F-183

RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW19

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 4"

DATE: 6/15/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 320

Water level before purging (nearest 0.01 ft. below reference point) 9.49 +0.0 T/oc

Depth to bottom of well (obtained from well logs) 17.0 + T/oc

Calculated volume of water in casing 4.90

Weather conditions clear, sunny, hot, wind 10-15 mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L or %)	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
11:40	320	6.81	849	NM	18.16	84	13.86	9.49	0
11:50		7.04	791	2	17.84	50	13.41	9.50	.75
12:00		7.17	850	2	11.87	33	13.58	9.50	2
12:10		7.19	882	2	11.50	30	13.52	9.51	3
12:20		7.21	896	2	10.95	28	13.57	9.51	4
12:25		7.23	881	2	11.95	26	13.91	9.51	4.5
12:30		7.23	887	2	11.57	25	13.92	9.51	5
12:35		7.23	890	2	10.97	24	13.94	9.51	5.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Alk 160 ppm CO_2 70 mg/L Total Iron 15 mg/L

+1.5

22.5

J Overvoorde — Signed

6/15/04 — Date

N. Altamaro — QC'd By

7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 15 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 1235

WELL INFORMATION	WELL ID: MW19	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 9.30	TOTAL DEPTH: 17.0	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: low flow portable bladder (use purge form)	
SAMPLING PUMP: teflon lined PE	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new) used)		
TUBING TYPE: QED Portable Bladder	TUBING CONDITION: good	HOW STORED: storage room
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/15/04 11:02	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 10.97 UNITS mg/L	FINAL ORP 24 UNITS mV	FINAL TURBIDITY: 2 NTU
FINAL PH: 7.23 SU	FINAL COND. 890 umhos/cm	FINAL TEMP.: 13.94
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

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	1	500 ml	plastic	A	☐Y ☒N
2	1000 ml	amber	F	☐Y ☒N	2	1000 ml	plastic	A	☐Y ☒N
2	1000 ml	glass	C	☐Y ☒N	1	120 ml	plastic	F	☐Y ☒N
1	40 ml	glass	C	☐Y ☒N	1	250 ml	amber	E	☐Y ☒N
1	40 ml	glass	A						

MW19 COC 16

CHAIN-OF-CUSTODY NUMBER: CO55808 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

M.A. 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW19-1

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 4"

DATE: 6/15/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 240

Water level before purging (nearest 0.01 ft. below reference point) 9.05 +0.0 T/OC

Depth to bottom of well (obtained from well logs) 17.0 + 0.0 T/OC

Calculated volume of water in casing 5.19

Weather conditions clear, sunny, hot, 10-20 mph wind

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
1332	240	6.63	1355	319	11.13	135	16.84	9.05	0
1337		6.64	1377	235	8.94	146	15.50	9.14	.32
1342		6.80	1373	197	~~10~~ 9.73	154	15.37	9.13	.64
1347		6.89	1370	156	11.84	161	14.65	9.12	.96
1352		6.98	1369	104	13.67	166	14.52	9.12	1.28
1357		7.00	1367	82	13.65	167	14.64	9.12	1.60
1402		7.07	1364	65	13.37	170	14.65	9.12	1.92
1407		7.08	1365	47	14.97	171	14.58	9.12	2.24
1412		7.11	1367	40	13.94	172	14.37	9.12	2.56
1417		7.14	1365	31	13.13	175	14.32	9.13	2.88
1422		7.13	1369	25	13.13	175	14.30	9.12	3.20
1427		7.17	1368	22	13.84	177	14.38	9.11	3.52
1432		7.18	1370	20	14.51	178	14.31	9.11	3.84
1437		7.19	1370	18	14.64	178	14.29	9.13	4.16
1442		7.20	1371	15	14.21	179	14.35	9.15	4.48
1447		7.22	1373	12	13.86	179	14.39	9.15	4.80
1452		7.22	1373	10	13.90	180	14.41	9.16	5.12

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

CO_2 17 Alk 125 ppm Total Fe 0.1

[signature] 6/15/04 [signature] 7/14/04

Signed Date QC'd By Date

RMT

WATER SAMPLE LOG

Sheet 17 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton	SAMPLE DATE: 6/15/04	SAMPLE TIME: 1452

WELL INFORMATION	WELL ID: MW19-1	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 9.05	TOTAL DEPTH: 17.0	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: none	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Portable bladder (use purge form)	
SAMPLING PUMP: QED portable bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon-lined PE	TUBING CONDITION: good	HOW STORED: storage room
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/15/04 1102	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 13.90 UNITS mg/L	FINAL ORP 180 UNITS mV	FINAL TURBIDITY: 10
FINAL PH: 7.22 SU	FINAL COND. 1373 umhos/cm	FINAL TEMP.: 74.41 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H2SO4 D - NaOH E - HCL F- $Na_2S_2O_3$

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size (ml)	Type	Preservative*	Filtered
5	40	gl.	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb.	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb.	E	☐Y ☒N
1	40	gl	A						

MMA COC 16

CHAIN-OF-CUSTODY NUMBER: 005808 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

7/19/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC
WELL NUMBER: MW19-2
PROJECT NUMBER: 00-06527.02
WELL DIAMETER: 4"
DATE: 6/15/04
SAMPLER: JO/BM
Type of pump used: portable bladder
Pumping rate (milliliters/minute): 280
Water level before purging (nearest 0.01 ft. below reference point) 9.75 + T/OC
Depth to bottom of well (obtained from well logs) 16.0 + 0 T/OC
Calculated volume of water in casing 4.08
Weather conditions clear, sunny, hot!, windy (10-20 mph)

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L or %)	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
1620	280	7.24	1081	310	6.64	143	17.96	9.75	0
1625		7.26	1098	38	5.54	119	14.29	9.76	.37
1630		7.31	1119	13	4.61	104	14.08	9.77	.74
1635		7.30	1164	9	4.51	95	14.08	9.77	1.11
1640		7.30	1189	6	4.39	89	14.04	9.78	1.48
1645		7.30	1199	4	4.45	83	13.97	9.78	1.85

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

CO_2 60 TOTAL ALK 210 TOTAL Fe 3.5

Signed: [illegible] Date: 6/15/04
QC'd By: [illegible] Date: 7/14/04

RMT

WATER SAMPLE LOG

Sheet 19 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 1645

WELL INFORMATION	WELL ID: mw-19-2	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 9.65	TOTAL DEPTH: 16.0	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Portable Bladder (use purge form)	
SAMPLING PUMP: QED portable bladder	PNEUMATIC SOURCE MP-10 Compressor	
BLADDER TYPE: PE (new) used)		
TUBING TYPE: teflon lined PE	TUBING CONDITION: good	HOW STORED: storage room
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/15/04 1102	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 4.45 UNITS mg/L	FINAL ORP 83 UNITS mV	FINAL TURBIDITY: 4
FINAL PH: 7.30 SU	FINAL COND. 1199 umhos/cm	FINAL TEMP.: 13.97 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

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

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size (ml)	Type	Preservative*	Filtered
5	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	X					

MW-19 COC 16

CHAIN-OF-CUSTODY NUMBER: 0055809 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-15S

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 4"

DATE: 6/15/04

SAMPLER: JO/BM

Type of pump used: Portable Bladder

Pumping rate (milliliters/minute): 400

Water level before purging (nearest 0.01 ft. below reference point) 10.54 + 0.0 T/OC

Depth to bottom of well (obtained from well logs) 26.0 + T/OC

Calculated volume of water in casing 10.1

Weather conditions clear, sunny, hot!, wind 10-20 mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
1820	400	7.07	1216	85	4.19	157	15.20	10.54	0
1825		7.05	1158	63	5.92	158	14.08	10.54	.53
1830		7.06	1106	50	4.68	159	13.79	10.55	1.06
1835		7.06	1043	34	5.04	159	13.97	10.55	1.59
1840		7.08	1045	32	4.98	157	14.09	10.55	2.12
1845		7.10	1009	25	4.96	156	13.91	10.55	2.65
1850		7.12	965	16	4.84	157	13.92	10.55	3.18
1855		7.12	935	16	5.12	157	13.94	10.56	3.71
1900		7.14	921	15	5.40	157	13.75	10.56	4.24

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

J Orenoorde — Signed

6/15/04 — Date

Y. Altamirano — QC'd By

7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 21 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 1900

WELL INFORMATION	WELL ID: MW-15S	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 10.50	TOTAL DEPTH: 26.0	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Portable Bladder (use purge form)	
SAMPLING PUMP: QED portable bladder	PNEUMATIC SOURCE MP-10 compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon lined PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/15/04 11:02	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 5.40 UNITS mg/L	FINAL ORP 157 UNITS mV	FINAL TURBIDITY: 15 NTU
FINAL PH: 7.14 SU	FINAL COND. 921 umhos/cm	FINAL TEMP.: 13.75 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

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
3	40ml	glass	E	☐Y ☒N					☐Y ☐N
2	1000 ml	glass	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0057250 DATE SHIPPED: 6/16/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-15I

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/15/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 280

Water level before purging (nearest 0.01 ft. below reference point) 10.40+ 0.0T/ 0C

Depth to bottom of well (obtained from well logs) 43.92+ T/0C

Calculated volume of water in casing 5.46

Weather conditions clear, sunny, hot, wind 10-20 mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
1920	280	7.10	734	1000+	5.78	161	18.95	10.40	0
1925		7.26	439	939	5.56	154	17.05	10.41	.37
1930		7.35	448	125	2.77	96	15.80	10.41	.74
1935		7.44	462	40	3.30	33	13.44	10.41	1.11
1940		7.43	469	32	3.67	8	14.66	10.40	1.48
1945		7.42	475	20	3.40	-9	14.53	10.40	1.85
1950		7.44	479	15	3.23	-18	14.40	10.40	2.22
1955		7.43	477	14	3.20	-20	14.37	10.40	2.59
2000		7.44	477	10	2.97	-25	14.38	10.41	2.96

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

J Orenoorde — Signed

6/15/04 — Date

N. Altomaro — QC'd By

7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 23 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 2000

WELL INFORMATION	WELL ID: MW-15I	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 10.39	TOTAL DEPTH: 43.92	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Portable Bladder (use purge form)	
SAMPLING PUMP: QED portable bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon-lined PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/15/04 11:02	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: None
FINAL D.O. 2.97 UNITS mg/L	FINAL ORP -25 UNITS mV	FINAL TURBIDITY: 10 NTU
FINAL PH: 7.44 SU	FINAL COND. 477 umhos/cm	FINAL TEMP.: 14.38 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

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
3	40 ml	glass	E	☐Y ☐N					☐Y ☐N
2	1000 ml	glass	F	☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0057250 DATE SHIPPED: 6/16/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

Noted 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC
WELL NUMBER: MW-14 I
PROJECT NUMBER: 00-06527.02
WELL DIAMETER: 2"
DATE: 6/16/04
SAMPLER: JO/BM
Type of pump used: portable bladder pump
Pumping rate (milliliters/minute): 400
Water level before purging (nearest 0.01 ft. below reference point) 2.68 +0.2T/OC
Depth to bottom of well (obtained from well logs) 44.3+ T/OC
Calculated volume of water in casing 6.78
Weather conditions clear, sunny, hot, still

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L or %)	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
820	400	6.77	324	1000+	2.81	260	13.90	2.68	0
825		7.04	324	560	2.94	247	15.25	2.69	.53
830		7.29	323	203	2.48	238	15.56	2.69	1.06
835		7.33	322	122	2.38	234	16.69	2.69	1.59
840		7.47	318	68	2.24	241	17.42	2.68	2.12
845		7.36	318	62	2.20	230	17.77	2.68	2.65
850		7.34	320	41	2.40	227	13.43	2.68	3.18
855		7.50	321	34	1.06	223	13.31	2.69	3.71
900		7.48	320	25	1.11	221	13.37	2.69	4.24
905		7.50	321	19	1.15	218	13.30	2.69	4.77
910		7.51	321	16	1.12	213	13.34	2.69	5.30
915		7.50	320	13	1.16	213	13.30	2.69	5.83
920		7.54	321	13	1.22	209	13.30	2.69	6.36
925		7.56	321	8	1.29	207	13.30	2.69	6.89

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

ALK 90 TOTAL FE 0.5 CO_2 1000+

Signed: [signature] Date: 6/16/04 QC'd By: [signature] Date: 7/14/04

RMT

WATER SAMPLE LOG

Sheet 25 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/16/04	SAMPLE TIME: 925

WELL INFORMATION	WELL ID: MW-14I	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 2.58	TOTAL DEPTH: 44.3	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: QED Portable bladder (use purge form)	
SAMPLING PUMP: QED Portable Bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon lined pe	TUBING CONDITION:	HOW STORED: in well
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/16/04 8:00	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 1.29 UNITS mg/L	FINAL ORP 207 UNITS mV	FINAL TURBIDITY: 8 NTU
FINAL PH: 7.56 SU	FINAL COND. 321 mmhos/cm	FINAL TEMP.: 13.30 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H2SO4 D - NaOH E - HCL F- $Na_2S_2O_3$

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size (ml)	Type	Preservative*	Filtered
4	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	✓					

MNA COC 15

CHAIN-OF-CUSTODY NUMBER: 0057250 DATE SHIPPED: 6/16/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/16/04

MAA 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-14S

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 4"

DATE: 6/14/04

SAMPLER: JO

Type of pump used: Portable Bladder

Pumping rate (milliliters/minute): 440

Water level before purging (nearest 0.01 ft. below reference point) 3.16 0.0T/0C

Depth to bottom of well (obtained from well logs) 15.46 + T/0C

Calculated volume of water in casing 18.8

Weather conditions sunny, clear

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
1000	440	7.38	370	15	2.28	129	18.78	3.16	0
1015	↓	7.14	485	19	2.73	24	18.18	3.21	.58
1020	↓	7.15	515	6	3.18	-5	13.19	3.23	1.16
1025	↓	7.17	517	5	3.20	-12	12.95	3.23	1.74
1030	↓	7.19	517	4	3.19	-16	12.82	3.23	2.90

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Alk 125 CO_2 14 Total Fe 5.:

J Overwoorde — Signed

6/16/04 — Date

N. Altoupuro — QC'd By

7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 27 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/16/04	SAMPLE TIME: 10:30

WELL INFORMATION	WELL ID: MW-145	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 3.17	TOTAL DEPTH: 15.46	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: QED Port. Bladder (use purge form)	
SAMPLING PUMP: QED port. bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon lined pe	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/16/04 8:00	

SAMPLE DESCRIPTION	COLOR: Clear	ODOR: none
FINAL D.O. 3.19 UNITS mg/L	FINAL ORP -16 UNITS mV	FINAL TURBIDITY: 4 NTU
FINAL PH: 7.19 SU	FINAL COND. 517 umhos/cm	FINAL TEMP.: 12.82°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H2SO4 D - NaOH E - HCL F- $Na_2S_2O_3$

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size (ml)	Type	Preservative*	Filtered
5	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	X					

MMM COC 16

CHAIN-OF-CUSTODY NUMBER: 0057250 DATE SHIPPED: 6/16/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/16/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-22(R)

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/16/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 400

Water level before purging (nearest 0.01 ft. below reference point) 3.35 +0.0 T/OC

Depth to bottom of well (obtained from well logs) 7.5 + T/OC

Calculated volume of water in casing .68

Weather conditions clear, sunny, hot, wind 5-10 mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
1123	400	7.17	654	15	1.96	-20	13.84	3.35	0
1128	↓	7.17	655	6	1.70	-38	12.92	3.45	.53
1133		7.16	655	5	2.20	-38	12.80	3.46	1.06
1138		7.19	655	2	2.28	-38	12.73	3.48	1.59
1143		7.20	655	3	2.22	-35	12.84	3.48	2.12

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

alk 175 Fe 10 CO_2 25

J Overvoorde — Signed; 6/16/04 — Date; M. Altamaro — QC'd By; 7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 29 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION:	SAMPLE DATE: 6/16/04	SAMPLE TIME: 1143

WELL INFORMATION	WELL ID: MW-22(R)	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS:	
STATIC WATER LEVEL: 3.07	TOTAL DEPTH: 7.5	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Portable Bladder (use purge form)	
SAMPLING PUMP: QED Port. Bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: tephlon lined PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/16/04 800	

SAMPLE DESCRIPTION	COLOR: Clear	ODOR: None
FINAL D.O. 2.22 UNITS mg/L	FINAL ORP -35 UNITS mV	FINAL TURBIDITY: 3 NTU
FINAL PH: 7.20 SU	FINAL COND. 655 umhos/cm	FINAL TEMP.: 12.84 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

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

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size (ml)	Type	Preservative*	Filtered
5	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	X					

NA COC 14

CHAIN-OF-CUSTODY NUMBER: 0057250 DATE SHIPPED: 6/16/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/16/04

Nadd 7/14/04

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RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

+Dup-01

PROJECT NAME: LEC

WELL NUMBER: MW19-7

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/16/04

SAMPLER: JO/BM

Type of pump used: Portable Bladder

Pumping rate (milliliters/minute): 400

Water level before purging (nearest 0.01 ft. below reference point) 8.72 + 0.0T/0C

Depth to bottom of well (obtained from well logs) 20 + T/0C

Calculated volume of water in casing 1.83

Weather conditions clear, hot, sunny

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L or %)	ORP (mV)	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
1500	400	6.79	382	15	6.42	30	15.14	8.72	0
1505		6.81	388	13	10.68	37	14.84	8.78	.53
1510		6.80	386	7	5.54	42	14.31	8.72	1.06
1515		6.83	386	7	5.95	48	14.29	8.72	1.59
1520		6.82	380	6	5.89	48	14.34	8.70	2.12

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

CO_2 90 Alk 95 Fe 8

Signed: [signature] Date: 6/16/04 QC'd By: [signature] Date: 7/14/04

RMT

WATER SAMPLE LOG

Sheet 31 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION:	SAMPLE DATE: 6/16/04	SAMPLE TIME: 1520

WELL INFORMATION	WELL ID: MW-19-7	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 8.72	TOTAL DEPTH:	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Portable Bladder (use purge form)	
SAMPLING PUMP: QED Port. Bladder	PNEUMATIC SOURCE	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: tephlon lined PE	TUBING CONDITION: good	HOW STORED: storage room
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/16/04 800	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 5.89 UNITS mg/L	FINAL ORP 48 UNITS mV	FINAL TURBIDITY: 6 NTU
FINAL PH: 6.82	FINAL COND. 380 umhos/cm	FINAL TEMP.: 14.34
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

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

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size (ml)	Type	Preservative*	Filtered
5	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	X					

mmA COC 16

CHAIN-OF-CUSTODY NUMBER: 0057250 DATE SHIPPED: 6/16/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/16/04

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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW19-9D

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/16/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 400

Water level before purging (nearest 0.01 ft. below reference point) 9.21 + 0.0 T/OC

Depth to bottom of well (obtained from well logs) 35.0 + T/OC

Calculated volume of water in casing

Weather conditions clear, hot, sunny

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
1725	400ml	6.97	484	1000+	2.79	-29	15.30	9.21	0
1730		7.00	486	941	2.54	-36	15.23	9.22	.53
1735		7.02	478	952	2.83	-38	15.03	9.23	1.06
1740		7.03	478	798	2.89	-38	15.10	9.23	1.59
1745		7.04	478	488	2.98	-39	15.07	9.24	2.12
1750		7.05	480	326	3.15	-41	15.10	9.24	2.65
1755		7.05	479	220	3.15	-41	15.09	9.20	3.18
1800		7.06	477	190	3.08	-38	14.87	9.21	3.71
1805		7.08	477	144	3.36	-40	14.67	9.21	4.24
1810		7.08	479	118	3.38	-38	14.68	9.22	4.77
1815		7.10	478	120	3.23	-38	14.65	9.22	5.30
1820		7.10	479	99	3.22	-38	14.67	9.21	5.83
1825		7.10	479	91	3.11	-38	14.56	9.21	6.36
1830		7.11	478	77	3.13	-34	14.46	9.22	6.89
1835		7.10	479	65	3.08	-30	14.54	9.22	7.42
1840		7.11	480	63	3.03	-28	14.64	9.22	7.95

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

J Overvoorde — Signed; 6/16/04 — Date; N. Altomaro — QC'd By; 7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 33 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION:	SAMPLE DATE: 6/16/04	SAMPLE TIME: 18:40

WELL INFORMATION	WELL ID: MW19-9D	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 8.93	TOTAL DEPTH: 35.0	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: QED Port. Bladder (use purge form)	
SAMPLING PUMP: QED Port. Bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon lined pe	TUBING CONDITION: good	HOW STORED: storage room
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/16/04 8:00	

SAMPLE DESCRIPTION	COLOR: clear w/ tan seds	ODOR: none
FINAL D.O. 3.03 UNITS mg/L	FINAL ORP -28 UNITS mV	FINAL TURBIDITY: 63
FINAL PH: 7.11 su	FINAL COND. 480 umhos/cm	FINAL TEMP.: 14.64
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

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
3	40 ml	gl	E	☐Y ☒N					☐Y ☐N
2	1000 ml	amb	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0055807 DATE SHIPPED: 6/17/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/14/04

7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-3

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: ____

DATE: 6/16/04

SAMPLER: JO / BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): NA

Water level before purging (nearest 0.01 ft. below reference point) 7.58+ T/

Depth to bottom of well (obtained from well logs) 27.0 ~~NA~~+ T/

Calculated volume of water in casing NM

Weather conditions sunny, clear, hot

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
				free					
	Not sampled - product in well								

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

J Overvoorde — Signed

6/16/04 — Date

N. Altamaro — QC'd By

7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 35 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: NA	SAMPLE TIME: NA

WELL INFORMATION	WELL ID: MW-3	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: Good	
STATIC WATER LEVEL: ~~NA~~ 7.58	TOTAL DEPTH: 27.0	
FREE PRODUCT: ☐ SHEEN ☒ MEAS. THICKNESS: .92	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD:	(use purge form)
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR:	ODOR:
FINAL D.O. UNITS	FINAL ORP UNITS	FINAL TURBIDITY:
FINAL PH:	FINAL COND. NA	FINAL TEMP.:
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
				☐Y ☐N					☐Y ☐N
				☐Y ☐N		NA			☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: NA DATE SHIPPED: NA METHOD: NA

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/16/04

NA 7/14/04

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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-6(R)

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/16/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): NA

Water level before purging (nearest 0.01 ft. below reference point) 6.42 + T/

Depth to bottom of well (obtained from well logs) ~~NM~~ 10.98 + T/

Calculated volume of water in casing NM

Weather conditions clear, sunny, hot

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
	Not Sampled - free product in well								

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

J Overwoorde — Signed — 6/16/04 Date

N. Altomaro — QC'd By — 7/14/04 Date

RMT

WATER SAMPLE LOG

Sheet 37 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/16/04	SAMPLE TIME: NA

WELL INFORMATION	WELL ID: MW-6(R)	WELL DIAMETER: 2"
WELL MATERIAL: PVC	WELL CONDITIONS: good	
STATIC WATER LEVEL: 6.42	TOTAL DEPTH: 10.98	
FREE PRODUCT: ☐ SHEEN ☒ MEAS. THICKNESS: .01	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD:	(use purge form)
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE:	(new / used)	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR:	ODOR:
FINAL D.O. UNITS	FINAL ORP UNITS	FINAL TURBIDITY:
FINAL PH:	FINAL COND.	FINAL TEMP.:
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION:
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

PRESERVATIVE CODES: A - None B - HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: NA DATE SHIPPED: NA METHOD: NA

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/16/04

NAA 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW+9-5

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/16/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 280

Water level before purging (nearest 0.01 ft. below reference point) 9.26 +0.0 T/OC

Depth to bottom of well (obtained from well logs) 16.0 + T/OC

Calculated volume of water in casing 1.10

Weather conditions cloudy, warm, wind 5mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
1915	280	7.04	1383	167	11.43	22	14.40	9.26	0
1920		7.01	1390	114	12.07	39	13.46	9.26	.37
1925		7.02	1412	43	12.40	46	13.02	9.26	.74
1930		7.02	1462	22	12.52	48	13.15	9.28	1.11
1935		7.02	1530	8	JO 6/16 10.13	46	12.97	9.28	1.48
1940		7.01	1540	5	10.17	43	13.02	9.28	1.85
1945		7.02	1550	4	10.16	41	12.89	9.28	2.22

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Alk 130 CO_2 70 mg/L Iron 1.5 mg/L

J Overwoorde — Signed — 6/16/04 — Date

N. Altamaro — QC'd By — 7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 39 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/16/04	SAMPLE TIME: 1945

WELL INFORMATION	WELL ID: MW19-5	WELL DIAMETER: 2"
WELL MATERIAL: PVC	WELL CONDITIONS: good	
STATIC WATER LEVEL: 9.06	TOTAL DEPTH: 16.0	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: QED Portable Bladder (use purge form)	
SAMPLING PUMP: QED Port. Bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon line PE	TUBING CONDITION: good	HOW STORED: Storage room
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME 6/16/04 800	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 0.16 UNITS mg/L	FINAL ORP 41 UNITS mV	FINAL TURBIDITY: 4 NTU
FINAL PH: 7.02 SU	FINAL COND. 1550 umhos/cm	FINAL TEMP.: 12.89 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

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

Number	Size ml	Type	Preservative*	Filtered	Number	Size ml	Type	Preservative*	Filtered
5	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	✓					

MW19 LOC 16

CHAIN-OF-CUSTODY NUMBER: 0055807 DATE SHIPPED: 6/17/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/16/04

7/14/04

F-186 (REV 09MAY2002)
FIELD FORMS\FIELD FORMS\WATERSAMPLELOG.DOC 06/08/04

P:\LECARPENTER\L.E. CARPENTER- NICK\SITE MONITORING\GW MONITORING PROTOCOL &

RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW19-10

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/17/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 400

Water level before purging (nearest 0.01 ft. below reference point) 7.60 +0.0 T/OC

Depth to bottom of well (obtained from well logs) 20.0 + 0.0 T/OC

Calculated volume of water in casing 2.02

Weather conditions hazy, hot, humid, wind ~10mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
8:05	400	6.37	1054	1000+	4.27	163	14.23	7.60	0
8:10		6.50	1058	685	4.53	139	13.99	7.60	.53
8:15		6.67	1056	336	4.51	115	13.93	7.63	1.06
8:20		6.69	1059	152	3.60	102	13.85	7.65	1.59
8:25		6.73	1042	88	3.68	95	13.91	7.65	2.12
8:30		6.74	1040	44	3.65	93	13.92	7.65	2.65
8:35		6.75	1044	29	3.72	96	13.87	7.65	3.18
8:40		6.76	1045	21	3.80	94	13.88	7.65	3.71
8:45		6.76	1044	14	3.81	90	13.90	7.66	4.24
8:50		6.77	1048	14	3.82	87	13.91	7.66	4.77
8:55		6.78	1050	7	3.82	85	13.94	7.67	5.30

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Alk 80 Iron 1mg/L CO_2 25 mg/L

[signature] 6/17/04 [signature] 7/14/04

Signed Date QC'd By Date

RMT

WATER SAMPLE LOG

Sheet 41 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/17/04	SAMPLE TIME: 855

WELL INFORMATION	WELL ID: mw-19-10	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 7.60	TOTAL DEPTH: 20	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: QED Port. Bladder (use purge form)	
SAMPLING PUMP: QED Portable Bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: pe (new / used)		
TUBING TYPE: teflon lined pe	TUBING CONDITION: good	HOW STORED: Storage room
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/17/04 750	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 3.82 UNITS mg/L	FINAL ORP 85 UNITS mV	FINAL TURBIDITY: 7 NTU
FINAL PH: 6.78 SU	FINAL COND. 1050 umhos/cm	FINAL TEMP.: 13.94 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

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 ml	Type	Preservative*	Filtered
4	40 ml	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000 ml	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
15 2	1000 ml	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40 ml	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40 ml	gl	A	X					

CHAIN-OF-CUSTODY NUMBER: 0055806 DATE SHIPPED: 6/17/04 METHOD: labcourier

AIRBILL NUMBER: NA SIGNED: Overvoorde DATE: 6/17/04

AA 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC
WELL NUMBER: MW19-8
PROJECT NUMBER: 00-06527.02
WELL DIAMETER: 2"
DATE: 6/17/04
SAMPLER: SO/BM
Type of pump used: portable bladder
Pumping rate (milliliters/minute): 320
Water level before purging (nearest 0.01 ft. below reference point) 9.10 +0.0 T/
Depth to bottom of well (obtained from well logs) 20.0+ T/
Calculated volume of water in casing 1.78
Weather conditions cloudy/hazy, hot, wind 5-10 mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/liter)	ORP (mV)	Temp. (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
950	320	6.79	1480	184	7.99	52	21.60	9.10	0
955		6.89	2000	71	4.61	-5	16.02	9.10	.42
1000		6.88	2000	50	4.12	-11	15.72	9.10	.84
1005		6.88	2000	21	4.10	-18	15.72	9.10	1.26
1010		6.89	2000	21	4.09	-20	15.70	9.10	1.62
1015		6.90	2010	8n/10	3.98	-24	15.69	9.12	1.98

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Alk 125 Iron 15 CO_2 30 mg/L

Signed: [signature] Date: 6/17/04
QC'd By: [signature] Date: 7/14/04

RMT

WATER SAMPLE LOG

Sheet 43 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/17/04	SAMPLE TIME: 1015

WELL INFORMATION	WELL ID: MW-19-8	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 9.10	TOTAL DEPTH: 20	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: QED Portable Bladder (use purge form)	
SAMPLING PUMP: QED Port. Bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: tephlon lined pe	TUBING CONDITION: good	HOW STORED: storage room
WATER QUALITY METER TYPE: MP-20	CALIBRATION DATE / TIME 6/17/04 750	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 3.98 UNITS mg/L	FINAL ORP -24 UNITS mV	FINAL TURBIDITY: 10 NTU
FINAL PH: 6.90 SU	FINAL COND. 2010 umhos/cm	FINAL TEMP.: 15.69 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

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

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size (ml)	Type	Preservative*	Filtered
5	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	X					

CHAIN-OF-CUSTODY NUMBER: 0055806 DATE SHIPPED: 6/17/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: JOvervoorde DATE: 6/17/04

7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW19-6

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/17/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 400

Water level before purging (nearest 0.01 ft. below reference point) 9.29 +0.0 T/OC

Depth to bottom of well (obtained from well logs) 20.0 + T/OC

Calculated volume of water in casing 1.75

Weather conditions cloudy, few drops of rain, hot, wind 5-15 mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L or %)	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
11:10	400	7.00	2390	542	6.87	15	16.42	9.29	0
11:15		6.85	2380	258	8.87	42	15.10	9.25	.53
11:20		6.84	2550	62	5.82	44	15.16	9.25	1.06
11:25		6.83	JO 2600	25	5.56	45	15.01	9.26	1.59
11:30		6.84	2610	19	5.21	49	15.09	9.26	2.12
11:35		6.83	2630	16	5.30	51	15.85	9.27	2.65
11:40		6.85	2630	11	5.30	54	15.15	9.27	3.18
11:45		6.86	2640	10	5.48	56	15.24	9.26	3.71

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Alk 80 Iron 3.5 CO_2 33

Signed: [signature] Date: 6/19/04

QC'd By: N. Altomaro Date: 7/14/04

RMT

WATER SAMPLE LOG

Sheet 45 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/17/04	SAMPLE TIME: 1145

WELL INFORMATION	WELL ID: MW9-6	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 9.29	TOTAL DEPTH: 20	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Port. bladder (use purge form)	
SAMPLING PUMP: Portable bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon lined pe	TUBING CONDITION: good	HOW STORED: Storage room
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/17/04 1145	

SAMPLE DESCRIPTION	COLOR: Clear	ODOR:
FINAL D.O. 5.48 UNITS mg/L	FINAL ORP 56 UNITS	FINAL TURBIDITY: 10
FINAL PH: 6.86 SU	FINAL COND. 2640 umhos/cm	FINAL TEMP.: 15.24
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION:
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION: NA

BOTTLES FILLED

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

Number	Size ml	Type	Preservative*	Filtered	Number	Size ml	Type	Preservative*	Filtered
4	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	X					

15

CHAIN-OF-CUSTODY NUMBER: 0055806 DATE SHIPPED: 6/17/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/17/04

7/DAA 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-25(R)

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/17/04

SAMPLER: JD/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 320

Water level before purging (nearest 0.01 ft. below reference point) 2.54 +0.0 T/OC

Depth to bottom of well (obtained from well logs) 10.0 + T/OC

Calculated volume of water in casing 1.22

Weather conditions partly sunny, hot, still

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l or %)	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
1425	320	6.86	608	557	2.49	-16	16.35	2.54	0
1430	↓	6.90	606	275	2.10	-25	16.20	2.67	.42
1435	↓	6.94	612	174	1.72	-34	15.67	2.96	.84
1440	↓	6.94	618	33	1.58	-39	15.54	3.11	1.26
1445	270	6.98	620	35	1.43	-40	15.55	3.13	1.62
1450	270	6.96	620	35	1.37	-34	15.67	3.09	1.98
~~1455~~									

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Fe Alk CO_2

Signed: [signature] Date: 6/17/04 QC'd By: [signature] Date: 7/14/04

RMT

WATER SAMPLE LOG

Sheet 47 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/17/04	SAMPLE TIME: 1450

WELL INFORMATION	WELL ID: MW-25 (R)	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 2.28	TOTAL DEPTH: 10.0	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Portable Bladder (use purge form)	
SAMPLING PUMP: Portable Bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon lined PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: QED MP-20	CALIBRATION DATE / TIME 6/17/04 1155	

SAMPLE DESCRIPTION	COLOR: clear w/ floaties	ODOR: none
FINAL D.O. 1.37 UNITS mg/L	FINAL ORP -34 UNITS mV	FINAL TURBIDITY: 35 NTU
FINAL PH: 6.96 SU	FINAL COND. 620 umhos/cm	FINAL TEMP.: 15.67 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

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

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size (ml)	Type	Preservative*	Filtered
4	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	☒					

NWA COC 15

CHAIN-OF-CUSTODY NUMBER: 0055806 DATE SHIPPED: 6/17/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/17/04

MAA 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-21

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 4"

DATE: 6/17/04

SAMPLER: BM/SO

Type of pump used: fo-tech bladder

Pumping rate (milliliters/minute): 320

Water level before purging (nearest 0.01 ft. below reference point) 3.55 +0.0 T/OC

Depth to bottom of well (obtained from well logs) 15.0 + T/OC

Calculated volume of water in casing 7.48

Weather conditions cloudy, rain, warm wind 10-20 mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP (mV)	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
1547	320	7.22	0.546	56	4.49	80	15.70	3.55	0
1552		7.14	0.546	~~64~~ 56	3.07	72	14.34	3.57	.42
1557		7.08	0.551	38	2.14	68	13.09	3.56	.84
1602		7.18	0.551	30	1.64	64	12.87	3.56	1.26
1607		7.16	0.549	35	1.49	61	12.80	3.56	1.68
1612		7.24	0.549	41	1.25	58	12.81	3.55	2.10
1617		7.22	0.547	38	1.05	55	12.75	3.56	2.52
1622		7.21	0.544	35	1.20	53	12.62	3.56	2.94
1627		7.16	543	35	1.02	51	12.70	3.56	3.36
~~1632~~									

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Signed: [signature] Date: 6/17/04

QC'd By: [signature] Date: 7/14/04

RMT

WATER SAMPLE LOG

Sheet 49 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/17/04	SAMPLE TIME: 1627

WELL INFORMATION	WELL ID: MW-21	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 15.70	TOTAL DEPTH:	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Portable Bladder (use purge form)	
SAMPLING PUMP: Portable Bladder	PNEUMATIC SOURCE air compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: teflon lined PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: MP-20	CALIBRATION DATE / TIME 6/17/04 1155	

SAMPLE DESCRIPTION	COLOR: slightly cloudy	ODOR: none
FINAL D.O. 1.02 UNITS mg/L	FINAL ORP 51 UNITS mV	FINAL TURBIDITY: 35
FINAL PH: 7.16	FINAL COND. 543	FINAL TEMP.: 12.70
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

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

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
5	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A						

CHAIN-OF-CUSTODY NUMBER: 0057248 DATE SHIPPED: 6/18/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/17/04

YAA 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: WP-B6

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/17/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): NA

Water level before purging (nearest 0.01 ft. below reference point) ~~NM~~ 6.47 + T/

Depth to bottom of well (obtained from well logs) NM + T/

Calculated volume of water in casing NA

Weather conditions cloudy, rain, warm, still

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
	Not Sampled - product present								

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

J Orenoorde — Signed — 6/17/04 — Date

N. Altamura — QC'd By — 7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 51 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/17/04	SAMPLE TIME: NA

WELL INFORMATION	WELL ID: WP-B6	WELL DIAMETER: 2"
WELL MATERIAL: PVC	WELL CONDITIONS: good	
STATIC WATER LEVEL: 6.47	TOTAL DEPTH: NA	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☒ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR:	ODOR:
FINAL D.O. UNITS	FINAL ORP NA UNITS	FINAL TURBIDITY:
FINAL PH:	FINAL COND.	FINAL TEMP.:
COMMENTS: Not sampled - product present		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION:
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION: NA

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N			NA		☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: NA DATE SHIPPED: NA METHOD: NA

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/17/04

M.A.A. 7/14/04

F-186 (REV 09MAY2002)
FIELD FORMS\FIELD FORMS\WATERSAMPLELOG.DOC 06/08/04

P:\LECARPENTER\L.E. CARPENTER- NICK\SITE MONITORING\GW MONITORING PROTOCOL &

RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: WP-B7

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/17/04

SAMPLER: JO/BM

Type of pump used: portable bladder

Pumping rate (milliliters/minute): 540

Water level before purging (nearest 0.01 ft. below reference point) 4.96 + 0.0 T/OC

Depth to bottom of well (obtained from well logs) NA + T/OC

Calculated volume of water in casing NA

Weather conditions cloudy, rain, warm, still

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
1745	540	6.88	768	1000+	8.23	7	13.68	4.96	0
1750		6.82	766	1000+	5.25	3	13.17	4.96	.71
1755		6.85	766	1000+	5.92	1	13.27	4.96	1.42
1800		6.85	768	367	5.97	0	13.14	4.96	2.13
1805		6.88	769	231	6.55	-3	13.09	4.96	2.83
1810		6.87	767	191	6.87	-4	13.11	4.96	3.55
1815		6.85	767	196	7.36	-7	13.12	4.69	4.26
1820		6.87	768	187	7.63	-7	13.00	4.60	4.97

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Iron 8 Alk 175 CO_2 70

J Doenoorde — Signed; 6/17/04 — Date; N. Altoupas — QC'd By; 7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 53 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton	SAMPLE DATE: 6/17/04	SAMPLE TIME: 1820

WELL INFORMATION	WELL ID: WP-B7	WELL DIAMETER: 2"
WELL MATERIAL: PVC	WELL CONDITIONS: good	
STATIC WATER LEVEL: 4.34	TOTAL DEPTH: NA	
FREE PRODUCT: ☒ SHEEN ☐ MEAS. THICKNESS: ___	☐ EQUIP. COATING ☒ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Bladder - QED Portable (use purge form)	
SAMPLING PUMP: QED Portable Bladder	PNEUMATIC SOURCE MP-10 Compressor	
BLADDER TYPE: New - PE (new / used)		
TUBING TYPE:	TUBING CONDITION:	HOW STORED: —
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME 450 6/18/04	

SAMPLE DESCRIPTION	COLOR: clear w/ tan floaties	ODOR: fuel/oil
FINAL D.O. 7.63 UNITS mg/L	FINAL ORP -7 UNITS mV	FINAL TURBIDITY: 187
FINAL PH: 6.87	FINAL COND. 768	FINAL TEMP.: 13.00
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

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

Number	Size (ml)	Type	Preservative*	Filtered	Number	Size (ml)	Type	Preservative*	Filtered
5	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	amb	F	☐Y ☒N	2	1000	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	250	amb	E	☐Y ☒N
1	40	gl	A	X					

CHAIN-OF-CUSTODY NUMBER: 6057248 DATE SHIPPED: 6/18/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/17/04

7/14/04

F-186 (REV 09MAY2002)
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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: SW-1

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: NA

DATE: 6/15/04

SAMPLER: JO/BM

Type of pump used: NA

Pumping rate (milliliters/minute): NA

Water level before purging (nearest 0.01 ft. below reference point) NA + T/

Depth to bottom of well (obtained from well logs) NA + T/

Calculated volume of water in casing NA

Weather conditions sunny, hot

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
	Not sampled - No access to Air Products Prop								

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

J Overvoorde — Signed — 6/15/04 — Date

Y. Altamaro — QC'd By — 7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 55 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: ~~Start~~ 6/15/04	SAMPLE TIME: NA

WELL INFORMATION	WELL ID: SW-1	WELL DIAMETER: NA
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	TOTAL DEPTH:	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: NA	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR:	ODOR:
FINAL D.O. UNITS	FINAL ORP NA UNITS	FINAL TURBIDITY:
FINAL PH:	FINAL COND.	FINAL TEMP.:
COMMENTS: Not sampled- no access to property		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
				☐Y ☐N		NA			☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: NA DATE SHIPPED: NA METHOD: NA

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: SW-2

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: NA

DATE: 6/15/04

SAMPLER: JO/BM

Type of pump used: NA

Pumping rate (milliliters/minute): NA

Water level before purging (nearest 0.01 ft. below reference point) NA + T/

Depth to bottom of well (obtained from well logs) NA + T/

Calculated volume of water in casing NA

Weather conditions sunny, hot

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
	Not Sampled - No access to Air Products Prop.								

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

J Overwarde — Signed

6/15/04 — Date

[signature] 7/14/04 — QC'd By

Date

RMT

WATER SAMPLE LOG

Sheet 57 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME:

WELL INFORMATION	WELL ID: SW-2	WELL DIAMETER:
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	NA	TOTAL DEPTH:
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____		☐ EQUIP. COATING ☐ PURGE WATER

SAMPLE METHOD	PURGE METHOD:	(use purge form)
SAMPLING PUMP:		PNEUMATIC SOURCE
BLADDER TYPE:	(new / used)	NA
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:		CALIBRATION DATE / TIME

SAMPLE DESCRIPTION	COLOR: NA	ODOR:
FINAL D.O. UNITS	FINAL ORP UNITS	FINAL TURBIDITY:
FINAL PH:	FINAL COND.	FINAL TEMP.:
COMMENTS: Not Sampled - No access to property		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F. _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
				☐Y ☐N		NA			☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: NA DATE SHIPPED: NA METHOD: NA

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: SW-3

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: NA

DATE: 6/15/04

SAMPLER: JO/BM

Type of pump used: NA

Pumping rate (milliliters/minute): NA

Water level before purging (nearest 0.01 ft. below reference point) NA + T/

Depth to bottom of well (obtained from well logs) NA + T/

Calculated volume of water in casing NA

Weather conditions sunny, hot, wind 10-20 mph

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
	Not sampled - No access to Air Products Prop								

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

J Overwoorde — Signed

6/15/04 — Date

M Altonyano — QC'd By

7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 59 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: —

WELL INFORMATION	WELL ID: SW-3	WELL DIAMETER:
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	NA	TOTAL DEPTH:
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS:		☐ EQUIP. COATING ☐ PURGE WATER

SAMPLE METHOD	PURGE METHOD:	(use purge form)
SAMPLING PUMP:		PNEUMATIC SOURCE
BLADDER TYPE:	(new / used)	NA
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:		CALIBRATION DATE / TIME

SAMPLE DESCRIPTION	COLOR:	ODOR:
FINAL D.O. UNITS	FINAL ORP UNITS NA	FINAL TURBIDITY:
FINAL PH:	FINAL COND.	FINAL TEMP.:
COMMENTS: no sampled collected - no access		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION:
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION: NA

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N	NA				☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: NA DATE SHIPPED: NA METHOD: NA

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

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RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-17

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 4"

DATE: 6/18/04

SAMPLER: JO/BM

Type of pump used: Bailer

Pumping rate (~~milliliters~~ gal/minute): .5

Water level before purging (nearest 0.01 ft. below reference point) 8.42 + 0.0T/OC

Depth to bottom of well (obtained from well logs) 15.0 + T/OC

Calculated volume of water in casing 4.30

Weather conditions partly cloudy, humid, hot

Time	Purge Rate (gal/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
535	.5	6.77	294	8	5.33	230	13.71	8.42	0
538	↓	6.56	299	NM	5.12	261	13.12	8.44	1.5
540		6.18	301	25	4.24	274	13.17	8.44	2.5
543		6.09	302	NM	3.46	278	13.15	8.45	4
545		6.06	302	30	3.41	279	13.14	8.45	5
547		6.05	301	NM	3.38	280	13.10	8.47	6

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

[signature] 6/18/04 [signature] 7/14/04

Signed Date QC'd By Date

RMT

WATER SAMPLE LOG

Sheet 61 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/18/04	SAMPLE TIME: 547

WELL INFORMATION	WELL ID: MW-17	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 8.40	TOTAL DEPTH: 15.0	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: None	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Bailer	(use purge form)
SAMPLING PUMP: Bailer	PNEUMATIC SOURCE —	
BLADDER TYPE: — (new / used)		
TUBING TYPE: —	TUBING CONDITION:	HOW STORED: —
WATER QUALITY METER TYPE: MP-20 Flow thru	CALIBRATION DATE / TIME 450 6/18/04	

SAMPLE DESCRIPTION	COLOR: clear	ODOR:
FINAL D.O. 3.38 UNITS	FINAL ORP 280 UNITS mV	FINAL TURBIDITY: 30
FINAL PH: 6.05 SU	FINAL COND. 301	FINAL TEMP.: 13.10
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

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

Number	Size ml	Type	Preservative*	Filtered	Number	Size ml	Type	Preservative*	Filtered
2	40	gl	E	☐Y ☒N	1	500	pl	A	☐Y ☒N
2	1000	gl	C	☐Y ☒N	2	1000	pl	A	☐Y ☒N
1	40	gl	C	☐Y ☒N	1	120	pl	F	☐Y ☒N
1	40	gl	A	☐Y ☒N	1	250	amb	E	☐Y ☒N

MMP only (1)

CHAIN-OF-CUSTODY NUMBER: 0057248 DATE SHIPPED: 6/18/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/18/04

MAA 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-2(R)

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/18/04

SAMPLER: JO/BM

Type of pump used: Bailer

Pumping rate (~~milliliters~~ gal/minute): .5

Water level before purging (nearest 0.01 ft. below reference point) 6.44 +.00 T/OC

Depth to bottom of well (obtained from well logs) 12.0 + T/OC

Calculated volume of water in casing 0.90

Weather conditions humid, wind 5-10 mph, partly cloudy

Time	Purge Rate gal (L/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
604	.5	6.48	731	5	4.16	152	13.55	6.44	0
606		6.55	730	NM	3.68	139	12.28	6.50	1
608		6.63	728	58	3.06	85	12.07	6.50	2
610		6.70	724	NM	2.89	49	12.18	6.50	3
612		6.79	727	124	2.85	41	12.17	6.51	4
614		6.86	726	NM	2.56	~~0~~ 10	12.15	6.51	5
616		6.88	727	136	2.46	3	12.10	6.49	6
618		6.91	723	NM	2.50	-1	12.14	6.50	7

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

Signed: [signature] Date: 6/18/04

QC'd By: [signature] Date: 7/14/04

RMT

WATER SAMPLE LOG

Sheet 63 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/18/04	SAMPLE TIME: 6[18]

WELL INFORMATION	WELL ID: MW-2(R)	WELL DIAMETER: 2"
WELL MATERIAL: PVC	WELL CONDITIONS: good	
STATIC WATER LEVEL: 6.40	TOTAL DEPTH: 12.0	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: none	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Bailer	(use purge form)
SAMPLING PUMP: Bailer	PNEUMATIC SOURCE —	
BLADDER TYPE: NA (new / used)		
TUBING TYPE: NA	TUBING CONDITION: —	HOW STORED: —
WATER QUALITY METER TYPE: QED MP-20 Flow Thru	CALIBRATION DATE / TIME 6/18/04 4[50]	

SAMPLE DESCRIPTION	COLOR: Clear	ODOR: none
FINAL D.O. 2.50 UNITS mg/L	FINAL ORP -1 UNITS mV	FINAL TURBIDITY: 136
FINAL PH: 6.91 SU	FINAL COND. 723	FINAL TEMP.: 12.14
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

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	1	500 ml	plastic	A	☐Y ☒N
2	1000 ml	amber	F	☐Y ☒N	2	1000 ml	plastic	A	☐Y ☒N
2	1000 ml	glass	C	☐Y ☒N	1	120 ml	plastic	F	☐Y ☒N
1	40 ml	glass	C	☐Y ☒N	1	250 ml	amber	E	☐Y ☒N
1	40 ml	glass	A	☒N					

CHAIN-OF-CUSTODY NUMBER: 6057248 DATE SHIPPED: 6/18/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: JOvervoorde DATE: 6/18/04

MAd 7/14/04

RMT

LOW-FLOW GROUNDWATER SAMPLING
STABILIZATION LOG

PROJECT NAME: LEC

WELL NUMBER: MW-4

PROJECT NUMBER: 00-06527.02

WELL DIAMETER: 2"

DATE: 6/18/04

SAMPLER: JO/BM

Type of pump used: Bailer

Pumping rate (~~milliliters~~ gal/minute): .5

Water level before purging (nearest 0.01 ft. below reference point) 6.43 + 0.0 T/OC

Depth to bottom of well (obtained from well logs) 27.9 T/OC

Calculated volume of water in casing 3.35

Weather conditions partly cloudy, humid, hot

Time	Purge Rate gal (~~ml~~/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
702	.5	6.67	545	3	3.75	94	16.64	6.43	0
704	↓	6.92	665	NM	4.65	52	15.16	6.43	1
706		6.97	667	33	3.38	39	14.95	6.44	2
708		7.00	667	NM	3.10	30	14.83	6.46	3
710		6.99	670	42	2.93	22	14.68	6.46	4
712		7.00	674	NM	2.91	25	14.52	6.46	5

NOTE: STABILIZATION TEST IS COMPLETE WHEN A MINIMUM OF 5 READINGS HAVE BEEN RECORDED AND 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 SU; COND. - ±5%; TEMP (CORRECTED) - ±0.5°C; TURBIDITY ±10%; DO ±10%; ORP ±20 mV

A Overvoorde — Signed — 6/18/04 — Date

M. Altomaro — QC'd By — 7/14/04 — Date

RMT

WATER SAMPLE LOG

Sheet 65 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/18/04	SAMPLE TIME: 712

WELL INFORMATION	WELL ID: MW-4	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 6.40	TOTAL DEPTH: 27	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: none	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: Bailer (use purge form)	
SAMPLING PUMP: Bailer	PNEUMATIC SOURCE None	
BLADDER TYPE: NA (new / used)		
TUBING TYPE: NA	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: QED MP-20 Flow Thru	CALIBRATION DATE / TIME 6/18/04 450 am	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 2.91 UNITS mg/L	FINAL ORP 25 UNITS mV	FINAL TURBIDITY: 42
FINAL PH: 7.00 SU	FINAL COND. 674 umhos/cm	FINAL TEMP.: 14.52
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

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
3	40ml	glass	E	☐Y ☒N					☐Y ☐N
2	1000ml	glass	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0057248 DATE SHIPPED: 6/18/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/18/04

M. AA. 7/14/04

RMT

WATER SAMPLE LOG

Sheet 66 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/14/04	SAMPLE TIME: 1400

WELL INFORMATION	WELL ID: PDB-4	WELL DIAMETER: NA
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	TOTAL DEPTH:	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE:	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. NM UNITS	FINAL ORP NM UNITS	FINAL TURBIDITY: NM
FINAL PH: NM	FINAL COND. NM	FINAL TEMP.: NM
COMMENTS: PDB was out of water + laying in sediments. ~8" away from H_2O		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 mL	glass	E	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0055808 DATE SHIPPED: 6/15/05 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/14/04

M.A.A. 7/14/04

RMT

WATER SAMPLE LOG

Sheet 67 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/14/04	SAMPLE TIME: 1410

WELL INFORMATION	WELL ID: PDB-5	WELL DIAMETER: NA
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	TOTAL DEPTH:	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS:	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. NM UNITS	FINAL ORP NM UNITS	FINAL TURBIDITY: NM
FINAL PH: NM	FINAL COND. NM	FINAL TEMP.: NM
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	glass	E	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0055808 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: JOvervoorde DATE: 6/14/04

NAA 7/14/04

RMT

WATER SAMPLE LOG

Sheet 68 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 820

WELL INFORMATION	WELL ID: PDB-FB	WELL DIAMETER: NA
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL: NA	TOTAL DEPTH:	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. NM UNITS	FINAL ORP NM UNITS	FINAL TURBIDITY: NM
FINAL PH: NM	FINAL COND. NM	FINAL TEMP.: NM
COMMENTS: ~~NM~~ casing was hanging on fence above pdb-1		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION:
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION: NA

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40ml	glass	E	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0055808 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: Overvoorde DATE: 6/15/04

NAA 7/14/04

RMT

WATER SAMPLE LOG

Sheet 69 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 823

WELL INFORMATION	WELL ID: PDB-1	WELL DIAMETER: NA
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	TOTAL DEPTH: NA	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)		
TUBING TYPE:	TUBING CONDITION: NA	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. NM UNITS	FINAL ORP NM UNITS	FINAL TURBIDITY: NM
FINAL PH: NM	FINAL COND. NM	FINAL TEMP.: NM
COMMENTS: PDB was out of water + laying in sediment, 6-8" from H_2O		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	glass	E	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0055808 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

NAA 7/14/04

RMT

WATER SAMPLE LOG

Sheet 70 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 827

WELL INFORMATION	WELL ID: PDB-2	WELL DIAMETER: NA
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	TOTAL DEPTH: NA	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS:	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. NM UNITS	FINAL ORP NM UNITS	FINAL TURBIDITY: NM
FINAL PH: NM	FINAL COND. NM	FINAL TEMP.: NM
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	glass	E	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0055808 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

MAA 7/14/04

RMT

WATER SAMPLE LOG

Sheet 71 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 847

WELL INFORMATION	WELL ID: PDB-3	WELL DIAMETER: NA
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	TOTAL DEPTH: NA	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. NM UNITS	FINAL ORP NM UNITS	FINAL TURBIDITY: NM
FINAL PH: NM	FINAL COND. NM	FINAL TEMP.: NM
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
2	40 mL	glass	E	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0055808 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: J Overvoorde DATE: 6/15/04

MAA 7/14/04

RMT

WATER SAMPLE LOG

Sheet 72 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 915

WELL INFORMATION	WELL ID: PDB-7	WELL DIAMETER: NA
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	NA TOTAL DEPTH:	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR: Clear	ODOR: none
FINAL D.O. NM UNITS	FINAL ORP NM UNITS	FINAL TURBIDITY: NM
FINAL PH: NM	FINAL COND. NM	FINAL TEMP.: NM
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	glass	HCl	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0055808 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: NA SIGNED: JOvervoorde DATE: 6/15/04

MAd 7/14/04

RMT

WATER SAMPLE LOG

Sheet 73 of

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2004 Sampling
SAMPLER NAME 1: J. Overvoorde	SAMPLER NAME 2: B. McLennan	PROJECT NO: 00-06527.02
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6/15/04	SAMPLE TIME: 940

WELL INFORMATION	WELL ID: PDB-6	WELL DIAMETER: NA
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL:	TOTAL DEPTH: NA	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: (use purge form)	
SAMPLING PUMP:	PNEUMATIC SOURCE	
BLADDER TYPE: (new / used)	NA	
TUBING TYPE:	TUBING CONDITION:	HOW STORED:
WATER QUALITY METER TYPE:	CALIBRATION DATE / TIME	

SAMPLE DESCRIPTION	COLOR: Clear	ODOR: none
FINAL D.O. NM UNITS	FINAL ORP NM UNITS	FINAL TURBIDITY: NM
FINAL PH: NM	FINAL COND. NM	FINAL TEMP.: NM
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: NA
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- _____

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40ml	glass	E	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0055808 DATE SHIPPED: 6/15/04 METHOD: lab courier

AIRBILL NUMBER: ~~NA~~ NA SIGNED: J Overvoorde DATE: 6/15/04

NAA 7/14/04

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only

Acct. # _____ Group# _____ Sample # _____

COC # 0055808

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

(1)
Client: RMT, Inc.
Acct. #:
Project Name/#: L.E. Carpenter
PWSID #:
Project Manager: Nick Clevett
P.O.#:
Sampler: JJ/BM
Quote #:
Name of state where samples were collected: New Jersey

For Lab Use Only
FSC:
SCR #: 1191310

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	(4) Matrix: Soil	Potable	NPDES	Water	Other	Total # of Containers	(5) Analyses Requested: BTEX	DEHP	Sulfide, chloride, sulfate, ammonia, nitrate, nitrite, TDS, TSS	Volatile organics, pesticides, herbicides							Remarks	(6) Temperature of Samples (degrees Fahrenheit)
PDB-4	6/14/04	1400	X					X		3	X											
PDB-5	6/14/04	1410	X					X		3	X											
PDB-FB	6/15/04	820	X					X		3	X											
PDB-1		823								3	X											
PDB-2		827								3	X											
PDB-3		847								2	X											
PDB-6		940	X					X		3	X											
PDB-7		915	X					X		3	X											
MW19		1235	X					X		16	X	X	X			X						
MW19-1		1452	X					X		16	X	X	X			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
[signature]	6-10-04	1300	[signature]	6/13/04	2315
[signature]	6/15/04	17[illegible]	[signature]	6/15/04	17[illegible]

Analysis Request / Environmental Services Chain of Custody

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Acct. #_____ Group#_____ Sample # _____

COC # 0055809

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

(1)

Client: Rust Inc. Acct. #:

Project Name/#: LE Carpenter PWSID #:

Project Manager: Nick Clevett P.O.#:

Sampler: JO/BM Quote #:

Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #: 119131-0

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	(4) Matrix: Soil	Water (Potable / NPDES / Applicable)	Other	Total # of Containers	(5) Analyses Requested: PFEA	DEHP	MMA List: Surface Water	Metals	Hg	Cr					Remarks	(6) Temperature of samples received (if applicable)
MW19-2	6/15/04	1615	X			X		16	X	X	X			X						
trip blank						X		1	X	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
[illegible]	6-10-04	1340	Overnorde	6/11/04	23[illegible]
Relinquished by: Overnorde	6/15/04	1700	Received by: [illegible]	6/15/04	17:00
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Analysis Request / Environmental Services Chain of Custody

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Acct. # _____ Group# _____ Sample # _____

COC # 0055806

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

(1)

Client: RMT, Inc. Acct. #: _____

Project Name/#: L.L. Carpenter / 6207.92 PWSID #: _____

Project Manager: Nick Clement P.O.#: _____

Sampler: KO / BM 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	(4) Matrix: Soil	Potable	Non-Potable	Water	Other	Total # of Containers	(5) Analyses Requested: BTEX	DEHP	MNA: NH_3, SO_4, NO_2, NO_3, TOC, Fe, Mn, TDS, TKN, Alkalinity, Nitrate	Remarks	(6) Temperature of samples upon receipt (if requested)
MW19-6	6/11/04	11:45	X					X		15	X	X	X		
MW19-8	↓	10:15	↓					X		16	↓	↓	↓		
MW19-10	↓	8:55	↓					X		15	↓	↓	↓		
MW25IR	↓	14:30	↓					X		15	↓	↓	↓		

(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
[illegible]	6/11/04	11:16	[illegible]	6/11/04	1416

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
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For Lancaster Laboratories use only

Acct. # _____ Group# _____ Sample # _____

COC # 0057248

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

(1)

Client: RIT Acct. #: _____

Project Name/#: LFC PWSID #: _____

Project Manager: Nat Clevett P.O.#: _____

Sampler: [illegible] 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	BTEX	DEHP	MNA + Sulfate	Nitrate, Ammonia	Phosphorus, Ferrous iron	Methane, TSS, TDS	Heterotrophic plate	Count	Remarks
WP-B7	6/17/04	18 20	X			X		16	X	X	X						
MW-17	6/18/04	5 47	↓			↓		14	↓	↓	X						
MW-2(R)	6/18/04	6 18	↓			↓		16	X	X	X						
MW-4	6/18/04	[illegible]	↓			↓		5	X	X							
MW-21	6/17/04	16 32	X			X		16	X	X	X						

Matrix: Potable, Check-in, NPDES, Applicable

(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
[illegible]	6/18/04	8 [illegible]			

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

210

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #_____ Group#_____ Sample #_____

COC # 0057250

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

(1)
Client: RMT Inc
Acct. #:
Project Name/#: LF Carpenter/652203
PWSID #:
Project Manager: Nick Clement
P.O.#:
Sampler: D/BM
Quote #:
Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #: 1191462

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Potable ☑ / NPDES ☐ Applicable: Water	Matrix: Other	Total # of Containers	BTEX	DEHP	MNA: NK, CH4, TOC	TSS, SPCHF, Alk	TP, NO2, NO3	NH3, Nitrate					Remarks	Temperature of samples upon receipt, if requested
MW-15S	6/15/04	1900	X			X		5	X	X										
MW-15I	6/15/04	2000						5	X	X										
MW-14I	6/16/04	925						15	X	X	X									
Dup-1								16	X	X	X									
MW19-7	6/16/04	1520							X	X	X									
MW-14S	6/16/04	1030							X	X	X									
MW-32(R)	6/16/04	1145							X	X	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
[signature]	6/14/04	15:15	[signature]	6/16/04	23:30
[signature]	6/16/04	16:5	[signature]	6/16/04	1700

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only

Acct. # _____ Group# _____ Sample # _____

COC # 0055807

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

(1)
Client: [illegible] Acct. #: _____
Project Name/#: [illegible] PWSID #: _____
Project Manager: [illegible] P.O.#: _____
Sampler: [illegible] 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	BTEX	DEHP	MNA: NH3, 8015D, NO3, NO2, TP, Fe2+, SO4, TSS, Heterotrophic Plate Count, TDS, Alk							Remarks	Temperature of samples upon receipt (if requested)
MW-19-9D	6/16/04	1840	X			X		4	X	X	[illegible]								
MW19-5	6/16/04	1945	X			X		16	X	X	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)

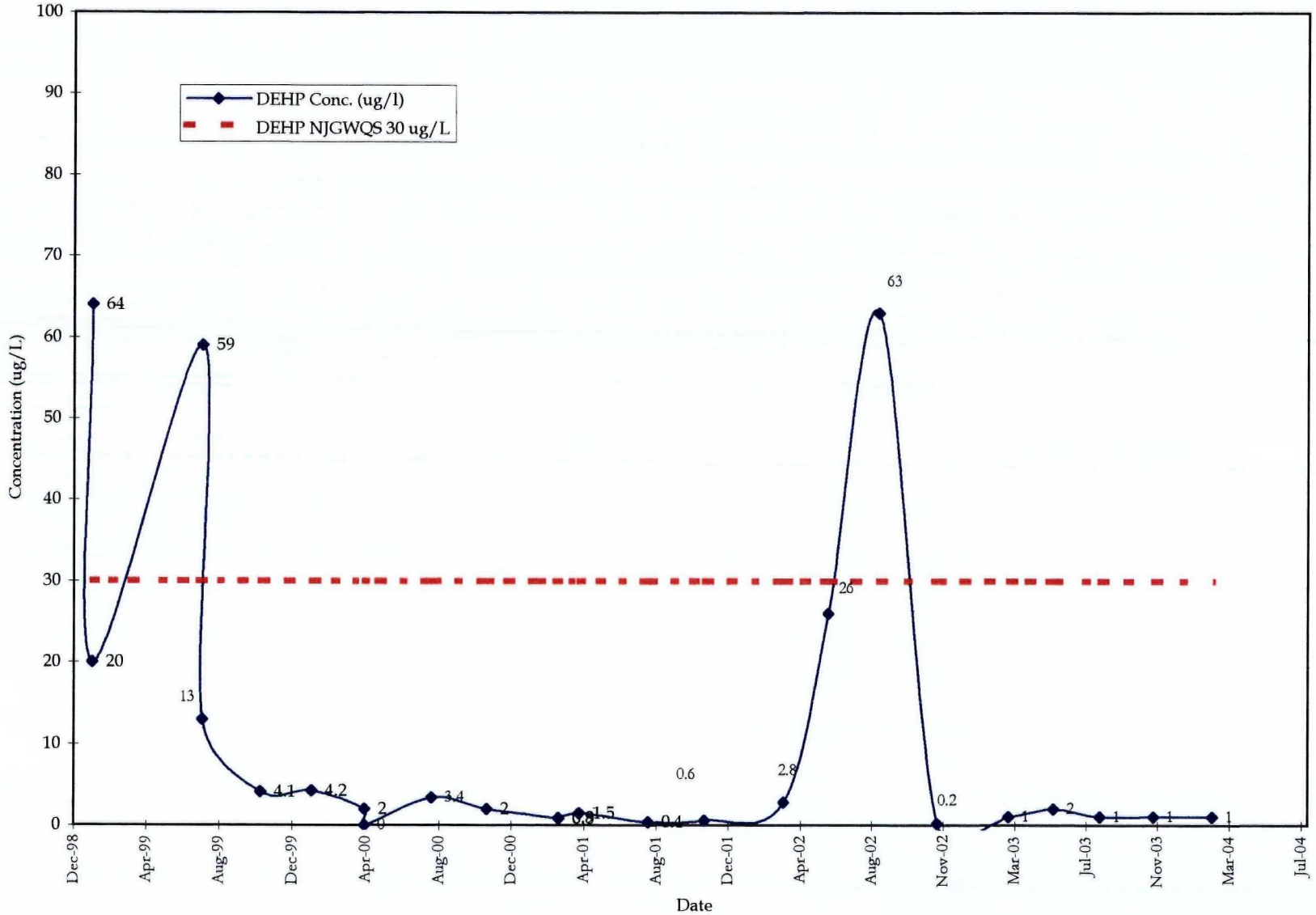
Relinquished by:	Date	Time	Received by:	Date	Time
[illegible]	6/17/04	9:02	Jay Clark	6/17/04	D915

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.
2102 Rev. 10/27/02

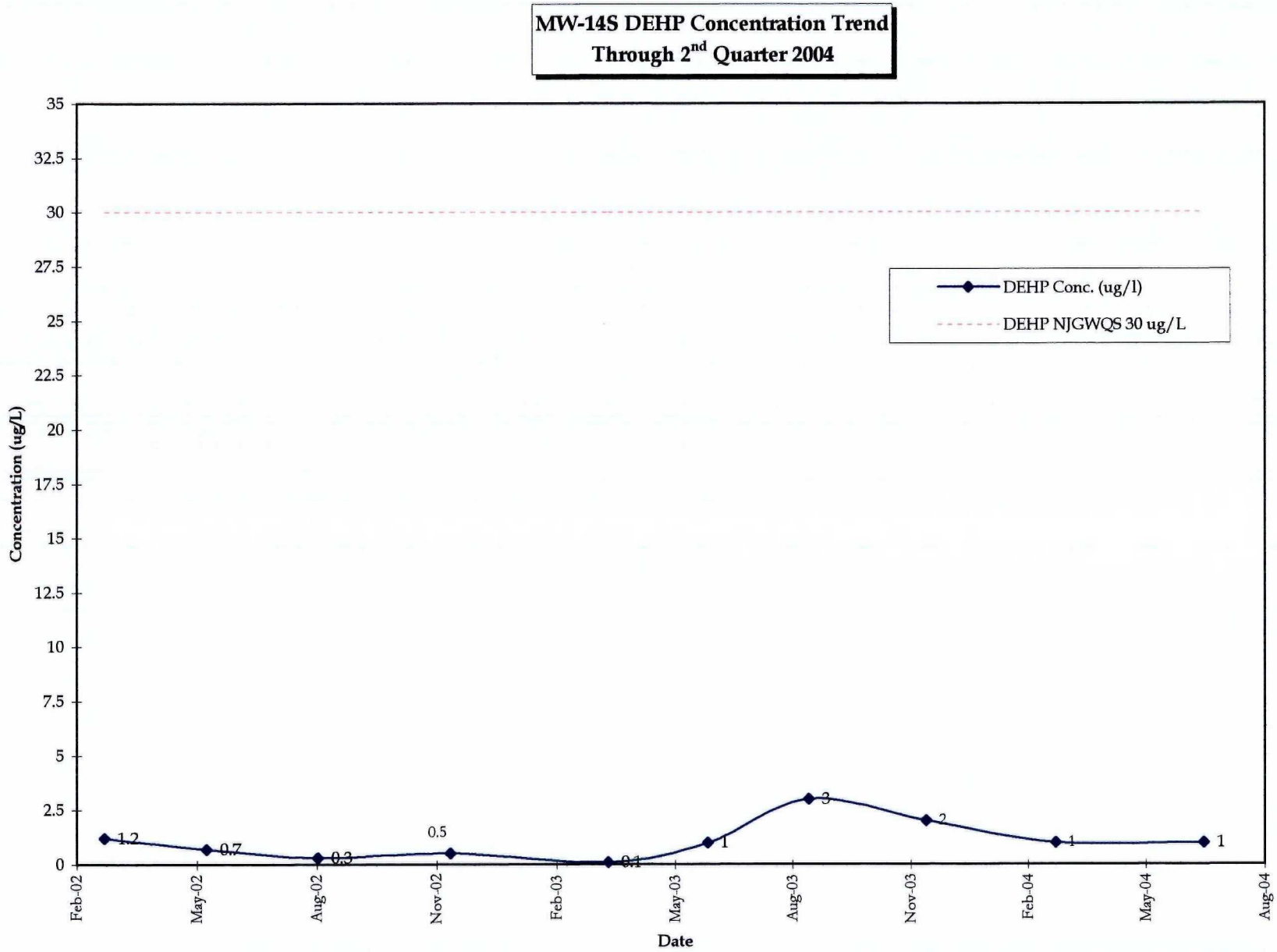
Appendix D
Groundwater Concentration Trend Analysis

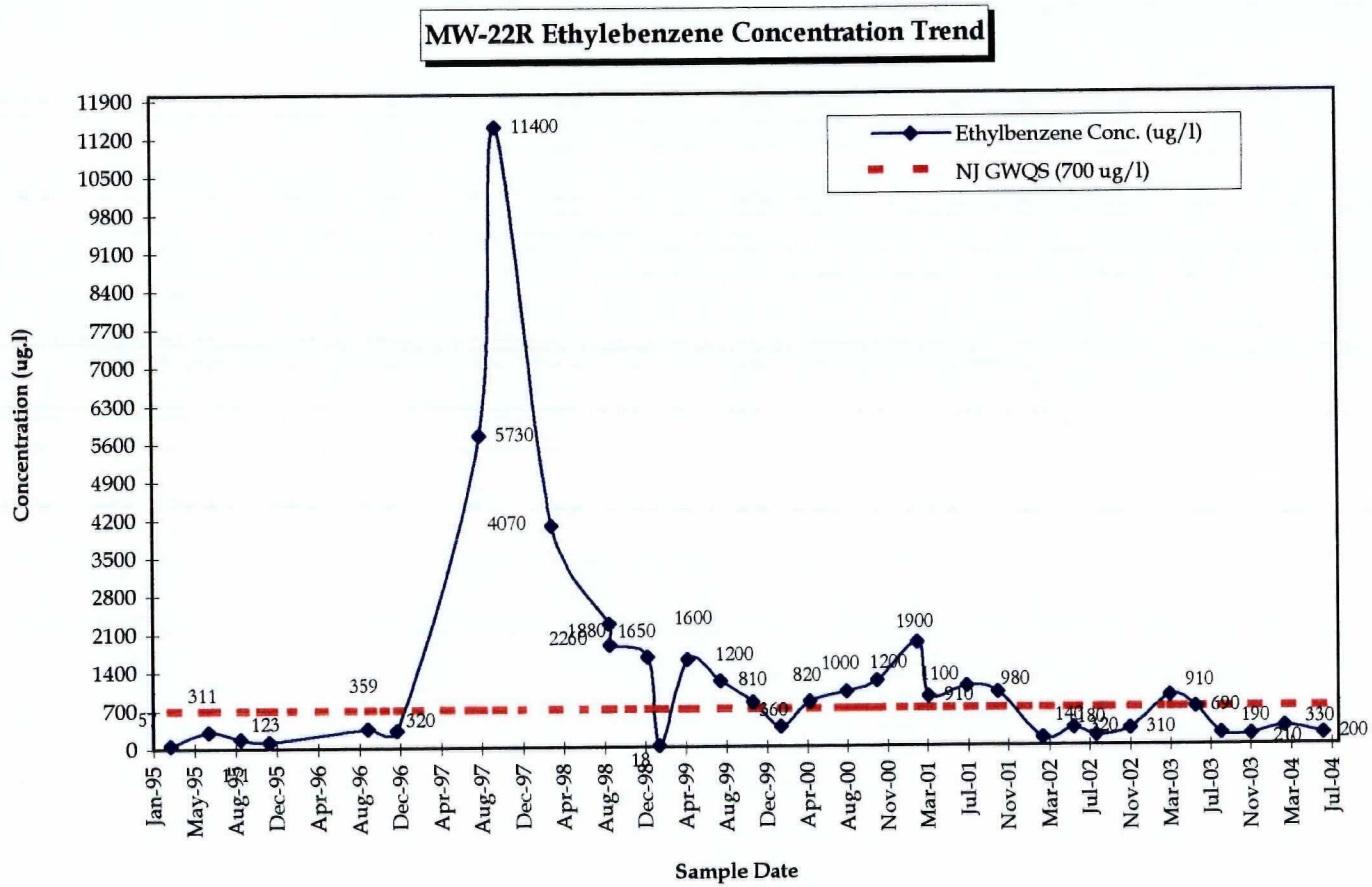
L.E. Carpenter and Company
Western Region of Free Product

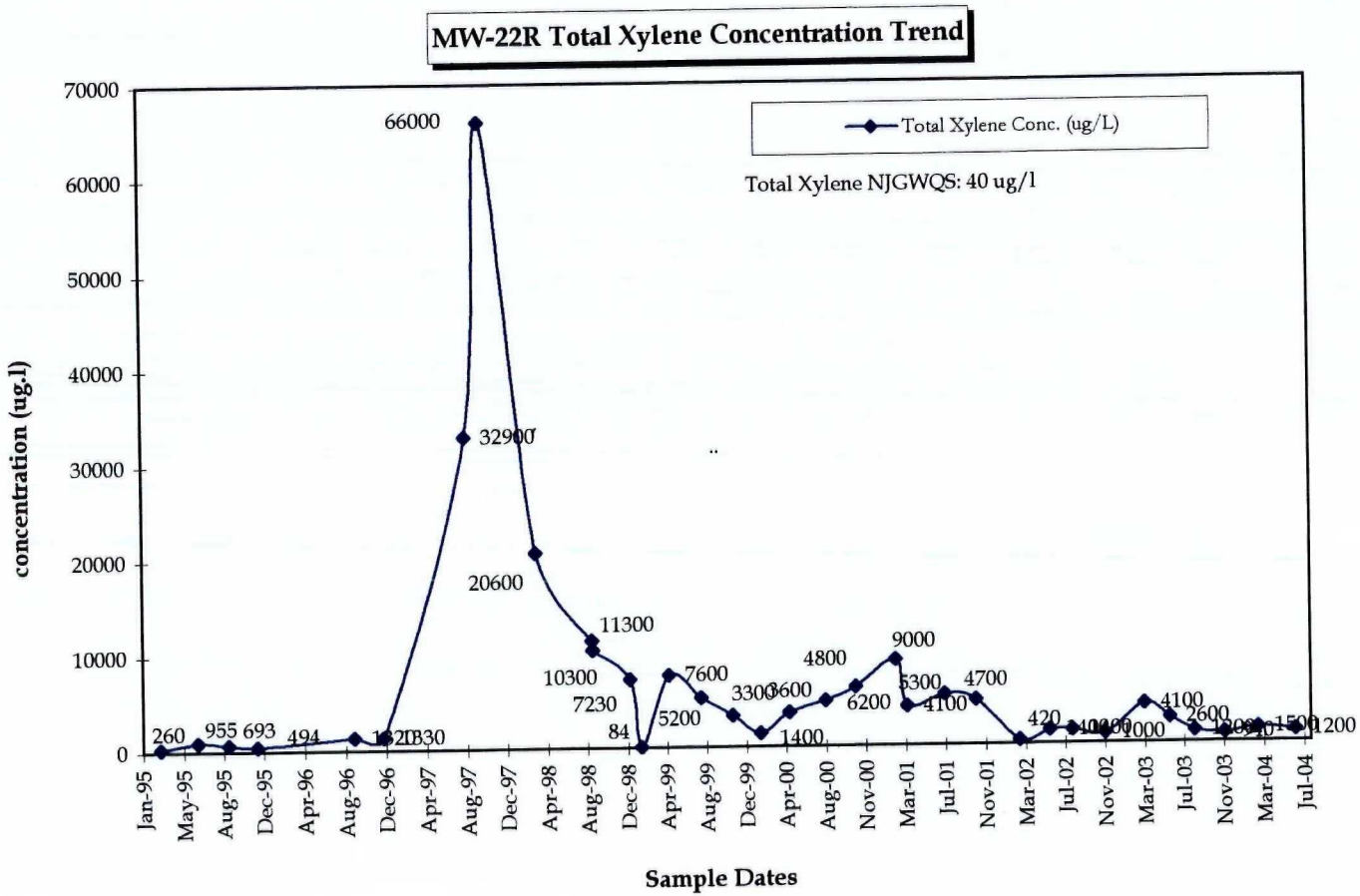
MW-11DR DEHP Concentration Trend
Through 2nd Quarter 2004



L.E. Carpenter and Company
Western Region of Free Product




MW-22R Ethylebenzene Concentration Trend
Ethylbenzene Conc. (ug/l)
NJ GWQS (700 ug/l)
Concentration (ug.l)
Sample Date
11900
11200
10500
9800
9100
8400
7700
7000
6300
5600
4900
4200
3500
2800
2100
1400
700
0
Jan-95
May-95
Aug-95
Dec-95
Apr-96
Aug-96
Dec-96
Apr-97
Aug-97
Dec-97
Apr-98
Aug-98
Dec-98
Apr-99
Aug-99
Dec-99
Apr-00
Aug-00
Nov-00
Mar-01
Jul-01
Nov-01
Mar-02
Jul-02
Nov-02
Mar-03
Jul-03
Nov-03
Mar-04
Jul-04
11400
5730
4070
1650
1600
1200
810
820
1000
1200
1900
980
910
310
330
200
359
320
311
123


MW-22R Total Xylene Concentration Trend
Total Xylene Conc. (ug/L)
Total Xylene NJGWQS: 40 ug/l
concentration (ug.l)
Sample Dates
70000
60000
50000
40000
30000
20000
10000
0
Jan-95
May-95
Aug-95
Dec-95
Apr-96
Aug-96
Dec-96
Apr-97
Aug-97
Dec-97
Apr-98
Aug-98
Dec-98
Apr-99
Aug-99
Dec-99
Apr-00
Aug-00
Nov-00
Mar-01
Jul-01
Nov-01
Mar-02
Jul-02
Nov-02
Mar-03
Jul-03
Nov-03
Mar-04
Jul-04
260
955
693
494
66000
32900
20600
11300
10300
7230
84
5200
7600
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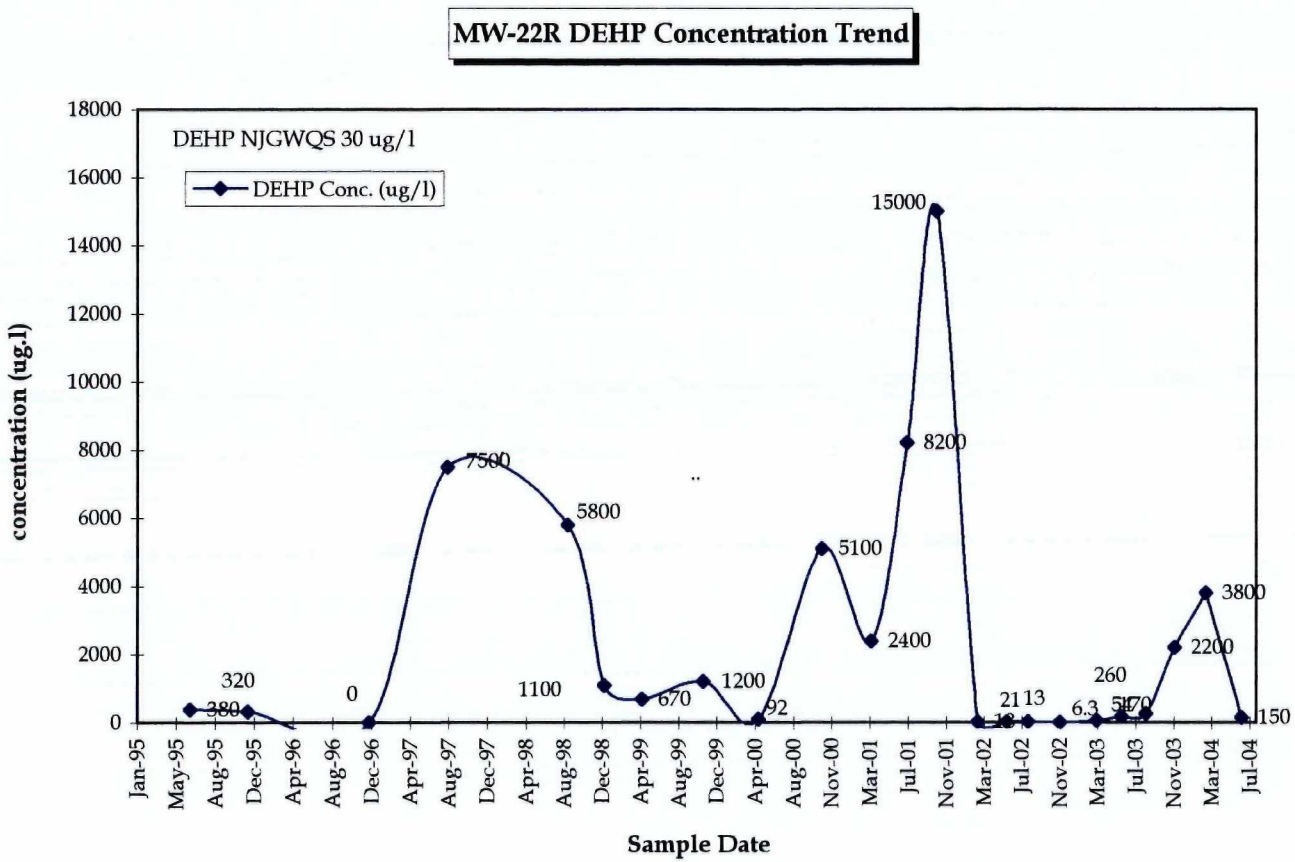
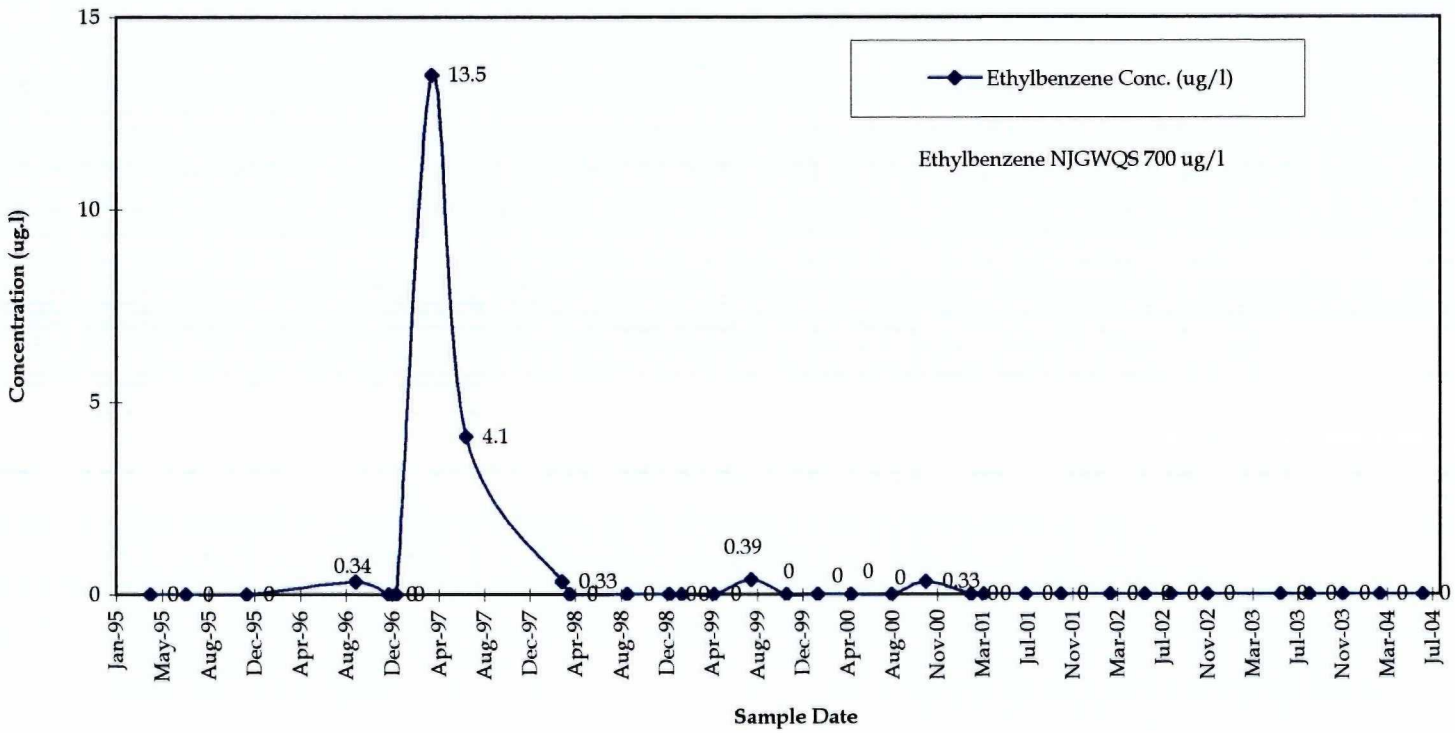
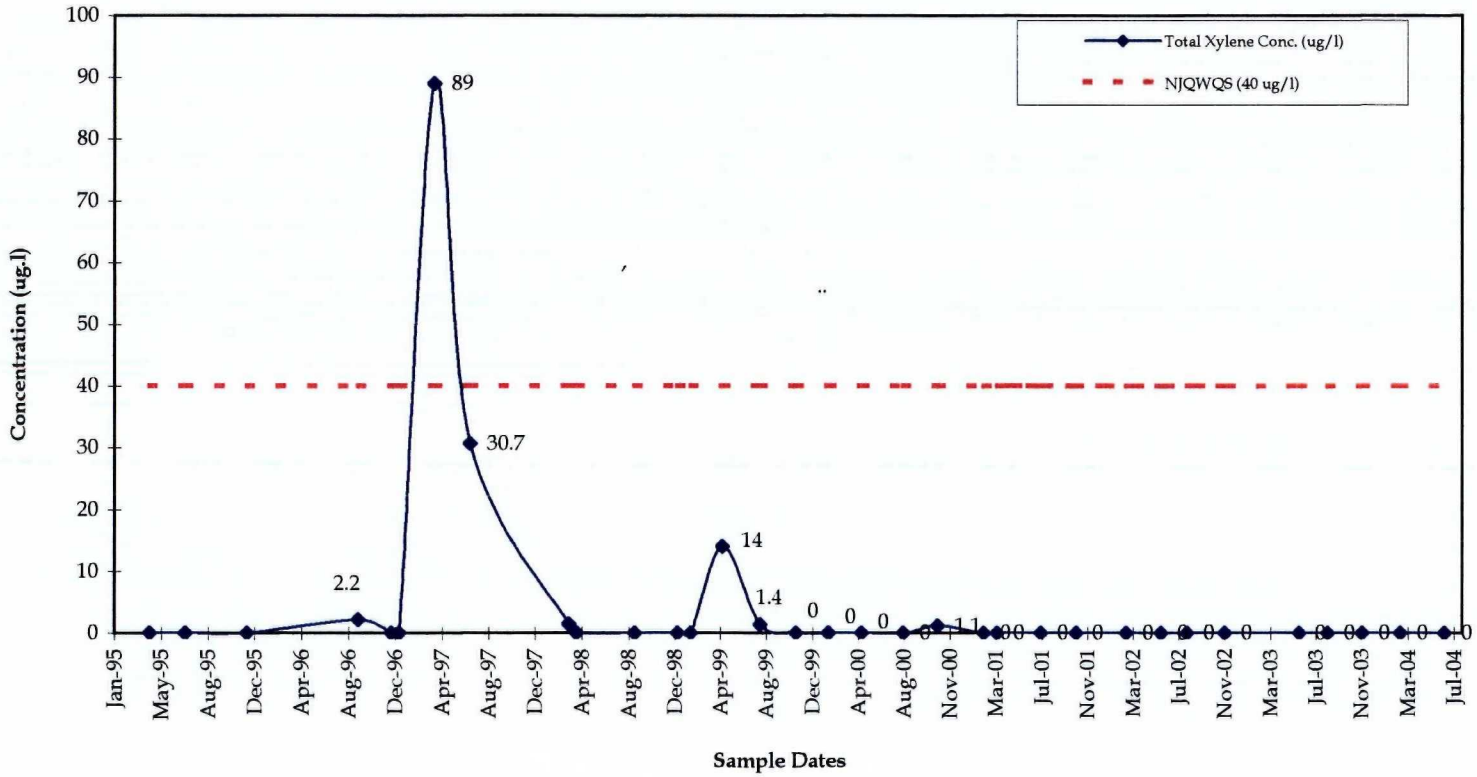
3600
1400
4800
6200
9000
5300
4100
4700
420
4100
2600
1200


MW-22R DEHP Concentration Trend
DEHP NJGWQS 30 ug/l
DEHP Conc. (ug/l)
concentration (ug.l)
Sample Date
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Jan-95
May-95
Aug-95
Dec-95
Apr-96
Aug-96
Dec-96
Apr-97
Aug-97
Dec-97
Apr-98
Aug-98
Dec-98
Apr-99
Aug-99
Dec-99
Apr-00
Aug-00
Nov-00
Mar-01
Jul-01
Nov-01
Mar-02
Jul-02
Nov-02
Mar-03
Jul-03
Nov-03
Mar-04
Jul-04
320
380
0
7500
5800
1100
670
1200
92
5100
2400
15000
8200
21
13
6.3
260
2200
3800
150

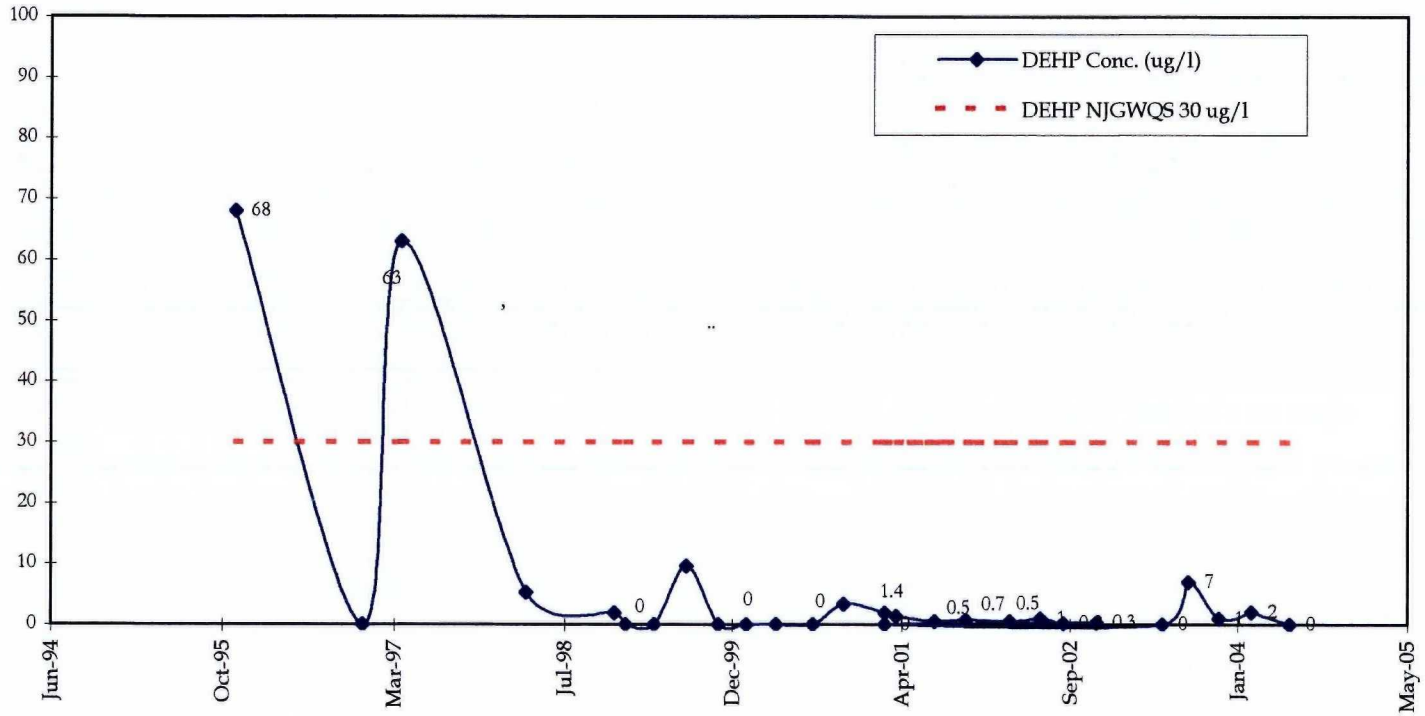
MW-25R Ethylebenzene Concentration Trend



MW-25R Total Xylene Concentration Trend



MW-25R DEHP Concentration Trend



Appendix E
2nd Quarter 2004
Laboratory Analytical Report

Lancaster Laboratories

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 900662. Samples arrived at the laboratory on Friday, June 18, 2004. The PO# for this group is 6527.02.

Client Description	Lancaster Labs Number
WP-B7 Grab Water Sample	4296691
MW-17 Grab Water Sample	4296692
MW-2(R) Grab Water Sample	4296693
MW4 Grab Water Sample	4296694
MW-21 Grab Water Sample	4296695

METHODOLOGY

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

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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

Respectfully Submitted,

Tina L. Thoman
Senior Chemist/Coordinator

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
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Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4296691

WP-B7 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 18:20 by JO

Account Number: 09322

Submitted: 06/18/2004 14:30
Reported: 06/30/2004 at 12:49
Discard: 07/31/2004

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

WPB7G SDG#: LEC13-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	300.	1.	cfu/ml	n.a.
	The heterotrophic plate count is estimated since one or more of the plates used in the count is outside the 30 - 300/ plate range.					
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	228.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	378.	3.8	mg/l	1
00212	Total Dissolved Solids	n.a.	366.	9.7	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	0.53	0.040	mg/l	1
00228	Sulfate	14808-79-8	6.0	1.5	mg/l	5
08344	Ferrous Iron	n.a.	52.5	0.80	mg/l	100
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	14,000.	500.	ug/l	250
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	4.6	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	4.8	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	25,000.	950.	ug/l	1000
	Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.					

State of New Jersey Lab Certification No. PA011

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

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Organic Qualifiers

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C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4296691

WP-B7 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 18:20 by JO

Account Number: 09322

Submitted: 06/18/2004 14:30
Reported: 06/30/2004 at 12:49
Discard: 07/31/2004

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

WPB7G SDG#: LEC13-09

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	06/21/2004 09:45	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/22/2004 18:09	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/22/2004 18:09	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/23/2004 14:39	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	06/24/2004 07:42	Susan A Engle	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/23/2004 18:37	Kyle W Eckenroad	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/22/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/22/2004 14:04	Katherine D Webster	1
00228	Sulfate	EPA 300.0	1	06/29/2004 10:29	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/19/2004 06:20	Daniel S Smith	100
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/23/2004 16:00	Lisa A Johnson	250
08238	BTEX (EPA 602)	EPA 602	1	06/21/2004 22:40	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/24/2004 13:28	Brian K Graham	1000
08108	625 Water Extraction	EPA 625	1	06/20/2004 09:15	Joseph S Feister	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/21/2004 14:15	Nancy J Shoop	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4296692

MW-17 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/18/2004 05:47 by JO

Account Number: 09322

Submitted: 06/18/2004 14:30
Reported: 06/30/2004 at 12:49
Discard: 07/31/2004

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

MW17G SDG#: LEC13-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	520.	1.	cfu/ml	n.a.
	This result is an estimated count. All plates used to calculate the result are outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.					
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	51.7	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	62.0	3.8	mg/l	1
00212	Total Dissolved Solids	n.a.	163.	9.7	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	0.11	0.040	mg/l	1
00228	Sulfate	14808-79-8	11.4	1.5	mg/l	5
08344	Ferrous Iron	n.a.	N.D.	0.0080	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	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	06/21/2004 09:45	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/22/2004 18:09	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/22/2004 18:09	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/23/2004 14:39	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	06/24/2004 07:42	Susan A Engle	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/23/2004 18:42	Kyle W Eckenroad	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/22/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/22/2004 14:07	Katherine D Webster	1
00228	Sulfate	EPA 300.0	1	06/29/2004 11:10	Shannon L Phillips	5

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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

ppb parts per billion

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4296692

MW-17 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/18/2004 05:47 by JO

Account Number: 09322

Submitted: 06/18/2004 14:30
Reported: 06/30/2004 at 12:49
Discard: 07/31/2004

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

MW17G SDG#: LEC13-10

08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/19/2004 06:20	Daniel S Smith	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/23/2004 17:21	Lisa A Johnson	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/21/2004 14:15	Nancy J Shoop	1

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meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4296693

MW-2(R) Grab Water Sample
L.E. Carpenter, NJ

Collected:06/18/2004 06:18 by JO

Account Number: 09322

Submitted: 06/18/2004 14:30
Reported: 06/30/2004 at 12:49
Discard: 07/31/2004

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

MW2RG SDG#: LEC13-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	320.	1.	cfu/ml	n.a.
	This count is an estimate due to the presence of spreader-type colony growth on one or more of the plates used in the enumeration.					
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	202.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	499.	7.5	mg/l	1
00212	Total Dissolved Solids	n.a.	347.	9.7	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	1.0	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.85	0.040	mg/l	1
00228	Sulfate	14808-79-8	1.7 J	1.5	mg/l	5
08344	Ferrous Iron	n.a.	32.1	0.80	mg/l	100
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	8,400.	400.	ug/l	200
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	49.	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	8.0	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	15,000.	210.	ug/l	200

Due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

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MW2RG SDG#: LEC13-11

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

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00202	Alkalinity to pH 4.5	EPA 310.1	1	06/22/2004 18:09	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/23/2004 14:39	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	06/24/2004 07:42	Susan A Engle	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/23/2004 18:38	Kyle W Eckenroad	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/22/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/22/2004 14:08	Katherine D Webster	1
00228	Sulfate	EPA 300.0	1	06/29/2004 11:24	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/19/2004 06:20	Daniel S Smith	100
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/23/2004 16:14	Lisa A Johnson	200
08238	BTEX (EPA 602)	EPA 602	1	06/22/2004 07:16	Linda C Pape	1
00554	Base Neutrals (cont)	EPA 625	1	06/25/2004 05:43	Brian K Graham	200
08108	625 Water Extraction	EPA 625	1	06/20/2004 09:15	Joseph S Feister	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/21/2004 14:15	Nancy J Shoop	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4296694

MW4 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/18/2004 07:12 by JO

Account Number: 09322

Submitted: 06/18/2004 14:30
Reported: 06/30/2004 at 12:49
Discard: 07/31/2004

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

MW4GS SDG#: LEC13-12

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
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	5,200.	98.	ug/l	100

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

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	06/21/2004 23:13	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/24/2004 15:17	Brian K Graham	100
08108	625 Water Extraction	EPA 625	1	06/20/2004 09:15	Joseph S Feister	1

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PO Box 12425
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ppb parts per billion

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4296695

MW-21 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 16:32 by JO

Account Number: 09322

Submitted: 06/18/2004 14:30
Reported: 06/30/2004 at 12:50
Discard: 07/31/2004

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

MW21G SDG#: LEC13-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	110.	1.	cfu/ml	n.a.
	This result is an estimated count. All plates used to calculate the result are outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.					
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	157.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	11.6 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	301.	9.7	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.16	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	0.050 J	0.040	mg/l	1
00228	Sulfate	14808-79-8	14.1	1.5	mg/l	5
08344	Ferrous Iron	n.a.	0.018 J	0.0080	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	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
00554	Base Neutrals (cont)					
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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g	gram(s)	**kg**	kilogram(s)
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Reported: 06/30/2004 at 12:50
Discard: 07/31/2004

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Madison WI 53708-8923

MW21G SDG#: LEC13-13

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	06/21/2004 09:45	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/24/2004 17:45	Justin M Bowers	1
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00206	Total Suspended Solids	EPA 160.2	1	06/23/2004 14:39	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	06/24/2004 07:42	Susan A Engle	1
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00221	Ammonia Nitrogen	EPA 350.2	1	06/22/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/22/2004 14:09	Katherine D Webster	1
00228	Sulfate	EPA 300.0	1	06/29/2004 11:37	Shannon L Phillips	5
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08238	BTEX (EPA 602)	EPA 602	1	06/22/2004 07:49	Linda C Pape	1
00554	Base Neutrals (cont)	EPA 625	1	06/22/2004 11:35	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/20/2004 09:15	Joseph S Feister	1
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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/30/04 at 12:50 PM

Group Number: 900662

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: 04171834401A	Sample number(s): 4296691-4296693,4296695							
Ferrous Iron	N.D.	0.0080	mg/l	102		95-105		
Batch number: 04171WAA625	Sample number(s): 4296691,4296693-4296695							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	102	99	74-114	3	30
Batch number: 04173109101B	Sample number(s): 4296691-4296693,4296695							
Total Phosphorus as P (water)	N.D.	0.040	mg/l	102		90-110		
Batch number: 04173A36A	Sample number(s): 4296691,4296693-4296695							
Total Xylenes	N.D.	0.6	ug/l	84	84	82-120	0	30
Benzene	N.D.	0.2	ug/l	89	89	79-123	0	30
Toluene	N.D.	0.2	ug/l	87	88	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	84	85	81-119	1	30
Batch number: 041740021A	Sample number(s): 4296691-4296693,4296695							
Methane	N.D.	2.0	ug/l	103		80-120		
Batch number: 04174020201A	Sample number(s): 4296691-4296693							
Alkalinity to pH 4.5				100		98-103		
Batch number: 04174022101A	Sample number(s): 4296691-4296693,4296695							
Ammonia Nitrogen	N.D.	0.11	mg/l	98	98	91-100	0	1
Batch number: 04175020602B	Sample number(s): 4296691-4296693,4296695							
Total Suspended Solids	N.D.	3.0	mg/l	88		55-132		
Batch number: 04175106102A	Sample number(s): 4296691							
Nitrate Nitrogen	N.D.	0.040	mg/l	103		89-110		
Batch number: 04175106102B	Sample number(s): 4296692-4296693,4296695							
Nitrate Nitrogen	N.D.	0.040	mg/l	103		89-110		
Batch number: 04176020201A	Sample number(s): 4296695							
Alkalinity to pH 4.5				101		98-103		
Batch number: 04176021201A	Sample number(s): 4296691-4296693,4296695							

*- 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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g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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*****	Duplicate analysis not within control limits
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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/30/04 at 12:50 PM

Group Number: 900662

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Total Dissolved Solids	N.D.	9.7	mg/l	100		80-120		
Batch number: 04180459302B	Sample number(s): 4296691-4296693,4296695							
Sulfate	0.39 J	0.30	mg/l	101		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: 04171834401A	Sample number(s): 4296691-4296693,4296695								
Ferrous Iron	102	100	83-111	1	5	32.1	31.9	1 (1)	6
Batch number: 04173109101B	Sample number(s): 4296691-4296693,4296695								
Total Phosphorus as P (water)	95		90-110			0.057	0.055	4* (1)	3
Batch number: 04173A36A	Sample number(s): 4296691,4296693-4296695								
Total Xylenes	97		78-130						
Benzene	107		67-136						
Toluene	104		78-129						
Ethylbenzene	100		75-133						
Batch number: 041740021A	Sample number(s): 4296691-4296693,4296695								
Methane	98	112	67-120	8	20				
Batch number: 04174020201A	Sample number(s): 4296691-4296693								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	99	100	64-130	0	2	70.7	69.5	2	4
Batch number: 04174022101A	Sample number(s): 4296691-4296693,4296695								
Ammonia Nitrogen						28.9	28.9	0	2
Batch number: 04175020602B	Sample number(s): 4296691-4296693,4296695								
Total Suspended Solids						5,800.	5,560.	4	24
Batch number: 04175106102A	Sample number(s): 4296691								
Nitrate Nitrogen	106		90-110			N.D.	N.D.	0 (1)	2
Batch number: 04175106102B	Sample number(s): 4296692-4296693,4296695								
Nitrate Nitrogen	108		90-110			N.D.	N.D.	0 (1)	2
Batch number: 04176020201A	Sample number(s): 4296695								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	98	99	64-130	0	2	21.4	21.4	0	4

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/30/04 at 12:50 PM

Group Number: 900662

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: 04176021201A	Sample number(s): 4296691-4296693,4296695								
Total Dissolved Solids	101	102	60-140	1	5	622.	631.	1	5
Batch number: 04180459302B	Sample number(s): 4296691-4296693,4296695								
Sulfate	101		90-110			22.0	21.2	4* (1)	3

Surrogate Quality Control

Analysis Name: Base Neutrals
Batch number: 04171WAA625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4296691	96	97	89
4296693	101	97	89
4296694	89	89	80
4296695	72	86	83
Blank	73	77	82
LCS	82	83	90
LCSD	77	86	86
Limits:	50-124	64-122	33-149

Analysis Name: BTEX (EPA 602)
Batch number: 04173A36A

	Trifluorotoluene-P
4296691	92
4296693	95
4296694	101
4296695	102
Blank	100
LCS	102
LCSD	100
MS	102
Limits:	66-136

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 041740021A

	Propene
4296691	97
4296692	101
4296693	95

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Lancaster Laboratories

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Reported: 06/30/04 at 12:50 PM

Group Number: 900662

Surrogate Quality Control

4296695	88
Blank	110
LCS	108
MS	100
MSD	112
Limits:	68-113

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Analysis Request Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 900662 Sample # 429669/-95

COC # 0057248

Please print. Instructions on reverse side correspond with circled numbers. 2°C

(1)
Client: RMT Acct. #:
Project Name/#: LEC PWSID #:
Project Manager: Nick Clevett P.O.#:
Sampler: JO/BM 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	Gas	Composite	Soil	Water	Other	Total # of Containers	BTEX	DEHP	MNA - Sulfate	Nitrate, Ammonia	Phosphorus, ferrous iron	Methane, TSS, TDS	Heterotrophic plate	Count	Remarks
WP-B7	6/17/04	1820	X			X		16	X	X	X						
MW-17	6/18/04	547	↓			↓		14			X						
MW-2(R)	6/18/04	618						16	X	X	X						
MW-4	6/18/04	712						5	X	X							
MW-21	6/17/04	1632	X			X		16	X	X	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
[signature]	6/18/04	827	Jay Charles	6/17/04	0930
Jay Charles	6/18/04	1430			
			Jessica [signature]	6/18/04	1430

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Analysis Report

Lancaster Laboratories

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 900788. Samples arrived at the laboratory on Friday, June 18, 2004. The PO# for this group is 6527.02.

Client Description	Lancaster Labs Number
RB-1 Grab Water Sample	4297349

METHODOLOGY

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

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

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

Respectfully Submitted,

Victoria M. Martell
Chemist

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4297349

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

Collected:06/18/2004 05:30 by JO

Account Number: 09322

Submitted: 06/18/2004 14:30
Reported: 06/27/2004 at 19:48
Discard: 07/28/2004

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

RB1LE SDG#: LEC13-14*

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
00554	Base Neutrals (cont)					
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	06/22/2004 11:07	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/24/2004 06:50	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/22/2004 03:10	David V Hershey Jr	1

MEMBER ACIL

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
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meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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> greater than

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ppb parts per billion

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X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
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M	Duplicate injection precision not met
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*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 900788
Reported: 06/27/04 at 07:48 PM

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: 04173A36A	Sample number(s): 4297349							
Total Xylenes	N.D.	0.6	ug/l	84	84	82-120	0	30
Benzene	N.D.	0.2	ug/l	89	89	79-123	0	30
Toluene	N.D.	0.2	ug/l	87	88	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	84	85	81-119	1	30
Batch number: 04174WAA625	Sample number(s): 4297349							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	96	95	74-114	1	30

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: 04173A36A	Sample number(s): 4297349								
Total Xylenes	97		78-130						
Benzene	107		67-136						
Toluene	104		78-129						
Ethylbenzene	100		75-133						

Surrogate Quality Control

Analysis Name: BTEX (EPA 602)
Batch number: 04173A36A

	Trifluorotoluene-P
4297349	103
Blank	100
LCS	102
LCSD	100
MS	102

*- 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: 06/27/04 at 07:48 PM

Group Number: 900788

Surrogate Quality Control

Limits: 66-136

Analysis Name: Base Neutrals
Batch number: 04174WAA625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4297349	76	79	78
Blank	75	78	90
LCS	84	80	109
LCSD	81	80	79
Limits:	50-124	64-122	33-149

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Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 900788 Sample # 4297349

COC # 0057248

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

(1)
Client: RMT
Acct. #:
Project Name/#: LEC
PWSID #:
Project Manager: Nick Clarrett
P.O.#:
Sampler: JOJ BM
Quote #:
Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #:

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

Sample	Date	Time							BTEX	DEHP	MNA + Sulfate	Nitrate, Ammonia	Phosphorus, Ferrous Iron	Methane, TSS, TDS	Heterotrophic plate count				Remarks
WP-B7	6/17/04	1820	X			X		16	X	X	X								
MW-17	6/18/04	547	↓			↓		14	X	X	X								
MW-2(R)	6/18/04	618						16	X	X	X								
MW-4	6/18/04	712						5	X	X	X								
MW-21	6/17/04	1632	X			X		16	X	X	X								
RB-1	6/18/04	0530	X			X		4	X	X									BU 6-22-04

(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
[illegible]	6/18/04	822	Joy Charles	6/18/04	0930
Joy Charles	6/18/04	1430			
			Jessica [illegible]	6/18/04	1430

Lancaster Laboratories

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 900478. Samples arrived at the laboratory on Thursday, June 17, 2004. The PO# for this group is 6527.02.

Client Description	Lancaster Labs Number
MW-19-9D Grab Water Sample	4295697
MW-19-5 Grab Water Sample	4295698

METHODOLOGY

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

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

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

Respectfully Submitted,

Victoria M. Martell
Chemist

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Analysis Report

Lancaster Laboratories

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L.E. Carpenter, NJ

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Reported: 06/24/2004 at 17:13
Discard: 07/25/2004

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M199D SDG#: LEC13-01

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295698

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

Collected:06/16/2004 19:45 by JO

Account Number: 09322

Submitted: 06/17/2004 15:25
Reported: 06/24/2004 at 17:14
Discard: 07/25/2004

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

MW195 SDG#: LEC13-02

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	210.		1.	cfu/ml	n.a.
	The heterotrophic plate count is estimated since one or more of the plates used in the count is outside the 30 - 300/ plate range.						
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	211.		0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	6.0	J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	621.		19.4	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.14		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.33	J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.040	mg/l	1
00228	Sulfate	14808-79-8	18.2		1.5	mg/l	5
08344	Ferrous Iron	n.a.	1.2		0.032	mg/l	4
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	1,300.		40.	ug/l	20
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	7,400.		300.	ug/l	500
07029	Benzene	71-43-2	N.D.		100.	ug/l	500
07030	Toluene	108-88-3	83,000.		100.	ug/l	500
07031	Ethylbenzene	100-41-4	1,400.		100.	ug/l	500
	Due to dilution of the sample made necessary by the high level of toluene, normal reporting limits were not attained.						
00554	Base Neutrals (cont)						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	1.	J	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

MEMBER ACIL
Lancaster Laboratories, Inc.
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MW195 SDG#: LEC13-02

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	06/21/2004 10:30	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/21/2004 13:30	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/22/2004 08:08	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/22/2004 10:00	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/18/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/22/2004 13:50	Katherine D Webster	1
00228	Sulfate	EPA 300.0	1	06/24/2004 12:26	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/17/2004 23:15	Daniel S Smith	4
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/23/2004 15:20	Lisa A Johnson	20
08238	BTEX (EPA 602)	EPA 602	1	06/21/2004 23:45	K. Robert Caulfeild-James	500
00554	Base Neutrals (cont)	EPA 625	1	06/21/2004 20:00	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/20/2004 09:15	Joseph S Feister	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/21/2004 14:15	Nancy J Shoop	1

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 900478
Reported: 06/24/04 at 05:14 PM

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: 04169834401A	Sample number(s): 4295698							
Ferrous Iron	N.D.	0.0080	mg/l	101		95-105		
Batch number: 04170020201A	Sample number(s): 4295698							
Alkalinity to pH 4.5				99		98-103		
Batch number: 04170022101A	Sample number(s): 4295698							
Ammonia Nitrogen	N.D.	0.11	mg/l	98	98	91-100	0	1
Batch number: 04171WAA625	Sample number(s): 4295697-4295698							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	102	99	74-114	3	30
Batch number: 04173020601B	Sample number(s): 4295698							
Total Suspended Solids	N.D.	3.0	mg/l	97		55-132		
Batch number: 04173109101A	Sample number(s): 4295698							
Total Phosphorus as P (water)	N.D.	0.040	mg/l	102		90-110		
Batch number: 04173A36A	Sample number(s): 4295697-4295698							
Total Xylenes	N.D.	0.6	ug/l	84	84	82-120	0	30
Benzene	N.D.	0.2	ug/l	89	89	79-123	0	30
Toluene	N.D.	0.2	ug/l	87	88	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	84	85	81-119	1	30
Batch number: 041740021A	Sample number(s): 4295698							
Methane	N.D.	2.0	ug/l	103		80-120		
Batch number: 04174021201A	Sample number(s): 4295698							
Total Dissolved Solids	N.D.	9.7	mg/l	100		80-120		
Batch number: 04174106101A	Sample number(s): 4295698							
Nitrate Nitrogen	N.D.	0.040	mg/l	103		89-110		
Batch number: 04176401501A	Sample number(s): 4295698							
Sulfate	0.99 J	0.30	mg/l	105		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. Group Number: 900478
Reported: 06/24/04 at 05:14 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: 04169834401A	Sample number(s): 4295698								
Ferrous Iron	96	100	83-111	2	5	13.1	13.1	0	6
Batch number: 04170020201A	Sample number(s): 4295698								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	101	101	64-130	0	2	139.	140.	1	4
Batch number: 04170022101A	Sample number(s): 4295698								
Ammonia Nitrogen						1.7	1.7	0 (1)	2
Batch number: 04173020601B	Sample number(s): 4295698								
Total Suspended Solids						42.0	45.0	7 (1)	24
Batch number: 04173109101A	Sample number(s): 4295698								
Total Phosphorus as P (water)	97		90-110			0.52	0.52	1	3
Batch number: 04173A36A	Sample number(s): 4295697-4295698								
Total Xylenes	97		78-130						
Benzene	107		67-136						
Toluene	104		78-129						
Ethylbenzene	100		75-133						
Batch number: 041740021A	Sample number(s): 4295698								
Methane	98	112	67-120	8	20				
Batch number: 04174021201A	Sample number(s): 4295698								
Total Dissolved Solids	98	90	60-140	4	5	2,040.	2,040.	0	5
Batch number: 04174106101A	Sample number(s): 4295698								
Nitrate Nitrogen	94		90-110			1.6	1.5	4*	2
Batch number: 04176401501A	Sample number(s): 4295698								
Sulfate	94		90-110			18.2	18.5	2 (1)	3

Surrogate Quality Control

Analysis Name: Base Neutrals
Batch number: 04171WAA625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4295697	74	84	79
4295698	65	80	78
Blank	73	77	82

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Reported: 06/24/04 at 05:14 PM

Surrogate Quality Control

LCS	82	83	90
LCSD	77	86	86
Limits:	50-124	64-122	33-149

Analysis Name: BTEX (EPA 602)
Batch number: 04173A36A

	Trifluorotoluene-P
4295697	100
4295698	103
Blank	100
LCS	102
LCSD	100
MS	102
Limits:	66-136

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 041740021A

	Propene
4295698	101
Blank	110
LCS	108
MS	100
MSD	112
Limits:	68-113

*- 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.

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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> greater than

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ppb parts per billion

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Analysis Request Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. # 9322 For Lancaster Laboratories use only Group# 900478 Sample # 429597-98

COC # 0055807

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

(1) Client: RMT, Inc Acct. #:
Project Name/#: LECarpenter/16527.02 PWSID #:
Project Manager: Nick Clevett P.O.#:
Sampler: JOJBM 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	Matrix						BTEX	DEHP	MNA: NH3, SO4, NO3, NO2, TK, Fe2+, Fe3+, TSS, Hydrogen, Chloride, Alk, TDS							Remarks
MW-19-9D	6/16/04	1840	X			X		4	X	X	X							
MW19-5	6/16/04	1945	X			X		16	X	X	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
[signature]	6/17/04	902	[signature]	6/17/04	0915
[signature]	6/17/04	1525			
			[signature]	6/17/04	1525

Analysis Report

Lancaster Laboratories

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 900310. Samples arrived at the laboratory on Wednesday, June 16, 2004. The PO# for this group is 6527.02.

Client Description	Lancaster Labs Number
MW-15S Grab Water Sample	4294777
MW-15I Grab Water Sample	4294778
MW-14I Grab Water Sample	4294779
DUP-1 Grab Water Sample	4294780
MW19-7 Grab Water Sample	4294781
MW-14S Grab Water Sample	4294782
MW-22(R) Grab Water Sample	4294783
Trip Blank Water Sample	4294784

METHODOLOGY

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

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories

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

Respectfully Submitted,

Victoria M. Martell
Chemist

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

MEMBER ACIL

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294777

MW-15S Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 19:00 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

15S-- SDG#: LEC12-13

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	0.5	J	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00554	Base Neutrals (cont)						
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	06/17/2004 14:57	Linda C Pape	1
00554	Base Neutrals (cont)	EPA 625	1	06/18/2004 17:01	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/17/2004 16:30	Elia R Botrous	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294778

MW-15I Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 20:00 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

15I-- SDG#: LEC12-14

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Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294779

MW-14I Grab Water Sample
L.E. Carpenter, NJ

Collected:06/16/2004 09:25 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

14I-- SDG#: LEC12-15

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	35.		1.	cfu/ml	n.a.
	The heterotrophic plate count is estimated since one or more of the plates used to enumerate the sample is outside the 30 - 300/ plate range.						
	The negative system control that accompanied this batch of samples exhibited a single bacteria colony; normally this control shows no growth. Under certain circumstances growth on this control could indicate a problem with sample results. In this case the growth has little or no impact on the sample results since the sample counts are so much larger than the contaminant.						
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	112.		0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	3.6	J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	180.		9.7	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.18		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	0.048	J	0.040	mg/l	1
00228	Sulfate	14808-79-8	14.9		1.5	mg/l	5
08344	Ferrous Iron	n.a.	0.025	J	0.0080	mg/l	1
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	N.D.		2.0	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
00554	Base Neutrals (cont)						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1.	ug/l	1

State of New Jersey Lab Certification No. PA011

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

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Organic Qualifiers

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D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294779

MW-14I Grab Water Sample
L.E. Carpenter, NJ

Collected:06/16/2004 09:25 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

14I-- SDG#: LEC12-15

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	06/21/2004 10:15	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/23/2004 08:53	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	06/18/2004 08:02	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/21/2004 15:21	Katherine D Webster	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/18/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/18/2004 15:42	Kyle W Eckenroad	1
00228	Sulfate	EPA 300.0	1	06/28/2004 19:51	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/16/2004 23:10	Daniel S Smith	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/22/2004 16:08	Lisa A Johnson	1
08238	BTEX (EPA 602)	EPA 602	1	06/17/2004 16:01	Linda C Pape	1
00554	Base Neutrals (cont)	EPA 625	1	06/18/2004 19:03	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/17/2004 16:30	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/18/2004 09:00	Choon Y Tian	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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Organic Qualifiers

A	TIC is a possible aldol-condensation product
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N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294780

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

Collected: n.a.

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

LECD1 SDG#: LEC12-16FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	88.	1.	cfu/ml	n.a.
	The negative system control that accompanied this batch of samples exhibited a single bacteria colony; normally this control shows no growth. Under certain circumstances growth on this control could indicate a problem with sample results. In this case the growth has little or no impact on the sample results since the sample counts are so much larger than the contaminant.					
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	152.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	9.2 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	2,040.	77.6	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.21	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.15 J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.040	mg/l	1
00228	Sulfate	14808-79-8	37.3	1.5	mg/l	5
08344	Ferrous Iron	n.a.	9.6	0.40	mg/l	50
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	5,400.	200.	ug/l	100
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	610.	3.0	ug/l	5
07029	Benzene	71-43-2	4.0 J	1.0	ug/l	5
07030	Toluene	108-88-3	2,100.	4.0	ug/l	20
07031	Ethylbenzene	100-41-4	130.	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.					
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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Organic Qualifiers

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B	Value is <CRDL, but ≥IDL
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M	Duplicate injection precision not met
N	Spike sample not within control limits
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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294780

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

Collected: n.a.

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

LECD1 SDG#: LEC12-16FD

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	06/21/2004 10:15	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/23/2004 08:53	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	06/22/2004 08:08	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/21/2004 15:07	Katherine D Webster	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/18/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/18/2004 15:46	Kyle W Eckenroad	1
00228	Sulfate	EPA 300.0	1	06/28/2004 20:05	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/16/2004 23:10	Daniel S Smith	50
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/23/2004 14:39	Lisa A Johnson	100
08238	BTEX (EPA 602)	EPA 602	1	06/18/2004 05:34	Linda C Pape	20
08238	BTEX (EPA 602)	EPA 602	1	06/18/2004 07:10	Linda C Pape	5
00554	Base Neutrals (cont)	EPA 625	1	06/18/2004 20:06	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/17/2004 16:30	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/18/2004 09:00	Choon Y Tian	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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m3	cubic meter(s)	**ul**	microliter(s)

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ppb parts per billion

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294781

MW19-7 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/16/2004 15:20 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

19-7- SDG#: LEC12-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	110.	1.	cfu/ml	n.a.
	The negative system control that accompanied this batch of samples exhibited a single bacteria colony; normally this control shows no growth. Under certain circumstances growth on this control could indicate a problem with sample results. In this case the growth has little or no impact on the sample results since the sample counts are so much larger than the contaminant.					
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	142.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	6.8 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	2,110.	77.6	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.21	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.	0.040	mg/l	1
00228	Sulfate	14808-79-8	47.2	1.5	mg/l	5
08344	Ferrous Iron	n.a.	6.6	0.16	mg/l	20
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	5,200.	400.	ug/l	200
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	630.	3.0	ug/l	5
07029	Benzene	71-43-2	2.8 J	1.0	ug/l	5
07030	Toluene	108-88-3	2,100.	2.0	ug/l	10
07031	Ethylbenzene	100-41-4	130.	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.					
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294781

MW19-7 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/16/2004 15:20 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

19-7- SDG#: LEC12-17

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	06/21/2004 10:15	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/18/2004 17:04	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/18/2004 08:02	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/21/2004 15:08	Katherine D Webster	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/18/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/18/2004 15:47	Kyle W Eckenroad	1
00228	Sulfate	EPA 300.0	1	06/24/2004 11:55	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/16/2004 23:10	Daniel S Smith	20
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/23/2004 13:32	Lisa A Johnson	200
08238	BTEX (EPA 602)	EPA 602	1	06/18/2004 06:06	Linda C Pape	10
08238	BTEX (EPA 602)	EPA 602	1	06/18/2004 07:42	Linda C Pape	5
00554	Base Neutrals (cont)	EPA 625	1	06/18/2004 21:08	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/17/2004 16:30	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/18/2004 09:00	Choon Y Tian	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

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Organic Qualifiers

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Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294782

MW-14S Grab Water Sample
L.E. Carpenter, NJ

Collected:06/16/2004 10:30 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

14S-- SDG#: LEC12-18

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	69.		1.	cfu/ml	n.a.
	The negative system control that accompanied this batch of samples exhibited a single bacteria colony; normally this control shows no growth. Under certain circumstances growth on this control could indicate a problem with sample results. In this case the growth has little or no impact on the sample results since the sample counts are so much larger than the contaminant.						
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	167.		0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	17.2		3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	256.		9.7	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.30	J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.20	mg/l	5
	Due to interferences from the sample matrix, the reporting limit for the Total Phosphorous as P (water) determination was increased.						
00228	Sulfate	14808-79-8	5.1		1.5	mg/l	5
08344	Ferrous Iron	n.a.	5.7		0.16	mg/l	20
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	920.		40.	ug/l	20
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	0.2	J	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00554	Base Neutrals (cont)						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	1.	J	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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Organic Qualifiers

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X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
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M	Duplicate injection precision not met
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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294782

MW-14S Grab Water Sample
L.E. Carpenter, NJ

Collected:06/16/2004 10:30 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

14S-- SDG#: LEC12-18

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	06/21/2004 10:15	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/23/2004 08:53	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	06/22/2004 08:08	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/21/2004 15:09	Katherine D Webster	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/18/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/18/2004 15:48	Kyle W Eckenroad	5
00228	Sulfate	EPA 300.0	1	06/28/2004 20:19	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/16/2004 23:10	Daniel S Smith	20
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/23/2004 14:53	Lisa A Johnson	20
08238	BTEX (EPA 602)	EPA 602	1	06/18/2004 06:38	Linda C Pape	1
00554	Base Neutrals (cont)	EPA 625	1	06/18/2004 22:11	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/17/2004 16:30	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/18/2004 09:00	Choon Y Tian	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
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*****	Duplicate analysis not within control limits
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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294783

MW-22(R) Grab Water Sample
L.E. Carpenter, NJ

Collected:06/16/2004 11:43 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

22R-- SDG#: LEC12-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	24.	1.	cfu/ml	n.a.
	This result is an estimated count. All plates used to calculate the result are outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.					
	The negative system control that accompanied this batch of samples exhibited a single bacteria colony; normally this control shows no growth. Under certain circumstances growth on this control could indicate a problem with sample results. In this case the growth has little or no impact on the sample results since the sample counts are so much larger than the contaminant.					
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	196.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	28.8	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	320.	9.7	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.20	mg/l	5
	Due to interferences from the sample matrix, the reporting limit for the Nitrate determination was increased.					
00221	Ammonia Nitrogen	7664-41-7	0.50 J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.10	0.040	mg/l	1
00228	Sulfate	14808-79-8	N.D.	1.5	mg/l	5
08344	Ferrous Iron	n.a.	15.0	0.40	mg/l	50
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	6,100.	400.	ug/l	200
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	1,200.	3.0	ug/l	5
07029	Benzene	71-43-2	N.D.	1.0	ug/l	5
07030	Toluene	108-88-3	N.D.	1.0	ug/l	5
07031	Ethylbenzene	100-41-4	200.	1.0	ug/l	5
	The reporting limits were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.					
00554	Base Neutrals (cont)					

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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TNTC	Too Numerous To Count	**MPN**	Most Probable Number
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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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> greater than

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ppb parts per billion

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B	Value is <CRDL, but ≥IDL
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M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294783

MW-22(R) Grab Water Sample
L.E. Carpenter, NJ

Collected:06/16/2004 11:43 by JO

Account Number: 09322

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

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

22R-- SDG#: LEC12-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00669	bis(2-Ethylhexyl)phthalate	117-81-7	150.	2.	ug/l	2

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.

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	06/21/2004 10:15	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/17/2004 16:23	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/23/2004 08:53	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	06/22/2004 08:08	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/22/2004 19:36	Venia B McFadden	5
00221	Ammonia Nitrogen	EPA 350.2	1	06/18/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/18/2004 15:51	Kyle W Eckenroad	1
00228	Sulfate	EPA 300.0	1	06/28/2004 20:33	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/16/2004 23:10	Daniel S Smith	50
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/23/2004 15:06	Lisa A Johnson	200
08238	BTEX (EPA 602)	EPA 602	1	06/17/2004 16:33	Linda C Pape	5
00554	Base Neutrals (cont)	EPA 625	1	06/21/2004 08:16	Brian K Graham	2
08108	625 Water Extraction	EPA 625	1	06/17/2004 16:30	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/18/2004 09:00	Choon Y Tian	1

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2425 New Holland Pike • Lancaster, PA 17601

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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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ppb parts per billion

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4294784

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Submitted: 06/16/2004 21:00
Reported: 06/29/2004 at 12:11
Discard: 07/30/2004

Account Number: 09322

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

LECTB SDG#: LEC12-20TB*

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	06/17/2004 13:53	Linda C Pape	1

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/29/04 at 12:11 PM

Group Number: 900310

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: 04168834402A	Sample number(s): 4294779-4294783							
Ferrous Iron	N.D.	0.0080	mg/l	97		95-105		
Batch number: 04168A36A	Sample number(s): 4294777-4294779,4294783-4294784							
Total Xylenes	N.D.	0.6	ug/l	95	96	82-120	1	30
Benzene	N.D.	0.2	ug/l	98	99	79-123	1	30
Toluene	N.D.	0.2	ug/l	97	98	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	95	96	81-119	1	30
Batch number: 04168A36B	Sample number(s): 4294780-4294782							
Total Xylenes	N.D.	0.6	ug/l	95	96	82-120	1	30
Benzene	N.D.	0.2	ug/l	98	99	79-123	1	30
Toluene	N.D.	0.2	ug/l	97	98	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	95	96	81-119	1	30
Batch number: 041690015A	Sample number(s): 4294779-4294783							
Methane	N.D.	2.0	ug/l	103		80-120		
Batch number: 04169020201A	Sample number(s): 4294779-4294783							
Alkalinity to pH 4.5				100		98-103		
Batch number: 04169WAB625	Sample number(s): 4294777-4294783							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	91	96	74-114	6	30
Batch number: 04170020602B	Sample number(s): 4294781							
Total Suspended Solids	N.D.	3.0	mg/l	102		55-132		
Batch number: 04170021201A	Sample number(s): 4294779,4294781							
Total Dissolved Solids	N.D.	9.7	mg/l	105		80-120		
Batch number: 04170022101A	Sample number(s): 4294779-4294783							
Ammonia Nitrogen	N.D.	0.11	mg/l	98	98	91-100	0	1
Batch number: 04170109101B	Sample number(s): 4294779-4294783							
Total Phosphorus as P (water)	N.D.	0.040	mg/l	105		90-110		
Batch number: 04173106103A	Sample number(s): 4294779-4294782							

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
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C	degrees Celsius	**F**	degrees Fahrenheit
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g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/29/04 at 12:11 PM

Group Number: 900310

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrate Nitrogen	N.D.	0.040	mg/l	102		89-110		
Batch number: 04174021201A	Sample number(s): 4294780,4294782-4294783							
Total Dissolved Solids	N.D.	9.7	mg/l	100		80-120		
Batch number: 04174106107A	Sample number(s): 4294783							
Nitrate Nitrogen	N.D.	0.040	mg/l	105		89-110		
Batch number: 04175020601A	Sample number(s): 4294779-4294780,4294782-4294783							
Total Suspended Solids	N.D.	3.0	mg/l	81		55-132		
Batch number: 04176401501A	Sample number(s): 4294781							
Sulfate	0.99 J	0.30	mg/l	105		89-110		
Batch number: 04180459101A	Sample number(s): 4294779-4294780,4294782-4294783							
Sulfate	N.D.	0.30	mg/l	99		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: 04168834402A	Sample number(s): 4294779-4294783								
Ferrous Iron	79*	96	83-111	11*	5	2.8	2.7	4 (1)	6
Batch number: 04168A36A	Sample number(s): 4294777-4294779,4294783-4294784								
Total Xylenes	88		78-130						
Benzene	93		67-136						
Toluene	91		78-129						
Ethylbenzene	89		75-133						
Batch number: 04168A36B	Sample number(s): 4294780-4294782								
Total Xylenes	88		78-130						
Benzene	93		67-136						
Toluene	91		78-129						
Ethylbenzene	89		75-133						
Batch number: 041690015A	Sample number(s): 4294779-4294783								
Methane	75	75	67-120	0	20				
Batch number: 04169020201A	Sample number(s): 4294779-4294783								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	98	98	64-130	0	2	112.	113.	1	4
Batch number: 04170020602B	Sample number(s): 4294781								

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/29/04 at 12:11 PM

Group Number: 900310

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
Total Suspended Solids						30.0	30.7	2 (1)	24
Batch number: 04170021201A	Sample number(s): 4294779,4294781								
Total Dissolved Solids	92	93	60-140	0	5	2,110.	2,090.	1	5
Batch number: 04170022101A	Sample number(s): 4294779-4294783								
Ammonia Nitrogen						1.7	1.7	0 (1)	2
Batch number: 04170109101B	Sample number(s): 4294779-4294783								
Total Phosphorus as P (water)	99		90-110			0.048 J	N.D.	28* (1)	3
Batch number: 04173106103A	Sample number(s): 4294779-4294782								
Nitrate Nitrogen	109		90-110			N.D.	N.D.	0 (1)	2
Batch number: 04174021201A	Sample number(s): 4294780,4294782-4294783								
Total Dissolved Solids	98	90	60-140	4	5	2,040.	2,040.	0	5
Batch number: 04174106107A	Sample number(s): 4294783								
Nitrate Nitrogen	100		90-110			N.D.	N.D.	0 (1)	2
Batch number: 04175020601A	Sample number(s): 4294779-4294780,4294782-4294783								
Total Suspended Solids						28.0 J	39.0	33* (1)	24
Batch number: 04176401501A	Sample number(s): 4294781								
Sulfate	94		90-110			18.2	18.5	2 (1)	3
Batch number: 04180459101A	Sample number(s): 4294779-4294780,4294782-4294783								
Sulfate	95		90-110			1,390.	1,360.	2 (1)	3

Surrogate Quality Control

Analysis Name: BTEX (EPA 602)
Batch number: 04168A36A

	Trifluorotoluene-P
4294777	102
4294778	103
4294779	102
4294783	98
4294784	102
Blank	101
LCS	101
LCSD	102
MS	102

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
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2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/29/04 at 12:11 PM

Group Number: 900310

Surrogate Quality Control

Limits: 66-136

Analysis Name: BTEX (EPA 602)
Batch number: 04168A36B

	Trifluorotoluene-P
4294780	104
4294781	102
4294782	101
Blank	103
LCS	101
LCSD	102
MS	102
Limits:	66-136

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 041690015A

	Propene
4294779	111
4294780	98
4294781	103
4294782	101
4294783	100
Blank	106
LCS	106
MS	97
MSD	101
Limits:	68-113

Analysis Name: Base Neutrals
Batch number: 04169WAB625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4294777	102	90	84
4294778	95	82	89
4294779	103	90	84
4294780	91	83	81
4294781	89	88	82
4294782	98	86	84
4294783	79	80	86
Blank	83	81	84
LCS	88	82	83
LCSD	88	85	86
Limits:	50-124	64-122	33-149

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Analysis Request, Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 900310 Sample # 4294777-84

COC # 0057250

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

(1)
Client: RMT, Inc Acct. #:
Project Name/#: LE Carpenter/652702 PWSID #:
Project Manager: Nick Clevett P.O.#:
Sampler: JO/BM Quote #:
Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #: 1191462

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX	DEHP	MNA: Alk, SO_4, TDS, TSS, SPC, Fe^{2+}, TP, NO_3, NO_2, NH_3, methane							Remarks
MW-15S	6/15/04	19:00	X			X		5	X	X								temp 1.5-2°C
MW-15I	6/15/04	20:00						5	X	X								TJB 6/16/04
MW-14I	6/16/04	9:25						15	X	X	X							
Dup-1								16	X	X	X							
MW19-7	6/16/04	15:20							X	X	X							
MW-14S	6/16/04	10:30							X	X	X							
MW-22(R)	6/16/04	11:43							X	X	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
[signature]	6/14/04	18:15	J Overvoorde	6/12/04	23:30
J Overvoorde	6/16/04	16:55	Don Powell	6/16/04	17:00
Don Powell	6/16/04	2100			
			Jessica B[illegible]	6/16/04	2100

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Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.
2102 Rev. 10/27/02

Lancaster Laboratories

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 900102. Samples arrived at the laboratory on Tuesday, June 15, 2004. The PO# for this group is 6527.02.

Client Description	Lancaster Labs Number
PDB-4 Grab Water Sample	4293500
PDB-5 Grab Water Sample	4293501
PDB-FB Grab Water Sample	4293502
PDB-1 Grab Water Sample	4293503
PDB-2 Grab Water Sample	4293504
PDB-3 Grab Water Sample	4293505
PDB-6 Grab Water Sample	4293506
PDB-7 Grab Water Sample	4293507
MW19 Grab Water Sample	4293508
MW19-1 Grab Water Sample	4293509
MW19-2 Grab Water Sample	4293510
Trip Blank Water Sample	4293511

METHODOLOGY

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

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories

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

Respectfully Submitted,

Earl R Custer

Earl R. Custer
Sr. Microbiologist/Coordinator

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293500

PDB-4 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/14/2004 14:00 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 15:59
Discard: 07/26/2004

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

PDB4- SDG#: LEC12-01

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	0.8	J	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	06/17/2004 05:33	Linda C Pape	1

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Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293501

PDB-5 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/14/2004 14:10 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

PDB5- SDG#: LEC12-02

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	0.8	J	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	0.3	J	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	0.2	J	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	06/17/2004 06:05	Linda C Pape	1

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Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293502

PDB-FB Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 08:20 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

PDBFB SDG#: LEC12-03FB

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	0.2	J	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	06/17/2004 04:30	Linda C Pape	1

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Lancaster, PA 17605-2425
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Explanation of Symbols and Abbreviations

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TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
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*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293503

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

Collected:06/15/2004 08:23 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

PDB1- SDG#: LEC12-04

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	0.5	J	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	06/17/2004 06:37	Linda C Pape	1

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Explanation of Symbols and Abbreviations

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TNTC	Too Numerous To Count	**MPN**	Most Probable Number
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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
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*****	Duplicate analysis not within control limits
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293504

PDB-2 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 08:27 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

PDB2- SDG#: LEC12-05

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	67.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	12.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	1.4	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	06/17/2004 07:09	Linda C Pape	1

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Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
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X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
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W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293505

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

Collected:06/15/2004 08:47 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

PDB3- SDG#: LEC12-06

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	1. J	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	06/17/2004 07:41	Linda C Pape	1

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
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N	Spike sample not within control limits
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293506

PDB-6 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 09:40 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

PDB6- SDG#: LEC12-07

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	2.9	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	06/17/2004 08:13	Linda C Pape	1

MEMBER ACIL

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293507

PDB-7 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 09:15 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

PDB7- SDG#: LEC12-08

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	3.1	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	06/17/2004 08:44	Linda C Pape	1

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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ppb parts per billion

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Organic Qualifiers

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Inorganic Qualifiers

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293508

MW19 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 12:35 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

MW19- SDG#: LEC12-09

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	80.		1.	cfu/ml	n.a.
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	207.		0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	30.0		5.0	mg/l	1
00212	Total Dissolved Solids	n.a.	589.		19.4	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	0.054		0.040	mg/l	1
00228	Sulfate	14808-79-8	3.6	J	1.5	mg/l	5
08344	Ferrous Iron	n.a.	19.2		0.80	mg/l	100
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	150.		2.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	6,600.		300.	ug/l	500
07029	Benzene	71-43-2	N.D.		100.	ug/l	500
07030	Toluene	108-88-3	46,000.		100.	ug/l	500
07031	Ethylbenzene	100-41-4	1,400.		100.	ug/l	500
	Due to dilution of the sample made necessary by the high level of toluene, normal reporting limits were not attained.						
00554	Base Neutrals (cont)						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	4.	J	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 4293508

MW19 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 12:35 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

MW19- SDG#: LEC12-09

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	06/18/2004 10:45	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/18/2004 17:04	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/17/2004 20:03	Elaine F Stoltzfus	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/21/2004 14:59	Katherine D Webster	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/17/2004 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/18/2004 14:03	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	06/20/2004 01:10	Michelle A Bolton	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/16/2004 01:00	Daniel S Smith	100
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/22/2004 12:06	Lisa A Johnson	1
08238	BTEX (EPA 602)	EPA 602	1	06/17/2004 17:05	Linda C Pape	500
00554	Base Neutrals (cont)	EPA 625	1	06/18/2004 13:57	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/17/2004 16:30	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/16/2004 10:05	Choon Y Tian	1

Lancaster Laboratories
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293509

MW19-1 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 14:52 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

MW191 SDG#: LEC12-10

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.
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	162.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	725.	19.4	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.4	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.	0.040	mg/l	1
00228	Sulfate	14808-79-8	32.4	1.5	mg/l	5
08344	Ferrous Iron	n.a.	0.091 J	0.0080	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	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	1.7	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	11.	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	06/18/2004 10:45	Earl R Custer	n.a.

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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A	TIC is a possible aldol-condensation product
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E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293509

MW19-1 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 14:52 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

MW191 SDG#: LEC12-10

00201	Alkalinity to pH 8.3	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/18/2004 17:04	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/17/2004 20:03	Elaine F Stoltzfus	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/21/2004 15:01	Katherine D Webster	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/17/2004 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/18/2004 13:27	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	06/20/2004 01:24	Michelle A Bolton	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/16/2004 01:00	Daniel S Smith	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/22/2004 12:19	Lisa A Johnson	1
08238	BTEX (EPA 602)	EPA 602	1	06/17/2004 09:16	Linda C Pape	1
00554	Base Neutrals (cont)	EPA 625	1	06/18/2004 14:58	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/17/2004 16:30	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/16/2004 10:05	Choon Y Tian	1

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

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TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293510

MW19-2 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 16:45 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

MW192 SDG#: LEC12-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	10.	1.	cfu/ml	n.a.
	This result is an estimated count. All plates used to calculate the result are outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.					
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	335.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	6.0 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	704.	19.4	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.	0.040	mg/l	1
00228	Sulfate	14808-79-8	33.6	1.5	mg/l	5
08344	Ferrous Iron	n.a.	2.1	0.040	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	1,600.	40.	ug/l	20
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	4.8	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	29.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	1.2	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011
Additional sample volume received on 06/16/04 for TSS, TDS, Total Phos, SO4, BNs (bis(2-ethylhexyl)phthalate)

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PO Box 12425
Lancaster, PA 17605-2425
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2425 New Holland Pike • Lancaster, PA 17601

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meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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ppb parts per billion

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X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293510

MW19-2 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/15/2004 16:45 by JO

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

MW192 SDG#: LEC12-11

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	06/18/2004 10:45	Earl R Custer	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/18/2004 17:04	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/17/2004 20:03	Elaine F Stoltzfus	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/21/2004 15:02	Katherine D Webster	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/17/2004 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/18/2004 15:29	Kyle W Eckenroad	1
00228	Sulfate	EPA 300.0	1	06/20/2004 02:07	Michelle A Bolton	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/16/2004 01:00	Daniel S Smith	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/22/2004 13:40	Lisa A Johnson	20
08238	BTEX (EPA 602)	EPA 602	1	06/17/2004 14:25	Linda C Pape	1
00554	Base Neutrals (cont)	EPA 625	1	06/18/2004 15:59	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/17/2004 16:30	Elia R Botrous	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/18/2004 09:00	Choon Y Tian	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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m3	cubic meter(s)	**ul**	microliter(s)

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> greater than

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ppb parts per billion

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4293511

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 06/15/2004 20:25
Reported: 06/25/2004 at 16:00
Discard: 07/26/2004

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

TBLEC SDG#: LEC12-12TB

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	06/17/2004 05:02	Linda C Pape	1

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

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meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 900102
Reported: 06/25/04 at 04:00 PM

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: 04168109101A	Sample number(s): 4293508-4293509							
Total Phosphorus as P (water)	N.D.	0.040	mg/l	102		90-110		
Batch number: 04168834401A	Sample number(s): 4293508-4293510							
Ferrous Iron	N.D.	0.0080	mg/l	100		95-105		
Batch number: 04168A36A	Sample number(s): 4293500-4293511							
Total Xylenes	N.D.	0.6	ug/l	95	96	82-120	1	30
Benzene	N.D.	0.2	ug/l	98	99	79-123	1	30
Toluene	N.D.	0.2	ug/l	97	98	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	95	96	81-119	1	30
Batch number: 041690015A	Sample number(s): 4293508-4293510							
Methane	N.D.	2.0	ug/l	103		80-120		
Batch number: 04169021202A	Sample number(s): 4293508-4293510							
Total Dissolved Solids	N.D.	9.7	mg/l	102		80-120		
Batch number: 04169022101A	Sample number(s): 4293508-4293510							
Ammonia Nitrogen	N.D.	0.11	mg/l	98	98	91-100	0	1
Batch number: 04169WAB625	Sample number(s): 4293508-4293510							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	91	96	74-114	6	30
Batch number: 04170020201A	Sample number(s): 4293508-4293510							
Alkalinity to pH 4.5				99		98-103		
Batch number: 04170020602B	Sample number(s): 4293508-4293510							
Total Suspended Solids	N.D.	3.0	mg/l	102		55-132		
Batch number: 04170109101A	Sample number(s): 4293510							
Total Phosphorus as P (water)	N.D.	0.040	mg/l	105		90-110		
Batch number: 04171459301B	Sample number(s): 4293508-4293510							
Sulfate	N.D.	0.30	mg/l	100		89-110		
Batch number: 04173106103A	Sample number(s): 4293508-4293510							

*- Outside of specification
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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 900102
Reported: 06/25/04 at 04:00 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrate Nitrogen	N.D.	0.040	mg/l	102		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: 04168109101A	Sample number(s): 4293508-4293509								
Total Phosphorus as P (water)	102		90-110			0.071	0.074	4* (1)	3
Batch number: 04168834401A	Sample number(s): 4293508-4293510								
Ferrous Iron	94	98	83-111	3	5	19.2	18.7	3 (1)	6
Batch number: 04168A36A	Sample number(s): 4293500-4293511								
Total Xylenes	88		78-130						
Benzene	93		67-136						
Toluene	91		78-129						
Ethylbenzene	89		75-133						
Batch number: 041690015A	Sample number(s): 4293508-4293510								
Methane	75	75	67-120	0	20				
Batch number: 04169021202A	Sample number(s): 4293508-4293510								
Total Dissolved Solids	99	102	60-140	1	5	2,710.	2,750.	1	5
Batch number: 04169022101A	Sample number(s): 4293508-4293510								
Ammonia Nitrogen						6.5	6.5	0	2
Batch number: 04170020201A	Sample number(s): 4293508-4293510								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	101	101	64-130	0	2	139.	140.	1	4
Batch number: 04170020602B	Sample number(s): 4293508-4293510								
Total Suspended Solids						30.0	30.7	2 (1)	24
Batch number: 04170109101A	Sample number(s): 4293510								
Total Phosphorus as P (water)	101		90-110			N.D.	N.D.	200* (1)	3
Batch number: 04171459301B	Sample number(s): 4293508-4293510								
Sulfate	101		90-110			32.4	32.0	2	3
Batch number: 04173106103A	Sample number(s): 4293508-4293510								
Nitrate Nitrogen	109		90-110			N.D.	N.D.	0 (1)	2

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Quality Control Summary

Client Name: RMT, Inc. Group Number: 900102
Reported: 06/25/04 at 04:00 PM

Surrogate Quality Control

Analysis Name: BTEX (EPA 602)
Batch number: 04168A36A

	Trifluorotoluene-P
4293500	103
4293501	103
4293502	104
4293503	101
4293504	101
4293505	102
4293506	100
4293507	101
4293508	98
4293509	102
4293510	101
4293511	102
Blank	101
LCS	101
LCSD	102
MS	102
Limits:	66-136

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 041690015A

	Propene
4293508	105
4293509	91
4293510	109
Blank	106
LCS	106
MS	97
MSD	101
Limits:	68-113

Analysis Name: Base Neutrals
Batch number: 04169WAB625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4293508	80	84	76
4293509	85	83	82
4293510	96	87	78
Blank	83	81	84
LCS	88	82	83
LCSD	88	85	86

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Quality Control Summary

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Reported: 06/25/04 at 04:00 PM

Surrogate Quality Control

Limits:	50-124	64-122	33-149

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Analysis Request, Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 90102 Sample # 4293500-11

COC # 0055808

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

(1)
Client: RMT, Inc. Acct. #:
Project Name/#: L.E. Carpenter PWSID #:
Project Manager: Nick Clevett P.O.#:
Sampler: JO/BM Quote #:
Name of state where samples were collected: New Jersey

For Lab Use Only
FSC:
SCR #: 1191310

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX	DEHP	sulfate, nitrate, ammonia, phosphorus, alkalinity, fecal coliform, methane, TDS, TSS	heterotrophic plate count					Remarks
PDB-4	6/14/04	1400	X			X		3	X								temp 5°C
PDB-5	6/14/04	1410	X			X		3	X								[illegible] 6/15/04
PDB-FB	6/15/04	820	X			X		3	X								
PDB-1	↓	823	↓			↓		3	X								
PDB-2		827						3	X								
PDB-3		847						2	X								
PDB-6		940	X			X		3	X								
PDB-7		915	X			X		3	X								
MW19		1235	X			X		16	X	X	X			X			
MW19-1	↓	1452	X			X		16	X	X	X			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
[signature]	6-10-04	1:24	[signature]	6/13/04	2315
[signature]	6/15/04	17:40	[signature]	6/15/04	17:40
[signature]	6/15/04	2025			
			Jessica Bm	6/15/04	2025

Analysis Request, Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 900102 Sample # 4293500-11

COC # 0055809

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

(1)
Client: RMT, Inc. Acct. #:
Project Name/#: LE Carpenter PWSID #:
Project Manager: Nick Clevett P.O.#:
Sampler: JO/BM Quote #:
Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #: 7191310

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Bottles	BTEX	DEHP	MNA list: sulfate, nitrate, ammonia, phosphorus, alkalinity, ferrous, methane, TSS, TDS			Heterotrophic plate count				Remarks
MW19-2	6/15/04	1645	X			X		16	X	X	X			X				temp 5°C
trip blank						X		1	X	X								RMC 6/15/04

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(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
[signature]	6/10/04	1340	[signature]	6/13/04	2315
[signature]	6/15/04	1700	[signature]	6/15/04	17:00
[signature]	6/15/04	20:20			
			Jessica [signature]	6/15/04	2025

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Lancaster Laboratories

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 900513. Samples arrived at the laboratory on Thursday, June 17, 2004. The PO# for this group is 6527.02.

Client Description	Lancaster Labs Number
MW19-6 Grab Water Sample	4295862
MW19-8 Grab Water Sample	4295863
MW19-10 Grab Water Sample	4295864
MW-25(R) Grab Water Sample	4295865
Trip Blank Water Sample	4295866

METHODOLOGY

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

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
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ppb parts per billion

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U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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Lancaster Laboratories

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

Respectfully Submitted,

Tina L. Thoman
Senior Chemist/Coordinator

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

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295862

MW19-6 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 11:45 by JO

Account Number: 09322

Submitted: 06/17/2004 19:30
Reported: 06/30/2004 at 12:44
Discard: 07/31/2004

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

M196- SDG#: LEC13-04

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	35.		1.	cfu/ml	n.a.
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	151.		0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	10.4	J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,670.		38.8	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.6		0.040	mg/l	1
	Matrix QC was performed on this sample for the nitrate analysis. Please see the attached QC Summary report for the parameter showing a matrix bias.						
00221	Ammonia Nitrogen	7664-41-7	N.D.		0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.		0.040	mg/l	1
00228	Sulfate	14808-79-8	37.3		1.5	mg/l	5
08344	Ferrous Iron	n.a.	1.8		0.040	mg/l	5
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	140.		2.0	ug/l	1
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	1.2	J	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	1.1		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	0.4	J	0.2	ug/l	1
00554	Base Neutrals (cont)						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	3.	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

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

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295862

MW19-6 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 11:45 by JO

Account Number: 09322

Submitted: 06/17/2004 19:30
Reported: 06/30/2004 at 12:44
Discard: 07/31/2004

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

M196- SDG#: LEC13-04

00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	06/21/2004 10:45	Marlaina E Kohler	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/21/2004 13:30	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/21/2004 11:20	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/22/2004 09:38	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/18/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/22/2004 13:56	Katherine D Webster	1
00228	Sulfate	EPA 300.0	1	06/24/2004 13:13	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/17/2004 23:15	Daniel S Smith	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/22/2004 20:19	Lisa A Johnson	1
8238	BTEX (EPA 602)	EPA 602	1	06/22/2004 05:40	Linda C Pape	1
00554	Base Neutrals (cont)	EPA 625	1	06/21/2004 20:53	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/20/2004 09:15	Joseph S Feister	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/21/2004 14:15	Nancy J Shoop	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295863

MW19-8 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 10:15 by JO

Account Number: 09322

Submitted: 06/17/2004 19:30
Reported: 06/30/2004 at 12:44
Discard: 07/31/2004

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

M198- SDG#: LEC13-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	45.	1.	cfu/ml	n.a.
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	143.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	14.4	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,120.	38.8	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	0.15	0.040	mg/l	1
00228	Sulfate	14808-79-8	22.8	1.5	mg/l	5
08344	Ferrous Iron	n.a.	13.1	0.40	mg/l	50
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	79.	2.0	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
00554	Base Neutrals (cont)					
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	06/21/2004 10:45	Marlaina E Kohler	n.a.

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295863

MW19-8 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 10:15 by JO

Account Number: 09322

Submitted: 06/17/2004 19:30
Reported: 06/30/2004 at 12:44
Discard: 07/31/2004

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

M198- SDG#: LEC13-05

00201	Alkalinity to pH 8.3	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/21/2004 13:30	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/21/2004 11:20	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/22/2004 09:36	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/18/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/22/2004 13:57	Katherine D Webster	1
00228	Sulfate	EPA 300.0	1	06/24/2004 13:29	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/17/2004 23:15	Daniel S Smith	50
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/22/2004 20:33	Lisa A Johnson	1
08238	BTEX (EPA 602)	EPA 602	1	06/21/2004 22:08	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/21/2004 21:47	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/20/2004 09:15	Joseph S Feister	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/21/2004 14:15	Nancy J Shoop	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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TNTC	Too Numerous To Count	**MPN**	Most Probable Number
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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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Organic Qualifiers

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C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295864

MW19-10 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 08:55 by JO

Account Number: 09322

Submitted: 06/17/2004 19:30
Reported: 06/30/2004 at 12:44
Discard: 07/31/2004

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

M1910 SDG#: LEC13-06

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	34.		1.	cfu/ml	n.a.
00201	Alkalinity to pH 8.3	n.a.	N.D.		0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	109.		0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	6.8	J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	563.		19.4	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.		0.040	mg/l	1
00228	Sulfate	14808-79-8	18.0		1.5	mg/l	5
08344	Ferrous Iron	n.a.	1.1		0.032	mg/l	4
07105	Volatile Headspace Hydrocarbon						
07106	Methane	74-82-8	2.6	J	2.0	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
00554	Base Neutrals (cont)						
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	06/21/2004 10:45	Marlaina E Kohler	n.a.

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ug	microgram(s)	**mg**	milligram(s)
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ppb parts per billion

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Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295864

MW19-10 Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 08:55 by JO

Account Number: 09322

Submitted: 06/17/2004 19:30
Reported: 06/30/2004 at 12:44
Discard: 07/31/2004

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

M1910 SDG#: LEC13-06

00201	Alkalinity to pH 8.3	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/18/2004 17:17	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/21/2004 13:30	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/21/2004 11:20	Anne L Kuenzli	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/22/2004 09:35	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/18/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/22/2004 13:58	Katherine D Webster	1
00228	Sulfate	EPA 300.0	1	06/24/2004 13:45	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/17/2004 23:15	Daniel S Smith	4
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/22/2004 20:46	Lisa A Johnson	1
08238	BTEX (EPA 602)	EPA 602	1	06/22/2004 06:12	Linda C Pape	1
08554	Base Neutrals (cont)	EPA 625	1	06/22/2004 01:22	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/20/2004 09:15	Joseph S Feister	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/21/2004 14:15	Nancy J Shoop	1

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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ppb parts per billion

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295865

MW-25(R) Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 14:50 by JO

Account Number: 09322

Submitted: 06/17/2004 19:30
Reported: 06/30/2004 at 12:45
Discard: 07/31/2004

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

M25R- SDG#: LEC13-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	220.	1.	cfu/ml	n.a.
	The count is estimated due to the presence of spreader-type colony growth on one or more of the plates used to enumerate the sample.					
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	204.	0.41	mg/l as CaCO3	1
00206	Total Suspended Solids	n.a.	37.6	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	341.	19.4	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	0.056	0.040	mg/l	1
00228	Sulfate	14808-79-8	2.9 J	1.5	mg/l	5
08344	Ferrous Iron	n.a.	8.9	0.16	mg/l	20
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	1,100.	40.	ug/l	20
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
00554	Base Neutrals (cont)					
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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717-656-2300 Fax: 717-656-2681

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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

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Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295865

MW-25(R) Grab Water Sample
L.E. Carpenter, NJ

Collected:06/17/2004 14:50 by JO

Account Number: 09322

Submitted: 06/17/2004 19:30
Reported: 06/30/2004 at 12:45
Discard: 07/31/2004

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

M25R- SDG#: LEC13-07

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	06/21/2004 10:45	Marlaina E Kohler	n.a.
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/19/2004 16:36	Justin M Bowers	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/19/2004 16:36	Justin M Bowers	1
00206	Total Suspended Solids	EPA 160.2	1	06/23/2004 14:39	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	2	06/24/2004 07:42	Susan A Engle	1
00220	Nitrate Nitrogen	EPA 353.2	1	06/22/2004 20:02	Venia B McFadden	1
00221	Ammonia Nitrogen	EPA 350.2	1	06/22/2004 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	06/22/2004 13:59	Katherine D Webster	1
00228	Sulfate	EPA 300.0	1	06/29/2004 09:20	Shannon L Phillips	5
08344	Ferrous Iron	SM 18, 3500-Fe D (modified)	1	06/17/2004 23:15	Daniel S Smith	20
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	06/23/2004 15:33	Lisa A Johnson	20
08238	BTEX (EPA 602)	EPA 602	1	06/22/2004 06:44	Linda C Pape	1
00554	Base Neutrals (cont)	EPA 625	1	06/22/2004 08:00	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/20/2004 09:15	Joseph S Feister	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	06/21/2004 14:15	Nancy J Shoop	1

Lancaster Laboratories
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295866

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 06/17/2004 19:30
Reported: 06/30/2004 at 12:45
Discard: 07/31/2004

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

TBLC- SDG#: LEC13-08TB

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	06/21/2004 20:31	K. Robert Caulfeild-James	1

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 900513
Reported: 06/30/04 at 12:45 PM

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: 04169834401A	Sample number(s): 4295862-4295865							
Ferrous Iron	N.D.	0.0080	mg/l	101		95-105		
Batch number: 04170020201A	Sample number(s): 4295862-4295864							
Alkalinity to pH 4.5				99		98-103		
Batch number: 04170022101A	Sample number(s): 4295862-4295864							
Ammonia Nitrogen	N.D.	0.11	mg/l	98	98	91-100	0	1
Batch number: 04171020201A	Sample number(s): 4295865							
Alkalinity to pH 4.5				100		98-103		
Batch number: 04171WAA625	Sample number(s): 4295862-4295865							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	102	99	74-114	3	30
Batch number: 04173020601B	Sample number(s): 4295862-4295864							
Total Suspended Solids	N.D.	3.0	mg/l	97		55-132		
Batch number: 04173021201A	Sample number(s): 4295862-4295864							
Total Dissolved Solids	N.D.	9.7	mg/l	99		80-120		
Batch number: 04173109101A	Sample number(s): 4295862-4295864							
Total Phosphorus as P (water)	N.D.	0.040	mg/l	102		90-110		
Batch number: 04173109101B	Sample number(s): 4295865							
Total Phosphorus as P (water)	N.D.	0.040	mg/l	102		90-110		
Batch number: 04173A36A	Sample number(s): 4295862-4295866							
Total Xylenes	N.D.	0.6	ug/l	84	84	82-120	0	30
Benzene	N.D.	0.2	ug/l	89	89	79-123	0	30
Toluene	N.D.	0.2	ug/l	87	88	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	84	85	81-119	1	30
Batch number: 041740021A	Sample number(s): 4295862-4295865							
Methane	N.D.	2.0	ug/l	103		80-120		
Batch number: 04174022101A	Sample number(s): 4295865							

*- Outside of specification
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Lancaster Laboratories
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Reported: 06/30/04 at 12:45 PM

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Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ammonia Nitrogen	N.D.	0.11	mg/l	98	98	91-100	0	1
Batch number: 04174106101A	Sample number(s): 4295862-4295864							
Nitrate Nitrogen	N.D.	0.040	mg/l	103		89-110		
Batch number: 04174106107B	Sample number(s): 4295865							
Nitrate Nitrogen	N.D.	0.040	mg/l	105		89-110		
Batch number: 04175020602A	Sample number(s): 4295865							
Total Suspended Solids	N.D.	3.0	mg/l	88		55-132		
Batch number: 04176021201A	Sample number(s): 4295865							
Total Dissolved Solids	N.D.	9.7	mg/l	100		80-120		
Batch number: 04176401501A	Sample number(s): 4295862-4295864							
Sulfate	0.99 J	0.30	mg/l	105		89-110		
Batch number: 04180459302B	Sample number(s): 4295865							
Sulfate	0.39 J	0.30	mg/l	101		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: 04169834401A	Sample number(s): 4295862-4295865								
Ferrous Iron	96	100	83-111	2	5	13.1	13.1	0	6
Batch number: 04170020201A	Sample number(s): 4295862-4295864								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	101	101	64-130	0	2	139.	140.	1	4
Batch number: 04170022101A	Sample number(s): 4295862-4295864								
Ammonia Nitrogen						1.7	1.7	0 (1)	2
Batch number: 04171020201A	Sample number(s): 4295865								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	99	98	64-130	0	2	204.	205.	0	4
Batch number: 04173020601B	Sample number(s): 4295862-4295864								
Total Suspended Solids						42.0	45.0	7 (1)	24
Batch number: 04173021201A	Sample number(s): 4295862-4295864								
Total Dissolved Solids	102	98	60-140	2	5	1,170.	1,150.	2	5

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 900513
Reported: 06/30/04 at 12:45 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: 04173109101A	Sample number(s): 4295862-4295864								
Total Phosphorus as P (water)	97		90-110			0.52	0.52	1	3
Batch number: 04173109101B	Sample number(s): 4295865								
Total Phosphorus as P (water)	95		90-110			0.057	0.055	4* (1)	3
Batch number: 04173A36A	Sample number(s): 4295862-4295866								
Total Xylenes	97		78-130						
Benzene	107		67-136						
Toluene	104		78-129						
Ethylbenzene	100		75-133						
Batch number: 041740021A	Sample number(s): 4295862-4295865								
Methane	98	112	67-120	8	20				
Batch number: 04174022101A	Sample number(s): 4295865								
Ammonia Nitrogen						28.9	28.9	0	2
Batch number: 04174106101A	Sample number(s): 4295862-4295864								
Nitrate Nitrogen	94		90-110			1.6	1.5	4*	2
Batch number: 04174106107B	Sample number(s): 4295865								
Nitrate Nitrogen	98		90-110			3.5	3.5	1	2
Batch number: 04175020602A	Sample number(s): 4295865								
Total Suspended Solids						496.	500.	1 (1)	24
Batch number: 04176021201A	Sample number(s): 4295865								
Total Dissolved Solids	101	102	60-140	1	5	622.	631.	1	5
Batch number: 04176401501A	Sample number(s): 4295862-4295864								
Sulfate	94		90-110			18.2	18.5	2 (1)	3
Batch number: 04180459302B	Sample number(s): 4295865								
Sulfate	101		90-110			22.0	21.2	4* (1)	3

Surrogate Quality Control

Analysis Name: Base Neutrals
Batch number: 04171WAA625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4295862	76	85	82
4295863	79	81	84

*- 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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PO Box 12425
Lancaster, PA 17605-2425
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2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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> greater than

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ppb parts per billion

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X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 900513
Reported: 06/30/04 at 12:45 PM

Surrogate Quality Control

4295864	87	84	84
4295865	89	85	80
Blank	73	77	82
LCS	82	83	90
LCSD	77	86	86
Limits:	50-124	64-122	33-149

Analysis Name: BTEX (EPA 602)
Batch number: 04173A36A

	Trifluorotoluene-P
4295862	102
4295863	101
4295864	102
4295865	103
4295866	101
Blank	100
LCS	102
LCSD	100
MS	102
Limits:	66-136

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 041740021A

	Propene
4295862	97
4295863	89
4295864	104
4295865	104
Blank	110
LCS	108
MS	100
MSD	112
Limits:	68-113

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Analysis Request Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 900513 Sample # 4295862-66 **COC # 0055806**

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

(1)
Client: RMT, Inc Acct. #:
Project Name/#: LE Carpenter/6527.02 PWSID #:
Project Manager: Nick Clevett P.O.#:
Sampler: JO/BM 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	BTEX	DEHP	MNA: NH3, 8015B	NO2, NO3, TN	Fe2+, SO4, TDS	TSS, AMK	Heterotrophic Plate Count		Remarks
MW19-6	6/17/04	1145	X			X		15	X	X	X						temp 1-3°C
MW19-8	↓	1015	↓			X		16	↓	↓	↓						amc 6/17/04
MW19-10	↓	855	↓			X		15	↓	↓	↓						
MW25(R)	↓	1450	↓			X		15	↓	↓	↓						

(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
[signature]	6/17/04	1616	[signature]	6/17/04	1616
[signature]	6/17/04	1930			
			Jessica Bn	6/17/04	1930

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Lancaster Laboratories

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 900480. Samples arrived at the laboratory on Thursday, June 17, 2004. The PO# for this group is 6527.02.

Client Description	Lancaster Labs Number
Trip Blank Water Sample	4295700

METHODOLOGY

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

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

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

Respectfully Submitted,

Victoria M Martell

Victoria M. Martell
Chemist

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4295700

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 06/17/2004 15:25
Reported: 06/22/2004 at 16:55
Discard: 07/23/2004

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

TBLCA SDG#: LEC13-03TB

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	06/21/2004 19:59	K. Robert Caulfeild-James	1

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 900480
Reported: 06/22/04 at 04:55 PM

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: 04173A36A	Sample number(s): 4295700							
Total Xylenes	N.D.	0.6	ug/l	84	84	82-120	0	30
Benzene	N.D.	0.2	ug/l	89	89	79-123	0	30
Toluene	N.D.	0.2	ug/l	87	88	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	84	85	81-119	1	30

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: 04173A36A	Sample number(s): 4295700								
Total Xylenes	97		78-130						
Benzene	107		67-136						
Toluene	104		78-129						
Ethylbenzene	100		75-133						

Surrogate Quality Control

Analysis Name: BTEX (EPA 602)
Batch number: 04173A36A

	Trifluorotoluene-P
4295700	101
Blank	100
LCS	102
LCSD	100
MS	102
Limits:	66-136

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C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

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Organic Qualifiers

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D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 06/22/04 at 04:55 PM

Group Number: 900480

*- 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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2425 New Holland Pike • Lancaster, PA 17601

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umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
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Analysis Request [illegible]nvironmental Services Chain of Cu[illegible]ody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 900480 Sample # 4295700

COC # 0055807

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

(1)
Client: RMT, Inc Acct. #:
Project Name/#: LECarpenter/6527.02 PWSID #:
Project Manager: Nick Clevett P.O.#:
Sampler: JO/BM 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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BTEX	DEHP	MNA: NH_3, 8015B, NO_3, NO_2, TP	Fe 2+, SO_4, TSS, Heterotrophic Plate Count	TDS	Alk						Remarks
MW-19-9D	6/16/04	1840	X			X	4	X	X	[illegible]									
MW19-5	6/16/04	1945	X			X	16	X	X	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
[signature]	6/17/04	902	[signature]	6/17/04	0915
[signature]	6/17/04	1525			
			[signature]	6/17/04	1525

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Appendix F
MW-19-10 Boring Log & Soil Data

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-19-10

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter	5/17/04	5/17/04	6527.05

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Summit Drilling	Air Rotary		---	20.0	4.25

Boring Location:	Personnel	Drilling Equipment:
	Logged By - J. Overvoorde Driller - J. Vogl	CME 95

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Wharton	Morris	New Jersey	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
1 CYCL				dark brown/ black, topsoil, dry, loose, some fine gravels	SP			
			5	med brown, fine- course sand with gravels, loose, damp to saturated	SW			TOC dry sample
2 CYCL			10	med to dark brown, course sand with medium to large gravels, 2-3" cobbles, saturated. loose, resembles river sediments	SW			groundwater TOC wet sample
3 CYCL			15	med to dark brown, med to very coarse sand with gravels, saturated, loose	SW			
			20					

Signature:

Firm: Grand Rapids, MI 616-975-1098
2025 East Beltline Ave. Suite 402 Grand Rapids, MI 49546 Fax 616-980-2398

Checked By: _____

SOIL BORING WELL CONSTRUCTION LOG 6553GPJ.GPJ RMT_CORP.GDT 7/19/04

Lancaster Laboratories

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 896385. Samples arrived at the laboratory on Tuesday, May 18, 2004. The PO# for this group is 6527.02.

Client Description	Lancaster Labs Number
MW-19-10(dry) Soil Sample	4275277
MW-19-10(wet) Soil Sample	4275278

1 COPY TO RMT, Inc. Attn: Mr. Nicholas J. Clevett

Questions? Contact your Client Services Representative
Jeffrey S Moyer at (717) 656-2300.

Respectfully Submitted,

Erik J. Frederiksen
Group Leader

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4275277

MW-19-10(dry) Soil Sample
L.E. Carpenter

Collected:05/17/2004 10:00 by JO

Account Number: 09322

Submitted: 05/18/2004 09:05
Reported: 05/25/2004 at 15:26
Discard: 06/02/2004

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

DRYXX SDG#: LEC11-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	13.4	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
02079	TOC Solids/Sludges Combustion	n.a.	2,570.	177.	mg/kg	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/20/2004 17:46	Scott W Freisher	1
02079	TOC Solids/Sludges Combustion	EPA 415.1, modified	1	05/24/2004 11:45	Timothy M Petree	1

MEMBER ACIL

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4275278

MW-19-10(wet) Soil Sample
L.E. Carpenter

Collected:05/17/2004 10:10 by JO

Account Number: 09322

Submitted: 05/18/2004 09:05
Reported: 05/25/2004 at 15:26
Discard: 06/02/2004

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

19X10 SDG#: LEC11-02*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	15.4		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02079	TOC Solids/Sludges Combustion	n.a.	298.	J	134.	mg/kg	1
	The quantitation limit for TOC was increased due to the nature of the sample matrix.						

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	05/20/2004 17:46	Scott W Freisher	1
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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc.
Reported: 05/25/04 at 03:26 PM

Group Number: 896385

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: 04141820003A	Sample number(s): 4275277-4275278							
Moisture				99		99-101		
Batch number: 04142011131B	Sample number(s): 4275277-4275278							
TOC Solids/Sludges Combustion	N.D.	60.0	mg/kg	94		65-127		

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: 04141820003A	Sample number(s): 4275277-4275278								
Moisture						14.5	13.3	9	15
Batch number: 04142011131B	Sample number(s): 4275277-4275278								
TOC Solids/Sludges Combustion	103		71-136			16,500.	16,600.	1 (1)	14

*- 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.

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

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2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

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

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Analysis Request Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 8963-15 Sample # 4275277-78 **COC # 0017650**

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

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

For Lab Use Only
FSC:
SCR #: 1175923

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

Sample Identification	Date Collected	Time Collected							TOC / moisture								Remarks
MW-19-10 (dry)	5/17/04	10:00			X			1	X								
MW-19-10 (wet)	5/17/04	10:10			X			1	X								

1.00 HZC 5/18/04.

(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)

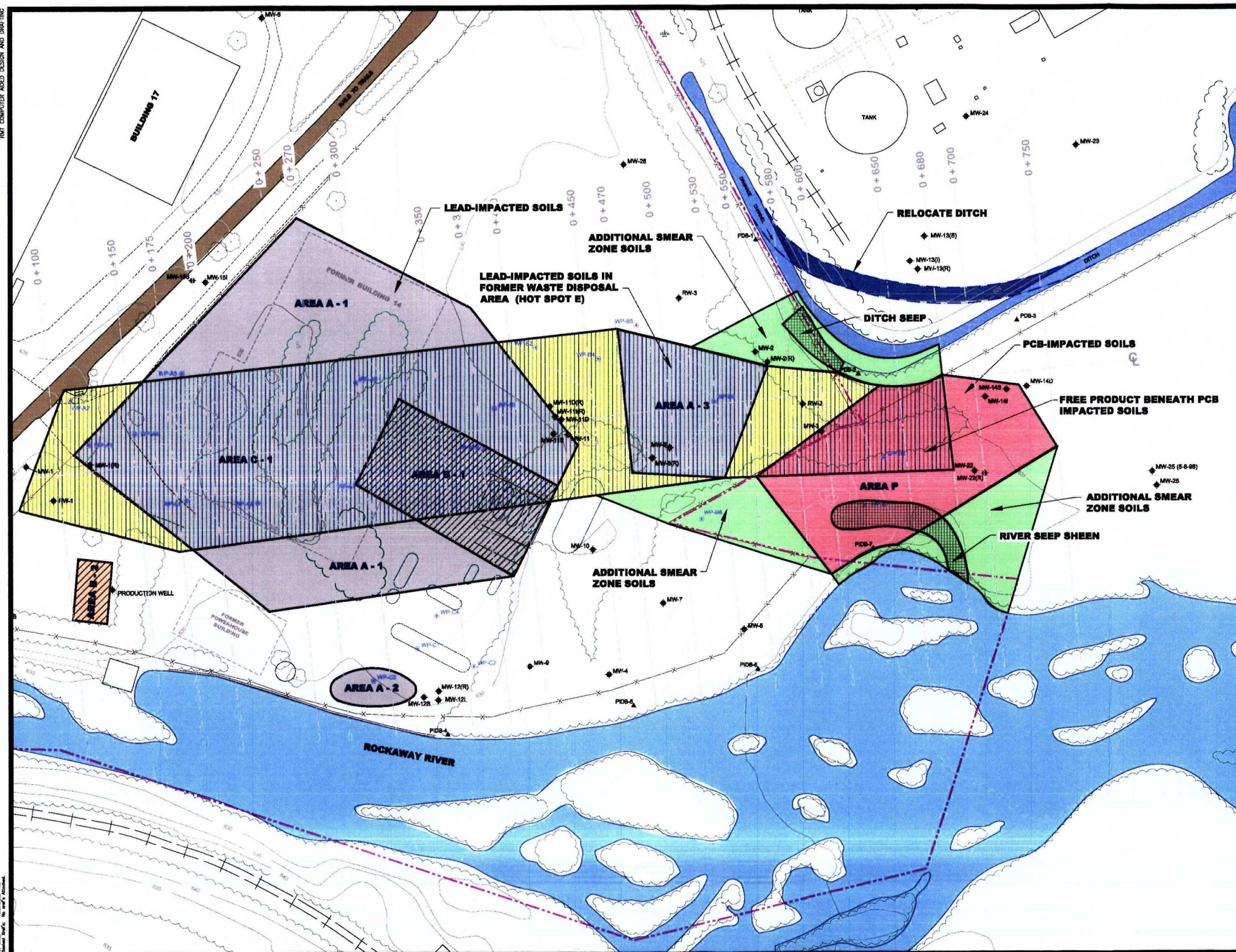
Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	3-14-03	0920	Jennifer Overvoorde	5/17/04	3:05
			[signature] Kathy Binkley	5-18-04	0905

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Appendix G
Revised Figure 8 from the RAWP

RMT COMPUTER AIDED DESIGN AND DRAFTING



LEGEND

- APPROXIMATE PROPERTY LINE
- FENCE LINE
- TREES
- SOILS > 400mg/kg LEAD
- PROCESS WASTE AFFECTED SOILS
- COPPER IMPACTED PROCESS WASTE SOILS
- CLEAN SOILS
- PCB IMPACTED SOILS (INCLUDES FREE PRODUCT)
- UNDERLYING FREE PRODUCT SOILS AT DEPTH
- ADDITIONAL SMEAR ZONE SOILS PROPOSED FOR EXCAVATION AS A RESULT OF RECENT PRODUCT RELEASES AND SECOND QUARTER PCB SAMPLING RESULTS AND GROUNDWATER MONITORING OBSERVATIONS

AREA A-1 LEAD IMPACTED SOILS > 400 mg/kg LEAD AROUND FORMER BUILDING 14

AREA A-2 ISOLATED HOT SPOT LEAD > 400 mg/kg

AREA A-3 SOILS > 400 mg/kg LEAD IN FORMER WASTE DISPOSAL AREA (HOT SPOT E)

AREA B-1 AREA CONTAINING MULTI COLORED PROCESS WASTE

AREA B-2 AREA CONTAINING COPPER IMPACTED PROCESS WASTE

AREA C-1 FREE PRODUCT SMEAR ZONE SOILS

AREA P PCB IMPACTED SOILS

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2785-03.DWG. DATED 02-14-02.

N

0 30' 60' 90' 120'

SCALE IN FEET

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

LE CARPENTER
WHARTON, NEW JERSEY

MODIFIED REMEDIATION AREAS

DRAWN BY: SJL	SCALE:	PROJECT NO. 6527.01	
CHECKED BY: JJD	SHOWN	FILE NO. 6527 MRA.DWG	
APPROVED BY:	DATE PRINTED:	FIGURE 1	
DATE: JULY 2004			

RMT INC.

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

FILE INFO
Drawing Name: J:\6527\01\6527 MRA.dwg
Operator: Steve
Drawing Size: 1280x800 Size
Plot Date: Tuesday, July 27, 2004
Plot Time: 10:37:26AM
Revised Date/Time: By and Attorney

Layout Name: Modified Remediation Areas