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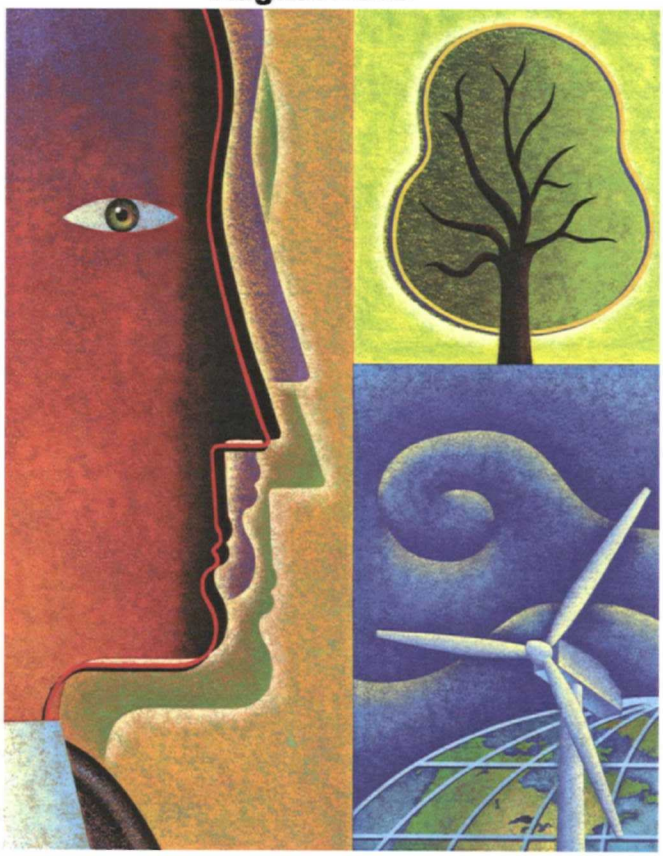
Remedial Action Progress Report (RAPR)

2nd Quarter 2008 [2Q08]

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

USEPA ID No. NJD002168748

August 2008



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Section 1
Introduction

RMT, Inc. (RMT), on behalf of our client, has prepared this Remedial Action Progress Report (RAPR) for the L.E. Carpenter and Company (LEC) ("site") located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). Quarterly monitoring events are performed, and associated progress reports completed and submitted to New Jersey Department of Environmental Protection (NJDEP) to comply with paragraph 35 of the 1986 Administrative Consent Order (ACO) issued to LEC by the NJDEP. We provide a summary of activities completed during the second quarter of 2008 (2Q08), including but not limited to, (1) the continued quarterly Contaminant of Concern (COC) and Monitored Natural Attenuation (MNA) groundwater monitoring of both the MW19/Hot Spot 1 area and source reduction area, (2) surface water quality assessments of the drainage ditch and Rockaway River, and (3) hydrogeologic and hydrologic assessments of shallow site groundwater and adjacent surface water bodies, (4) installation of remaining five monitoring wells completing the implementation of the Post Remedial Monitoring Plan (PRMP).

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 2Q08:

- Installation of five (5) wetland monitoring wells according to the approved PRMP (Reference Sections 3 & 4).
- Abandonment of MW-19-10, which had been damaged during winter snow removal.
- Quarterly groundwater and surface water monitoring within the MW19/Hot Spot 1 area, the source reduction area, the wetland area, and adjacent surface water bodies (*i.e.*, Rockaway River and drainage ditch) as required under the 1986 ACO, and as proposed in the PRMP and other correspondence within NJDEP (Reference Sections 2, 3, 4, and 5).
- Began preparation of a Remedial Investigation Workplan that will focus on gathering the data necessary to institute measures that will prevent discharge of groundwater contamination into the ditch and Rockaway River (per NJDEP letter dated June 19, 2008).

Discussion of these activities is provided in the referenced sections.

Section 2
MW-19/Hot Spot 1 Area of Concern (AOC)

A comprehensive investigative and remedial history of the MW19/Hot Spot 1 AOC is presented in the 4th Quarter 2007 RAPR. As outlined in the 4Q07 RAPR, the MW19/Hot Spot 1 AOC has been under investigation since the early 1990's. Activities began with subsurface investigation and subsequent removal of two underground storage tanks (USTs) that provided bulk liquid waste storage for former operations in Building 9. Long-term monitoring and investigation of groundwater quality within the area, and a soil gas (2006) investigation, showed that naturally occurring biodegradation is occurring, resulting in a stable dissolved phase "plume" that is slowly shrinking over time, and does not pose a risk to the residences on the north side of Ross Street. Nevertheless, RMTs 2007 investigation of residual sources indicates that reductions in concentrations via natural attenuation could take many years before achieving appropriate cleanup levels. Therefore, RMT, on behalf of LEC, prepared a Remedial Action Selection Report (RASR) and submitted this to NJDEP in September 2007. The RASR outlined combination of vadose zone excavation coupled with mechanical blending of chemical oxidants in the saturated zone to remediate source materials identified in the 2007 investigation. As described below in Section 6.4 the RASR is currently under NJDEP and USEPA review. Quarterly groundwater quality and flow monitoring and evaluation continue as described in the following sections.

2.1 Sampling Methodology

RMT conducted the 2Q08 groundwater monitoring activities May 5 through May 9, 2008. Groundwater monitoring was performed in accordance with the procedures contained in the NJDEP's *Field Sampling Procedures Manual* dated May 1992 (Revised August 2005), and methodologies outlined in our May 2001 Monitored Natural Attenuation (MNA) work plan. The MNA work plan was approved by NJDEP on January 24, 2002. A site plan showing current conditions and locations of the monitoring points sampled this quarter are shown on Figure 2.

Three sample duplicates, trip blanks, a field (atmosphere) blank, two matrix spike/matrix spike duplicates (MS/MSDs), and three rinsate blanks were collected to satisfy Quality Assurance / Quality Control (QA/QC) requirements outlined in the revised Quality Assurance Project Plan (QAPP) presented as Appendix C in the Post Remedial Monitoring Plan (PRMP).

The trip blanks were prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for BTEX. The duplicates were collected from surface water location SW-R-3 (Dup-01), monitoring well MW-19-4 (Dup-02), and MW-30I (Dup-03), and were analyzed for BTEX and bis (2-ethylhexyl)

phthalate (DEHP). Dup-02 and Dup-03 were also analyzed for MNA parameters. Rinsate blank RB-02 and RB-03 were collected by circulating distilled water through the cleaned bladder pump assemblies to verify that decontamination procedures were adequate. Rinsate blank RB-01 was collected by circulating distilled water in a clean stainless steel sampling scoop. Any sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox) and clean water wash followed by a distilled water rinse. The field (atmosphere) blank was taken by opening a bottle of unpreserved distilled water, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory. RMT submitted all samples to Environmental Science Corporation (ESC), located in Mt. Juliet, Tennessee for BTEX, DEHP, and MNA parameter analyses (State of New Jersey Lab Certification No. TN002).

2.2 Groundwater Elevations and Flow Direction

RMT measured static groundwater levels within 39 groundwater monitoring wells on May 5, 2008 as part of the sampling activities. In addition, surface water levels were measured at 7 separate locations along the Rockaway River and 5 locations along the drainage ditch. This data was used to calculate groundwater elevations with respect to the National Geodetic Vertical Datum (NGVD), and evaluate the groundwater flow pattern in the shallow aquifer system. Groundwater elevations summarized on Table 1 were used to prepare a site-wide shallow groundwater contour map (Figure 3).

Twelve (12) groundwater elevations calculated from depth to groundwater data (Table 1) were utilized to create the MW19/Hot Spot 1 shallow groundwater contours and flow direction depicted on Figure 4. Shallow groundwater flow direction in the MW19/Hot Spot 1 area is similar to that observed historically (generally toward the northeast). From a regional flow standpoint, overall flow is controlled by the Washington Forge Pond and the Rockaway River. The Rockaway Valley Regional Sewer Authority (RVRSA) storm sewer line that runs west to east down Ross Street has localized influences on the groundwater flow north and south of the utility corridor.

Groundwater elevation data obtained for the MW-19/Hot Spot 1 area wells continues to show that MW-19-12 is directly downgradient from the leading edge of residual groundwater contamination (Figures 4 and 5). The 2Q08 groundwater sample laboratory test results for MW-19-12 show no detectable constituents of concern (COCs) (Table 2). This data, coupled with the fact that groundwater flow north of the RVRSA utility corridor is south towards the LEC site, confirms that the lateral extent of residual groundwater contamination is not migrating to the north of Ross St.

2.3 Delineation of Groundwater Contamination

2.3.1 Contaminants of Concern (COC)

Table 2 summarizes BTEX and DEHP concentrations for all of the six (6) currently sampled MW19/Hot Spot 1 groundwater monitoring wells. The lateral distribution of total BTEX concentrations in the MW-19/Hot Spot 1 Area is shown on Figure 5. RMT sampled groundwater from the MW19/Hot Spot 1 monitoring wells on May 6 and May 7, 2008. Corresponding field sampling data and analytical laboratory reports are presented in Appendix B and Appendix C, respectively.

The higher of the Class IIA New Jersey Groundwater Quality Standard (C2A NJGWQS) for DEHP (2 µg/L) and Practical Quantitation Limit (PQL) (3 µg/L) was not exceeded in any of the MW-19/Hot Spot 1 area monitoring wells sampled during the 2Q08 monitoring event.

Toluene, benzene and total xylenes exceeded the higher of the C2A NJGWQS and PQL of 1000 µg/L, 1 µg/L and 1000 µg/L, respectively, in groundwater collected from MW-19 and MW-19-5.

During the second quarter of 2006 (2Q06), MW-19-12 was installed between MW-19-7 and MW-19-11 in order to determine if dissolved BTEX constituents existed further northeast towards the residences on Ross Street. As discussed above, data continues to show that MW-19-12 is downgradient of MW-19-7. No BTEX or DEHP were detected in MW-19-12 in 2Q08. As shown on Figure 5, this indicates that existing residual groundwater contamination in the MW-19/Hot Spot 1 area is very limited in extent and poses no risk to residences on the north side of Ross Street.

In fact, data from MW19-7 show that no dissolved COCs have migrated off-site since February 2007

Figure 5 shows isoconcentration contours for total BTEX concentrations in parts per million (ppm or mg/L). The contours were constructed by taking into account total concentrations together with particle flow-paths that are perpendicular to the groundwater elevation contours. The distribution of total BTEX defined by the isoconcentration contours is consistent with the predominant lateral component of groundwater flow direction defined by the groundwater elevation contours.

The lack of downward migration of COCs is evidenced by a historical lack of detectable constituents in MW-19-D, and further supported/verified by historical groundwater elevation data that continues to show strong upward vertical hydraulic gradients. This

upward vertical gradient is consistent with all other former deep/shallow well clusters across the site and is a function of the hydraulic head induced by the Washington Pond Reservoir, and regional discharge to the Rockaway River. These findings are consistent with an earlier RMT prediction of an upward vertical gradient for this location based on nearby piezometers GEI-2I and GEI-2S, and other upward vertical gradients observed across the site. The Washington Forge Pond (at an elevation of approximately 640 feet), and the Rockaway River act as constant head boundaries, and together comprise a regional aquifer discharge area.`

2.3.2 MNA Parameters and Data Analysis

Tables 3 and 4 summarize the MNA laboratory analytical and field data, respectively. Sampling and testing was done in accordance with approved 2001 MNA workplan.

Natural attenuation (NA) of petroleum hydrocarbons via biodegradation (also known as intrinsic bioremediation) has been documented to be a universal phenomenon in that it occurs at 100% of sites with BTEX hydrocarbon contamination, and is found to be protective at >80% of those sites (Wiedemeier, 1997). Given the low concentrations exhibited over most of the sampling history for MW-19-7 (relative to MW-19-5), and based on results of NA parameter testing (described in more detail below), intrinsic bioremediation is active at the site.

Where NA processes are present, groundwater contamination stops migrating at some finite distance from the source because biodegradation prevents plume expansion once relative equilibrium conditions have been achieved with respect to microbially mediated processes. Based on isoconcentration maps from the past two years and the data in Table 2, it appears that the size and shape of the plume within the MW19/Hot Spot 1 Area is gradually reducing in size. For example at the upgradient edge of residual soil contamination, MW-19 shows evidence of overall concentration reductions over time. Within or immediately adjacent to the downgradient edge of residual soil contamination, MW-19-5 shows variable concentrations over time related to infiltration and water table fluctuation events. Further downgradient from the residual soil contamination MW-19-7 shows the least amount of BTEX concentrations and the highest concentrations of various NA parameters that are produced as a function of biodegradation. In addition, as described above, concentrations of MW19-7 show that no COCs have migrated off-site since February 2007

The low concentrations of sulfate and nitrate observed within the plume (*e.g.*, MW-19-5), as compared to upgradient concentrations (*e.g.*, MW-19-4), are positive evidence biodegradation is taking place in the MW-19/Hot Spot 1 Area. In addition, several other

parameters, such as carbon dioxide (CO_2), alkalinity, methane, and ferrous iron, are produced by the same micro-organisms during contaminant degradation and are also being monitored and tracked across the site. Within the MW-19/Hot Spot 1 plume area, the concentrations of all four previously mentioned parameters are significantly higher than compared to background concentrations. This data, together with the trend to non-detect total BTEX concentrations in MW-19-7 and MW-19-12, indicate that biodegradation of BTEX compounds reaches completion a relatively short distance downgradient from MW-19-7 (between MW-19-7 and MW-19-12).

This data shows that intrinsic bioremediation processes are strong and actively working to break down BTEX components related to residual soil contamination. NA parameters will continue to be monitored and as more data is received future evaluations will be performed and updates submitted with quarterly monitoring reports.

Although the residual soil contamination is limited in extent, and the area of dissolved-phase groundwater contamination is apparently reducing over time it, it could take many years before achieving industrial cleanup levels. Therefore, in accordance with N.J.A.C. 7:26E, LEC has proposed remediating the MW-19 HS1 area as outlined in the September RASR (See Section 6.4).

Section 3
PRMP Implementation

3.1 Background

Discussions were initiated between RMT and both NJDEP and USEPA during the fourth quarter of 2005 (4Q05) regarding the development and installation of the post source reduction site monitoring network in accordance with the submitted PRMP. A formal regulatory review and comment letter regarding the PRMP was received by LEC on February 22, 2006. RMT prepared a response to the February 22, 2006 NJDEP comments in Section 1 of the 1Q06 RAPR dated May 9, 2006. NJDEP approved the 1Q06 RAPR including response to the PRMP comments in their letter dated March 30, 2007.

RMT, on behalf of LEC, began installing the PRMP monitoring well network within the source area on June 5, 2006. RMT and LEC submitted the necessary GP-14 permit application to the NJDEP LURP on August 14, 2006 requesting authorization to install the remaining five monitoring wells (*i.e.*, monitoring devices) in the wetland area located east of the site (Wharton Enterprise property). In February 2007, RMT was notified during follow up conversations regarding approval of the GP-14 application that a modification to the existing Stream Encroachment Permit (1439-04-0001.1 FHA040001 SEP) would be required in order to allow the placement of fill material in the 100-year floodplain. This fill material is required because the remaining five monitoring wells must be installed through mounds to facilitate screening the shallow water table with a properly constructed well. RMT submitted the requested SEP modification to NJDEP LURP on March 26, 2007 to avoid further delays.

The GP-14 permit/SEP modification permits were received March 31, 2008. RMT, on behalf of LEC, formally requested a waiver from the requirements of ***GP-14 Permit Special Condition No. 1 – Prohibition of construction activities between the dates of March 15 and June 15 to protect the trout stocked water of the Rockaway River*** in a letter dated March 18, 2008. Specifically, RMT requested approval to install, construct, and restore the five (5) mounded groundwater monitoring wells as described in the GP-14 permit application dated August 15, 2006 [Revised March 22, 2007 and last revised September 7, 2007] during the week of April 7, 2008. RMT received approval of waiver in an email from the Bureau of Freshwater Fisheries dated March 25, 2008. Therefore, on April 6, 2008, RMT mobilized to the LEC site to complete the PRMP well network installations.

3.2 Source Area Monitoring Well Installation

3.2.1 Source Area Well Installation and Construction

RMT subcontracted with Boart Longyear Company (Boart), a New Jersey-licensed well driller, to install seven, new groundwater monitoring wells (MW-27S, MW-28S, MW-28I, MW-29S, MW-30S, MW-30I, and MW-30D).

RMT met Boart on-site on June 6, 2006 to review site procedures, health and safety, project set up and initiate drilling. Each boring was supervised and the geology logged by an RMT field geologist. The monitoring wells were advanced utilizing sonic drilling technology in order to minimize the potential for drag-down of upper native soils and fill materials, as well as any associated potential contamination. In addition, sonic drilling minimizes the potential for refusal during drilling as a result of problematic subsurface conditions (*i.e.*, slurry monolith, cobbles and boulders), and maximize the recovery of subsurface soils/fill for purposes of geologic logging.

The new monitoring wells were installed in specific locations to serve the following general purposes (as outlined in Section 2.3.1 of the PRMP):

- monitor background groundwater quality.
- intercept and monitor the upper transition zone between the backfill material and the cement/bentonite slurry monolith.
- intercept and monitor the lower transition zone between the cement/bentonite slurry monolith and the existing soil material left in place post remediation.
- monitor the deeper aquifer under the cement/bentonite slurry monolith.

A more detailed description of each well's purpose can be found in Table 2 of the PRMP.

The groundwater monitoring wells were constructed with 2-inch–diameter stainless steel screens with 0.01-inch slots, and 2-inch–diameter stainless steel riser pipe. All connections were made utilizing flush threaded o-ring couplings. Filter pack material of washed silica sand was placed within the screened interval to about two feet above the top of the screen [*i.e.*, within the outer sonic drill pipe which acted as a tremie device]. A 2-foot thick bentonite seal was then placed in the borehole annulus above the filter pack. Following emplacement of the bentonite seal, the annulus was pressure grouted with a cement/bentonite grout to within two feet of the ground surface. Each well was completed with a concrete pad at grade, and a steel outer casing labeled with the well ID. Field documentation completed during the well installation activities is presented in Appendix B. Boring logs and well construction diagrams for each of the seven new wells are located in Appendix E.

All newly installed wells were developed with a whaler pump using a surge and over-pumping action.

3.3 MW-19/Hot Spot 1 Well Installation

During the June 2006 source area well installation event, one additional well (MW-19-12) was installed in the MW-19/Hot Spot 1 area. MW-19-12 was placed on the north side of Ross St., northwest of MW-19-11 and east of MW-19-8, to be directly downgradient from the leading edge of the dissolved phase groundwater contamination.

The installation and construction of MW-19-12 followed the procedures outlined above in Section 3.2.1. Field documentation recording the installation of MW-19-12 is presented in Appendix B. The MW-19-12 boring log and construction diagram are presented in Appendix E.

3.4 Wetland Area Monitoring Well Installation

3.4.1 Wetland Well Installation and Construction

Following the March 2008 receipt of the GP-14 and SEP permits discussed above, RMT again subcontracted with Boart to install the five remaining PRMP groundwater monitoring wells (MW-31S, MW-32S, MW-33S, MW-34S, and MW-35S).

RMT met Boart on-site on April 7, 2008 to review site procedures, health and safety; and project set up, and to initiate drilling. Each boring was supervised and the geology logged by an RMT field geologist. The monitoring wells were advanced utilizing sonic drilling technology as outlined above in Section 3.2.1.

The five remaining wetland groundwater monitoring wells were installed in specific locations in order to monitor the downgradient shallow zone of the aquifer (where historical data show dissolved phase constituents occurred). These wells will help determine NA process characteristics and long-term effectiveness in reducing constituents of concern (COCs) below applicable groundwater cleanup criteria.

The 5 wetland area monitoring wells were installed with 5 ft screens each beginning at 6-inches below ground surface (bgs) [*i.e.*, 0.5′ to 5.5′ bgs screened interval]. Each well riser was encased above ground using a sonotube to facilitate above ground completion prior to mound construction as outlined in the LURP permit applications. Man-made mounds were then built around the completed wells. The mounds consisted of a compacted rock/sand aggregate base gradually sloped to accommodate the above ground well completion. Each mound was then covered with geo-fabric keyed in around the base of the mound and finally covered with a minimum of 6 inches of high

organic content topsoil (12% minimum total organic carbon, [TOC] by weight per GP-4 Special Condition 11f) to support wetland specific plant life.

The groundwater monitoring wells were constructed with 2-inch–diameter stainless steel screens with 0.01-inch slots, and 2-inch–diameter stainless steel riser pipe. All connections were made utilizing flush threaded o-ring couplings. Filter pack material was placed in the borehole annulus to 2 feet above the top of the screen [*i.e.*, within the outer sonic drill pipe which acted as a tremie device]. A bentonite seal extends to 2 feet above the filter pack. Each well was completed with a concrete pad at the top of the mound, a 2 inch-diameter riser pipe, a steel outer casing, and a Well ID. Field documentation completed during the well installation activities is presented in Appendix B. Boring logs and well construction diagrams for each of the five new wells are located in Appendix E.

3.4.2 General Wetland Restoration

As a result of disturbance from drilling activities during the well installations (*i.e.*, mound construction and drilling), small areas within both the wetland and transition areas required some restoration.

The same high organic content topsoil (i.e. total organic carbon content >12%), used to cover the mounds, was used to reestablish pre-existing final grades.

Vegetative restoration of the disturbed areas [*i.e.*, PEM wetland, PFO/SS wetland, transition area, or drainage channel slope] as a result of well installation activities was performed in accordance with the GP-4 permit application, the *Freshwater Wetland Mitigation plan,* and the GP-4 permit. The planting of an additional 250 bare root trees as proposed in the report entitled *2005 Compensatory Mitigation Monitoring Report* was also implemented in conjunction with the wetland monitoring well mound and general area restorative measures.

A photographic summary of the PRMP well installations and the general wetland restoration activities is presented in Appendix F.

3.5 Decontamination Procedures

All non-disposable equipment was cleaned and decontaminated prior to usage, between well installation points during the field activities, and at the close of each day's field activities. Boart decontaminated all subsurface drilling equipment following each well completion. Decontamination was performed by washing equipment in a mixture of clean water and an environmental detergent such as Liquinox or Alconox®. The equipment was scrubbed to remove all gross contamination using a plastic bristle brush. The equipment was then clean

water rinsed using a high-powered steam pressure washer. All decontamination waters and personal protective equipment (PPE) was containerized, staged until it could be properly disposed of at an approved off-site facility (see Section 3.7 below).

3.6 Professional Surveying

James M. Stewart, Inc., a NJ-licensed professional surveyor, located in Philadelphia, PA, performed all surveying. Each permanent groundwater monitoring well was located referencing North American Datum (NAD 83). In addition, the ground and inner well casing elevation for each permanent groundwater monitoring well was determined by referencing North American Vertical Datum (NAVD 88). The eight (8) monitoring wells installed in June 2006 and the five (5) monitoring wells installed in April 2008 were surveyed on August 8, 2006 and April 8, 2008 respectively (Ref. Table 1).

3.7 Investigation Derived Wastes (IDWs)

All investigation derived wastes (IDWs) (*i.e.*, drill cuttings, well development and purge water, and decontamination water) generated during the April 2008 investigations were taken off-site on May 7, 2008 by Environmental Waste Minimization Inc. (EWMI) of Northhampton, PA. In addition, soils generated during the 2002 lead soil investigation were also taken off-site on May 7, 2008 by EWMI. All investigation derived soil cuttings, lead soils, and purge / sampling / decontamination water were transported by EWMI to the Michigan Disposal Waste Treatment Plant in Belleville, MI (U.S. EPA ID # MID000724831). Waste management paperwork is presented in Appendix G.

Section 4
Source Reduction Area of Concern (AOC)

The 2Q08 monitoring event marks the first time that all of the wells specified in the PRMP have been sampled. The 2Q08 sampling event is the ninth event for the source area monitoring wells installed in June 2006. This long period of time since sampling and testing the 2006 wells began was a result of the more than two year period of time it took for the New Jersey LURP to approve the GP-14 and Stream Encroachment Permit applications.

Site-wide shallow groundwater contours and associated flow pattern are shown on Figure 3. The contours were prepared by utilizing the surveyed groundwater elevations from the new PRMP wells, existing site wells, and river and ditch surface water elevations (Table 1). The map shows that shallow groundwater flow is similar to flow that occurred before the source reduction in that shallow groundwater at the site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam ("losing" reach of river; see approximate flow direction arrows on Figure 3). Further downgradient, site groundwater nearest the river flows generally parallel to the river, and eventually becomes influent to the river just downgradient of the source reduction area (in the Wharton Enterprises wetland area). Also, similar to the pre-source reduction flow, some of the site shallow groundwater becomes influent to the ditch surface water; this flow-path is supported by the occasional low detections of COCs in some of the ditch surface water samples (see Section 5).

Note that the groundwater contour map also shows the effect of the buried slurry monolith on groundwater flow, and that effect is very limited in extent, mainly along the edges of the excavation area. Specifically, the area of the monolith can be approximated by the shape of the low swale roughly defined by the 629-foot ground elevation contour, and the inferred 625.5-foot and 626-foot groundwater contours roughly mimics the shape of that swale. The presence of the monolith does not change the overall horizontal component of flow direction which as shown on Figure 3 and described above is directed towards the ditch, the wetland area, and the river.

The analytical results from all monitoring events are summarized in Tables 2 thru 5. The shallow wells that lie within the central (MW-28 cluster) and downgradient (MW-30 cluster) portions of the source reduction area both have screens that were placed directly below the slurry monolith floor. At both locations, deeper intermediate monitoring wells MW-28i and MW-30i were installed just below the shallow well and screened approximately 5 feet below the bottom of the shallow well screen; 15 to 20 ft bgs and 10 to 15 ft bgs respectively

In 2Q08 low levels of dissolved groundwater contamination continue to be found in the source reduction area interior monitoring wells MW-28s and MW-28i (Table 2). The concentrations of dissolved benzene, ethylbenzene, and xylene appear to be generally decreasing over time in the MW-28 well cluster. In fact, no BTEX constituents are present at levels that exceed current NJGWQS (New Jersey Groundwater Quality Standards). Dissolved DEHP increased at the MW-28s during 2Q08, but the overall trend is a decrease in DEHP concentration.

Site contaminants of concern also continue to be found dissolved in groundwater from source reduction area downgradient well MW-30s. However, for the past five events, no contaminants have been in wells MW-30i and MW-30d. This indicates that the vertical extent of site constituents of concern in the vicinity of the MW-30 cluster is limited to only the top five feet or less of the shallow water table (within the first five feet of aquifer immediately below the slurry monolith). In addition, BTEX is fluctuating in monitoring well MW-30s, but overall concentrations appear to be decreasing. The trend of DEHP in MW-30s is less clear, and appears to fluctuate from quarter to quarter. Some of the fluctuations show DEHP concentrations above the saturation limit for that constituent.

Because of the fluctuating concentrations of DEHP in MW-30s, RMT is currently preparing a Remedial Investigation Workplan (RIW) to further evaluate concentrations remaining in this area. This RIW is being prepared to satisfy the requirements outlined in NJDEP and NOD letter received on June 25, 2008.

As part of the 2Q08 sampling event, RMT also sampled the five (5) newly installed wetland area wells (MW-31s, MW-32s, MW-33s, MW-34s, and MW-35s) for groundwater quality. The location of these wells, with respect to the source reduction and wetland areas, are shown on Figure 3. Monitoring well MW-31s is located on the southern edge of the ditch where it bends around the Air Products facility. Monitoring well MW-32s is south of MW-31s and is midway between the ditch and the Rockaway River. Monitoring well MW-33s is west-southwest of MW-32s and located near the entrance to the wetland area just off the northern bank of the Rockaway River. Monitoring well MW-34s is southeast of MW-32s. Monitoring well MW-35s is east of MW-34s, just upgradient from the river edge location where product sheen had been previously observed (before the source reduction) to be migrating directly into the river. All wetland area well locations are shown on Figure 2.

During 2Q08, groundwater samples collected from all of the wetland area wells, with the exception of MW-34s, had concentrations of DEHP above the higher of the C2A NJGWQS and PQL. Groundwater samples collected from MW-31s and MW-32s also contained concentrations of ethylbenzene and total xylenes significantly above the higher of the C2A NJGWQS and PQL (Table 2). In addition, free product was measured in MW-32s (Table 1). Low levels of dissolved groundwater contamination were found in shallow monitoring wells MW-33s, MW-34s, and

MW-35s (Table 2). The concentration trends of dissolved benzene, ethylbenzene, and xylenes will continue to be carefully monitored. Furthermore, this area will also be addressed in the RIW currently being prepared. The work that will be prepared in the RIW will focus on gathering data that will be used to develop a means to prevent further discharge of groundwater contamination into the ditch and Rockaway River.

Based on the site wide groundwater flow map (Figure 3), the receptor downgradient from the central portion of the source reduction area represented by results from the MW-28 cluster is the drainage ditch. Groundwater from other portions of the source reduction area flows towards the wetland area and the Rockaway River. Additional monitoring points (as shown on Figures 2 and 3; MW-31s thru MW-35s) were installed during the week of April 7, 2008 upon receipt of 1) the GP-14 and Minor Modification Stream Encroachment (mmSEP) permits on February 29, 2008 from the NJ Land Use Regulation Program (LURP), and, 2) the trout maintenance time restriction waiver from LURP and the Bureau of Freshwater Fisheries to allow monitoring well installation between the dates on March 15th and June 15th.

Surface water elevation data for the ditch is consistent with its configuration as a U-shaped "linear" pond formed as a result of a beaver dam (Figures 2 and 3).

Section 5
Surface Water Sampling

The Rockaway River adjacent and downstream from the LEC site is classified as a Category 1 fresh water trout maintenance stream [Ref. Surface Water Quality Standard Reference: N.J.A.C 7:9B October 2006; (Dover) - Washington Pond outlet downstream to Rt. 46 bridge; FW2-TM(C1)]. As such, RMT compared COC concentrations detected in the drainage ditch and Rockaway River samples against the NJ Surface Water Quality Criteria (NJSWQC) for Toxic Substances outlined in Section 7:9B-1.14(f) 7 of the Surface Water Quality Standard Reference.

5.1 Eastern Drainage Channel

As part of the 2Q08 event, RMT sampled five (5) points within the eastern drainage channel that separates the adjacent Air Products facility from the LEC site and the adjacent Wharton Enterprises property for surface water quality. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005.

During the 2Q08 sampling event, locations SW-D-1, SW-D-2, SW-D-3, SW-D-4, and SW-D-5 were sampled. Sample SW-D-1 is located at the upstream end (head) of the ditch. Sample SW-D-2 is located just downgradient of the bend around the Air Products facility adjacent to the area where free product seeps were observed before completion of the source reduction. Sample SW-D-3 is located at the downgradient end of the ditch, just west of the connecting channel that feeds into the Rockaway River. Sample SW-D-4 is located just upgradient of the bend around the Air Products facility on the LEC side of the ditch. SW-D-5, added during the 3Q06 event, is located within the channel that connects the ditch to the Rockaway River; just above [north] the beaver dam. All surface water sample locations are shown on Figure 2. The laboratory analytical results for these drainage ditch samples are summarized on Table 5.

Neither BTEX nor DEHP were detected in any of the ditch surface water samples.

5.2 Rockaway River

In addition to the drainage channel, RMT also collected seven (7) surface water samples from the Rockaway River (Ref. Figure 2 and Table 5).

Sample SW-R-1 was collected near the river edge adjacent to the location where product sheen had been previously observed (before the source reduction) to be migrating directly into the river. As discussed in earlier reports, the sheen was discovered in 2004 as a visible coloration on top of quiescent water pooled within the wetland area. The surface water sample from SW-

R-1 was non-detect for DEHP. However, the sample did contain very low concentrations of ethylbenzene (1.2 µg/L) and total xylenes (5.9 µg/L). Neither of these concentrations was above their respective New Jersey Surface Water Quality Standards (NJSWQS). No product sheen was observed at this location during the 2Q08 event.

River sample SW-R-2 was taken directly upstream of the SW-R-1 location. The surface water sample collected in the river at SW-R-2 did not contain detectible concentrations of BTEX or DEHP.

River sample SW-R-3 was taken upstream of SW-R-2, near the SG-R3 staff gauge. The surface water sample collected in the river at SW-R-3 did not contain any detectible concentrations of BTEX or DEHP.

Rockaway River surface water samples SW-R-4 and SW-R-6, and Washington Forge Pond surface water sample SW-R-5 were non-detect for all COCs.

Another surface water sample was collected in the ditch near its intersection with the Rockaway River (approximately 10 feet upstream in the drainage channel; see Figure 2). This location represents the discharge point from the ditch/beaver pond into the Rockaway River. Similar to the other river samples collected, the "Ditch-River Confluence" sample DRC-2 was non-detect for BTEX and DEHP. This surface water monitoring point was professionally surveyed along with SW-D-5, and the five (5) wetland monitoring wells during the week of April 7, 2008.

Benzene was not detected in any of the river surface water samples. Although the Method Detection Limit (MDL) of 1 µg/L is higher than the NJSWQC of 0.15 µg/L, it is equivalent to the PQL.

Surface water sampling at the eastern drainage ditch as well as the Rockaway River and Washington Forge Pond will continue to take place during each quarterly monitoring event. Specifics regarding surface water sampling locations, frequency and analytes are presented in the PRMP and associated Quality Assurance Project Plan (QAPP).

Section 6
Additional and Future Project Activities

The following section briefly outlines additional activities completed in 2Q08 and activities anticipated for completion during 3Q08. The 3Q08 monitoring event is scheduled for the week of July 21, 2008. An updated Master Project Schedule is presented in Appendix I.

6.1 Post Remedial Monitoring Plan [PRMP] Implementation and Reporting

On February 29, 2008, RMT received both the GP-14 permit and the Minor Modification to the Stream Encroachment permit. These permits provided LURP authorization to begin construction activities on the installation of the five (5) remaining mounded wetland area PRMP wells. However, the GP-14 permit contained a special condition which prohibited any grading or construction activities within the 100-year floodplain between the dates of March 15 and June 15 due to trout maintenance on the Rockaway River. RMT sent a letter to the NJDEP Bureau of Freshwater Fisheries, dated March 18, 2008, formally requesting a waiver from the requirements of GP-14 Permit Special Condition No. 1- *Prohibition of construction activities between the dates of March 15 and June 15 to protect the trout stocked water of the Rockaway River.* In an email dated March 25, 2008, RMT was granted a waiver for the time restriction period March 15 to June 15 for well installation, construction and restoration from the NJDEP Bureau of Land Use. A copy of the waiver request and approval was presented in Appendix F of the 1Q08 RAPR. As outlined in the Project Schedule and as discussed above, RMT installed and surveyed the five (5) mounded wetland area PRMP wells during the week of April 7, 2008.

6.2 Notice of Deficiency Letter

The 3Q08 monitoring event is slated to be completed during the week of July 21, 2008. All PRMP monitoring wells, including the five (5) new mounded wetland wells will be sampled for water quality and evaluated for groundwater water elevation during the 3Q08 event. All monitoring data will be presented in the 3Q08 RAPR.

On June 25, 2008, RMT received a letter dated June 19, 2008 from the NJDEP (Appendix H) issuing a notice of deficiency (NOD). The letter stated that the Rockaway River needs to be correctly classified as a FW-2-NT(C1). This classification was correctly identified in previous RAPRs, and applies to the Rockaway River from the Washington Forge Pond to the Route 46 Bridge. With the C-1 classification all detectable site related contamination are prohibited. The NJDEP is requiring that a Remedial Investigation Workplan (RIW) be submitted with 60 days, implementing prevention of site contamination discharge into the Rockaway River and the

ditch. As described above, the work that will be prepared in the RIW will focus on gathering data that will conform to N.J.A.C. 7:26E, and will be used to develop a means to prevent further discharge of groundwater contamination into the ditch and Rockaway River.

RMT received the letter via certified mail on June 25, 2008. Subsequently, we plan to submit to NJDEP and USEPA by August 24, 2008 a RIW on dissolved phase contamination entering the ditch and river. The RIW scope will also address the delineation of LNAPL in the wetland area.

6.3 Remedial Action Progress Reports [RAPRs]

RMT on behalf of L.E. Carpenter received a letter from the NJDEP (Appendix H) acknowledging the receipt of 2Q06, 3Q06, 4Q06, 1Q07, 2Q07, 3Q07, 4Q07 and 1Q08 RAPRs.

6.4 MW19/Hot Spot 1 Soil Gas Investigation and RASR

On May 9, 2006 RMT, on behalf of LEC, submitted a soil gas investigation report documenting field implementation and the results of a soil gas investigation conducted in the MW19/Hot Spot 1 area to comply with the October 2005 NJDEP Vapor Intrusion Guidance and revised NJDEP Field Sampling Procedures Manual (August 2005). During a January 23, 2007 phone conversation, NJDEP indicated that formal regulatory response following review of this report would be forwarded to both LEC and RMT by the end of February 2007. LEC received a Notice of Deficiency (NOD) comment letter from the NJDEP, dated June 20, 2007. RMT, on behalf of LEC, prepared a request for a 45-day extension dated July 17, 2007 for the submittal of the Remedial Action Selection Report (RASR) outlined in the NJDEP NOD. NJDEP approved the 45-day extension. Subsequently, LEC performed a source area investigation and submitted the RASR to NJDEP and USEPA on September 4, 2007. No regulatory comments on the RASR have been received to date.

6.5 Wetland Monitoring, Invasive Species Control, and Reporting

General wetland restoration activities and wetland monitoring well mound restorations were performed in accordance with GP-14 and mmSEP permits during the week of April 7, 2008. Fall 2008 monitoring and invasive species control events are tentatively scheduled for May and September 2008. All wetland restoration activities are outlined above in Section 3.4.2 with a photographic summary in Appendix F.

Tables

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

WELL LOCATION	MONITORING DEVICE TYPE	PROFESSIONAL SURVEY INFORMATION (2)					QUARTERLY MEASUREMENT INFORMATION		
		BASELINE LOCATION (FT) NJ State Plane Coordinates		ELEVATION (FT. MSL)					
		(Y) North	(X) East	GROUND (6)	OUTER CASING	INNER WELL CASING	MEAS. DATE	WATER DEPTH	WATER ELEVATION
GEI-2I	Piezometer	754573.99	470499.76	635.32	637.75	637.60	5-May-08	10.31	627.29
GEI-2S	Piezometer	754566	470506.18	634.86	637.27	637.07	5-May-08	10.19	626.88
GEI-3I	Piezometer	754311.79	470453.7	636.96	639.39	639.25	5-May-08	12.47	626.78
MW-8	Monitoring Well	754099.29	471251.06	627.39	629.96	628.19	5-May-08	2.76	625.43
MW-9	Monitoring Well	754075.94	471111.03	628.61	631.09	629.58	5-May-08	3.51	626.07
MW-12S(R)	Monitoring Well	754055.97	471042.34	631.57	634.26	633.73	5-May-08	7.54	626.19
MW-13S	Monitoring Well	754353.97	471370.04	627.74	630.80	630.63	5-May-08	5.15	625.48
MW-13S(R)	Monitoring Well	754333.07	471365.71	627.66	630.36	629.99	5-May-08	4.48	625.51
MW-13I	Monitoring Well	754337.8	471360.31	627.76	630.28	630.06	5-May-08	4.41	625.65
MW-15S	Monitoring Well	754326.58	470891.83	634.23	636.43	636.17	5-May-08	10.04	626.13
MW-15I	Monitoring Well	754325.8	470901.47	634.14	636.28	636.06	5-May-08	10.01	626.05
MW-17	Monitoring Well	754109.68	470759.85	632.35	634.32	634.19	5-May-08	7.89	626.30
MW-18S	Monitoring Well	754677.95	471117.26	627.62	630.88	630.66	5-May-08	4.98	625.68
MW-18I	Monitoring Well	754675.11	471106.07	627.75	630.59	630.44	5-May-08	4.35	626.09
MW-19	Monitoring Well	754537.15	470454.45	636.22	636.23	635.90	5-May-08	8.90	627.00
MW-19-1	Monitoring Well	754534.52	470427.63	635.93	635.96	635.64	5-May-08	8.64	627.00
MW-19-2	Monitoring Well	754551.81	470429.56	636.46	636.50	636.30	5-May-08	9.27	627.03
MW-19-3	Monitoring Well	754539.4	470394.2	636.97	637.06	636.70	5-May-08	9.67	627.03
MW-19-4	Monitoring Well	754505.39	470432.08	635.69	635.76	635.43	5-May-08	8.32	627.11
MW-19-5	Monitoring Well	754365.53	470470.75	635.93	635.93	635.56	5-May-08	8.65	626.91
MW-19-6	Monitoring Well	754578.87	470443.1	636.17	636.16	635.82	5-May-08	8.92	626.90
MW-19-7	Monitoring Well	754595.66	470501.7	635.31	635.36	635.00	5-May-08	8.18	626.82
MW-19-8	Monitoring Well	754617.42	470493.65	635.82	635.82	635.36	5-May-08	8.55	626.81
MW-19-9D	Monitoring Well	754590	470442	636.39	636.41	636.10	5-May-08	8.64	627.46
MW-19-10	Monitoring Well	754625.75	470590.81	634.72	634.81	634.43	5-May-08	NM-Abandoned	--
MW-19-11	Monitoring Well	754617.45	470546.95	634.22	634.26	633.67	5-May-08	6.93	626.74
MW-19-12	Monitoring Well	754627.53	470529.72	634.93	634.93	634.46	5-May-08	7.80	626.66
MW-21 (3)	Monitoring Well	754240.97	471643.78	624.57	628.49	628.20	5-May-08	2.92	625.28
MW-25(R) (3)	Monitoring Well	754201.83	471518.21	624.65	626.77	626.62	5-May-08	2.21	624.41
MW-27s	Monitoring Well	754253.78	470672.69	635.82	635.78	635.07	5-May-08	8.71	626.36
MW-28S	Monitoring Well	754243.26	471034.34	628.20	631.28	631.14	5-May-08	5.53	625.61
MW-28I	Monitoring Well	754242.87	471031.19	628.25	631.20	631.04	5-May-08	5.35	625.69
MW-29S	Monitoring Well	754411.14	471187.85	629.94	632.83	632.66	5-May-08	7.22	625.44
MW-30S	Monitoring Well	754281.65	471265.12	624.99	628.24	628.24	5-May-08	2.84	625.40
MW-30I	Monitoring Well	754286.42	471263.15	625.14	628.15	628.01	5-May-08	2.68	625.33
MW-30D	Monitoring Well	754290.05	471261.2	625.20	628.22	628.02	5-May-08	2.69	625.33
SG-D1 (1)	Drainage Channel Staff Gauge	754428.57	471240.37	625.81	-	-	25-Jun-07	NM	NM
SG-D2 (1)	Drainage Channel Staff Gauge	754285.43	471361.24	626.26	-	-	25-Jun-07	NM	NM
SG-D3 (1)	Drainage Channel Staff Gauge	754381.47	471548.31	625.83	-	-	25-Jun-07	NM	NM
SG-R1 (1)	Rockaway River Staff Gauge	754313.99	470408.70	640.92	-	-	11-Sep-06	NM	--
SG-R2 (3)	Rockaway River Monitoring Point	754056.10	470946.46	629.41	-	-	5-May-08	2.53	626.88
SW-R-1 (4)	Rockaway River Monitoring Point	754125.56	471523.00	625.87	-	-	5-May-08	2.45	623.42
SW-R-2 (4)	Rockaway River Monitoring Point	754112.82	471426.51	626.54	-	-	5-May-08	2.54	624.00
SW-R-3 (4)	Rockaway River Monitoring Point	754149.30	471368.76	626.25	-	-	5-May-08	1.63	624.62
SW-R-4 (4)	Rockaway River Monitoring Point	754088.00	471279.58	627.57	-	-	5-May-08	2.30	625.27
SW-R-5 (4)	Rockaway River Monitoring Point	754314.04	470408.83	640.66	-	-	5-May-08	1.63	639.03
SW-R-6 (4)	Rockaway River Monitoring Point	754071.52	470697.75	631.68	-	-	5-May-08	NM-damaged	--
SW-D-1 (5)	Drainage Channel Staff Gauge	754428.36	471240.17	625.75	-	-	5-May-08	1.70	624.05
SW-D-2 (5)	Drainage Channel Staff Gauge	754285.35	471361.22	626.07	-	-	5-May-08	2.93	623.14
SW-D-3 (5)	Drainage Channel Staff Gauge	754381.23	471548.18	625.70	-	-	5-May-08	1.46	624.24
SW-D-4	Drainage Channel Monitoring Point	754297.19	471292.08	624.93	-	-	5-May-08	0.79	624.14
SW-D-5	Drainage Channel Monitoring Point	754223.14	471920.10	626.86	-	-	5-May-08	2.82	624.04
DRC-2	Drainage Channel Monitoring Point	754117.49	471971.58	623.29	-	-	5-May-08	1.90	621.39

FOOTNOTES
(1) Reference elevation measured at the top of a 3.33 ft. Staff gauge. Water depth based on a visual observation of the water level on the Staff gauge.
(2) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAVD 88
(3) New SG-R2 replaced the old SG-R2 installed in Nov. 1998. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA May 2004. SG-R2 is a chiseled arrow on Iron Beam
(4) As outlined in the PRMP the six (6) new Rockaway River monitoring points reference survey elevation was shot at the top of a stake installed to each point
(5) SW-D-1, SW-D-2 and SW-D-3 were resurveyed points at the top of the stake that secures each drainage ditch staff gauge.
These points were reshot to insure the reference elevation integrity remained for each of the 3 staff gauges as a result of source reduction remedial disturbance.
(6) Ground reference elevation for SG and SW series gauges and monitoring points is a point specific to each devise (i.e., top of stake, to of gauge, notched point on concrete or iron etc)

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

WELL LOCATION	MONITORING DEVICE TYPE	PROFESSIONAL SURVEY INFORMATION (1)					QUARTERLY MEASUREMENT INFORMATION						
		BASELINE LOCATION (FT) NJ State Plane Coordinates		ELEVATION (FT. MSL)									
		(Y) North	(X) East	GROUND (2)	OUTER CASING	INNER WELL CASING	MEAS. DATE	PRODUCT DEPTH	WATER DEPTH	PRODUCT ELEVATION	WATER ELEVATION	PRODUCT THICKNESS (FT)	CORRECTED WATER ELEVATION
MW-31S	Monitoring Well	754241.65	471341.5	627.94	630.00	629.82	5-May-08	--	4.80	--	625.02		
MW-32S	Monitoring Well	754207.08	471359.83	628.15	630.33	630.18	5-May-08	5.86	5.96	624.32	624.22	0.10	624.31
MW-33S	Monitoring Well	754170.51	471311.04	628.85	631.06	630.91	5-May-08	--	5.91	--	625.00		
MW-34S	Monitoring Well	754178.83	471399.49	628.07	629.97	629.93	5-May-08	--	5.39	--	624.54		
MW-35S	Monitoring Well	754179.62	471445.17	627.43	629.59	629.19	5-May-08	--	4.65	--	624.54		

FOOTNOTES
(1) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAVD 88
(2) Corrected water level elevations utilize an average specific gravity of 0.9363 (RMT, Inc. product samplig in October 1999)

TABLE 2

THROUGH 2ND QUARTER 2008

L.E. CARPENTER AND COMPANY (LEC) - Borough of Wharton, Morris County, New Jersey
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
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
		PRACTICAL QUANTITATION LIMIT [PQL]	1	2	1	2	3
		NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS) CLASS IIA	0.2	700	1,000	1,000	2
		HIGHER OF NJGWQS AND PQL	1	700	1,000	1,000	3
MW19							
Dilution factor for BTEX 2000	24-Feb-95	1	< 660	1,700	110,000	10,000	NR
Dilution factor for BTEX 100	14-Jun-95	2	150	3,400	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	76,700	14,900	7
Dilution factor for BTEX 500	2-Aug-01	3	< 95	3,000	62,000	17,000	3
Dilution factor for BTEX 1000	6-Jun-02	2	< 200	1,000	30,000	8,000	6
Dilution factor for BTEX 100, Toluene 200	20-Nov-03	4	< 20	1,500	40,000	7,400	J 6
	15-Jun-04	2	< 100	1,400	46,000	6,800	J 4
Dilution factor for BTEX 100, Toluene 500	10-Aug-04	3	< 20	2,100	56,000	11,000	J 2
Dilution factor for BTEX 50	13-Jan-05	1	< 10	750	18,000	3,600	< 1
Lower Grab Water Sample; Dilution factor for BTEX 5	8-Apr-05	2	< 1	97	1,300	530	J 3
Upper Grab Water Sample; Dilution factor for Toluene 5	8-Apr-05	2	< 0.2	86.0	410.0	430.0	J 3.0
Dilution factor for BTEX 200	27-Jul-05	3	< 40	1,100	44,000	6,000	J 2
Dilution factor for BTEX 100	27-Oct-05	4	< 20	200	10,000	1,200	J 5
Dilution factor for BTEX 250	28-Feb-06	1	< 50	880	28,000	4,900	J 3
Dilution factor for BTEX 200	20-Jun-06	2	< 40	1,600	53,000	8,700	J 3
Dilution factor for BTEX 200	13-Sep-06	3	< 40	2,100	51,000	11,000	J 3
Dilution factor for BTEX 200	8-Nov-06	4	< 40	2,200	59,000	11,000	J 2
Dilution factor for BTEX 500	8-Feb-07	1	< 500	1,900	93,000	9,800	< 1
Dilution factor for BTEX 50, Toluene 200	27-Jun-07	2	< 50	680	32,000	3,000	< 1
Dilution factor for BTEX 100, Toluene 500	12-Sep-07	3	< 100	1,500	76,000	7,300	3
Dilution factor for BTEX 250, DEHP 1.1	4-Dec-07	4	< 250	1,500	49,000	7,500	< 1
	20-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1
Dilution factor for BEX 100, Toluene 200, DEHP 1.05	7-May-08	2	< 100	650	28,000	2800	< 1
MW19-4							
	12-Mar-98	1	< 0.2	< 0.1	< 0.1	< 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	< 0.20	< 0.50
	19-Nov-03	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	28-Feb-06	1	< 0.2	< 0.2	2.2	< 0.6	< 1.0
	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	12-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	12-Sep-06	3 duplicate	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP 10	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	17
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	11-Sep-07	3 duplicate	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	4-Dec-07	4 duplicate	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP 1.11	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	1.1
Dilution factor for DEHP 1.11	6-May-08	2 duplicate	< 1.0	< 1.0	< 5.0	< 3.0	< 1.1
MW19-5							
Dilution factor for BTEX 5000	12-Mar-98	1	< 1,000	1,920	123,000	10,100	42
Dilution factor for BTEX 1000	2-Aug-01	3	< 190	870	79,000	5,200	3
Dilution factor for BTEX 500	7-Mar-02	1	< 140	300	10,000	1,700	1
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2	< 1,100	1,100	92,000	6,300	< 10
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2 duplicate	< 1,100	1,800	92,000	6,900	< 9
	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	1,400	83,000	7,400	J 1
	10-Aug-04	3	< 200	2,800	140,000	14,000	J 1
Dilution factor for BTEX 10	13-Jan-05	1	< 2	64	3,100	340	< 1
Dilution factot for BTEX 200, Lower Grab Water Sample	9-Apr-05	2	< 40	1,000	27,000	5,300	J 1
Upper Grab Water Sample	9-Apr-05	2	< 0.2	J 0.4	9.5	J 2.3	< 1.0
Dilution factor for BTEX 500	26-Jul-05	3	< 100	2,600	100,000	13,000	< 1
	27-Oct-05	4	< 0.2	6.8	140.0	37.0	< 1.0
Dilution factor for BTEX 100	28-Feb-06	1	< 20	290	19,000	1,500	< 1
Dilution factor for BTEX 20	20-Jun-06	2	< 4	130	4,000	730	< 1
Dilution factor for BTEX 100	13-Sep-06	3	< 20	550	25,000	2,800	< 1
Dilution factor for BTEX 100	8-Nov-06	4	< 20	410	22,000	2,000	9
Dilution factor for BTEX 500	8-Feb-07	1	< 500	2,100	98,000	10,000	< 1
Dilution factor for BTEX 100, Toluene 1000	27-Jun-07	2	< 100	1,700	98,000	8,200	< 1
Dilution factor for BTEX 100, Toluene 500	12-Sep-07	3	< 100	1,100	67,000	5,200	1
Dilution factor for BEX 200, Toluene 50, DEHP 1.1	4-Dec-07	4	< 200	820	4,400	4,200	< 1
	20-Feb-08	1	< 1	8	190	45	< 1
Dilution factor for Toluene 5 [DUP-03]	20-Feb-08	1 duplicate	< 1	6	200	34	< 1

TABLE 2
L.E. CARPENTER AND COMPANY (LEC) - Borough of Wharton, Morris County, New Jersey
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
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
		PRACTICAL QUANTITATION LIMIT [PQL]	1	2	1	2	3
		NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS) CLASS IIA	0.2	700	1,000	1,000	2
		HIGHER OF NJGWQS AND PQL	1	700	1,000	1,000	3
Dilution factor for BEX 5, Toluene 100, DEHP 1.05	7-May-08	2	7.2	270	15,000	1,300	< 1
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	14.0	390.0	47.0	28
	5-Jun-02	2	< 0.22	1.70	13.00	4.10	2.30
	18-Nov-03	4	< 0.2	< 0.2	J 0.3	< 0.6	J 6.0
	17-Jun-04	2	< 0.2	J 0.4	1.1	1.2	J 3.0
	10-Aug-04	3	< 0.2	4.6	38.0	18.0	J 4.0
	13-Jan-05	1	< 0.2	4.0	36.0	14.0	J 1.0
Lower Grab Water Sample	9-Apr-05	2	< 0.2	16.0	160.0	64.0	< 1.0
Upper Grab Water Sample	9-Apr-05	2	< 0.2	11.0	74.0	37.0	< 1.0
	26-Jul-05	3	< 0.2	3.6	27.0	14.0	J 2.0
	27-Oct-05	4	< 0.2	5.4	110.0	25.0	< 0.9
	28-Feb-06	1	< 0.2	5.8	65.0	23.0	< 1.0
	20-Jun-06	2	< 0.2	1.7	3.2	5.0	< 1.0
	20-Jun-06	2 duplicate	< 0.2	1.7	3.2	4.9	< 1.0
	12-Sep-06	3	< 0.2	J 0.3	1.0	J 0.9	< 1.0
	7-Nov-06	4	< 0.2	J 0.3	< 0.2	J 0.6	< 0.9
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution for DEHP 1.25	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
MW19-7							
Dilution factor for BTEX 50	15-Nov-99	4	< 16	100	51	1,400	< 4
Dilution factor for BTEX 2	1-Aug-01	3	6.7	6.6	13.0	680	< 0.4
Dilution factor for BTEX 5	7-Mar-02	1	3	< 1	< 1	250	2
	5-Jun-02	2	0.48	1.60	27.00	27	< 0.40
	19-Nov-03	4	4.7	J 0.4	J 0.3	460	J 1.0
	16-Jun-04	2	J 2.8	130.0	2,100.0	630	< 1.0
	16-Jun-04	2 duplicate	J 4	130	2,100	610	< 1
	10-Aug-04	3	2	2	1	20	< 1
Dilution factor for BTEX 2	12-Jan-05	1	6.1	90.0	240.0	760	< 1.0
	12-Jan-05	1 duplicate	2.9	45.0	120.0	380	< 1.0
Lower Grab Water Sample; Dilution factor for BTEX 25	7-Apr-05	2	J 9.5	210.0	2,700	1,400	< 1.0
Upper Water Grab Sample; Dilution factor for BTEX 10	7-Apr-05	2	J 13	370	5,600	2,300	< 1
Lower Grab Water Sample	27-Jul-05	3	2.2	< 0.2	J 0.2	J 1.7	< 0.9
Upper Grad Water Sample	27-Jul-05	3	1.5	< 0.2	J 0.5	J 2.4	< 1.0
Dilution factor for BTEX 200	27-Oct-05	4	J 62	710	18,000	3,600	< 1
Dilution factor for Total Xylenes 5	28-Feb-06	1	7.5	4.9	J 0.3	870	< 1.0
Dilution factor for Total Xylenes 5	28-Feb-06	1 duplicate	7.5	5.0	J 0.3	840	< 0.9
	20-Jun-06	2	6.5	19.0	J 0.6	550	< 1.0
Dilution factor for Total Xylenes 5	12-Sep-06	3	4.9	33.0	J 0.3	440	< 1.0
	8-Nov-06	4	2.6	< 0.2	< 0.2	26	< 0.9
	7-Feb-07	1	2.6	< 1.0	< 5.0	< 3.0	< 1.0
	7-Feb-07	1 duplicate	2.6	< 1.0	< 5.0	< 3.0	< 1.0
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	23	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution for DEHP 1.1	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.1
	19-Feb-08	1	< 1.0	7.3	55.0	36	< 1.0
Dilution for DEHP 1.05	7-May-08	2	< 1.0	< 1.0	< 5.0	5.6	< 1.0
MW19-12	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	12-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	7-Nov-06	4 duplicate	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9
	6-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2 duplicate	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution for DEHP 1.11	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.1
GEI-2S							
	24-Feb-95	1	< 8.2	46.0	1,500	380.0	7.6
	25-Mar-98	1	NS	NS	NS	NS	B 2.5

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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
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
		PRACTICAL QUANTITATION LIMIT [PQL]	1	2	1	2	3
		NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS) CLASS IIA	0.2	700	1,000	1,000	2
		HIGHER OF NJGWQS AND PQL	1	700	1,000	1,000	3
	6-Jun-02	2	1.2	2.6	16.0	5.1	2.4
	18-Dec-03	4	< 0.2	< 0.2	J 0.4	< 0.6	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution for DEHP 1.18	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
MW-25R							
	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	21-Jun-06	2 duplicate	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	13-Sep-06	3	< 0.2	< 0.2	J 0.5	< 0.6	J 1.0
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	8-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2 duplicate	< 1.0	< 1.0	< 5.0	< 3.0	1.6
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP is 1.3	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.3
	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution for DEHP 1.29	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.3
MW-27s							
	22-Jun-06	2	J 0.6	3.7	3.9	14	J 3.0
	11-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	J 2.0
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	J 1.0
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	1.2
Dilution factor for DEHP is 1.4	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.4
Dilution factor for DEHP is 1.18	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2
Dilution factor for DEHP is 1.18	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2
MW-28s							
Dilution factor for BTEX 5	21-Jun-06	2	J 1.6	560.0	< 1.0	1,400	100
Dilution factor for Xylene is 5, DEHP is 10	13-Sep-06	3	J 0.2	210.0	< 0.2	450	570
Dilution factor for Xylene is 5, DEHP is 10	13-Sep-06	3 duplicate	J 0.3	220.0	< 0.2	470	550
Dilution factor for DEHP 10	7-Nov-06	4	< 0.2	92.0	< 0.2	180	250
Dilution factor for DEHP is 20	7-Feb-07	1	< 1.0	70.0	< 5.0	150	260
Dilution factor for DEHP is 20	7-Feb-07	1 duplicate	< 1.0	58.0	< 5.0	130	250
	27-Jun-07	2	< 1.0	30.0	< 5.0	56	28
Dilution factor for DEHP is 5	12-Sep-07	3	< 1.0	17.0	< 5.0	42	49
Dilution for DEHP is 1.2	6-Dec-07	4	< 1.0	32.0	< 5.0	96	14
Dilution for DEHP is 20	20-Feb-08	1	< 1.0	14.0	< 5.0	36	39
Dilution for DEHP is 11.1	7-May-08	2	< 1.0	2.7	< 5.0	6.6	160
MW-28i							
Dilution factor for BTEX 5	22-Jun-06	2	< 1.0	480.0	< 1.0	1,300	270
Dilution factor for Xylene and DEHP is 5	13-Sep-06	3	< 0.2	72.0	J 0.6	520	180
	7-Nov-06	4	< 0.2	10.0	< 0.2	14	90
Dilution factor for DEHP is 10	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	76
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	3.9
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	21
Dilution for DEHP is 1.3	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	1.4
Dilution for DEHP is 5	20-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	31
Dilution for DEHP is 1.11	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	28
MW-29s							
	22-Jun-06	2	< 0.2	J 0.2	< 0.2	J 0.6	J 1.0
	14-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	J 1.0
	9-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	31
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Deilution for DEHP 1.2	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2
	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP 1.05 [DUP-02]	19-Feb-08	1 duplicate	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP 1.18	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2
MW-30s							
	21-Jun-06	2	< 1.0	1,200	J 1.3	3,900	740
Dilution factor for BTEX 20, DEHP is 500	13-Sep-06	3	< 4.0	1,200	46.0	5,100	19,000
Dilution factor for BTEX 5, DEHP is 100	9-Nov-06	4	< 1.0	540	< 1.0	2,600	2,500
	7-Feb-07	1	NS - frozen	NS - frozen	NS - frozen	NS - frozen	NS - frozen

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Groundwater Monitoring Data

MONITORING WELLS	ANALYTICAL PARAMETERS						
	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexylphthalate (DEHP)
		UNITS	ug/l	ug/l	ug/l	ug/l	ug/l
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
		PRACTICAL QUANTITATION LIMIT [PQL]	1	2	1	2	3
		NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS) CLASS IIA	0.2	700	1,000	1,000	2
		HIGHER OF NJGWQS AND PQL	1	700	1,000	1,000	3
Dilution factor for BTEX 5, DEHP is 2000	26-Jun-07	2	2.1	300	< 25	1,200	13,000
Dilution factor for DEHP is 50	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	880
Dilution factor for DEHP is 200	12-Sep-07	3duplicate	< 1.0	< 1.0	< 5.0	< 3.0	1,700
Dilution factor for DEHP is12, BTEX is 5	6-Dec-07	4	1.5	34.0	110	260	200
Dilution factor for DEHP is 111, BTEX is 5	20-Feb-08	1	< 5.0	110	< 25	480	3,800
Dilution factor for Total Xylene is 5, DEHP is 1.25	8-May-08	2	< 1.0	100	< 5.0	460	9.6
MW-30I							
	21-Jun-06	2	J 0.3	38	1.4	170	J 2.0
	13-Sep-06	3	< 0.2	1.5	< 0.2	4.9	19
	8-Nov-06	4	< 0.2	J 0.2	< 0.2	< 0.6	J 1.0
	8-Nov-06	4duplicate	< 0.2	J 0.2	< 0.2	< 0.6	< 1.0
	7-Feb-07	1	NS - frozen	NS - frozen	NS - frozen	NS - frozen	NS - frozen
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	1.3
Dilution factor for DEHP 1.2	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2
Dilution factor for DEHP 1.05	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP 1.05	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP 1.16	7-May-08	2duplicate	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2
MW-30d							
	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	J 3.0
	14-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	J 9.0
	8-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9
	7-Feb-07	1	NS - frozen	NS - frozen	NS - frozen	NS - frozen	NS - frozen
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP 1.1	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.1
Dilution factor for DEHP 1.1	4-Dec-07	4duplicate	< 1.0	< 1.0	7.7	< 3.0	< 1.1
Dilution factor for DEHP 1.05	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP 1.05	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
MW-31s							
Dilution factor for BTEX 500, DEHP 83.5	8-May-08	2	< 500	5,500	< 2,500	27,000	310
MW-32s							
Dilution factor for BTEX 200, DEHP 121000	8-May-08	2	< 200	18,000	< 1,000	75,000	370,000
MW-33s							
Dilution factor for DEHP 1.25	8-May-08	2	4	6.6	< 5.0	27	16
MW-34s							
Dilution factor for Ethylbenzene and Total Xylenes 5 and for DEHP 1.33	6-May-08	2	1.3	230	< 5.0	1,200	3.0
MW-35s							
Dilution factor for Ethylbenzene and Total Xylenes 500, DEHP 57	6-May-08	2	1.3	230	< 5.0	1,200	490
Atmospheric Blank	13-Jan-05	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	8-Apr-05	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	26-Jul-05	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	27-Oct-05	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	28-Feb-06	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	20-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	12-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	8-Feb-07	1	< 1.0	< 1.0	J 1.9	< 3.0	< 1.0
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
ATM-01	20-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
ATM-01, Dilution factor for DEHP 1.06	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.1
Rinsate Blank	14-Jan-05	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	9-Apr-05	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	27-Jul-05	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	27-Oct-05	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	28-Feb-06	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0

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MONITORING WELLS	ANALYTICAL PARAMETERS						
	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexylphthalate (DEHP)
		UNITS	ug/l	ug/l	ug/l	ug/l	ug/l
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
		PRACTICAL QUANTITATION LIMIT [PQL]	1	2	1	2	3
		NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS) CLASS IIA	0.2	700	1,000	1,000	2
		HIGHER OF NJGWQS AND PQL	1	700	1,000	1,000	3
	22-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	13-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	14-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	9-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	9-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	8-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	8-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	10-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	1.1
	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	2.7
	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
RB-02	20-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
RB-03	20-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	5-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Trip Blank	13-Jan-05	1	< 0.2	< 0.2	< 0.2	< 0.6	NA
	9-Apr-05	2	< 0.2	< 0.2	< 0.2	< 0.6	NA
	27-Jul-05	3	< 0.2	< 0.2	< 0.2	< 0.6	NA
	27-Oct-05	4	< 0.2	< 0.2	< 0.2	< 0.6	NA
	28-Feb-06	1	< 0.2	< 0.2	< 0.2	< 0.6	NA
	20-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	NA
	12-Sep-06	3	< 0.2	J 0.2	< 0.2	< 0.6	NA
	13-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	NA
	6-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	NA
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	NA
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	NA
	8-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	NA
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	NA
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	NA
	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	NA
	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	NA
	18-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	NA

LEGEND

ug/L = micrograms per liter

NJGWQS = New Jersey Groundwater Quality Standards

ROD: Record of Decision

NA = Not Applicable

NS = Not Sampled

ND: No Detection

duplicate = Duplicate sample

Concentration exceeds NJGWQS — 1.2

B: Analyte also detected in blank

J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

NOTES

(1) Low flow sampling initiated 1st quarter 2002

(2) GEI series wells are piezometers installed by Weston

(3) GEI series wells, MW-19-3, and MW-19-4 are not sampled under revised groundwater monitoring program effective 1Q05.

TABLE 3

Through 2nd Quarter 2008

L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Monitoring
MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate[1]	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA		NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005[2]
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	80	30	589	ND	ND	0.054	3.6 J	150	NS
	3Q04	630	30.9	553	ND	ND	0.12	1.7 J	230	NS
	1Q05	350	17.2	347	0.22	ND	ND	7.4	230	NS
	2Q05[L]	390	10.8 J	413	2.8	ND	ND	33.3	3.0 J	NS
	2Q05[U]	1,400	15	455	3	ND	ND	30	2.0 J	NS
	3Q05	3	67	1,070	0	1.3	ND	6	33	NS
	4Q05	120	23	620	1	0.88	ND	37	19	NS
	1Q06	25	36	559	ND	ND	ND	3.3 J	140	NS
	2Q06	56	44	460	ND	0.43 J	ND	3.2 J	95	ND
Dilution factor for Methane 5	3Q06	60	13	435	ND	0.43 J	ND	5	310	ND
Dilution factor for Methane 100	4Q06	20	16	411	ND	ND	0	2.9 J	1,700	ND
	1Q07	140	7	340	ND	ND	ND	ND	540	ND
	2Q07	180	20	1,100	ND	0.62	ND	ND	380	ND
	3Q07	1,200	23	710	ND	0.76	0	ND	300	ND
	4Q07	FS	30	500	ND	0.64	0	ND	680	ND
	1Q08	150	4	190	2	ND	ND	25	ND	ND
Dilution factor for Dissolved Lead 5	2Q08	1,900	26	1,200	ND	0.52	ND	ND	650	ND
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	100	ND	725	1.4	ND	ND	32.4	ND	NS
	3Q04	49	3.2 J	928	3.9	ND	ND	35.3	ND	NS
	1Q05	43	ND	404	2.1	ND	ND	27.9	ND	NS
	2Q05[L]	410	16.4	1440	2.9	ND	ND	34.1	ND	NS
	2Q05[U]	350	3.2 J	1430	2.8	ND	ND	32.9	ND	NS
	3Q05	53	9.2 J	1140	4.1	ND	ND	39	ND	NS
Dilution factor for Nitrate 2	4Q05	240	12.4	659	4.6	ND	ND	44.2	ND	NS
MW-19-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10	6.0 J	704	ND	ND	ND	33.6	1600	NS
	3Q04	87	6.0 J	916	0.87	ND	ND	23.9	280	NS
	1Q05	110	5.2 J	568	0.093 J	0.13 J	ND	69.4	26	NS
	2Q05[L]	160	11.6 J	780	0.62	0.17 J	ND	29.6	ND	NS
	2Q05[U]	150	ND	750	0.64	ND	ND	29.3	ND	NS
	3Q05	8	3.2 J	970	1	0.12 J	ND	27.2	120	NS
	4Q05	220	ND	864	0.78	ND	ND	60.3	35	NS
	4Q05D	92	ND	906	0.6	ND	ND	62.1	49	NS
MW-19-4	1Q06	12	ND	730	2.4	ND	ND	37.4	ND	NS
	2Q06	520	8.4 J	774	2.8	ND	ND	45.8	ND	ND
Dilution factor for Nitrate 5	3Q06	85	ND	740	4.8	ND	ND	50.9	ND	ND
Dilution factor for Nitrate 5	3Q06D	92	ND	733	4.9	ND	ND	50.1	ND	ND
	4Q06	29	ND	529	3	ND	ND	47.1	ND	ND
	1Q07	54	3	340	1.7	ND	ND	37	ND	ND
	2Q07	110	1.4	1100	1.7	ND	ND	29	ND	ND
	3Q07	160	1.2	660	1.8	ND	ND	40	ND	ND
	3Q07D	160	ND	660	1.8	ND	ND	40	ND	ND
	4Q07	FS	1.3	710	2.6	ND	ND	38	ND	ND
	4Q07D	FS	ND	730	2.6	ND	ND	38	ND	ND
	1Q08	270	1.2	790	1.8	ND	ND	24	ND	ND
	2Q08	100	2.1	860	1.1	ND	ND	32	ND	ND
DUP-02	2Q08D	80	2.1	870	1.1	ND	ND	32	ND	ND
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3Q04	180	14	942	0.06 J	ND	ND	15.7	2100	NS
	1Q05	380	3.6 J	174	0.49	ND	ND	15.8	34	NS
	2Q05[L]	3000	3.6 J	177	ND	ND	ND	12	380	NS
	2Q05[U]	100	3.6 J	141	0.43	ND	ND	8.7	ND	NS
	3Q05	69	6.8 J	463	ND	ND	ND	7.7	1700	NS
	4Q05	58	ND	144	0.38	ND	ND	12.8	3.8 J	NS
	1Q06	12	ND	287	0.97 J	ND	ND	11.2	290	NS
	2Q06	22	9.2 J	190	0.19	ND	ND	14.2	150	ND
Dilution factor for Methane 10	3Q06	30	ND	275	0.12	ND	ND	10.2	700	ND
Dilution factor for Methane 10	4Q06	620	ND	236	0.1	ND	ND	10.9	640	ND
	1Q07	240	7	340	ND	0.51	ND	ND	500	0.011
	2Q07	91	18	350	ND	0.13	ND	ND	570	ND
Dilution factor for Methane 4	3Q07	110	7.8	360	ND	ND	ND	ND	840	ND
	4Q07	FS	5.1	240	0.13	0.14	0.12	7.8	370	ND
	1Q08	380	1.9	120	0.16	ND	ND	7.2	ND	ND

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Through 2nd Quarter 2008

L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Monitoring
MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate[1]	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA		NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005[2]
	1Q08D	170	1.8	120	0.15	ND	ND	7.2	ND	ND
	2Q08	560	3.3	370	0.15	ND	ND	13	340	ND
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	35	10.4 J	1670	1.6	ND	ND	37.3	140	NS
	3Q04	110	18.8	1240	1.1	ND	0.062	38.3	140	NS
	1Q05	82	11.2 J	544	1.7	ND	ND	44	130	NS
	2Q05[L]	23	18	1180	1.3	0.29 J	ND	33.5	44	NS
	2Q05[U]	160	ND	1190	1	ND	ND	32.7	96	NS
	3Q05	90	40.8	1520	1.1	ND	ND	35	38	NS
	4Q05	43	10.8 J	940	3.5	ND	ND	47.8	43	NS
	1Q06	14	4.4 J	634	1.8	ND	ND	36.6	50	NS
	2Q06	14	ND	802	2	ND	ND	38.3	44	ND
	2Q06D	15	ND	790	2	ND	ND	37.7	45	ND
	3Q06	75	4.4 J	682	2.6	ND	ND	37.1	32	ND
	4Q06	240	ND	574	2.3	ND	ND	38.3	31	ND
	1Q07	62	5.3	490	2.4	ND	ND	34	21	ND
	2Q07	70	8.7	1900	2.9	ND	ND	48	230	ND
	3Q07	100	2.6	820	2	ND	ND	40	68	ND
	4Q07	FS	3.2	710	2.3	ND	ND	36	87	ND
	1Q08	120	2.6	650	1.1	ND	ND	28	78	ND
	2Q08	22	2.9	1,200	1.9	ND	ND	32	27	ND
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	110	6.8 J	2110	0.21	ND	ND	47.2	5200	NS
	2Q04D	88	9.2 J	2040	0.21	0.15 J	ND	37.3	5400	NS
	3Q04	2000	4.4 J	1920	1.5	ND	ND	64.4	2400	NS
Dilution factor for Methane 250	1Q05	75	6.0 J	774	3.2	ND	ND	29.1	10000	NS
Dilution factor for Methane 250	1Q05D	77	7.2 J	754	3.2	ND	ND	30.5	11000	NS
	2Q05[L]	32	54	472	ND	0.50 J	0.45	ND	13000	NS
	2Q05[U]	41	48	481	ND	0.35 J	0.32	ND	10000	NS
	3Q05[L]	17	45.6	1450	ND	ND	0.3	19.2	2900	NS
	3Q05[U]	17	31.6	1280	0.22	0.29 J	0.1	25.7	1600	NS
Dilution factor for Methane 250	4Q05	16	32	926	0.16	0.5	0.23	8.9	7700	NS
	1Q06	14	33.2	621	ND	ND	0.3	2.2 J	10000	NS
	1Q06D	10	36.8	626	ND	ND	0.3	1.6 J	10000	NS
Dilution factor for Methane 200	2Q06	68	16.8	665	0.87	ND	0.16	12.9	11000	ND
Dilution factor for Methane 100	3Q06	79	9.2 J	799	2.1	ND	0.15	15.1	8600	ND
Dilution factor for Methane 100	4Q06	600	4.4 J	568	3.4	ND	ND	31.3	5600	ND
Dilution factor for Methane 4	1Q07	38	18	420	0.59	ND	0.31	11	1200	ND
Dilution factor for Methane 5	1Q07D	40	19	440	0.69	ND	0.31	12	1300	ND
	2Q07	130	4.4	610	0.25	ND	ND	12	530	ND
	3Q07	890	1.8	590	0.39	ND	ND	16	120	ND
	4Q07	FS	2.2	1200	2.6	0.23	ND	21	170	ND
	1Q08	180	6.7	1600	3.2	ND	ND	24	300	ND
	2Q08	52	6.8	1100	0.24	0.12	ND	17	430	ND
MW-19-8	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	45	14.4	1120	ND	ND	0.15	22.8	79	NS
	3Q04	15	7.2 J	573	ND	0.24 J	0.12	11.5	790	NS
Dilution factor for Methane 5	1Q05	91	25.2	1150	ND	ND	0.18	16.3	510	NS
	2Q05	270	20	796	ND	ND	ND	23.7	5.3	NS
	3Q05	ND	8.8 J	876	0.33	0.26 J	ND	20.3	74	NS
	4Q05	210	4.4 J	926	0.88	ND	ND	24.6	24	NS
MW-19-9D	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	210	6.0 J	621	0.14	0.33 J	ND	18.2	1300	NS
	3Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	34	6.8 J	563	ND	ND	ND	18	2.6 J	NS
	3Q04	18	10.4 J	908	ND	ND	ND	19.2	3.3 J	NS
	3Q04D	22	10.8 J	890	ND	0.24 J	ND	17.9	2.9 J	NS
	1Q05	29	5.2 J	625	ND	ND	ND	16.9	74	NS
	2Q05[L]	170	32.4	653	ND	ND	ND	18.1	48	NS

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Through 2nd Quarter 2008

L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Monitoring
MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate[1]	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA		NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005[2]
	2Q05[U]	93	32	691	ND	0.12 J	ND	18.3	48	NS
	3Q05	26	10.4 J	560	ND	ND	ND	16	ND	NS
	4Q05	56	17.2	654	ND	ND	ND	15.3	3.2 J	NS
MW-19-11	1Q05	940	4.8 J	4750	2.2	ND	ND	65.6	9.9	NS
	2Q05[L]	NS	64	731	ND	0.42 J	ND	18	930	NS
	2Q05[U]	14	27.2	740	ND	ND	ND	17.2	1200	NS
	3Q05	63	106	555	ND	ND	0.11	21.5	26	NS
Dilution factor for Methane 10	4Q05	80	15.2	654	ND	0.32 J	ND	25.5	440	NS
MW-19-12	2Q06	4000	11.2 J	548	0.048 J	ND	ND	15.1	4.8 J	ND
Dilution factor for Methane 5	3Q06	170	6.4 J	622	0.36	ND	ND	22.9	170	ND
	4Q06	2	4.4 J	716	0.22	ND	ND	21.3	130	ND
	4Q06D	2	ND	718	0.17	ND	ND	21.8	130	ND
	1Q07	4	5.5	400	0.56	0.12	ND	20	ND	ND
	2Q07	55	ND	240	0.93	ND	ND	13	ND	ND
	2Q07D	8	ND	270	0.93	ND	ND	13	ND	ND
	3Q07	73	ND	290	0.89	ND	ND	13	ND	ND
	4Q07	FS	3	260	0.9	ND	ND	11	ND	ND
	1Q08	9	ND	160	0.84	ND	ND	5.7	ND	ND
	2Q08	ND	1.1	220	1	ND	ND	10	ND	ND
MW-25R	2Q06	1100	18.8	340	ND	0.24 J	ND	2.9 J	140	ND
	3Q06	>5700	279	329	ND	0.24 J	0.14	3.3 J	30	ND
	4Q06	1000	16.8	331	ND	ND	ND	6.2	25	ND
	1Q07	240	49	300	ND	0.12	ND	ND	29	ND
	2Q07	>5700	100	340	ND	0.15	ND	5.9	33	ND
	2Q07D	>5700	100	350	ND	0.11	ND	6.4	32	ND
	3Q07	>5700	10	260	ND	ND	ND	14	ND	ND
	4Q07	FS	490	380	ND	0.41	0.43	10	ND	ND
	1Q08	>5700	140	360	ND	0.13	0.17	5.4	55	ND
	2Q08	>5700	200	330	ND	0.15	0.23	ND	130	ND
MW-27s	2Q06	NR	5180	630	ND	0.26 J	4.8	43.3	20	ND
	3Q06	>5700	3850	798	ND	ND	1.4	108	3.7 J	ND
	4Q06	>5700	166	753	0.16	ND	0.82	116	2.3 J	ND
	1Q07	>5700	580	650	ND	ND	0.19	91	ND	ND
	2Q07	>5700	48	640	ND	ND	3.5	97	ND	ND
	3Q07	270	150	630	ND	ND	0.12	84	ND	ND
	4Q07	FS	260	620	0.16	0.45	ND	87	22	ND
	1Q08	>5700	850	530	0.65	ND	0.74	78	ND	ND
	2Q08	>5700	770	490	0.19	ND	0.91	67	ND	ND
MW-28s	2Q06	6	35.2	350	ND	0.35 J	0.25	2.6 J	3100	ND
Dilution factor for Methane 200	3Q06	1,300	22	460	ND	0.26 J	0.37	ND	3,200	ND
Dilution factor for Methane 200	3Q06D	1,500	22	468	ND	ND	0.37	1.7 J	3,100	ND
Dilution factor for Methane 100	4Q06	1	25	347	ND	ND	0.43	2.0 J	4,400	ND
	1Q07	460	180	350	ND	ND	0.42	ND	170	ND
	1Q07D	230	93	360	ND	ND	0.43	ND	810	0.0051
Dilution factor for Methane 10	2Q07	78	49	400	ND	0.14	0.34	ND	1,600	ND
Dilution factor for Methane 4	3Q07	ND	50	350	ND	ND	0.34	ND	1,100	ND
Dilution for Methane is 40	4Q07	320	42	330	ND	0.19	0.38	ND	1,900	ND
	1Q08	80	31	250	ND	0.14	0.36	ND	570	ND
Dilution for Methane is 10	2Q08	11	44	360	ND	0.19	ND	ND	1,400	ND
MW-28I										
Dilution factor for Methane 10	2Q06	290	28	367	0.047 J	ND	0.22	2.2 J	1900	ND
Dilution factor for Methane 100	3Q06	>5,700	42.8	338	ND	ND	0.19	3.5 J	1500	ND
Dilution factor for Methane 100	4Q06	440	15.6	335	ND	ND	0.22	3.0 J	1500	ND
	1Q07	110	34	380	0.1	0.2	0.35	ND	410	ND
Dilution factor for Methane 4	2Q07	24	23	330	ND	0.27	0.29	ND	710	ND
	3Q07	37	37	300	ND	0.28	0.27	ND	560	ND
	4Q07	160	34	360	ND	0.47	0.64	5.1	370	ND
	1Q08	ND	25	290	ND	0.37	0.29	ND	170	ND
Dilution factor for Methane 10	2Q08	17	38	560	ND	0.31	0.23	ND	870	ND
MW-29s	2Q06	250	58.8	504	ND	11.9	0.45	4.0 J	1200	ND
Dilution factor for Methane 250	3Q06	>5700	54	546	ND	9.9	0.32	1.9 J	5000	ND
Dilution factor for Methane 100	4Q06	190	35.6	509	ND	8.3	0.29	3.9 J	5200	ND
	1Q07	30	41	510	0.14	7.5	0.34	ND	450	0.0084

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MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate[1]	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA		NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005[2]
Dilution factor for Methane 4	2Q07	150	56	490	ND	8.3	0.29	ND	1000	ND
Dilution factor for Methane 10	3Q07	1900	54	520	ND	8.1	0.4	ND	2500	ND
Dilution for Methane 10	4Q07	FS	66	500	ND	9.3	0.44	ND	3100	0.014
Dilution for Lead 5	1Q08	93	60	510	ND	7.5	0.34	ND	2000	ND
Dilution for Lead 5	1Q08D	120	38	510	ND	7.6	0.35	ND	1800	ND
Dilution for Methane 10	2Q08	65	40	490	ND	8.2	0.3	ND	2100	ND
MW-30s	2Q06	2200	75.6	348	ND	0.86	0.17	5.2	3800	ND
Dilution factor for Methane 200	3Q06	>5700	132	457	ND	0.89	0.32	ND	2500	ND
Dilution factor for Methane 100	4Q06	>5700	147	448	ND	1.1	0.24	5.5	6500	ND
Dilution factor for Methane 10	2Q07	>5700	650	350	ND	0.94	1.6	ND	1800	ND
Dilution factor for Methane 4	3Q07	>5700	220	440	ND	1	0.34	ND	1700	ND
Dilution factor for Methane 4	3Q07D	>5700	180	400	ND	1.1	0.33	ND	1500	ND
Dilution factor for Methane 10	4Q07	>5700	120	520	ND	1.3	0.22	ND	1900	ND
Dilution factor for Methane 4	1Q08	1,100	2,300	410	ND	0.97	1.2	ND	1,300	ND
Dilution factor for Methane 10	2Q08	>5700	36	320	ND	0.93	0.26	ND	1,700	ND
MW-30i	2Q06	>5700	18.8	369	ND	1.8	0.15	8.2	1100	ND
Dilution factor for Methane 100	3Q06	290	41.6	414	ND	0.83	0.23	3.2 J	1200	ND
Dilution factor for Methane 50	4Q06	40	17.2	456	ND	0.89	0.24	11.1	930	ND
Dilution factor for Methane 50	4Q06D	43	41.2	478	ND	ND	0.23	11.1	930	ND
Dilution factor for Methane 4	2Q07	36	34	300	ND	0.8	0.31	ND	680	ND
	3Q07	ND	41	430	ND	1	0.33	ND	97	ND
	4Q07	470	69	530	ND	1.1	0.45	ND	ND	ND
	1Q08	2	33	410	ND	1.2	0.34	ND	370	ND
	2Q08	23	27	540	ND	1	ND	ND	510	ND
Dup 03	2Q08D	16	26	300	ND	1	0.29	ND	560	ND
MW-30d	2Q06	2800	11.6	248	ND	0.30 J	ND	9.7	45	ND
	3Q06	>5700	6.4 J	288	0.043 J	ND	ND	10.6	5.3	ND
	4Q06	47	5.6 J	375	ND	ND	ND	12.5	22	ND
	2Q07	130	13	240	ND	0.11	ND	10	77	ND
	3Q07	78	9	260	ND	0.16	ND	11	ND	ND
	4Q07	FS	20	300	ND	0.24	0.11	11	ND	ND
	4Q07D	FS	20	270	ND	0.19	0.28	11	ND	ND
	1Q08	790	8	300	ND	0.12	ND	9.4	47	ND
	2Q08	420	12	370	ND	0.27	ND	5.3	140	ND
MW-31s										
Dilution factor for Ammonia and Methane 10	2Q08	>5700	460	810	0.12	22	0.68	44	3000	ND
MW-32s										
Dilution factor for Methane 10	2Q08	>5700	NS	3400	ND	2	14	8.6	4800	ND
MW-33s										
Dilution factor for Methane 10	2Q08	>5700	220	310	ND	5	0.17	8	2800	0.011
MW-34s										
Dilution factor for Methane 10	2Q08	>5700	NS	490	ND	ND	ND	12	3700	ND
MW-35s										
Dilution factor for Methane is 10	2Q08	>5700	2100	570	ND	1.8	ND	13	3900	ND
GEI-2S	3Q07	66	8.0	460	2.2	ND	ND	25	490	ND
	2Q08	57	6.7	650	1.9	ND	ND	34	ND	ND
Atmospheric Blank	1Q05	> 5700	ND	ND	ND	ND	ND	ND	ND	NS
	4Q05	5	ND	10.0 J	ND	ND	ND	0.30 J	ND	NS
	1Q06	2	ND	ND	ND	ND	ND	ND	ND	NS
	2Q06	38	ND	ND	ND	ND	ND	1.5 J	ND	ND*
	3Q06	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q06	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q07	1	ND	ND	ND	ND	ND	ND	22	ND*
	2Q07	ND	ND	19	ND	ND	ND	ND	ND	ND*
	3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q07	ND	ND	ND	ND	0.16	ND	ND	ND	ND*
	1Q08	ND	ND	ND	ND	0.16	ND	ND	ND	ND*
	2Q08	ND	ND	ND	ND	ND	ND	ND	ND	0.0051*

TABLE 3

Through 2nd Quarter 2008

L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Monitoring
MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate[1]	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA		NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005[2]
Rinsate Blank	1Q05	36	ND	ND	ND	ND	ND	ND	ND	NS
	3Q05	ND	ND	ND	ND	ND	ND	ND	ND	NS
	4Q05	ND	ND	ND	ND	ND	ND	ND	ND	NS
	1Q06	ND	ND	ND	ND	ND	ND	ND	ND	NS
	2Q06	120	ND	ND	ND	ND	ND	ND	ND	ND*
	2Q06	250	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q06	45	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q06	84	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q06	56	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	2Q07	1	ND	2.5	ND	ND	ND	ND	ND	ND*
	2Q07	2	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q07	ND	ND	11	0.17	ND	ND	ND	ND	ND*
	1Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q08	ND	ND	ND	ND	ND	0.15	ND	ND	ND*
	2Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	2Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*

Notes:

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

(1) Sulfate results reported through 4Q06 have a dilution factor of 5, except for blank samples or unless otherwise noted. Starting 1Q07, there is no dilution factor for sulfate unless noted otherwise.

(2) NJ CLASS IIA GWQC, NJ SWQC [FW2] and PQL are for Total Lead

NCS: No Criteria Specified by NJDEP

NS = Not Sampled

FS= Samples frozen in transit to lab.

ND = Not Detected

L Lower Grab Sample

U Upper Grab Sample

* Total Lead

Table 4
L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Monitoring
MNA Field Data

Well ID	Event	DO (mg/L)	pH	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.97	7.23	24	890	2	13.94	NM	160	70
	3Q04	0.1	7.62	-10	1179	2	16.18	<10	200	95
	1Q05	0.2	7.67	100	590	5	11.82	9	241(1)	121
	2Q05L	1	7.84	NM	734	10	8.6	0.3	30	<10
	2Q05U	1	7.69	NM	760	10	8.46	0.4	29	<10
	3Q05	1	7.03	185	1920	9	15.86	>10	110	60
	4Q05	5.34	6.47	87	1005	4	15.01	>10	110	18
	1Q06	3.53	6.59	-50	978	13	8.72	>10	11	>100
	2Q06	4.92	7.66	-43	905	9	13.98	>10	225	60
	3Q06	0.34	7.08	-24	761	5	16.2	18	100	90
	4Q06	0.08	6.53	-76.7	579	7	15.36	>10	275	70
	1Q07	0.15	6.59	-90.3	444	5	10.38	20	250	35
	2Q07	0.05	6.69	-56	1640	2.5	13.7	>20	100	120
	3Q07	0.1	6.59	-94	1201	2	17.05	>20	200	80
	4Q07	0.2	6.36	5	865	5.1	12.54	>20	225	40
	1Q08	0.6	6.4	111.7	214.2	5	8.55	0.1	40	14
	2Q08	0.22	6.12	68.4	1,068	6.66	10.55	>10	125	130
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	13.9	7.22	180	1373	10	13.9	NM	125	17
	3Q04	1	7.50	80	1910	10	18.49	0.2	90	28
	1Q05	1	7.80	213	676	10	11.49	0	152(1)	30
	2Q05L	0.8	7.60	NM	2540	22	9.15	0.2	75	<10
	2Q05U	1	7.67	NM	2540	10	8.5	0.1	90	<10
	3Q05	1	7.22	208	2260	20	15.23	0.1	100	10
	4Q05	6.54	7.06	291	1149	36	16.70	0.1	45	<10
MW-19-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	4.45	7.30	83	1199	6	13.97	NM	210	60
	3Q04	5	7.45	59	1830	9	16.97	2	130	15.5
	1Q05	1	7.30	249	825	10	11.02	0	395(1)	63
	2Q05L	0.8	7.80	NM	1312	29	7.76	0.1	100	<10
	2Q05U	0.8	7.76	NM	1316	10	8.00	0.1	100	10
	3Q05	1	7.59	204	1980	3	14.87	1	100	10
	4Q05	4.75	6.79	290	1442	1	16.50	0.2	105	15.5
MW-19-4	1Q06	7.62	7.53	-64	1351	14	5.61	0.6	12	>50
	2Q06	6.53	7.74	116	1442	22	13.93	0.2	100	17
	3Q06	2.93	7.43	92	1335	9	18.68	0	10	19
	4Q06	4.03	7.69	172	886	10	16.67	0	150	22
	1Q07	2.01	6.95	105	418	17	11.71	0	125	11
	2Q07	0.8	6.74	-1	1800	7.8	14.59	0.1	75	16
	3Q07	0.4	7.16	45	1187	10	17.68	0.05	125	26
	4Q07	0.6	7.57	216	1385	6	12.58	0	50	20
	1Q08	4	7.02	73.1	938.5	9	7.98	0	100	13
	2Q08	4.13	6.52	113	987	8.33	11.22	0.1	100	15
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.16	7.02	41	1550	4	12.89	NM	130	70
	3Q04	1	7.26	87	1740	19	16.3	2	150	60
	1Q05	1	7.94	226	269	9	10.59	0	126(1)	63
	2Q05L	1	7.94	NM	2640	10	8	0	45	16
	2Q05U	0.8	7.99	NM	2100	38	6.96	0	45	10.5
	3Q05	0.8	7.44	184	920	2	15.15	>10	100	35
	4Q05	1.84	6.27	217	216	10	15.15	0.1	30	11
	1Q06	3.35	6.35	249	512	3	8.17	0	12	>100
	2Q06	6.79	7.50	36	327	5	14.4	0.3	90	27
	3Q06	2.87	7.45	143	406	10	16.38	0	100	22
	4Q06	6.3	7.55	184	347	6	14.49	0.4	145	32
	1Q07	0.16	6.53	14.2	370	4	10.08	1	175	16
	2Q07	0	7.04	-36	539	6.8	14	>20	190	70
	3Q07	0.1	7.09	36	530	5	16.18	1	160	65
	4Q07	1.6	6.17	45	311	3.6	12.59	0.4	130	30
	1Q08	1.83	6.28	108.1	125.5	12	6.14	0.1	35	15
	2Q08	1.48	5.99	6	371	10	10.06	0.2	100	40
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	5.48	6.86	56	2640	10	15.24	NM	80	33
	3Q04	1	7.43	83	2490	4	16.61	0.4	125	20
	1Q05	1	7.73	241	867	12	11.79	0	204(1)	41
	2Q05L	1	7.50	NM	1870	27	10.64	0.1	75	15
	2Q05U	1	7.48	NM	1790	2	9.89	1	80	20
	3Q05	1	7.28	191	3030	36	15.2	0.4	70	20
	4Q05	5.39	5.86	307	1550	9	14.76	0	80	10.5
	1Q06	3.71	6.60	237	1116	4	9.93	0	12	>100

Table 4
L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Monitoring
MNA Field Data

Well ID	Event	DO (mg/L)	pH	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
	2Q06	6.61	7.53	35	1520	5	13.51	0.2	125	23
	3Q06	4.48	7.44	162	1249	9	16.11	0	100	24
	4Q06	4.7	7.47	207	941	8	15.45	0	70	40
	1Q07	1.16	6.82	69.5	602	8	11.38	0.2	90	16
	2Q07	1	6.69	-35	2720	5.6	14.36	0.1	140	50
	3Q07	0.8	7.16	12	1458	4	17.3	0.6	160	42
	4Q07	2	7.44	51.4	1283	5.9	12.92	0.3	25	17
	1Q08	1	6.52	91.2	854.4	6	10.71	0.4	100	20
	2Q08	3.69	6.71	119.4	1,205	2.4	11.83	0.6	110	35
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	5.89	6.82	48	380	6	14.34	NM	95	90
	3Q04	1	6.92	113	4040	2	16.77	1	75	70
	1Q05	0.6	7.16	281	1388	1	11.34	3	200(1)	63
	2Q05L	0.05	7.82	102	938	25	11.7	15	160	36
	2Q05U	1	7.80	NM	961	49	11.22	15	200	29
	3Q05L	0.8	7.03	90	2670	17	14.76	>10	95	0.8
	3Q05U	1	7.02	185	2460	5	16.02	>10	70	35
	4Q05	1.58	5.98	-44	1434	14	14.85	>10	11	30
	1Q06	1.86	6.20	43	1130	14	10.81	>10	>100	>100
	2Q06	3.87	7.41	-33	1284	9	13.28	>10	170	70
	3Q06	0.6	7.28	33	1254	10	15.8	9	200	50
	4Q06	0.44	7.47	204	970	7	15.23	2	185	70
	1Q07	0.12	6.80	-84.3	518	6	11.52	9	175	23
	2Q07	0	6.98	36	1397	4.5	15.68	2	100	38
	3Q07	0.2	7.05	181	1016	5	17.48	0.2	120	38
	4Q07	0.6	6.48	74.2	2126	5.3	12.7	0.2	70	30
	1Q08	1	6.21	105.4	2023	10	9.48	0.3	45	27
	2Q08	0.24	6.42	0.5	1,892	9.13	11.31	1.5	130	22.5
MW-19-8	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.98	6.9	-24	2010	10	15.69	NM	125	30
	3Q04	0.4	7.52	48	1093	7	18.29	2	100	19
	1Q05	0.3	7.06	161	177	16	12.92	10	142(1)	28
	2Q05	0.8	7.92	NM	1510	47	10.82	6	70	19
	3Q05	0	7.07	147	1820	2	18.86	3	80	19
	4Q05	6.74	6.10	330	1460	5	17.19	3	85	20
MW-19-9D	1Q04	NS	NS	NS	NS	NS	NS	**	**	**
	2Q04	3.03	7.11	-28	480	63	14.64	**	**	**
	3Q04	0.2	7.40	8	545	35	15.7	**	**	**
	1Q05	1.5	7.14	193	871	267	11.58	**	**	**
	2Q05	0.05	7.91	NM	471	70	12.12	**	**	**
	3Q05	0	7.35	189	552	2	16.4	**	**	**
	4Q05	0.94	5.78	-91	465	1	13.96	**	**	**
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.82	6.78	85	1050	7	13.94	NM	80	25
	3Q04	0.1	7.35	107	1498	11	15.56	1.5	65	20
	1Q05	0.15	7.25	285	1039	28	13.19	2	127(1)	20
	2Q05L	0.8	7.47	NM	1209	52	12.18	0.4	70	13
	2Q05U	1	7.48	NM	1282	41	11.18	1	75	13
	3Q05	1	7.62	212	1148	18	16.47	0.6	70	13
	4Q05	9.89	6.73	229	1167	39	15.00	1	60	10
MW-19-11	1Q05	1.5	7.01	215	740	8	10.3	0	205(1)	65
	2Q05L	0.8	7.88	NM	1424	38	12.18	4	110	17
	2Q05U	0.8	7.80	NM	1442	10	12.12	4	90	15
	3Q05	1	7.72	209	1155	77	16.63	1	80	12.5
	4Q05	2.5	6.51	271	1470	10	15.86	0.4	85	15
MW-19-12	2Q06	0.99	7.29	-33	1046	9	16.06	4	120	100
	3Q06	0.21	7.41	5	1460	18	17.9	4	12	17
	4Q06	0.23	7.60	191	1234	10	16.72	3.5	1000	17
	1Q07	0.18	6.91	-39.6	680	8	12.29	1.5	100	10
	2Q07	2	7.24	137	473	5	18.56	0	110	11
	3Q07	2	7.45	118	463	2	19.2	0	85	0
	4Q07	9	7.55	2.7	439	8.1	9.68	0	110	<10
	1Q08	2	6.72	78.4	197.2	2	7.59	0	40	<10
	2Q08	7.4	7.09	79	386	0.12	13.31	0	110	<10
MW-25R	2Q06	0.47	6.77	-102	620	9	14.74	3.5	75	17
	3Q06	0.97	5.57	90.1	572	229	15.67	5	160	350
	4Q06	0.25	7.14	-41.2	517	24	11.33	1.5	90	100
	1Q07	1.8	6.80	-100.4	636	55	7.15	3	100	150

Table 4
L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Monitoring
MNA Field Data

Well ID	Event	DO (mg/L)	pH	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
	2Q07	0.35	6.69	-65.8	453	123	14.38	3.5	40	20
	3Q07	1	6.98	-75.3	355	NM-mtr broke	18.93	0.3	75	15
	4Q07	0.6	7.15	30	616	127	6.81	2	100	110
	1Q08	0.34	7.32	-79	639	47.6	7.87	4.5	150	12.5
	2Q08	0.21	7.20	-80	601	46	10.95	4.5	150	15
MW-27s	2Q06*	1.66	7.74	183	933	>1000	16.65	0	80	<10
	3Q06	0.54	7.72	45	1437	247	19.44	0	200	14
	4Q06	2.36	7.59	134	1275	>1000	16.39	0	<10	20
	1Q07	4	7.15	-10.8	1078	>1000	8.31	NM - sediment	NM - sediment	NM - sediment
	2Q07	8.29	7.09	105.6	765	>1000	15.23	NM - sediment	NM - sediment	NM - sediment
	3Q07	0.4	7.24	27	1017	>1000	17.58	NM - sediment	NM - sediment	NM - sediment
	4Q07	1	7.16	165	1002	997	11.34	NM - sediment	NM - sediment	NM - sediment
	1Q08	1	7.15	71.5	612.7	186	8.41	NM - sediment	NM - sediment	NM - sediment
	2Q08	1	7.18	111.1	735	81.1	11.43	0	22.5	85
MW-28s	2Q06	0.11	7.69	-478	687	12	14.38	>10	82	37
	3Q06	0.27	5.96	-101.8	831	14	17.69	>20	180	90
	4Q06	0.04	7.22	-146.8	684	20	15.27	>20	200	55
	1Q07	2.1	6.74	-176.2	650	12	9.75	>20	160	22
	2Q07	0.48	7.01	-138.3	568	36	15.36	>20	180	35
	3Q07	0.1	7.1	-132.1	576	9.6	16.99	>20	180	50
	4Q07	0.2	6.86	-120.4	634	7.03	11.97	>20	170	22
	1Q08	0.11	7.3	-169	492	11.3	9.22	15	130	20
	2Q08	0.19	6.57	-52.4	508	9.13	12.25	>10	140	35
MW-28i	2Q06	0.23	7.88	-126	756	8	15	>10	135	28
	3Q06	0.51	7.59	-98	649	14	16.42	18	90	27
	4Q06	0.04	7.37	-146.7	598	13	14.82	>20	150	25
	1Q07	0.2	6.80	-173.3	686	4.9	10.7	>20	140	23
	2Q07	0.18	7.07	-170	507	17	14.9	>20	145	24
	3Q07	0.1	7.15	-104.7	536	5.7	16.19	>20	170	30
	4Q07	0.26	6.59	-58.2	677	7.44	11.96	>20	160	20
	1Q08	0.01	6.81	-100.2	400.2	6	10.31	12	135	20
	2Q08	0.2	6.65	-4.8	593	7.75	12.99	>10	170	35
MW-29s	2Q06	3.63	7.32	-32	1021	68	18.45	>10	260	95
	3Q06	0.36	6.73	-109.8	1090	10	20.63	18	310	80
	4Q06	0.05	6.85	-97.9	775	11	17.04	>10	350	65
	1Q07	0.7	6.53	-163.9	902	5.6	8.77	18	240	30
	2Q07	4.03	6.71	-113.8	766	31	18.48	>10	225	25
	3Q07	0.7	6.66	-13.9	881	9.84	21.12	>20	325	100
	4Q07	0.2	7.12	-35	960	8	13.51	>20	285	75
	1Q08	0.21	7.02	-94	1027	9.92	7.87	>10	290	22
	2Q08	0.27	6.89	31.2	935	5.9	12.22	>20	250	70
MW-30s	2Q06	0.14	6.76	-180	672	34	16.81	>10	78	14
	3Q06	0.39	5.66	73.1	704	155	18.9	18	60	250
	4Q06	0.01	7.09	-146.1	627	94	13.46	>20	200	60
	1Q07	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	0.34	6.99	-159.4	458	213	18.55	>20	225	40
	3Q07	0.3	7.05	-128.7	696	100	19.15	>20	230	37
	4Q07	0.8	7.45	-50	871	67	7.74	>20	200	43
	1Q08	0.12	7.32	-158	825	113	4.85	>20	NM - sediment	NM - sediment
	2Q08	0.2	7.49	-47.6	484	9.42	11.43	18	160	22.5
MW-30i	2Q06	0.33	7.70	-194	687	8	15.22	5.5	75	19
	3Q06	0.43	7.52	-63	777	9	17.13	18	180	32
	4Q06	0.2	7.16	-144.2	827	42	14.2	>10	>1000	45
	1Q07	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	0.33	6.99	-146.8	486	41	15.23	>20	145	25
	3Q07	0.4	7.08	-19.8	661	NM-mtr broke	17.07	>20	200	29
	4Q07	1	7.39	-15	889	136	8.28	>20	200	24
	1Q08	0.13	6.7	-149	784	9.98	8.55	>20	150	18
	2Q08	0.08	7.29	-142	581	21	12.28	16	140	26
MW-30d	2Q06	0.3	5.35	-131	449	10	14.45	2	100	30
	3Q06	2.49	7	-44	458	15	15.07	2.5	70	70
	4Q06	0.18	7.29	-99	637	33	13.39	5	130	17
	1Q07	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	0.38	7.03	-95.7	340	69	14.51	3.5	115	12
	3Q07	0.8	7.24	22.6	401	NM-mtr broke	14.73	3	130	13
	4Q07	0.1	7.05	128	500	80	10.02	0.4	100	<10
	1Q08	0.45	6.8	1	487	16.3	9.19	1.5	130	<10
	2Q08	0.32	7.24	-62	504	18	12.87	2	125	14
MW-31s	2Q08	0.51	12.47	-192	1,499	>1000	15.74	1	225	0

Table 4
L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Monitoring
MNA Field Data

Well ID	Event	DO (mg/L)	pH	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-32s	2Q08	0.33	6.9	-86	1,105	109	12.11	NM-No Water	NM-No Water	NM-No Water
MW-33s	2Q08	0.77	7.29	-74	650	682	12.98	18	180	70
MW-34s	2Q08	0.51	7.01	-111	794	7	14.84	NM-No Water	NM-No Water	NM-No Water
MW-35s	2Q08	0.37	6.78	-56	917	>1000	11.51	>20	310	70
GEI-2S	3Q07	0.6	6.47	-29.8	586	15	15.28	0	150	30
	2Q08	3.71	6.29	118.4	669	7.5	9.97	0	50	17

Notes:

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

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

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

NS = Not Sampled

NM = Not Measured

L Lower Grab Sample

U Upper Grab Sample

* Well was not stabalized due to well going dry.

Table 5

L.E. CARPENTER AND COMPANY (LEC) - Borough of Wharton, Morris County, New Jersey

Surface Water Monitoring Data

MONITORING WELLS	ANALYTICAL PARAMETERS											
	SAMPLE DATE	QUARTER	Benzene		Ethylbenzene		Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)	
		UNITS	ug/l		ug/l		ug/l		ug/l		ug/l	
APPLICABLE BACKGROUND CONCENTRATION (SW-R-5). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii			1		1		5		3		1.2	
SW-D-1												
*	8-Apr-05	2Q05	<	0.2	<	0.20	<	0.20	<	0.60	<	1.00
	26-Jul-05	3Q05	<	0.2	<	0.2	J	0.5	<	0.6	<	1.0
	26-Oct-05	4Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	J	0.2	<	0.6	J	11.0
	9-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		7.3
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.18	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0		4.9	<	1.2
Dilution factor for DEHP 1.03	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
SW-D-2												
	8-Apr-05	2Q05		NS		NS		NS		NS		NS
	26-Jul-05	3Q05	<	0.2	J	0.5	<	0.2		6.1		38.0
	26-Oct-05	4Q05	<	0.2	J	0.6	<	0.2	J	2.0	<	1.0
	27-Feb-06	1Q06	<	0.2	J	0.8	<	0.2	J	2.7		27.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	1.0
	19-Jun-06	2Q06D	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0
	9-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	1.0
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0		11.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		3.0
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.5
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0		4.4	<	1.1
Dilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
SW-D-3												
	8-Apr-05	2Q05	<	0.2		21.0	<	0.2		79.0	J	2.0
	26-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	J	1.1	J	7.0
	26-Oct-05	4Q05	<	0.2	J	0.4	<	0.2	J	1.4	<	1.0
	27-Feb-06	1Q06	<	0.2		1.1	<	0.2		3.9	J	6.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	3.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	1.0
	11-Sep-06	3Q06D	<	0.2	<	0.2	<	0.2	<	0.6	J	3.0
	9-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0		3.3
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.6
Dilution factor for DEHP 1.1	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.05	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0		3.8	<	1.0
DUP-01	18-Feb-08	1Q08Dup	<	1.0	<	1.0	<	5.0		3.8	<	1.0
Dilution factor for DEHP 1.25	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2

Table 5 THROUGH 2ND QUARTER 2008

L.E. CARPENTER AND COMPANY (LEC) - Borough of Wharton, Morris County, New Jersey
Surface Water 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	
APPLICABLE BACKGROUND CONCENTRATION (SW-R-5). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii			1		1		5		3		1.2	
SW-D-4												
	20-Jun-06	2Q06	<	0.2	<	0.2	J	0.4	<	0.6	J	3.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0
	9-Nov-06	4Q06	<	0.2	J	0.4	<	0.2	J	0.6	<	0.9
	7-Feb-07	1Q07	<	1.0		2.0	<	5.0		3.8		3.3
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.0
	4-Dec-07	4Q07	<	1.0		1.4	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.08	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0		4.1	<	1.1
Dilution factor for DEHP 1.08	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
SW-D-5												
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	10.0
	6-Nov-06	4Q06	<	0.2	J	0.2	<	0.2	J	0.8	<	0.9
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		3.4
	3-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.1	3-Dec-07	4Q07D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.03	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.25	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
DRC-2												
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	6-Nov-06	4Q06	<	0.2	J	0.5	<	0.2	J	1.9	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	3-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
SW-R-1												
	20-Apr-05(1)	2Q05	<	0.2		17.0	J	0.8		99.0	J	2.0
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	J	1.0
	27-Oct-05	4Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	27-Feb-06	1Q06	<	0.2	J	0.3	<	0.2	J	1.4	<	0.9
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	6-Nov-06	4Q06	<	0.2	J	0.2	<	0.2	J	1.1	<	1.0
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.3
	3-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1

Table 5

L.E. CARPENTER AND COMPANY (LEC) - Borough of Wharton, Morris County, New Jersey
Surface Water 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	
APPLICABLE BACKGROUND CONCENTRATION (SW-R-5). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii			1		1		5		3		1.2	
Dilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0		1.2	<	5.0		5.9	<	1.2
SW-R-2												
	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Oct-05	4Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	J	0.5	<	0.2	J	2.3	<	1.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Nov-06	4Q06D	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.7
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.14	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
SW-R-3												
	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0		3.0
	25-Jun-07	2Q07D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		3.9
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.05	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.25	5-May-08	2Q08D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
SW-R-4												
	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		19.0
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1

Table 5
L.E. CARPENTER AND COMPANY (LEC) - Borough of Wharton, Morris County, New Jersey
Surface Water 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	
APPLICABLE BACKGROUND CONCENTRATION (SW-R-5). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii			1		1		5		3		1.2	
	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
SW-R-5												
	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
SW-R-6												
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.14	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.11	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
RINSE BLANK												
RB-01	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
RB-01	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0

LEGEND

ug/L = micrograms per liter

NCS: No Criteria Specified

NS = Not Sampled

duplicate = Duplicate sample

Concentration exceeds NJSWQS — 38.0

B: Analyte also detected in blank

Surface Water Quality Standard Reference: N.J.A.C 7:9B October 2006.

(Dover) - Washington Pond outlet downstream to Rt. 46 bridge Cat 1 FW2-TM(C1)

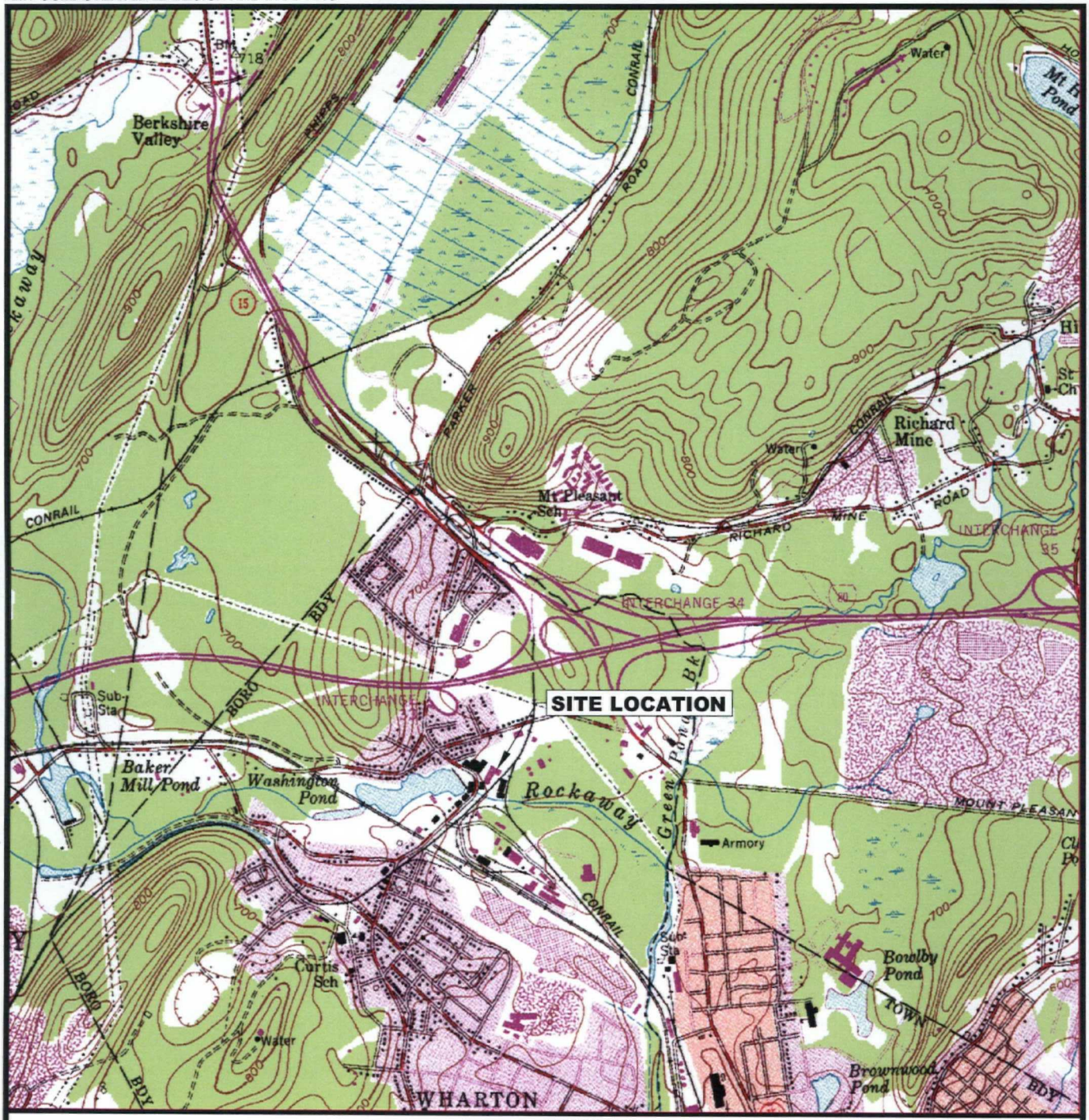
J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

* = Detection limit is elevated due to interference from other parameter detections. Laboratory will be contacted to lower benzene detection limit to be below the NJSWQS.

(1) One surface water sample was collected near the edge of the river immediately adjacent to the location of absorbent booms that were placed in order to prevent any migration into the river of sheen observed on top of quiescent water ponded within the w

Figures

RMT COMPUTER AIDED DESIGN AND DRAFTING



NEW JERSEY

QUADRANGLE LOCATION

N

0 2000' 4000'

APPROXIMATE SCALE IN FEET

SOURCE

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

RMT

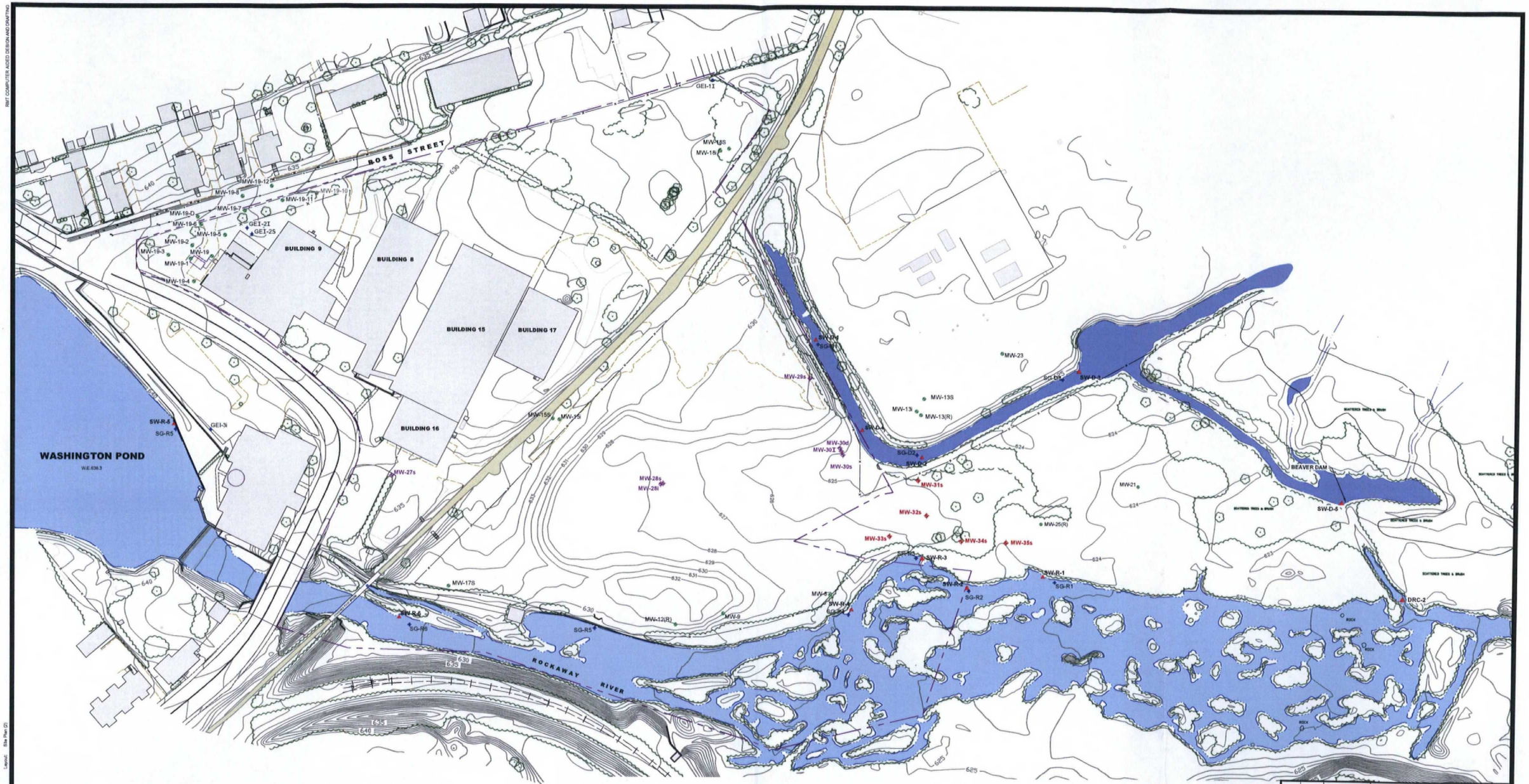
LE CARPENTER
WHARTON, NEW JERSEY

SITE LOCATION MAP
2nd QUARTER 2008

DRAWN BY:	SL
APPROVED BY:	JO,JD
PROJECT NUMBER:	6527.24
FILE NUMBER:	6527.24.31.DWG
DATE:	July 2008

FIGURE 1

PLOT DATA
Drawing Name: J:\06527\2\46527.24.31.dwg
Operator Name: lucidos
Scale: 1"=2000'
Dwg Size: 95869 Bytes
Plot Date: April 2008
Plot Time: 11:30.4955 AM
Attached Xrefs: No xref's Attached.



LEGEND

- APPROXIMATE PROPERTY LINE
- FENCE LINE
- TREES
- MW-25(R) — GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- MW-29s — PRMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- SG-R1 — RIVER POINT SURFACE WATER ELEVATION
- SG-D1 — DRAINAGE CHANNEL POINT SURFACE WATER ELEVATION
- GEI-2i — PIEZOMETER LOCATION
- SW-R-1 — SURFACE WATER SAMPLING LOCATION (D = DITCH, R = RIVER)
- 630 — POST-REMEDIATION GROUND SURFACE ELEVATIONS

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 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. FORMER BUILDING OPERATIONS
   - BUILDING 9: RAW MATERIAL, DRUM STORAGE, AND PRINTING
   - BUILDING 8: LAMINATION
   - BUILDING 15 and 17: INSPECTION, STORAGE, AND DISTRIBUTION
   - BUILDING 16: OFFICES

N

0 60' 120' 180' 240'
SCALE IN FEET

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

L.E. CARPENTER
WHARTON, NEW JERSEY

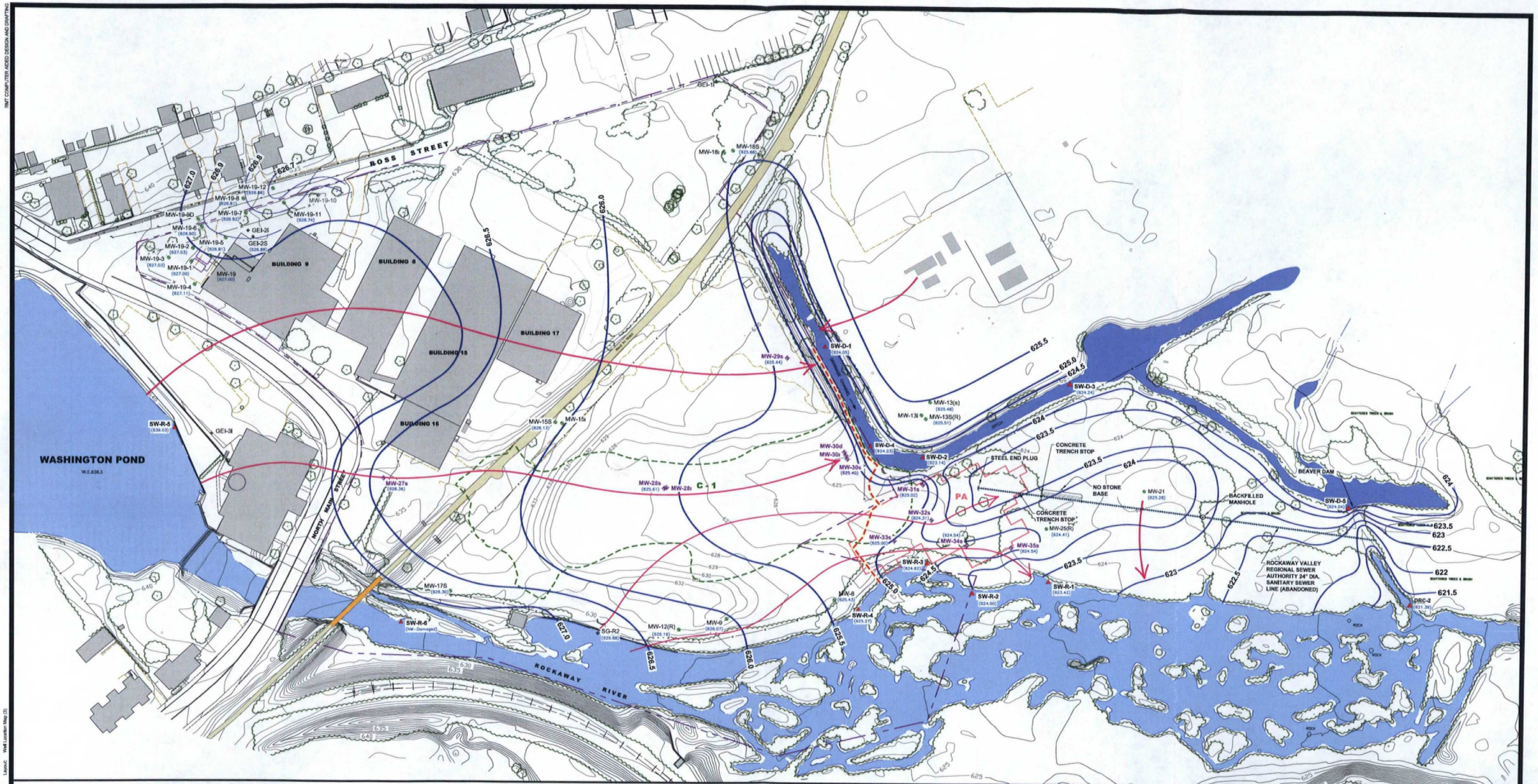
SITE PLAN WITH SAMPLE LOCATIONS
2nd QUARTER 2008

DRAWN BY: SL	DRAWING SCALE:	PROJECT NO.	J106527134
CHECKED BY: JD	SHOWN	FILE NO.	6527.24.52.dwg
APPROVED BY: JD	DATE PRINTED:	**FIGURE 2**	
DATE: June 2008			

RMT
3754 Ranchero Drive
Ann Arbor, Michigan 48108-2771
Phone: 734-971-7080
Fax: 734-971-9022

R&T COMPUTER AIDED DESIGN AND DRAFTING

Drawing Name: J106527134-6527.24.52.dwg
Operator Name: SAM LUCIDO
Drawing Plot Scale: 1:40
Drg Size: 0.30 Mb
Plot Date: March 2008
Plot Time: 3:02 PM
Layout: Site Plan (2)



LEGEND

- APPROXIMATE PROPERTY LINE
- FENCE LINE
- TREES
- MW-25(R) — GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- MW-29s — PRMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- SG-R1 — RIVER POINT SURFACE WATER ELEVATION
- SG-D1 — DRAINAGE CHANNEL POINT SURFACE WATER ELEVATION
- GEI-2i — PIEZOMETER LOCATION
- SW-R-1 — SURFACE WATER SAMPLING LOCATION (D = DITCH; R = RIVER)
- 626 — SHALLOW GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- 630 — POST-REMEDIATION GROUND SURFACE ELEVATIONS
- PA — AREA WHERE PCB IMPACTED SOILS WERE EXCAVATED
- C-1 — AREA WHERE THE LNAPL SMEAR ZONE WAS EXCAVATED AND LATERAL EXTENT OF SUBSURFACE SLURRY MONOLITH
- WESTERN BOUNDARY OF REGULATED WETLAND

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BYJAMES M.STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. FORMER BUILDING OPERATIONS
   - BUILDING 9: RAW MATERIAL, DRUM STORAGE, AND PRINTING
   - BUILDING 8: LAMINATION
   - BUILDING 15 and 17: INSPECTION, STORAGE, AND DISTRIBUTION
   - BUILDING 16: OFFICES
3. AS DESCRIBED IN THE November 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.

N

0 60' 120' 180' 240'
SCALE IN FEET

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

L.E. CARPENTER
WHARTON, NEW JERSEY

SITE-WIDE SHALLOW GROUNDWATER ELEVATION CONTOURS
2nd QUARTER 2008

DRAWN BY: SL, KW	DRAWING SCALE:	PROJECT NO.	J:\06527\24
CHECKED BY: JD,JO	SHOWN	FILE NO.	6527.24.53.dwg
APPROVED BY: JD	DATE PRINTED:	**FIGURE 3**	
DATE: July 2008			

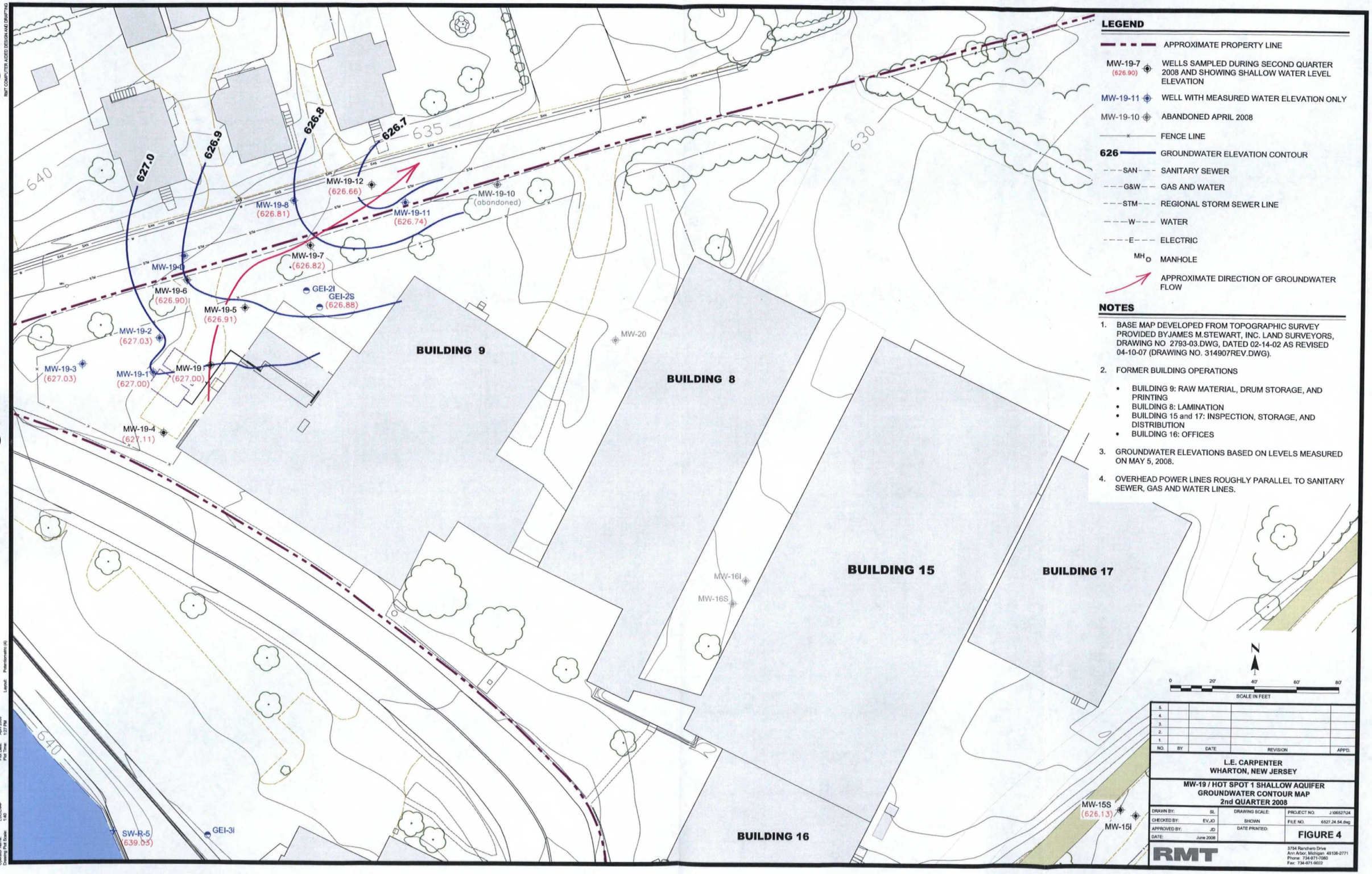
RMT

3754 Ranchero Drive
Ann Arbor, Michigan 48108-2771
Phone: 734-971-7080
Fax: 734-971-9022

RMT COMPUTER AIDED DESIGN AND DRAFTING

Layout: Well Location Map (3)

Drawing Name: J:\06527\24.53.dwg
Operator Name: LUC
Drawing Plot Scale: 1:40
Dwg Size: 0.75 Mb
Plot Date: April 2008
Plot Time: 8:49 AM



LEGEND

- APPROXIMATE PROPERTY LINE
- MW-19-7 (626.90) — WELLS SAMPLED DURING SECOND QUARTER 2008 AND SHOWING SHALLOW WATER LEVEL ELEVATION
- MW-19-11 — WELL WITH MEASURED WATER ELEVATION ONLY
- MW-19-10 — ABANDONED APRIL 2008
- FENCE LINE
- 626 — GROUNDWATER ELEVATION CONTOUR
- SAN — SANITARY SEWER
- G&W — GAS AND WATER
- STM — REGIONAL STORM SEWER LINE
- W — WATER
- E — ELECTRIC
- MH — MANHOLE
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BYJAMES M.STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. FORMER BUILDING OPERATIONS
   - BUILDING 9: RAW MATERIAL, DRUM STORAGE, AND PRINTING
   - BUILDING 8: LAMINATION
   - BUILDING 15 and 17: INSPECTION, STORAGE, AND DISTRIBUTION
   - BUILDING 16: OFFICES
3. GROUNDWATER ELEVATIONS BASED ON LEVELS MEASURED ON MAY 5, 2008.
4. OVERHEAD POWER LINES ROUGHLY PARALLEL TO SANITARY SEWER, GAS AND WATER LINES.

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

L.E. CARPENTER
WHARTON, NEW JERSEY

MW-19 / HOT SPOT 1 SHALLOW AQUIFER GROUNDWATER CONTOUR MAP
2nd QUARTER 2008

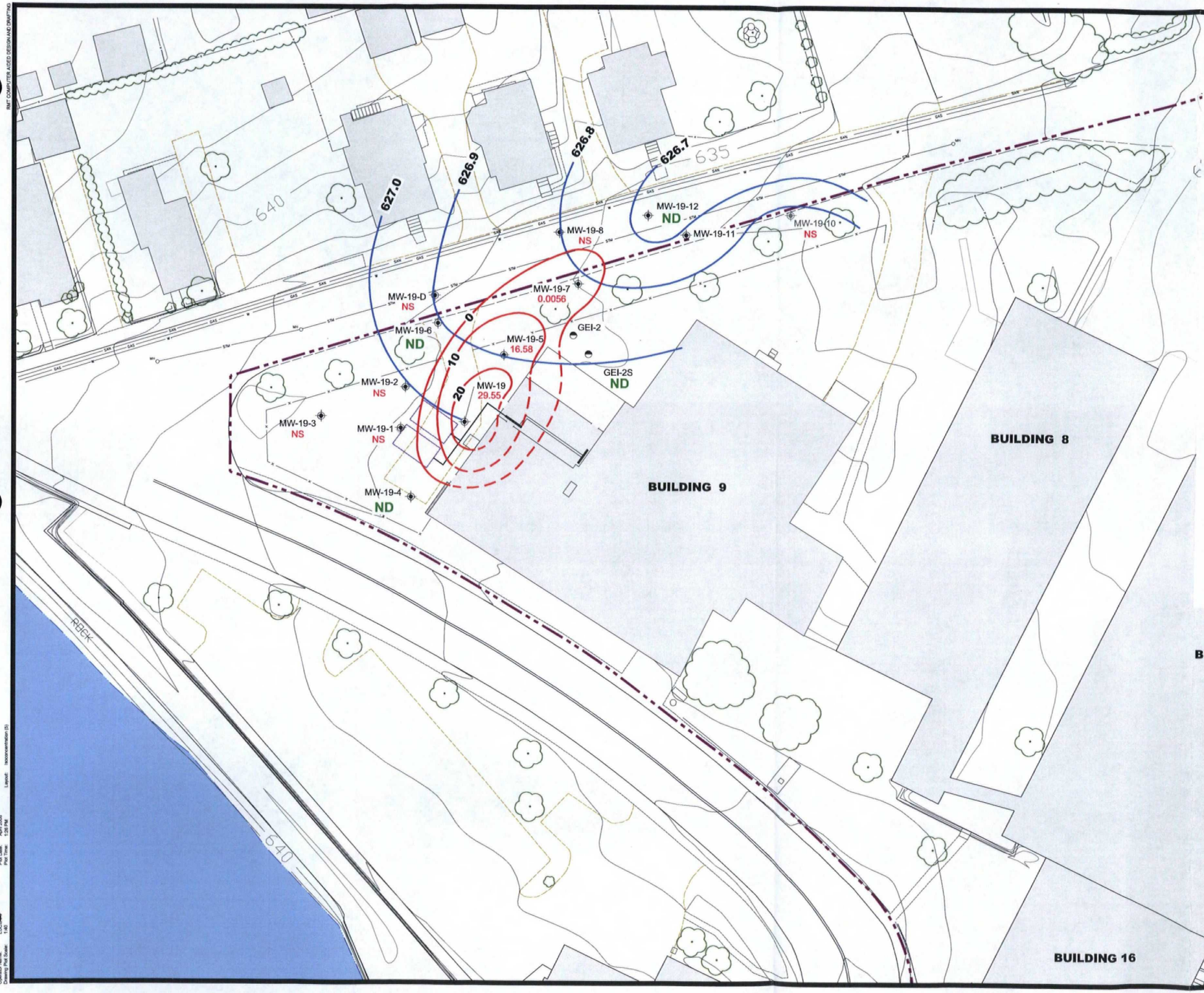
DRAWN BY: SL	DRAWING SCALE: SHOWN	PROJECT NO. J:\06527\24	
CHECKED BY: EV,JO		FILE NO. 6527.24.54.dwg	
APPROVED BY: JD	DATE PRINTED:	**FIGURE 4**	
DATE: June 2008			

RMT

3754 Ranchero Drive
Ann Arbor, Michigan 48108-2771
Phone: 734-971-7080
Fax: 734-971-9022

RMT COMPUTER AIDED DESIGN AND DRAFTING

Drawing Name: 6527.24.54.dwg
Opening Par State: LUC
Opening Par Date: N/A
Dwg Size: 0.10 Mb
Par Date: April 2008
Par Time: 1:27 PM
Layout: Potentiometric (4)



LEGEND

- APPROXIMATE PROPERTY LINE
- MW-19-7 0.576 — MONITORING WELL WITH CORRESPONDING TOTAL DISSOLVED BTEX CONCENTRATION IN PPM (mg/L)
- MW-19-10 — ABANDONED APRIL 2008
- GEI-2I — QUARTERLY STATIC WATER LEVEL MONITORING LOCATION
- FENCE LINE
- 626 — GROUNDWATER ELEVATION CONTOUR
- SAN — SANITARY SEWER
- G&W — GAS AND WATER
- STM — REGIONAL STORM SEWER LINE
- W — WATER
- E — ELECTRIC
- MH — MANHOLE
- 10 — ISOCONCENTRATION CONTOUR FOR TOTAL MAXIMUM BTEX (ppm) IN GROUNDWATER
- 10 — ISOCONCENTRATION LINE WHERE INFERRED CONTAMINATION (ppm) IN GROUNDWATER BASED ON SOURCE DETERMINATION (SEPT. 2007 RASR)

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BYJAMES M.STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. FORMER BUILDING OPERATIONS
   - BUILDING 9: RAW MATERIAL, DRUM STORAGE, AND PRINTING
   - BUILDING 8: LAMINATION
   - BUILDING 15 and 17: INSPECTION, STORAGE, AND DISTRIBUTION
   - BUILDING 16: OFFICES
3. NS = NOT SAMPLED; ND = NOT DETECTED
4. OVERHEAD POWER LINES ROUGHLY PARALLEL TO SANITARY SEWER, GAS AND WATER LINES.
5. GROUNDWATER ELEVATIONS BASED ON LEVELS MEASURED ON MAY 5, 2008.

N

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

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

L.E. CARPENTER
WHARTON, NEW JERSEY

MW-19 / HOT SPOT 1 SHALLOW AQUIFER ISOCONCENTRATION MAP
2nd QUARTER 2008

DRAWN BY: SL	DRAWING SCALE:	PROJECT NO.	J:\06527\24
CHECKED BY: EV,JO	SHOWN	FILE NO.	6527.24.55.dwg
APPROVED BY: JD	DATE PRINTED:	**FIGURE 5**	
DATE: June 2008			

RMT
3754 Ranchero Drive
Ann Arbor, Michigan 48108-2771
Phone: 734-971-7080
Fax: 734-971-9022

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."

Ernie Schaub

PRINTED NAME

Manager, Environmental Services

TITLE

L.E. Carpenter & Company

COMPANY

Ernie Schaub

SIGNATURE

August 19, 2008

DATE

Appendix B
Field Data Forms

June 2006 PRMP Source Area Well Installation Field Forms

RMT®

GENERAL NOTES

PROJECT NAME: L. E. Carpenter	DATE: 6/5/06	TIME ARRIVED: 1030
PROJECT NUMBER: 6527 ~~18~~ 03	AUTHOR: E. Vincke	TIME LEFT: 1800

WEATHER

TEMPERATURE: 65-71 °F WIND: 0-5 MPH VISIBILITY: CLR

WORK / SAMPLING PERFORMED

Mobed to site. Inspected the site (looked for sheen, vegetation growth, and how wet the site was). Placed markers for MW-28s, i; MW-29; MW-30 s, i, d; MW-19-12. Went to Wharton town hall to speak w/ engineers about where the new road will be going so we know a safe location to install MW-27, as the background well. The drillers arrived on-site @ 1530, unloaded rig, filled tank w/water, and I took Jason (B.L.) to order a BOBCAT. Jim D. and I placed stakes as needed by River Sw collection pts, as needed so location can be surveyed.

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
None	

COMMUNICATION

NAME		
N. Cleveth.	RMT	Told him about the site conditions.

E. Vincke 6/5/06

SIGNED DATE CHECKED BY DATE

RMT®

GENERAL NOTES

PROJECT NAME: L. E. Carpenter	DATE: 6/6/06	TIME ARRIVED: 0630
PROJECT NUMBER: 6527.18	AUTHOR: E. Vincke	TIME LEFT: 1840

WEATHER

TEMPERATURE: 52-73 °F WIND: 0-5 MPH VISIBILITY: P. Cloudy

WORK / SAMPLING PERFORMED

Installed MW-29s down to a depth of 12.0' bgs. See Boring & Well log for details.
Installed MW-30s (14'), MW-30i (20'), MW-30d (25'), MW-28s (15'), MW-28i (20') see boring & well logs for details. Put matching locks and appropriate well I.D. Labels on outer casing.

Received permission from Wharton Boro to place background well in sample location as on the map, and received road opening permit to install MW-19-12.

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME		

E. Vincke 6/6/06

SIGNED DATE CHECKED BY DATE

RMT®

GENERAL NOTES

PROJECT NAME: L. E. Carpenter	DATE: 6/7/06	TIME ARRIVED: 0630
PROJECT NUMBER: 6527.23	AUTHOR: E. Vincke	TIME LEFT: 1700

WEATHER

TEMPERATURE: 68 °F WIND: 10-15 MPH VISIBILITY: Overcast (Rain)

WORK / SAMPLING PERFORMED

Installed MW-27s to a depth of 14.0' bgs. See Boring & Well log for details. Installed MW-19-12 to a depth of 17' bgs see boring & well log for details.

Pads were set at MW-19-12 and MW-29s. MW-29s, MW-30d, 30i, 30s were developed.

MW-30s had an odor when J-plug was removed, and a small initial sheen present during development, that went away as development continued.

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
Due to the rain placing the pad at MW-19-12 would be tought due to rainfall.	A diversion berm was made w/ bentonite and quick set cement was used to build pad. plastic, and cones were then placed to protect overnight.

COMMUNICATION

NAME		

E. Vincke 6/9/06

SIGNED DATE CHECKED BY DATE

RMT®

GENERAL NOTES

PROJECT NAME: L. E. Carpenter	DATE: 6/8/06	TIME ARRIVED: 0630
PROJECT NUMBER: 6527.23	AUTHOR: E. Vincke	TIME LEFT: 1130

WEATHER

TEMPERATURE: 64 °F WIND: 5-10 MPH VISIBILITY: Overcast

WORK / SAMPLING PERFORMED

MW-28i, 28s, 27s, MW-19-12 were developed. Strong odor present at MW-28s. MW-27s has a very slow recharge and could not be fully developed.

Pads were then set at MW-27s, MW-28s, and MW-28i. Pads could not be set at MW-30s, i, d due to ponded water. RMT staff will set pads on the 19th when sampling will take place.

Drillers were left at site to decon, and prep for demobe.

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME		

E. Vincke 6/9/06

SIGNED DATE CHECKED BY DATE

April 2008 Wetland Area Well Installation Field Forms

RMT

• ENVIRONMENT • ENERGY • ENGINEERING

PROJECT NAME: Wetland Well Install

PROJECT NUMBER: 6527.32

PROJECT MANAGER: Nicholas Clevett

SITE LOCATION: LEC Wharton, NJ

DATES OF FIELDWORK: 4/7/08 TO 4/10/08

PURPOSE OF FIELDWORK: Installation of monitoring wells in wetland area
Abandon MW-9-10
Construction of mounds, wetland restoration

WORK PERFORMED BY: Jennifer Overvoorde / Scot Middlebrook

SIGNED: JOvervoorde DATE: 4/7/08

CHECKED BY: E. [illegible] DATE: 4/24/08

REVISED 03/2008

RMT

GENERAL NOTES

PROJECT NAME: Wetland Well Install	DATE: 4/7/08	TIME ARRIVED: 0745
PROJECT NUMBER: 6527.32	AUTHOR: J Overvoorde	TIME LEFT: 1700

WEATHER

TEMPERATURE: 42 °F WIND: 0-5 MPH VISIBILITY: cloudy, cool, breeze

WORK / SAMPLING PERFORMED

- Stake well locations
- coordinate/oversee silt fence installation
- gravel drop
- skidsteer/vibratory plate drop
- install 3 wetland wells

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
—	—

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
EV / JD	RMT	confirm ✓ well locations, prjt communications
Dave C.	LEC	site check-in, wtr source

J Overvoorde 4/7/08
SIGNED DATE

E. [illegible] 4/24/08
CHECKED BY DATE

RMT

GENERAL NOTES

PROJECT NAME:	Wetland Well Install	DATE: 4/8/08	TIME ARRIVED: 0645
PROJECT NUMBER:	6527.32	AUTHOR: dOvemoyde	TIME LEFT: 2000

WEATHER

TEMPERATURE: 65 °F WIND: 5-10 MPH VISIBILITY: clear, sunny, breezy

WORK / SAMPLING PERFORMED

- install final two wells, build the 5 gravel mounds
- redevelop MW-305
- clean/pack-up drilling equip
- coordinate/oversee surveyor
- develop 5 monitoring wells
- abandon MW-19-10
- lay geofabric over mounds + install pads
- take first round of WLs

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
MW-35s measurable free prod.	develop by bailer, booms + sweeps on order.

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
EV/JD	RMT	prjt coordination

dOvemoyde 4/8/08
SIGNED DATE

CHECKED BY 4/24/08
DATE

REVISED 03/2008

RMT

GENERAL NOTES

PROJECT NAME: Wetland Well Install	DATE: 4/9/08	TIME ARRIVED: 0800
PROJECT NUMBER: 6527.32	AUTHOR: JOvemoorde	TIME LEFT: 1700

WEATHER

TEMPERATURE: 55 °F WIND: 5-10 MPH VISIBILITY: mostly sunny, warm

WORK / SAMPLING PERFORMED

- pin geofabric, put sand around well inside casing
- coordinate soil drop.
- place organic topsoil on mounds, rake
- site photos, site organiztn

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
—	—

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
JD	RMT	prjt status

JOvemoorde 4/9/08
SIGNED DATE

E. [illegible] 4/24/08
CHECKED BY DATE

REVISED 03/2008

RMT

GENERAL NOTES

PROJECT NAME: Wetland Well Install	DATE: 4/10/08	TIME ARRIVED: 0800
PROJECT NUMBER: 6527.32	AUTHOR: J. Overvoorde	TIME LEFT: 1145

WEATHER

TEMPERATURE: 45 °F WIND: 0-5 MPH VISIBILITY: mostly sunny, mild

WORK / SAMPLING PERFORMED

- meet w/ SF New on-site. Perform site walk, outline restoration activities.
- Place booms + sweeps in ditch + river embayment
- Pack + ship equipment
- demob

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
—	—

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
JO	RMT	pjt status

JOvervoorde 4/10/08
SIGNED DATE

[signature] 4/24/08
CHECKED BY DATE

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME: Wetland Well Install		WELL ID:	MW-3/s
PROJ. NO: 6527.32	DATE INSTALLED: 4/8/08	INSTALLED BY: JO/SM	CHECKED BY: EV

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
		TOP OF CASING
	~~0.0~~	~~GROUND SURFACE~~
	3	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
5		RISER PIPE LENGTH
		GROUT
		BENTONITE SEAL MATERIAL: chips
	1.5	BENTONITE SEAL
	0.0	GROUND SURFACE
	.5	TOP OF SCREEN
5		SCREEN LENGTH
		FILTER PACK MATERIAL: sand
	5.5	BOTTOM OF SCREEN
	6	BOTTOM OF FILTER PACK
	NA	BENTONITE PLUG
		BACKFILL MATERIAL: sand
	6	HOLE BOTTOM

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: SS

PIPE SCHEDULE: NA

PIPE JOINTS: threaded

SOLVENT USED? no

SCREEN TYPE: SS

SCR. SLOT SIZE: 10

BOREHOLE DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

SURF. CASING DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: purge + surge

TIME DEVELOPING: .5 HOURS

WATER REMOVED: 4 GALLONS

WATER ADDED: 2 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: cloudy

COLOR BEFORE: gray

CLARITY AFTER: slt cloudy ~~to clear~~

COLOR AFTER: ~~bit~~ lt gray

ODOR (IF PRESENT): none

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:		T/PVC		
DTB AFTER DEVELOPING:		T/PVC		
SWE BEFORE DEVELOPING:		T/PVC		
SWE AFTER DEVELOPING:		T/PVC		
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☒ YES ☐ NO

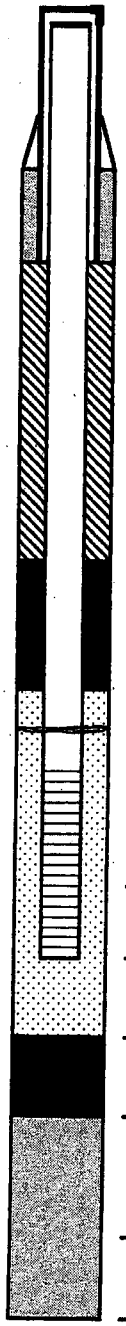
PROTECTIVE COVER AND LOCK INSTALLED? ☒ YES ☐ NO

LOCK KEY NUMBER: 3747

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME: Wetland Well Install		WELL ID:	MW-32s
PROJ. NO: 6527.32	DATE INSTALLED: 4/7/08	INSTALLED BY: JO/SM	CHECKED BY: EV

ELEVATION (BENCHMARK USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
		TOP OF CASING
3	~~0.0~~	~~GROUND SURFACE~~
	3	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
5		GROUT/BACKFILL METHOD: NA
	NA	GROUT
		BENTONITE SEAL MATERIAL: chips
	1.5	BENTONITE SEAL
	0.0	GROUND SURFACE
	.5	TOP OF SCREEN
5		FILTER PACK MATERIAL:
	5.5	BOTTOM OF SCREEN
	6	BOTTOM OF FILTER PACK
	NA	BENTONITE PLUG
		BACKFILL MATERIAL: sand
	6	HOLE BOTTOM



NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: SS

PIPE SCHEDULE: NA

PIPE JOINTS: threaded

SOLVENT USED? no

SCREEN TYPE: SS

SCR. SLOT SIZE: 10

BOREHOLE DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

SURF. CASING DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: purge + surge

TIME DEVELOPING: .5 HOURS

WATER REMOVED: 4 GALLONS

WATER ADDED: 2.0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: cloudy

COLOR BEFORE: gray

CLARITY AFTER: cloudy to clear

COLOR AFTER: gray to clear

ODOR (IF PRESENT): none

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:		T/PVC		
DTB AFTER DEVELOPING:		T/PVC		
SWE BEFORE DEVELOPING:		T/PVC		
SWE AFTER DEVELOPING:		T/PVC		
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☒ YES ☐ NO

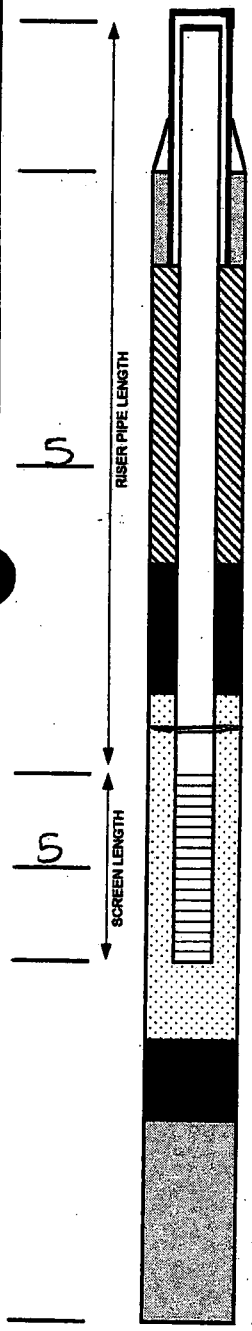
PROTECTIVE COVER AND LOCK INSTALLED? ☒ YES ☐ NO

LOCK KEY NUMBER: 3747

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME: Wetland Well Install		WELL ID:	MW-33s
PROJ. NO: 6527.32	DATE INSTALLED: 4/8/08	INSTALLED BY: SO / SM	CHECKED BY: EV

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)



____ TOP OF CASING

~~0.0 GROUND SURFACE~~

3 CEMENT SURFACE PLUG

GROUT/BACKFILL MATERIAL: NA

GROUT/BACKFILL METHOD: NA

NA GROUT

BENTONITE SEAL MATERIAL: chips

1.5 BENTONITE SEAL

0.0 GROUND SURFACE

.5 TOP OF SCREEN

FILTER PACK MATERIAL: ____

5.5 BOTTOM OF SCREEN

6 BOTTOM OF FILTER PACK

NA BENTONITE PLUG

BACKFILL MATERIAL: sand

6 HOLE BOTTOM

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: SS

PIPE SCHEDULE: NA

PIPE JOINTS: threaded

SOLVENT USED? no

SCREEN TYPE: SS

SCR. SLOT SIZE: 10

BOREHOLE DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

SURF. CASING DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: purge + surge

TIME DEVELOPING: .5 HOURS

WATER REMOVED: 5 GALLONS

WATER ADDED: 2.5 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: cloudy

COLOR BEFORE: gray

CLARITY AFTER: clr

COLOR AFTER: lt gray

ODOR (IF PRESENT): none

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:		T/PVC		
DTB AFTER DEVELOPING:		T/PVC		
SWE BEFORE DEVELOPING:		T/PVC		
SWE AFTER DEVELOPING:		T/PVC		
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☒ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☒ YES ☐ NO

LOCK KEY NUMBER: 3747

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME: Wetland Well Install		WELL ID:	MW-34s
PROJ. NO: 6527.32	DATE INSTALLED: 4/7/08	INSTALLED BY: SO/SM	CHECKED BY: EV

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
		TOP OF CASING
	~~0.0~~	~~GROUND SURFACE~~
	3	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
5		RISER PIPE LENGTH
	NA	GROUT
		BENTONITE SEAL MATERIAL: chips
	1.5	BENTONITE SEAL
	0.0	Ground Surface
	-.5	TOP OF SCREEN
5		SCREEN LENGTH
		FILTER PACK MATERIAL: sand
	-5.5	BOTTOM OF SCREEN
	-6	BOTTOM OF FILTER PACK
	NA	BENTONITE PLUG
		BACKFILL MATERIAL: sand
	6	HOLE BOTTOM

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: SS

PIPE SCHEDULE: NA

PIPE JOINTS: threaded

SOLVENT USED? no

SCREEN TYPE: SS

SCR. SLOT SIZE: 10

BOREHOLE DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

SURF. CASING DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: purge + surge

TIME DEVELOPING: .5 HOURS

WATER REMOVED: 5 GALLONS

WATER ADDED: 2.5 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: cloudy

COLOR BEFORE: white

CLARITY AFTER: clr

COLOR AFTER: clr

ODOR (IF PRESENT): none

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:		T/PVC		
DTB AFTER DEVELOPING:		T/PVC		
SWE BEFORE DEVELOPING:		T/PVC		
SWE AFTER DEVELOPING:		T/PVC		
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☒ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☒ YES ☐ NO

LOCK KEY NUMBER: 3747

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME: Wetland Well Install		WELL ID:	MW-35s
PROJ. NO: 6527.32	DATE INSTALLED: 4/7/08	INSTALLED BY: JO/SM	CHECKED BY: EV

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
		TOP OF CASING
	~~0.0~~	~~GROUND SURFACE~~
	3	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
5		GROUT/BACKFILL METHOD: NA
	NA	GROUT
		BENTONITE SEAL MATERIAL: bentonite chips
	+1.5	BENTONITE SEAL
	0.0	Ground Surface
	-.5	TOP OF SCREEN
5		FILTER PACK MATERIAL: sand
	-5.5	BOTTOM OF SCREEN
	-6	BOTTOM OF FILTER PACK
	NA	BENTONITE PLUG
		BACKFILL MATERIAL: sand
	6	HOLE BOTTOM

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: SS

PIPE SCHEDULE: —

PIPE JOINTS: threaded

SOLVENT USED? no

SCREEN TYPE: SS

SCR. SLOT SIZE: 10

BOREHOLE DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

SURF. CASING DIAMETER: ____ IN. FROM ____ TO ____ FT.
____ IN. FROM ____ TO ____ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: ~~Pump~~ purge + surge-bailer

TIME DEVELOPING: .5 HOURS

WATER REMOVED: 4 GALLONS

WATER ADDED: 1 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: cloudy

COLOR BEFORE: black

CLARITY AFTER: cloudy

COLOR AFTER: black/gray

ODOR (IF PRESENT): like sharpie marker

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:		T/PVC		
DTB AFTER DEVELOPING:		T/PVC		
SWE BEFORE DEVELOPING:		T/PVC		
SWE AFTER DEVELOPING:		T/PVC		
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☒ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☒ YES ☐ NO

LOCK KEY NUMBER: 3747

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-31s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/8/08	4/8/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	9.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - J. Overvoorde Driller - Frank, Marshall	Minisonic

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 4/9/08 00:00 Depth (ft bgs) 4.55

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
			1	**Fill**- 2" minus gravel.					
			2						
			3	**Topsoil**- organic topsoil, dark yellowish brown (10YR4/4), loose, moist.					
			4	**Fill**- mostly fine sand and silt, some medium and coarse sand, little gravel, trace cobble, mild plasticity, no odor, loose, moist, dark brown- black (10YR3/3).				1.9	
1 CS	90		5						
			6	**Fill**- mostly gravel with fine-coarse sand matrix, some good sized cobble, trace rock, moist, no odor, loose.				1.9	
			7						
			8	**Clay**- silty clay with sand and gravel, medium density, slight odor, wet, plastic, trace cobble.	CL-ML				
2 CS	100		9					25.3	
				End of boring 9' bgs.					

SOIL BORING CONSTRUCTION LOG APRIL 2008 MW INSTALL.GPJ RMT_CORP.GDT 4/22/08

Signature:

Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546 Fax 616-975-1098

Checked By: JO

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-32s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/7/08	4/7/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		—	9.0	6

Boring Location:

Personnel
Logged By - J. Overvoorde
Driller - Frank, Marshall

Drilling Equipment: Minisonic

Civil Town/City/or Village:	County:	State:
Wharton	Morris	New Jersey

Water Level Observations:
While Drilling: Date/Time Depth (ft bgs)
After Drilling: Date/Time 4/9/08 00:00 Depth (ft bgs) 5.32

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
				Fill- 2" minus gravel.					
			1						
			2						
1 CS	60								
			3	Topsoil- orgainc topsoil.				0.2	
			4	Fill- sandy silt, fine- coarse grain with little gravel, dark brown (10YR3/3), loose, moist, no odor, trace cobbles.					
			5						
2 CS	50			Clay- dense, plastic, gray (7.5YR5/1), trace sand and gravel, moist to wet, no odor, trace cobble.				0.6	
			6						
			7		CL			46.5	
			8	Clay- with trace sand, trace cobble/ rock, moderately dense, plastic, wet, slight odor, black (7.5YR2.5/1).	CL			57.7	
			9	End of boring 9' bgs.					

Signature:

Firm: Grand Rapids
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546
616-975-5415
Fax 616-975-1098

Checked By: JO

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-33s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/8/08	4/8/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	9.0	6

Boring Location:

Personnel
Logged By - J. Overvoorde
Driller - Frank, Marshall

Drilling Equipment: Minisonic

Civil Town/City/or Village:	County:	State:
Wharton	Morris	New Jersey

Water Level Observations:
While Drilling: Date/Time Depth (ft bgs)
After Drilling: Date/Time 4/9/08 00:00 Depth (ft bgs) 5.78

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
				Fill- 2" minus gravel.					
			1						
			2						
			3	Topsoil- organic, wet, loose.					
			4	Fill- sandy silt, fine- coarse grain, little gravel, trace cobble, moist, no odor, compact.				0.3	
1 CS			5						
			6						
			7	Fill- sandy gravel, fine- coarse grain, loose, moist- wet, slight odor, trace rock, some silt, very dark gray (10YR3/1).				3.9	
			8	Clay- with trace sand, moderately dense, plastic, wet, no odor, trace cobble and rock, (7.5YR2.5/1).	CL				
2 CS			9	End of boring 9' bgs.				1.6	

Signature:

Firm: Grand Rapids
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546
616-975-5415
Fax 616-975-1098

Checked By: JO

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-34s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/7/08	4/7/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	9.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - J. Overvoorde Driller - Frank, Marshall	Minisonic

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 4/9/08 00:00 Depth (ft bgs) 7.01

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
				Fill- 2" minus gravel.					
			1						
			2						
			3	Topsoil- organic.				1.3	
			4	Fill- sandy silt, fine- coarse sand, little gravel, trace cobble, loose, moist, no odor, dark brown (10YR3/3).					
			5						
1 CS								3.0	
			6	Clay- dense, plastic, little sand, moist to wet, trace cobble, very dark gray (10YR3/1), no odor.					
			7		CL				
			8	Size and amount of gravel and rock increase, slight odor.				3.7	
2 CS				Clay- sandy silty clay with gravel, wet, no odor, compact, brown (10YR4/3).	CL				
			9	End of boring 9' bgs.					

Signature:

Firm: Grand Rapids
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546
616-975-5415
Fax 616-975-1098

Checked By: JO

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-35s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/7/08	4/7/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	9.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - J. Overvoorde Driller - Frank, Marshall	Minisonic

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 4/9/08 00:00 Depth (ft bgs) 5.85

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
			1	Fill- 2" minus gravel.					
			2						
			3	Topsoil- organic.					
			4	Fill- sandy silt, fine-coarse grain, little gravel, trace cobble, no odor, loose, little plasticity, moist, dark brown (10YR3/3).				1.9	
1 CS	80		5						
			6					1.2	
			7	Color change to brown (10YR5/3), gravel size and content increases.					
			8	Clay- dense, plastic, some organics, moist to wet, trace cobble, very dark gray (10YR3/1), strong odor (ex. sharpie marker).	CL			139	
2 CS	100							399	
			9	End of boring 9' bgs.					

SOIL BORING & CONSTRUCTION LOG APRIL 2008 MW INSTALL.GPJ RMT_CORP.GDT 4/22/08

Signature:

Firm: Grand Rapids
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546
616-975-5415
Fax 616-975-1098

Checked By: JO

RMT

Water Level Elevations

~~WATER SAMPLE LOG~~ (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.~~29~~ 32	BY: JD ~~EV/SP~~	DATE: See Below	BY: EV	DATE: 4/24/08

SAMPLE ID:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
4/8/08			depth to WLs	depth to prod.					
	MW-31s		4.66						
	MW-32s		5.10						
	MW-33s		NM - developing						
	MW-34s		5.62						
	MW-35s		4.38	4.37					
4/9/08									
	MW-31s		4.55						
	MW-32s		5.32						
	MW-33s		5.78						
	MW-34s		7.01						
	MW-35s		5.85	—					

SIGNATURE: [signature]

DATE SIGNED: 4/8/08

April 2008 Wetland Area Well Installation Field Forms

RMT

• ENVIRONMENT • ENERGY • ENGINEERING

PROJECT NAME: Wetland Well Install

PROJECT NUMBER: 6527.32

PROJECT MANAGER: Nicholas Clevett

SITE LOCATION: LEC Wharton, NJ

DATES OF FIELDWORK: 4/7/08 TO 4/10/08

PURPOSE OF FIELDWORK: Installation of monitoring wells in wetland area
Abandon MW-9-10
Construction of mounds, wetland restoration

WORK PERFORMED BY: Jennifer Overvoorde / Scot Middlebrook

SIGNED: JOvervoorde DATE: 4/7/08

CHECKED BY: [illegible] DATE: 4/24/08

REVISED 03/2008

RMT

GENERAL NOTES

PROJECT NAME: Wetland Well Install	DATE: 4/7/08	TIME ARRIVED: 0745
PROJECT NUMBER: 6527.32	AUTHOR: J Overvorde	TIME LEFT: 1700

WEATHER

TEMPERATURE: 42 °F WIND: 0-5 MPH VISIBILITY: cloudy, cool, breeze

WORK / SAMPLING PERFORMED

- Stake well locations
- coordinate/oversee silt fence installation
- gravel drop
- skidsteer/vibratory plate drop
- install 3 wetland wells

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
—	—

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
EV / JD	RMT	confirm ✓ well locations, prjt communications
Dave C.	LEC	site check-in, wtr source

J Overvorde 4/7/08
SIGNED DATE

E. [illegible] 4/24/08
CHECKED BY DATE

REVISED 03/2008

RMT

GENERAL NOTES

PROJECT NAME: Wetland Well Install	DATE: 4/8/08	TIME ARRIVED: 0645
PROJECT NUMBER: 6527.32	AUTHOR: dOvermoude	TIME LEFT: 2000

WEATHER

TEMPERATURE: 65 °F WIND: 5-10 MPH VISIBILITY: clear, sunny, breezy

WORK / SAMPLING PERFORMED

- install final two wells, build the 5 gravel mounds
- redevelop MW-30S
- clean/pack-up drilling equip
- coordinate/oversee surveyor
- develop 5 monitoring wells
- abandon MW-19-10
- lay geofabric over mounds + install pads
- take first round of WLs

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
MW-35S measurable free prod.	develop by bailer, booms - sweeps on order

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
EV/JD	RMT	prjt coordination

dOvermoude 4/8/08
SIGNED DATE

CHECKED BY 4/24/08
DATE

REVISED 03/2008

RMT

GENERAL NOTES

PROJECT NAME:	Wetland Well Install	DATE:	4/9/08	TIME ARRIVED:	0800
PROJECT NUMBER:	6527.32	AUTHOR:	Overwarde	TIME LEFT:	1700

WEATHER

TEMPERATURE: 55 °F WIND: 5-10 MPH VISIBILITY: mostly sunny, warm

WORK / SAMPLING PERFORMED

- pin geofabric, put sand around well inside casing
- coordinate soil drop.
- place organic topsoil on mounds, rake
- site photos, site organiztn

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
—	—

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
JD	RMT	prjt status

Overwarde 4/9/08
SIGNED DATE

CHECKED BY 4/24/08
DATE

REVISED 03/2008

RMT

GENERAL NOTES

PROJECT NAME: Wetland Well Install	DATE: 4/10/08	TIME ARRIVED: 0800
PROJECT NUMBER: 6527.32	AUTHOR: J. Overvoorde	TIME LEFT: 1145

WEATHER

TEMPERATURE: 45 °F WIND: 0-5 MPH VISIBILITY: mostly sunny, mild

WORK / SAMPLING PERFORMED

- meet w/ JF New on-site. Perform site walk, outline restoration activities.
- Place booms + sweeps in ditch + river embayment
- Pack + ship equipment
- demob

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
—	—

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
JO	RMT	pjt status

JOvervoorde 4/10/08
SIGNED DATE

CHECKED BY 4/24/08
DATE

RMT

Water Level Elevations
~~WATER SAMPLE LOG~~

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER:	6527.29 32	BY: JD ~~DWSP~~	DATE: See Below	BY: EV	DATE: 4/24/08

SAMPLE ID:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
4/8/08			depth to wtr	depth to prod.					
	MW-31s		4.66						
	MW-32s		5.10						
	MW-33s		NM - developing						
	MW-34s		5.62						
	MW-35s		4.38	4.37					
4/9/08									
	MW-31s		4.55						
	MW-32s		5.32						
	MW-33s		5.78						
	MW-34s		7.01						
	MW-35s		5.85	—					

SIGNATURE: [illegible]

DATE SIGNED: 4/8/08

2nd Quarter 2008 Field Data

RMT

• ENVIRONMENT • ENERGY • ENGINEERING

PROJECT NAME:	L.E. Carpenter
PROJECT NUMBER:	6527.29
PROJECT MANAGER:	Nicholas Clevett
SITE LOCATION:	LEC Wharton, NJ
DATES OF FIELDWORK:	5/5/08 TO 5/9/08
PURPOSE OF FIELDWORK:	Quarterly Sampling
WORK PERFORMED BY:	Eric Vincke / Scot Middlebrook

SIGNED [signature] DATE 5/12/08

CHECKED BY [signature] DATE 5/15/08

REVISED 03/2008

RMT

GENERAL NOTES

PROJECT NAME: L.E. Carpenter	DATE: 5/5/08	TIME ARRIVED: 1215
PROJECT NUMBER: 6527.29	AUTHOR: EV/SM	TIME LEFT: 2080 ~~[illegible]~~

WEATHER

TEMPERATURE: 60-70's °F WIND: 5-10 MPH VISIBILITY: Sunny

WORK / SAMPLING PERFORMED

* Complete Site Wide Water levels.
* Sample Surface Water Samples.
  SW-D-5, DRC-2, SW-R-1, SW-R-2, SW-R-3 (DUP-01), SW-R-4, SW-D-4, SW-D-3, SW-D-2, SW-D-1 (MS/MSD), SW-R-6, SW-R-5, RB-01, TB-01.
* Get CO_2 tank filled for sampling.
* Buy sample tubing
* Buy Distilled H_2O for Decon.
* Product measured in MW-32s & possibly MW-35s

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
J. Overvoorde	RMT	Site Update

E. [signature] 5/6/08
SIGNED DATE

J Overvoorde 5/15/08
CHECKED BY DATE

RMT

GENERAL NOTES

PROJECT NAME: L.E. Carpenter	DATE: 5/6/08	TIME ARRIVED: 0645
PROJECT NUMBER: 6527.29	AUTHOR: EV/SM	TIME LEFT: 2030

WEATHER

TEMPERATURE: 40-70's °F WIND: 5-10 MPH VISIBILITY: Sunny

WORK / SAMPLING PERFORMED

* Unpack sample equipment, calibrate meters.
* Sampled: MW-25R, MW-19-12, MW-34s (not all bottles), MW-19-4 (DUP-02), GEI-2s, MW-19-6.

* Pumped MW-27s dry.
* Pumped MW-31s dry.
* Pumped MW-33s dry (ATM-01)

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
Wrench fell down MW-30D locking the pump in well.	Tried to fish out.

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
N. Clevett	RMT	Site update
D. Condon	L.E.C.	Check in.

E. [signature] 5/6/08 — SIGNED / DATE

[signature] 5/15/08 — CHECKED BY / DATE

RMT

GENERAL NOTES

PROJECT NAME: L.E. Carpenter	DATE: 5/7/08	TIME ARRIVED: 0645
PROJECT NUMBER: 6527.29	AUTHOR: EV/SM	TIME LEFT: 1930

WEATHER

TEMPERATURE: 70's °F WIND: 5-10 MPH VISIBILITY: P. Cloudy

WORK / SAMPLING PERFORMED

* Sampled: MW-29s, MW-19-7 (MS/MSD), MW-19-5, MW-30D, MW-19, MW-30I (DUP-03), MW-28I, MW-28s

* Pumped MW-35s & MW-32s dry w/peristaltic pump.

* EWMI removed staged drums & pumped out polytank

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
Could not pull wrench out of MW-30D.	Sampled well w/wrench in place.

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
N. Clevett	RMT	Site update

E. [signature] 5/12/08
SIGNED DATE

[signature] 5/15/08
CHECKED BY DATE

RMT

GENERAL NOTES

PROJECT NAME: L.E. Carpenter	DATE: 5/8/08	TIME ARRIVED: 0645
PROJECT NUMBER: 6527.29	AUTHOR: EV/SM	TIME LEFT: 1830

WEATHER

TEMPERATURE: 70's °F WIND: 10-15 MPH VISIBILITY: P. Cloudy

WORK / SAMPLING PERFORMED

* Sampled: MW-30S, MW-31S, MW-32S, MW-33S, MW-34S, MW-35S, RB-02, RB-03.

* Could not fill enough bottles for TSS on MW-32S & MW-34S due to well recharge.

* Cleaned site

* Packed & shipped equipment & samples.

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
Could not pull pump from MW-30D	Made dedicated pump.

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
N. Clevett	RMT	Site update

E. [signature] 5/12/08
SIGNED DATE

[signature] 5/15/08
CHECKED BY DATE

RMT

GENERAL NOTES

PROJECT NAME: L.E. Carpenter	DATE: 5/9/08	TIME ARRIVED: 0730
PROJECT NUMBER: 6527.29	AUTHOR: EV/SM	TIME LEFT: 1030

WEATHER

TEMPERATURE: 60's °F WIND: 5-10 MPH VISIBILITY: Overcast/Rain

WORK / SAMPLING PERFORMED

Took WL's around the site

Demobe from site

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION

NAME	REPRESENTING	SUBJECT / COMMENTS
N. Clevett	RMT	Site update
D. Condon	L.E.C.	Check out

E. [signature] 5/12/08 — SIGNED / DATE

[signature] 5/15/08 — CHECKED BY / DATE

RMT

EQUIPMENT SUMMARY

PROJECT NAME:	L.E. Carpenter	SAMPLER NAME:	EV/SM
PROJECT NO.:	6527.29		

WATER LEVEL MEASUREMENTS COLLECTED WITH:

QED MP 10 — NAME AND MODEL OF INSTRUMENT

LEC — SERIAL NUMBER (IF APPLICABLE)

PRODUCT LEVEL MEASUREMENTS COLLECTED WITH:

Insitu NA — NAME AND MODEL OF INSTRUMENT

LEC — SERIAL NUMBER (IF APPLICABLE)

DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:

EV ~~Insitu~~ NA QED MP-10 — NAME AND MODEL OF INSTRUMENT

NA LEC — SERIAL NUMBER (IF APPLICABLE)

PURGING METHOD

QED Portable Bladder — NAME AND MODEL OF PUMP OR TYPE OF BAILER

Field Environmental — SERIAL NUMBER (IF APPLICABLE)

SAMPLING METHOD

QED Portable Bladder — NAME AND MODEL OF PUMP OR TYPE OF BAILER

Field Environmental — SERIAL NUMBER (IF APPLICABLE)

In-Line — NAME AND MODEL OF FILTERATION DEVICE

0.45 micron — FILTER TYPE AND SIZE

PE — TUBING TYPE

☒ LOW-FLOW SAMPLING EVENT

PURGE WATER DISPOSAL METHOD

☐ GROUND ☐ DRUM ☐ POTW ☒ POLYTANK ☐ OTHER _____

DECONTAMINATION AND FIELD BLANK WATER SOURCE

STORE BOUGHT — POTABLE WATER SOURCE

STORE BOUGHT — DI WATER SOURCE

E. [signature] 5/12/08 — SIGNED / DATE

[signature] 5/15/08 — CHECKED BY / DATE

RMT

EQUIPMENT SUMMARY

PROJECT NAME:	L.E. Carpenter	SAMPLER NAME:	EV/SM
PROJECT NO.:	6527.29		

WATER LEVEL MEASUREMENTS COLLECTED WITH:

QED MP10 — NAME AND MODEL OF INSTRUMENT

6RR — SERIAL NUMBER (IF APPLICABLE)

PRODUCT LEVEL MEASUREMENTS COLLECTED WITH:

NA — NAME AND MODEL OF INSTRUMENT

NA — SERIAL NUMBER (IF APPLICABLE)

DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:

NA — NAME AND MODEL OF INSTRUMENT

NA — SERIAL NUMBER (IF APPLICABLE)

PURGING METHOD

QED Portable Bladder — NAME AND MODEL OF PUMP OR TYPE OF BAILER

6RR — SERIAL NUMBER (IF APPLICABLE)

SAMPLING METHOD

QED Portable Bladder — NAME AND MODEL OF PUMP OR TYPE OF BAILER

6RR — SERIAL NUMBER (IF APPLICABLE)

In-Line — NAME AND MODEL OF FILTERATION DEVICE

0.45 Micron — FILTER TYPE AND SIZE

PE — TUBING TYPE

☒ LOW-FLOW SAMPLING EVENT

PURGE WATER DISPOSAL METHOD

☐ GROUND ☐ DRUM ☐ POTW ☒ POLYTANK ☐ OTHER _____

DECONTAMINATION AND FIELD BLANK WATER SOURCE

STORE BOUGHT — POTABLE WATER SOURCE

STORE BOUGHT — DI WATER SOURCE

E. [illegible] 5/12/08 — SIGNED / DATE

[illegible] 5/15/08 — CHECKED BY / DATE

RMT

CALIBRATION LOG

PROJECT NAME: L. E. Carpenter	MODEL: YSI 556 MPS	SAMPLER: EV/SP
PROJECT NO.: 6527.29	SERIAL #: 6RR	DATE: 5/6/08

PH CALIBRATION CHECK

PH 7 (LOT NUMBER): 8AB018 2/10	PH 4 10 (LOT NUMBER): 8AB212 2/10	TIME
7.04 / 7.00	3.94 / 4.00	721
6.80 / 7.00	4.23 / 4.00	1303
/	/	
/	/	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 2801204 01/09	TEMPERATURE (°CELSIUS)	CORRECTED CONDUCTIVITY (umhos/cm)	TIME
1296 / 1413	16.0		730
1612 / 1413	22.85		1259
/			
/			

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
11.26	742
13.11	1306

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (LOT #):	(LOT #):	TIME
0.0 / 0.0	/	
0.0 / 0.0	/	
/	/	
/	/	

OXIDATION / REDUCTION POTENTIAL CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 7AJ071 5/08	TEMPERATURE (°CELSIUS)	CORRECTED ORP (mV)	TIME
235 / 220	14.2		716
205.8 / 220	22.9		1256
/			
/			

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

Scott Middlebrook 5-8-08
SIGNED DATE

[signature] 5/15/08
CHECKED BY DATE

RMT

CALIBRATION LOG

PROJECT NAME:	LEC Quarterly Monitoring	MODEL:	QED MP20	SAMPLER:	E. Vincke
PROJECT NO.:	6527.29	SERIAL #:	LEC	DATE:	5/6/08

PH CALIBRATION CHECK

PH 7 (LOT NUMBER): 8AB018	PH 4 10 (LOT NUMBER): 8AB212	TIME
7.48 / 7.00	4.90 / 4.00	0719
6.87 / 7.00	3.87 / 4.00	11:37
/	/	
/	/	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 2801204	TEMPERATURE (°CELSIUS)	CORRECTED CONDUCTIVITY (umhos/cm)	TIME
1375 / 1413	16.72	1413	0727
1410 / 1413	24.10	1413	1140
/			
/			

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
9.64	0734
9.15	1144

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (LOT #): 0731	(LOT #): 1134	TIME
475 / 0-1,000	473 / 0-1,000	
47 / 0-100	47 / 0-100	
5 / 0-10	/ 0-10	
/	/	

OXIDATION / REDUCTION POTENTIAL CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 7AJ071	TEMPERATURE (°CELSIUS)	CORRECTED ORP (mV)	TIME
199 / 220	14.34	220	0717
187 / 220	27.09	220	1135
/			
/			

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

E. Vincke 5/6/08
SIGNED DATE

J Overmoude 5/15/08
CHECKED BY DATE

REVISED 07/2005

RMT

CALIBRATION LOG

PROJECT NAME: L. E. Carpenter	MODEL: YSI 556 MPS	SAMPLER: EV/SP
PROJECT NO.: 6527.29	SERIAL #: 6RR	DATE: 5-7-08

PH CALIBRATION CHECK

PH 7 (LOT NUMBER): 8AB018 2/10	PH 4 / 10 (LOT NUMBER): 8AB212 2/10	TIME
5.9 / 7.0	4.43 / 4.0	0657
9.65 / 7.0	2.26 / 4.0	1306
/	/	
/	/	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 2801204 1/09	TEMPERATURE (°CELSIUS)	CORRECTED CONDUCTIVITY (umhos/cm)	TIME
.949 / 1413	13		0650
1647 / 1413	26.39		1301
/			
/			

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
11.84	0704
10.24	1311

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (LOT #):	(LOT #):	TIME
0.0 / 0.0	6.86 / 10.0	0709
/	/	
/	/	
/	/	

OXIDATION / REDUCTION POTENTIAL CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER):	TEMPERATURE (°CELSIUS)	CORRECTED ORP (mV)	TIME
241.7 / 220	12.89		0653
183 / 220	26.55		1304
/			
/			

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

Scott McMillebrook 5-7-08
SIGNED DATE

J Overmoorde 5/15/08
CHECKED BY DATE

REVISED 07/2005

RMT

CALIBRATION LOG

PROJECT NAME:	LEC Quarterly Monitoring	MODEL:	QED MP-20	SAMPLER:	E. Vincke
PROJECT NO.:	6527.29	SERIAL #:	LEC	DATE:	5/7/08

PH CALIBRATION CHECK

PH 7 (LOT NUMBER): 8AB018	PH 4 / 10 (LOT NUMBER): 8AB212	TIME
7.53 / 7.00	3.78 / 4.00	1304
/	/	
/	/	
/	/	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 2801204	TEMPERATURE (°CELSIUS)	CORRECTED CONDUCTIVITY (umhos/cm)	TIME
1384 / 1413	28.72	1413	1308
/			
/			
/			

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
10.25	1309

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (LOT #): 1307	(LOT #):	TIME
474 / 0-1000	/	
46 / 0-100	/	
5 / 0-10	/	
/	/	

OXIDATION / REDUCTION POTENTIAL CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 7A3071	TEMPERATURE (°CELSIUS)	CORRECTED ORP (mV)	TIME
219 / 220	31.50	220	1302
/			
/			
/			

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS
1 Calibration	Short Sampling Day

E. Vincke 5/7/08
SIGNED DATE

D Vernarde 5/15/08
CHECKED BY DATE

REVISED 07/2005

RMT

CALIBRATION LOG

PROJECT NAME: L. E. Carpenter	MODEL: 556 MPS	SAMPLER: EV/SP
PROJECT NO.: 6527.29	SERIAL #: 6RR	DATE: 5-8-08

PH CALIBRATION CHECK

PH 7 (LOT NUMBER): 8AB018 2/10	PH 4 / 10 (LOT NUMBER): 8AB212 2/10	TIME
7.14 / 7.00	3.58 / 4.00	0724
/	/	
/	/	
/	/	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 2801204 1/09	TEMPERATURE (°CELSIUS)	CORRECTED CONDUCTIVITY (umhos/cm)	TIME
1372 / 1413	18.01		0722
/			
/			
/			

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
10.94	0733

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (LOT #):	(LOT #):	TIME
0.0 / 0.0	5.8 / 10.0	
/	/	
/	/	
/	/	

OXIDATION / REDUCTION POTENTIAL CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 7AJ071 5/08	TEMPERATURE (°CELSIUS)	CORRECTED ORP (mV)	TIME
246.4 / 220	18.11	0	0720
/			
/			
/			

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

[signature] 5-8-08
SIGNED DATE

[signature] 5/15/08
CHECKED BY DATE

REVISED 07/2005

WATER LEVEL DATA

PROJECT NAME:	L. E. Carpenter	DATE:	5/5/08
PROJECT NUMBER:	6527.29	AUTHOR:	EV/SM

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-19	1916		8.90	16.58		
MW-19-1	1851		8.64			
MW-19-2	1855		9.27			
MW-19-3	1853		9.67			
MW-19-4	1858		8.32	16.02		
MW-19-5	1914		8.65	15.45		
MW-19-6	1848		8.92	19.42		
MW-19-7	1911		8.18	20.18		
MW-19-8	1913		8.55			
MW-19-9D	1843		8.64			
MW-19-10	—		NM	Abandoned		
MW-19-11	1909		6.93			
MW-19-12	1906		7.80	16.70		
GEI-2I	1902		10.31			
GEI-2S	1903		10.19	19.61		
GEI-3I	1603		12.47			
MW-16S	1808		10.04			
MW-15I	1806		10.01			
MW-18S	1547		4.98			
MW-18I	1546		4.35			
MW-17S	1254		7.89			
MW-12R	1259		7.54			
MW-9	1341		3.51			
MW-8	1303		2.76			
MW-25R	1401		2.21	9.82		
MW-21	1405		2.92			
MW-27S	1922		8.71	13.02		
MW-28S	1308		6.53	17.63		

MW-28I	1307		5.35	22.81		
MW-29S	1312		7.22	14.59		
MW-30S	1327		2.84	12.08		
MW-30I	1324		2.68	18.10		
MW-30D	1320		2.69	27.15		
MW-31s	1331		4.80	10.23		
MW-32s	1338		5.96	10.33	5.86	
MW-33s	1350		5.91	10.14		
MW-34s	1341		* 5.39	10.21		
MW-35s	1344		4.65	10.15		
SW-D-1	1785		1.70			
SW-D-2	1723		2.95			
SW-D-3	1705		1.46			
SW-D-4	1523		0.79			
SW-D-5	1422		2.82			
SW-R-1	1436		2.45			
SW-R-2	1445		2.54			
SW-R-3	1456		1.63		Dup-01	
SW-R-4	1509		2.30			
SW-R-5	1603		1.63			
SW-R-6	1552		NM - stake is gone.			
DRC-1	—		—			
DRC-2	1413		1.90			
SG-R2	1256		2.53			
MW-13S	1727 ~~1256~~		~~2.57~~ 5.15			
MW-13I	1726		4.41			
MW-13S (R)	1725		4.48			
* MW-35s - WL says 4.65 interface probe says 4.75. Shown on interface probe.						

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR
(E.G., 1.1 + 0.00 T/PVC).

SIGNED [signature] DATE 5/5/08

CHECKED [signature] DATE 5/15/08

WATER LEVEL DATA

PROJECT NAME:	L. E. Carpenter	DATE:	5/9/08
PROJECT NUMBER:	6527.29	AUTHOR:	EV/SM

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-19						
MW-19-1						
MW-19-2						
MW-19-3						
MW-19-4						
MW-19-5						
MW-19-6						
MW-19-7						
MW-19-8						
MW-19-9D						
MW-19-10						
MW-19-11						
MW-19-12						
GEI-2I						
GEI-2S						
GEI-3I						
MW-15S			10.16			
MW-15I			10.10			
MW-18S			5.03			
MW-18I			4.483			
MW-17S	815		8.03			
MW-12R	0812		7.84			
MW-9	0811		3.78			
MW-8	0808		2.92			
MW-25R	0749		2.19			
MW-21						
MW-27S						
MW-28S	0817		5.64			

	Time		WL			
MW-28I	0817		5.54			
MW-29S	0741		7.25			
MW-30S	0746		2.94			
MW-30I	0746		2.79			
MW-30D	0746		2.80			
MW-31s	0802		4.93			
MW-32s	0800		9.43		9.41	
MW-33s	0807		6.05			
MW-34s	0756		9.45			
MW-35s	0752		8.10		8.14	WL using interface probe
SW-D-1						
SW-D-2						
SW-D-3						
SW-D-4						
SW-D-5						
SW-R-1	0747		2.58			
SW-R-2	0758		2.66			
SW-R-3	0805		1.85			
SW-R-4	806		2.49			
SW-R-5						
SW-R-6						
DRC-1						
DRC-2						
SG-R2	08.13		2.78			
MW-13S						
MW-13I						
MW-13S (R)						

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

[signature] 5/9/08
SIGNED DATE

[signature] 5/15/08
CHECKED DATE

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/5/08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: SW-D-1 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1755	DATE: 5/5/08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: ____ umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM NA T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: NA °C	OTHER:	
VOLUME REMOVED ____ ☑ LITERS ☐ GALLONS			COLOR: ____	ODOR: ____	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☒ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
4	40 mL	VOA	E	☐ Y ☑ N	4	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 mL~~	PLASTIC		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
1	125 mL	PLASTIC	~~A~~	~~☐ Y~~ ☑ N	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/5/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5/12/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/5/08	BY: JO	DATE: 5/15/08

SAMPLE ID: SW-D-2 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER	
DEPTH TO WATER: ____ T/ PVC		
DEPTH TO BOTTOM ____ T/ PVC		
WELL VOLUME: ____ ☑ LITERS ☐ GALLONS		
VOLUME REMOVED ____ ☑ LITERS ☐ GALLONS		
COLOR: ____ ODOR: ____		
TURBIDITY: ____		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		

NA

SAMPLE	TIME: 1723	DATE: 5/5/08
PH: ____ SU	CONDUCTIVITY: ____ umhos/cm	
ORP: ____ mv	DO: ____ mg/L	
TURBIDITY: ____ NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: ____ °C	OTHER: ____	
COLOR: ____	ODOR: ____	
FILTRATE (0.45 um) ☑ YES ☐ NO		
FILTRATE COLOR: ____	FILTRATE ODOR: ____	
QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
COMMENTS:		

NA

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 ml~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/5/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5/12/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: KO	DATE: 5/15/08

SAMPLE ID: SW-0-3 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1705	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: NA °C	OTHER:	
VOLUME REMOVED NA ☑ LITERS ☐ GALLONS			COLOR: NA	ODOR:	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~4~~	~~100 mL~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~4~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~4~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~4~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: S. Middlebrook	DATE SIGNED: 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: AO	DATE: 5/15/08

SAMPLE ID: SW-D-4 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1523	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: ____ °C	OTHER:	
VOLUME REMOVED NA ☑ LITERS ☐ GALLONS			COLOR: NA	ODOR:	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☐ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 mL~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: Scott Medlin	DATE SIGNED: 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: JO	DATE: 5/15/08

SAMPLE ID: SW-D-5 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1422	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: ____ umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: ____ °C	OTHER: ____	
VOLUME REMOVED ____ ☑ LITERS ☐ GALLONS			COLOR: ____	ODOR: ____	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 mL~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: AO	DATE: 5/15/08

SAMPLE ID: SW-R-1 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1436	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: ____ umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: ____ °C	OTHER: ____	
VOLUME REMOVED NA ☑ LITERS ☐ GALLONS			COLOR: NA	ODOR: ____	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 mL~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: Scott Muddiman	DATE SIGNED: 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: KO	DATE: 5/15/08

SAMPLE ID: SW-R-2 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1445	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: ____ umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: ____ °C	OTHER: ____	
VOLUME REMOVED ____ ☑ LITERS ☐ GALLONS			COLOR: NA	ODOR: ____	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 ml~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 ml~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-5-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: XU	DATE: 5/15/08

SAMPLE ID: SW-R-3 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1456	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: NA °C	OTHER:	
VOLUME REMOVED NA ☑ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR:	~~FILTRATE ODOR:~~	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☒ DUP- 01		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
4	40 mL	VOA	E	☐ Y ☑ N	4	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 mL~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: JO	DATE: 5/15/08

SAMPLE ID: SW-R-01 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1509	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ TOC PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ TOC PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ NA ☑ LITERS ☐ GALLONS			TEMPERATURE: ____ NA °C	OTHER:	
VOLUME REMOVED ____ ☑ LITERS ☐ GALLONS			COLOR: ____ NA	ODOR:	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 mL~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: JO	DATE: 5/15/08

SAMPLE ID: SW-R-5 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1603	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: NA °C	OTHER:	
VOLUME REMOVED NA ☑ LITERS ☐ GALLONS			COLOR: ____	ODOR: ____	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 mL~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: SW-R-6 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1552	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: ____ umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM NA T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: NA °C	OTHER:	
VOLUME REMOVED ____ ☑ LITERS ☐ GALLONS			COLOR: NA	ODOR:	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 mL~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [illegible]	DATE SIGNED: 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-5-08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: ORC - 2 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1413	DATE: 5-5-08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☑ LITERS ☐ GALLONS			TEMPERATURE: ____ °C	OTHER:	
VOLUME REMOVED ____ ☑ LITERS ☐ GALLONS			COLOR:	ODOR:	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR </= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
~~2~~	~~40 mL~~	~~VOA~~	~~A~~	~~☐ Y ☑ N~~	~~2~~	~~500mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~100 mL~~	~~PLASTIC~~		~~☐ Y ☑ N~~	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
~~1~~	~~125 mL~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~	~~1~~	~~250 mL~~	~~PLASTIC~~	~~C~~	~~☐ Y ☑ N~~

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-5-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: ~~5-8-08~~ 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/6/08	BY: SMD	DATE: 5/15/08

SAMPLE ID: MW-27S

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 854	DATE: 5-6-08	SAMPLE	TIME: 0835/1800	DATE: 5/7/08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER	PH: 7.18 SU; CONDUCTIVITY: 735 umhos/cm; ORP: 111.1 mv; DO: 1.00 mg/L
DEPTH TO WATER: 8.35 T/ PVC	TURBIDITY: 81.1 NTU
DEPTH TO BOTTOM 13.03 T/ PVC	☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY
WELL VOLUME: 3.0 ☑ LITERS ☐ GALLONS	TEMPERATURE: 11.43 °C; OTHER:
VOLUME REMOVED 3.03 ☑ LITERS ☐ GALLONS	COLOR: cloudy; ODOR: none
COLOR: cloudy; ODOR: none; TURBIDITY: ~~81.1~~ 198	FILTRATE (0.45 um) ☑ YES ☐ NO
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY	FILTRATE COLOR: clear; FILTRATE ODOR: none
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER	QC SAMPLE: ☐ MS/MSD ☐ DUP-
	COMMENTS: Ferrous - 0 CO_2 - 22.5 ALK - 85

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
854	400	7.16	740	111.8	1.20	198	12.33	8.35	INITIAL
859	100	7.10	696	163.3	1.60	120	11.15	11.08	2.0
904	100	7.00	719	116.4	1.60	81.6	11.17	11.54	2.5
909	100	7.18	735	111.1	1.00	81.1	11.43	NA	3.0
914	100	Dry							
5/7/08	0835	samples collected (Not 1L & 0.5L Plastic)							
5/7/08	1800	sample (1L and 0.5L plastic)							

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-6-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-6-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/6/08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: MW-25 R — WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0848	DATE: 5/6/08	SAMPLE	TIME: 1003	DATE: 5/6/08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.24 T/ PVC

DEPTH TO BOTTOM 9.82 T/ PVC

WELL VOLUME: 4.91 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 30.0 ☑ LITERS ☐ GALLONS

COLOR: Cloudy/Float. ODOR: None

TURBIDITY: 365

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.20 SU CONDUCTIVITY: 601 umhos/cm

ORP: -80 mv DO: 0.21 mg/L

TURBIDITY: 46 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.95 °C OTHER:

COLOR: CLR/Float. ODOR: None

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: CLR FILTRATE ODOR: None

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0848	400	6.43	576	20	5.15	365	11.66	2.24	INITIAL
0853	↓	6.97	578	-40	2.74	893	10.82	2.28	2.0
0858		7.10	582	-66	1.83	665	10.89	2.34	4.0
0903		7.16	581	-70	1.48	465	10.89	2.38	6.0
0908		7.19	584	-74	1.06	723	10.89	2.49	8.0
0913		7.20	585	-77	0.82	630	10.86	2.49	10.0
0918		7.18	589	-76	0.64	322	10.87	2.49	12.0
0923		7.17	592	-76	0.54	202	10.92	2.49	14.0
0928		7.15	594	-77	0.49	163	10.91	2.49	16.0
0933	↓	7.14	593	-76	0.43	129	10.91	2.49	18.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR </= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/6/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5/6/08

RMT WATER SAMPLE LOG (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: L.E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/6/08	BY: XO	DATE: 5/15/08

SAMPLE ID: MW-25R

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0938	400	7.18	594	-80	0.32	40	10.88	2.49	20.0
0943	↓	7.09	595	-81	0.29	51	10.92	2.49	22.0
0948		7.16	594	-83	0.24	59	10.94	2.49	24.0
0953		7.18	596	-82	0.23	45	10.91	2.49	26.0
0958		713	600	-81	0.23	47	10.91	2.49	28.0
1003		7.20	601	-80	0.21	46	10.95	2.49	30.0

Ferrous → 4.5 ppm
CO_2 → 15 ppm
Alk → 150 ppm

SIGNATURE: [signature] DATE SIGNED: 5/6/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-6-08	BY: JD	DATE: 5/15/08

SAMPLE ID: MW-19-12 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1004	DATE: 5-6-08	SAMPLE	TIME: 1024	DATE: 5-6-08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 7.82 T/ PVC

DEPTH TO BOTTOM 16.80 T/ PVC

WELL VOLUME: 5.75 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 8.0 ☑ LITERS ☐ GALLONS

COLOR: cloudy ODOR: none

TURBIDITY: 86.2

☐ NONE ☒ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.09 SU CONDUCTIVITY: 386 umhos/cm

ORP: 79.0 mv DO: 7.40 mg/L

TURBIDITY: .12 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 13.31 °C OTHER:

COLOR: clear ODOR:

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: clr FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: Alk-110 Ferrous-0 Co2-10

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1004	400	7.59	416	70.5	6.08	86.2	14.28	7.82	INITIAL
1009		6.70	391	111.8	7.31	22.6	13.47	7.82	2.0
1014		7.04	390	83.9	7.92	5.03	13.43	7.83	4.0
1019		7.08	382	79.7	7.34	2.05	13.32	7.83	6.0
1024		7.09	386	79.0	7.40	.12	13.31	7.84	8.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☐ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-6-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [illegible]	DATE SIGNED: 5-6-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/6/08	BY: JD	DATE: 5/15/08

SAMPLE ID: MW-34s

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1051	DATE: 5/6/08	SAMPLE	TIME: 1300	DATE: 5/6/08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 5.11 T/ PVC

DEPTH TO BOTTOM 10.21 T/ PVC

WELL VOLUME: 3.30 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 6.0 ☑ LITERS ☐ GALLONS

COLOR: Cloudy ODOR: None

TURBIDITY: 36

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.01 SU CONDUCTIVITY: 794 umhos/cm

ORP: -111 mv DO: 0.51 mg/L

TURBIDITY: 7 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 14.84 °C OTHER:

COLOR: CLR ODOR: V. Slight

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: CLR FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: Well went dry during Stabilization

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1051	400	7.06	727	-63	3.50	36	14.53	5.11	INITIAL
1056	200	7.04	811	-88	1.67	24	12.72	7.09	2.0
1101	↓	7.26	920	-102	0.57	16	14.66	7.34	3.0
1106		7.28	985	-122	0.58	10	15.11	7.81	4.0
1111		7.17	897	-116	0.53	5	15.63	T of Pump	5.0
1116		7.01	794	-111	0.51	7	15.84	T. of Pump	6.0
Swamp in Sheen water			Ferrous →		NM	Not enough water			
			CO_2 →		NM				
			Alk →		NM				

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR </= 10 TEMP.: +/- 0.5°C

5/8/08
0940

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A /B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/6/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: E. Vail	DATE SIGNED: 5/6/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-6-08	BY: JD	DATE: 5/15/08

SAMPLE ID: MW-19-4 WELL DIAMETER: ☐ 2" ☒ 4" ☐ 6" ☐ OTHER ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER ____

PURGING	TIME: 1318	DATE: 5-6-08	SAMPLE	TIME: 1353	DATE: 5-6-08
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER ____		PH: 6.52 SU	CONDUCTIVITY: 987 umhos/cm	
			ORP: 113.0 mv	DO: 4.13 mg/L	
DEPTH TO WATER: 8.28 T/ PVC			TURBIDITY: 8.33 NTU		
DEPTH TO BOTTOM 16.02 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 5.02 ☑ LITERS ☐ GALLONS			TEMPERATURE: 11.22 °C	OTHER: ____	
VOLUME REMOVED 14.0 ☑ LITERS ☐ GALLONS			COLOR: clear	ODOR: none	
COLOR: clear	ODOR: none		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: 28.2			FILTRATE COLOR: clear	FILTRATE ODOR: none	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☒ DUP- 02		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS: Ferrous - .1 CO_2 - 15 Alk - 100		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1318	400	6.81	1075	121.2	4.54	28.2	12.04	8.28	INITIAL
1323		6.32	1017	132.0	3.82	25.0	11.49	8.47	2.0
1328		6.34	1012	121.9	3.69	21.1	11.43	8.48	4.0
1333		6.46	1006	116.6	3.79	17.0	11.27	8.49	6.0
1338		6.46	1001	114.2	3.80	14.0	11.20	8.49	8.0
1343		6.48	1004	114.0	3.66	12.3	11.44	8.49	10.0
1348		6.58	995	112.8	3.99	11.7	11.14	8.49	12.0
1353		6.52	987	113.0	4.13	8.33	11.22	8.49	14.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
4	40 mL	VOA	E	☐ Y ☑ N	24	1 L	AMBER	A	☐ Y ☑ N
4	40 mL	VOA	A	☐ Y ☑ N	24	500mL	PLASTIC	A/B	☑ Y ☑ N
2	100 mL	PLASTIC		☐ Y ☑ N	12	1 L	PLASTIC	A	☐ Y ☑ N
2	125 mL	PLASTIC	A	☐ Y ☑ N	12	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-6-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-6-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/6/08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: MW-31S

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER ____

PURGING	TIME: 1355	DATE: 5/6/08	SAMPLE	TIME: 0730	DATE: 5/8/08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER ____

DEPTH TO WATER: 4.46 T/ PVC

DEPTH TO BOTTOM 10.23 T/ PVC

WELL VOLUME: 3.74 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 9.0 ☑ LITERS ☐ GALLONS

COLOR: Cloudy/Brn ODOR: Slight

TURBIDITY: >1000

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 12.47 SU CONDUCTIVITY: 1499 umhos/cm

ORP: -192 mv DO: 0.51 mg/L

TURBIDITY: >1000 NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE: 15.74 °C OTHER: ____

COLOR: Brn ODOR: Slight

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Cloudy FILTRATE ODOR: Slight

QC SAMPLE: ☐ MS/MSD ☐ DUP- ____

COMMENTS: Well went Dry, Shown in sample

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1355	200	12.00	1600	-81	4.67	>1000	17.45	4.46	INITIAL
1400	↓	12.22	1610	-130	0.76	809	14.34	5.40	1.0
1405		12.26	1343	-204	0.36	190	14.65	6.10	2.0
1410		12.15	1172	-197	0.27	62	15.00	6.98	3.0
1415		12.02	1055	-193	0.31	36	14.98	7.45	4.0
1420		12.10	1155	-198	0.29	91	15.38	7.81	5.0
1425		12.33	1301	-208	0.23	362	15.11	8.55	6.0
1430		12.38	1371	-207	0.23	654	15.85	8.92	7.0
1435		12.46	1424	-204	0.26	>1000	15.47	Top of Pump	8.0
1440	↓	12.47	1499	-192	0.51	>1000	15.74	T of P	9.0

Ferrous → 1.0

CO_2 → 0

Alk 225

pH → 10.59 at sample time

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/6/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5/6/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/6/08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: MW-33S

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER ____

PURGING	TIME: 1501	DATE: 5/6/08	SAMPLE	TIME: 0830	DATE: 5/8/08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER ____

DEPTH TO WATER: 5.71 T/ PVC

DEPTH TO BOTTOM 10.14 T/ PVC

WELL VOLUME: 2.87 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 3.0 ☑ LITERS ☐ GALLONS

COLOR: Cloudy Brn ODOR: V. Slight

TURBIDITY: 552

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.29 SU CONDUCTIVITY: 650 umhos/cm

ORP: -74 mv DO: 0.77 mg/L

TURBIDITY: 682 NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE: 12.98 °C OTHER: ____

COLOR: Brn ODOR: V. Slight

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Cloudy FILTRATE ODOR: None

QC SAMPLE: ☐ MS/MSD ☐ DUP- ____

COMMENTS: Alk -> 180 Ferrous -> 18 CO_2 -> 70

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1501	200	7.92	626	-94	1.46	552	15.35	5.71	INITIAL
1506	↓	7.50	626	-86	0.35	310	13.23	7.70	1.0
1511		7.37	656	-79	0.43	492	12.99	8.65	2.0
1516		7.29	650	-74	0.77	682	12.98	T. of Pump	3.0
1521			Well	Went	Dry				

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/8/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5/12/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/6/08	BY: dD	DATE: 5/15/08

SAMPLE ID: ATM-01 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☒ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER	
DEPTH TO WATER:	T/ PVC	
DEPTH TO BOTTOM: NA	T/ PVC	
WELL VOLUME:	☑ LITERS ☐ GALLONS	
VOLUME REMOVED	☑ LITERS ☐ GALLONS	
COLOR:	ODOR:	
TURBIDITY:		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		

SAMPLE	TIME: 1525	DATE: 5/6/08
PH: ____ SU	CONDUCTIVITY: ____ umhos/cm	
ORP: ____ mv	DO: ____ mg/L	
TURBIDITY: ____ NTU		
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: NA °C	OTHER:	
COLOR:	ODOR:	
FILTRATE (0.45 um) ☑ YES ☐ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ☐ MS/MSD ☐ DUP-		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☐ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/6/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5/6/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-6-08	BY: JO	DATE: 5/15/08

SAMPLE ID: 6ET-25 WELL DIAMETER: ☐ 2" ☒ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1520	DATE: 5-6-08	SAMPLE	TIME: 1545	DATE: 5-6-08
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER		PH: 6.29 SU	CONDUCTIVITY: 669 umhos/cm	
			ORP: 118.4 mv	DO: 3.71 mg/L	
DEPTH TO WATER: 10.21 T/ PVC			TURBIDITY: 7.50 NTU		
DEPTH TO BOTTOM 19.61 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 6.09 ☑ LITERS ☐ GALLONS			TEMPERATURE: 9.97 °C	OTHER:	
VOLUME REMOVED 10.0 ☑ LITERS ☐ GALLONS			COLOR: Clear	ODOR: none	
COLOR: ~~107~~. Cloudy ODOR: none.			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: 107.8			FILTRATE COLOR: clr.	FILTRATE ODOR: none	
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS: Ferrous-0 Alk-50 CO_2-17		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1520	400	6.85	581	97.0	13.00	107.8	13.71	10.21	INITIAL
1525		6.08	634	136.1	4.16	46.7	10.43	10.24	2.0
1530		6.22	646	126.1	3.87	22.5	10.29	10.26	4.0
1535		6.26	659	121.1	3.77	14.2	10.00	10.29	6.0
1540		6.32	668	119.3	3.69	8.27	9.93	10.29	8.0
1545		6.29	669	118.4	3.71	7.50	9.97	10.29	10.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☑ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-6-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-6-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-6-08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: MW-19-6 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER ____

PURGING	TIME: 1643	DATE: 5-6-08	SAMPLE	TIME: 1723	DATE: 5-6-08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER ____

DEPTH TO WATER: 8.95 T/ PVC

DEPTH TO BOTTOM 19.42 T/ PVC

WELL VOLUME: 6.78 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 16.0 ☑ LITERS ☐ GALLONS

COLOR: Cloudy/orange ODOR: none

TURBIDITY: 109.6

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 6.71 SU CONDUCTIVITY: 1205 umhos/cm

ORP: 119.4 mv DO: 3.69 mg/L

TURBIDITY: 2.40 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.83 °C OTHER: ____

COLOR: Clear ODOR: none

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- ____

COMMENTS: CO_2 - 35 ALK - 110 Ferrous - 6

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1643	400	6.43	1113	107.5	10.52	109.6	14.00	8.95	INITIAL
1648		6.67	1190	133.6	3.13	73.3	11.97	8.99	2.0
1653		6.19	1186	135.2	3.43	29.5	11.67	8.96	4.0
1658		6.19	1217	131.5	3.47	21.0	11.74	8.96	6.0
1703		6.25	1198	126.7	3.64	9.53	11.84	8.96	8.0
1708		6.49	1196	123.8	3.58	5.46	11.85	8.96	10.0
1713		6.61	1202	121.1	3.70	3.67	11.86	8.96	12.0
1718		6.66	1202	120.9	3.74	2.88	11.92	8.96	14.0
1723		6.71	1205	119.4	3.69	2.40	11.83	8.96	16.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-6-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [illegible]	DATE SIGNED: 5-6-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-7-08	BY: JO	DATE: 5/15/08

SAMPLE ID: MW-29S

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 718	DATE: 5-7-08	SAMPLE	TIME: 0753	DATE: 5-7-08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 7.27 T/ PVC

DEPTH TO BOTTOM 14.59 T/ PVC

WELL VOLUME: 4.74 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 14.0 ☑ LITERS ☐ GALLONS

COLOR: clear ODOR: none

TURBIDITY: 46.4

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 6.89 SU CONDUCTIVITY: 935 umhos/cm

ORP: 31.2 mv DO: .27 mg/L

TURBIDITY: 5.90 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.22 °C OTHER:

COLOR: clear ODOR: none

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: clr FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: Alk-250 CO_2-70 Ferrous >20

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
718	400	6.38	1004	103.5	3.26	46.4	12.11	7.27	INITIAL
723		6.62	969	87.8	.41	77.4	11.98	7.36	2.0
0728		6.79	966	75.1	.28	57.7	12.06	7.38	4.0
0733		6.82	965	65.2	.28	31.4	12.09	7.38	6.0
0738		6.86	955	56.0	.28	12.8	12.10	7.39	8.0
0743		6.88	941	43.5	.27	9.27	12.15	7.39	10.0
0748		6.89	936	37.1	.25	7.72	12.17	7.39	12.0
0753		6.89	~~31.2~~ 935	31.2	.27	5.90	12.22	7.39	14.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR </= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: ☒ FedEx	DATE SHIPPED: 5-7-08	AIRBILL NUMBER: NA
COC NUMBER: ____ NA	SIGNATURE: [signature]	DATE SIGNED: 5-7-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-7-08	BY: LO	DATE: 5/15/08

SAMPLE ID: MW-19-7 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER ____

PURGING	TIME: 0924	DATE: 5-7-08	SAMPLE	TIME: 1019	DATE: 5-7-08
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER ____		PH: 6.42 SU	CONDUCTIVITY: 1892 umhos/cm	
			ORP: 0.5 mv	DO: 0.24 mg/L	
DEPTH TO WATER: 8.16 T/ PVC			TURBIDITY: 9.13 NTU		
DEPTH TO BOTTOM 20.18 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 7.79 ☑ LITERS ☐ GALLONS			TEMPERATURE: 11.31 °C	OTHER: ____	
VOLUME REMOVED 22.0 ☑ LITERS ☐ GALLONS			COLOR: clear	ODOR: none	
COLOR: Clear	ODOR: none		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: 36.1			FILTRATE COLOR: clear	FILTRATE ODOR: none	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☒ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS: Alk-130 Ferrous 1.5 CO_2-225		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0924	400	7.66	1789	33.0	2.54	36.1	13.27	8.16	INITIAL
0929		6.26	1899	33.5	.33	29.6	11.41	8.18	2.0
0934		6.37	1872	27.5	.31	27.1	11.36	8.18	4.0
0939		6.46	1875	~~26.5~~ 21.6	.33	16.4	11.35	8.18	6.0
0944		6.57	1890	17.4	.30	16.1	11.36	8.18	8.0
0949		6.63	1900	13.2	.27	14.2	11.35	8.18	10.0
0954		6.51	1918	10.2	0.25	11.4	11.62	8.18	12.0
0959		6.48	1897	7.6	0.26	11.1	11.34	8.18	14.0
1004		6.50	1899	4.8	0.25	7.78	11.45	8.18	16.0
1009		6.39	1897	3.6	0.23	9.16	11.25	8.18	18.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
4x	40 mL	VOA	E	☐ Y ☑ N	4x	1 L	AMBER	A	☐ Y ☑ N
4x	40 mL	VOA	A	☐ Y ☑ N	4x	500mL	PLASTIC	B/A	☑ Y ☑ N
2x	100 mL	PLASTIC		☐ Y ☑ N	2x	1 L	PLASTIC	A	☐ Y ☑ N
2x	125 mL	PLASTIC	A	☐ Y ☑ N	2x	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: X FedEx	DATE SHIPPED: 5-7-08	AIRBILL NUMBER: NA
COC NUMBER: ____ NA	SIGNATURE: [signature]	DATE SIGNED: 5-7-08

RMT

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/[illegible]	DATE: 5-7-08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: MW-19-7

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1014	400	6.41	1900	2.2	.24	8.63	11.37	8.18	20.0
1019	5	6.42	1892	0.5	.24	9.13	11.31	8.18	22.0

SIGNATURE: [illegible]

DATE SIGNED: 5-12-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-7-08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: MW-19-5 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER ____

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER ____

PURGING	TIME: 1100	DATE: 5-7-08	SAMPLE	TIME: 1150	DATE: 5-7-08
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER ____		PH: 5.99 SU	CONDUCTIVITY: 371 umhos/cm	
			ORP: 6.0 mv	DO: 1.48 mg/L	
DEPTH TO WATER: 8.66 T/ PVC			TURBIDITY: 10 NTU		
DEPTH TO BOTTOM 15.45 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 4.40 ☑ LITERS ☐ GALLONS			TEMPERATURE: 10.06 °C	OTHER: ____	
VOLUME REMOVED 20.0 ☑ LITERS ☐ GALLONS			COLOR: clr.	ODOR: none	
COLOR: Cloudy	ODOR: none		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: 1512			FILTRATE COLOR: clear	FILTRATE ODOR: none	
☐ NONE ☐ SLIGHT ☐ MODERATE ☑ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1100	400	6.71	410	-57.3	7.65	1512	12.90	8.66	INITIAL
1105		5.74	313	-6.3	3.08	340	10.54	8.81	2.0
1110		5.55	319	5.5	2.66	218	11.28	8.81	4.0
1115		5.67	313	-4.0	2.54	93.7	10.18	8.81	6.0
1120		5.76	319	-8.8	2.40	39.8	10.07	8.81	8.0
1125		5.82	329	-6.3	2.65	24.2	9.99	8.81	10.0
1130		5.84	336	-4.6	2.00	18.3	10.00	8.81	12.0
1135		5.90	347	-2.1	1.77	14.7	10.03	8.81	14.0
1140		6.05	359	-0.7	1.58	14.6	10.16	8.81	16.0
1145		6.01	357	4.9	1.65	11.1	10.06	8.81	18.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: ☒ FedEx	DATE SHIPPED: 5-7-08	AIRBILL NUMBER: NA
COC NUMBER: ____ NA	SIGNATURE: [signature]	DATE SIGNED: 5-7-08

RMT

WATER SAMPLE LOG (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SP	DATE: 5-7-08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: MW-19-5

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1150	400	5.99	371	6.0	1.48	10	10.06	8.81	20.0
~~1155~~									
				Ferrous →		0.2 ppm			
				Alk →		100 ppm			
				CO_2 →		40 ppm			

SIGNATURE: [signature]

DATE SIGNED: 5-7-08

REVISED 07/2005

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/7/08	BY: dD	DATE: 5/15/08

SAMPLE ID: MW-30D

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1317	DATE: 5/7/08	SAMPLE	TIME: 1417	DATE: 5/7/08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 2.75 T/ PVC

DEPTH TO BOTTOM 27.15 T/ PVC

WELL VOLUME: 15.81 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 24.0 ☑ LITERS ☐ GALLONS

COLOR: Brn ODOR: None

TURBIDITY: >1000

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.24 SU CONDUCTIVITY: 504 umhos/cm

ORP: -62 mv DO: 0.32 mg/L

TURBIDITY: 18 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.87 °C OTHER:

COLOR: CCR ODOR: None

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: CCR FILTRATE ODOR: None

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: Wrench down well

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1317	400	6.50	449	159	4.73	>1000	18.32	2.75	INITIAL
1322	↓	6.78	489	4	0.53	371	12.88	2.75	2.0
1327		6.76	486	-20	0.36	194	12.81	2.75	4.0
1332		7.04	489	-29	0.80	95	12.85	2.75	6.0
1337		7.07	496	-36	1.00	61	12.93	2.75	8.0
1342		7.08	498	-43	0.33	42	12.99	2.75	10.0
1347		7.13	501	-46	0.33	33	12.81	2.75	12.0
1352		7.14	500	-51	0.32	29	12.75	2.75	14.0
1357		7.17	502	-54	0.30	26	12.84	2.75	16.0
1402	✓	7.21	507	-58	0.27	21	12.93	2.75	18.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/7/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5/7/08

RMT **WATER SAMPLE LOG** (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	L.E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER:	6527.29	BY: EV/SM	DATE: 5/7/08	BY: DO	DATE: 5/15/08

SAMPLE ID: MW-30D

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1407	400	7.19	508	-59	0.28	18	12.96	2.75	20.0
1412	↓	7.23	505	-62	0.32	17	12.74	2.75	22.0
1417	↓	7.24	504	-62	0.32	18	12.87	2.75	24.0

Ferrous → 2 ppm
CO_2 → 14 ppm
Alk → 125 ppm

SIGNATURE: [signature] DATE SIGNED: 5/7/08

REVISED 03/2008

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-7-08	BY: JO	DATE: 5/15/08

SAMPLE ID: MW-19 WELL DIAMETER: ☐ 2" ☒ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1326	DATE: 5-7-08	SAMPLE	TIME: 1401	DATE: 5-7-08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 8.95 T/ PVC

DEPTH TO BOTTOM 16.58 T/ PVC

WELL VOLUME: 4.98 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 14.0 ☑ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: 30.3

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 6.12 SU CONDUCTIVITY: 1068 umhos/cm

ORP: 68.4 mv DO: 0.22 mg/L

TURBIDITY: 6.66 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.55 °C OTHER:

COLOR: Clear ODOR: slight

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1326	400	6.30	1070	107.6	5.30	30.3	12.23	8.95	INITIAL
1331		5.71	1061	119.4	0.34	9.33	10.83	9.06	≈2.0
1336		5.83	1060	107.1	0.27	8.17	10.71	9.06	4.0
1341		5.93	1068	92.7	0.27	7.55	10.78	9.09	6.0
1346		5.99	1072	86.8	0.26	7.47	10.96	9.09	8.0
1351		6.09	1068	77.5	0.23	7.09	10.64	9.09	10.0
1356		6.11	1067	73.6	0.23	6.11	10.58	9.09	12.0
1401		6.12	1068	68.4	0.22	6.66	10.55	9.09	14.0
			Ferrous ≥ 10 ppm Alk - 125 ppm CO_2 - 130 ppm						

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR </= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-7-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-7-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/7/08	BY: JD	DATE: 5/15/08

SAMPLE ID: MW-30 I

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER ____

PURGING	TIME: 1503	DATE: 5/7/08	SAMPLE	TIME: 1543	DATE: 5/7/08
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER ____		PH: 7.29 SU	CONDUCTIVITY: 581 umhos/cm	
			ORP: -142 mv	DO: 0.08 mg/L	
DEPTH TO WATER: 2.75 T/ PVC			TURBIDITY: 21 NTU		
DEPTH TO BOTTOM 18.10 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: 9.95 ☑ LITERS ☐ GALLONS			TEMPERATURE: 12.28 °C	OTHER: ____	
VOLUME REMOVED 16.0 ☑ LITERS ☐ GALLONS			COLOR: Clr	ODOR: None	
COLOR: Brn	ODOR: None		FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: 235			FILTRATE COLOR: Clr	FILTRATE ODOR: None	
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☒ DUP- D5		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS: Ferrous → 16 ppm, CO_2 → 26 ppm, Alk → 140 ppm		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1503	400	7.12	565	-78	2.84	235	15.29	2.75	INITIAL
1508	↓	7.13	582	-117	0.69	199	12.86	2.75	2.0
1513		7.16	581	-130	0.38	96	12.67	2.75	4.0
1518		7.17	580	-134	0.22	49	12.56	2.75	6.0
1523		7.28	579	-136	0.15	33	12.35	2.75	8.0
1528		7.27	579	-138	0.12	25	12.27	2.75	10.0
1533		7.24	579	-140	0.10	20	12.32	2.75	12.0
1538		7.23	578	-141	0.09	19	12.35	2.75	14.0
1543	↓	7.29	581	-142	0.08	21	12.28	2.75	16.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
4	40 mL	VOA	E	☐ Y ☑ N	4	1 L	AMBER	A	☐ Y ☑ N
4	40 mL	VOA	A	☐ Y ☑ N	4	500mL	PLASTIC	A/B	☒ Y ☑ N
2	100 mL	PLASTIC		☐ Y ☑ N	2	1 L	PLASTIC	A	☐ Y ☑ N
2	125 mL	PLASTIC	A	☐ Y ☑ N	2	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/7/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: E. Vanik	DATE SIGNED: 5/7/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-7-08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: MW-28I

WELL DIAMETER: ☒ 2" ☒ 4" ☐ 6" ☐ OTHER ____

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER ____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER ____

PURGING	TIME: 1503	DATE: 5-7-08
PURGE METHOD:	☑ PUMP BLADDER PUMP (QED) ☐ BAILER ____	
DEPTH TO WATER: 5.43 T/ PVC		
DEPTH TO BOTTOM 22.81 T/ PVC		
WELL VOLUME: 17.26 ☑ LITERS ☐ GALLONS		
VOLUME REMOVED 16.0 ☑ LITERS ☐ GALLONS		
COLOR: cloudy	ODOR: none	
TURBIDITY: 118		
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		

SAMPLE	TIME: 1541	DATE: 5-7-08
PH: 6.65 SU	CONDUCTIVITY: 593 umhos/cm	
ORP: -4.8 mv	DO: 0.20 mg/L	
TURBIDITY: 7.75 NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 12.99 °C	OTHER: ____	
COLOR: clear	ODOR: none	
FILTRATE (0.45 um) ☑ YES ☐ NO		
FILTRATE COLOR: clr.	FILTRATE ODOR: none.	
QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
COMMENTS: Ferrous >10 Alk-170 CO_2-35		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1503	900	6.50	470	70.6	3.93	118	15.54	5.43	INITIAL
1508	}	6.29	557	85.8	0.31	73.9	13.06	5.51	2.0
1513	}	6.33	579	65.5	0.26	64.0	13.96	5.51	4.0
1518	}	6.47	584	40.1	0.24	34.7	12.84	5.51	6.0
1523	}	6.59	588	28.7	0.23	21.5	12.91	5.51	8.0
1528	}	6.63	590	19.1	0.23	14.5	12.76	5.51	10.0
1533	}	6.64	593	7.6	0.21	10.73	12.91	5.51	12.0
1538	}	6.69	594	-3.6	0.20	9.10	12.93	5.51	14.0
1541	}	6.65	593	-4.8	0.20	7.75	12.99	5.51	16.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	~~A~~ AB	☑ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-7-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: Scott Mudell	DATE SIGNED: 5-7-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-7-08	BY: JO	DATE: 5/15/08

SAMPLE ID: MW-28S

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1624	DATE: 5-7-08	SAMPLE	TIME: 1639	DATE: 5-7-08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 5.53 T/ PVC

DEPTH TO BOTTOM 17.63 T/ PVC

WELL VOLUME: 7.84 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 10.0 ☑ LITERS ☐ GALLONS

COLOR: Cloudy / gray ODOR: none

TURBIDITY: 114

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 6.57 SU CONDUCTIVITY: 508 umhos/cm

ORP: -52.4 mv DO: 0.19 mg/L

TURBIDITY: 9.13 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.25 °C OTHER:

COLOR: clear ODOR: none

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: Ferrous >10 Alk-140 CO_2-35

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1624	400	6.43	502	-15.4	0.23	114	12.72	5.53	INITIAL
1629		6.50	501	-26.7	0.22	69.7	12.40	5.61	2.0
1634		6.54	505	-37.4	0.22	24.4	12.38	5.61	4.0
1639		6.56	507	-46.0	0.20	16.6	12.25	5.61	6.0
1634		6.57	508	-48.3	0.20	13.8	12.28	5.61	8.0
1639		6.57	508	-52.4	0.19	9.13	12.25	5.61	10.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☑ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-7-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-7-08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/7/08	BY: dO	DATE: 5/15/08

SAMPLE ID: MW-35s

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING		SAMPLE	
TIME: 1815	DATE: 5/7/08	TIME: 1100	DATE: 5-8-08
PURGE METHOD: ☑ PUMP ~~BLADDER PUMP~~ (QED) Peristaltic ☐ BAILER		PH: 6.78 SU	CONDUCTIVITY: 917 umhos/cm
		ORP: -56 mv	DO: 0.37 mg/L
DEPTH TO WATER: 4.88 T/ PVC		TURBIDITY: >1000 NTU	
DEPTH TO BOTTOM 10.15 T/ PVC		☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY	
WELL VOLUME: 3.41 ☑ LITERS ☐ GALLONS		TEMPERATURE: 11.51 °C	OTHER:
VOLUME REMOVED 4.0 ☑ LITERS ☐ GALLONS		COLOR: Brn	ODOR: Strong
COLOR: Brn	ODOR: Strong	FILTRATE (0.45 um) ☑ YES ☐ NO	
TURBIDITY: 770		FILTRATE COLOR: CLR	FILTRATE ODOR: Strong
☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY		QC SAMPLE: ☐ MS/MSD ☐ DUP-	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER		COMMENTS: Sheen in purge H_2O	

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1815	200	6.76	947	-23	2.33	770	13.84	4.88	INITIAL
1820	↓	6.79	916	-33	0.95	506	11.79	6.76	2.0
1825		6.80	923	-37	0.94	271	11.70	7.94	2.0
1830		6.84	923	-49	0.45	195	11.46	9.76	3.0
1835	↓	6.78	917	-56	0.37	>1000	11.51	Top of Pump	4.0
		Well	Went	Dry	let	recharge			
		During	sampling,	as well	went dry	very	trace	product	
	CO_2	-70	ALK-	310	Ferrous	>20			

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/8/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: E. Vanil	DATE SIGNED: 5/12/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/7/08	BY: dW	DATE: 5/15/08

SAMPLE ID: MW-32S

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1854	DATE: 5/7/08	SAMPLE	TIME: 1305	DATE: 5/8/08
PURGE METHOD:	☑ PUMP ~~BLADDER PUMP~~ (QED) Peristaltic ☐ BAILER		PH: 6.90 SU	CONDUCTIVITY: 1105 umhos/cm	
			ORP: -86 mv	DO: 0.33 mg/L	
DEPTH TO WATER: 6.01 T/ PVC 5.93 To Product			TURBIDITY: 109 NTU		
DEPTH TO BOTTOM 10.33 T/ PVC			☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY		
WELL VOLUME: 2.80 ☑ LITERS ☐ GALLONS			TEMPERATURE: 12.11 °C	OTHER:	
VOLUME REMOVED 2.0 ☑ LITERS ☐ GALLONS			COLOR: Cloudy	ODOR: Strong	
COLOR: Light Brn ODOR: Strong			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: 251			FILTRATE COLOR: CLR	FILTRATE ODOR: Strong	
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS: Product in well		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1854	200	6.83	1059	-61	3.47	251	14.76	5.93/6.01	INITIAL
1859	↓	6.89	1077	-76	0.33	85	12.49	8.07/8.12	1.0
1904		6.90	1105	-86	0.33	109	12.11	9.65/9.76	2.0
1908	↓	Well Went Dry / Stopped due to product coming up tubing.							

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A	☐ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	~~4~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/8/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: S. Kuil	DATE SIGNED: 5/12/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5-8-08	BY: dO	DATE: 5/15/08

SAMPLE ID: MW-30S

WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 0751	DATE: 5/8/08	SAMPLE	TIME: 0951	DATE: 5-8-08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: 3.02 T/ PVC

DEPTH TO BOTTOM 12.08 T/ PVC

WELL VOLUME: 5.87 ☑ LITERS ☐ GALLONS

VOLUME REMOVED 48.0 ☑ LITERS ☐ GALLONS

COLOR: grey/cloudy ODOR: none

TURBIDITY: 181

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

PH: 7.49 SU CONDUCTIVITY: 484 umhos/cm

ORP: -47.6 mv DO: 0.20 mg/L

TURBIDITY: 9.42 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.43 °C OTHER:

COLOR: clear ODOR: none

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: clr FILTRATE ODOR: none.

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: sheen in purge water

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0751	400	6.76	500	96.5	1.20	181	11.82	3.02	INITIAL
0756		6.44	496	75.5	0.33	142	11.44	3.10	2.0
0801		6.48	494	60.6	0.29	69.7	11.42	3.10	4.0
0806		6.48	492	49.5	0.28	53.5	11.40	3.11	6.0
0811		6.46	496	45.7	0.27	53.1	11.43	3.13	8.0
0816		6.55	489	34.9	0.25	40.3	11.41	3.14	10.0
0821		7.17	488	26.7	0.24	27.8	11.37	3.14	12.0
0826		7.17	488	18.4	0.22	11.2	11.40	3.15	14.0
0831		7.28	487	11.6	0.23	8.93	11.40	3.15	16.0
0836		7.48	487	8.3	0.21	10.24	11.48	3.16	18.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR </= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☒ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5-8-08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5-8-08

RMT

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SP	DATE: 5-8-08	BY: [illegible]	DATE: 5/15/08

SAMPLE ID: MW-30S

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0841 ~~[illegible]~~	400	7.63	487	0.7	0.21	9.21	11.36	3.16	20.0
0846		7.72	486	-3.4	0.22	9.04	11.38	3.17	22.0
0851		8.05	485	-10.5	0.29	8.91	11.32	3.17	24.0
0856		8.48	484	-14.6	0.22	8.65	11.37	3.17	26.0
0901 ~~0851~~		8.64	489	-20.7	0.22	8.69	11.50	3.17	28.0
0906		8.76	486	-19.9	0.21	10.0	11.31	3.17	30.0
0911		8.96	484	-24.3	0.20	8.91	11.32	3.17	32.0
0916		8.63	484	-29.0	0.20	8.85	11.29	3.17	34.0
0921		8.27	484	-31.1	0.20	9.16	11.31	3.17	36.0
0926		8.01	484	-35.1	0.20	8.08	11.37	3.17	38.0
0931		7.74	487	-33.9	0.22	9.36	11.37	3.17	40.0
0936		7.64	486	-40.1	0.20	8.32	11.41	3.17	42.0
0941		7.55	483	-44.0	0.20	8.29	11.36	3.17	44.0
0946		7.54	483	-46.3	0.20	8.07	11.32	3.17	46.0
0951		7.49	484	-47.6	0.20	9.42	11.43	3.17	48.0
		CO_2 - 22.5		AlK - 160		Ferrous - 18			

SIGNATURE: [signature]

DATE SIGNED: 5/8/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/8/08	BY: dO	DATE: 5/15/08

SAMPLE ID: RB-02 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☒ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1605	DATE: 5/8/08
PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER			PH: ____ SU	CONDUCTIVITY: ____ umhos/cm	
			ORP: ____ mv	DO: ____ mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☑ LITERS ☐ GALLONS			TEMPERATURE: ____ C	OTHER: ____	
VOLUME REMOVED ____ ☑ LITERS ☐ GALLONS			COLOR: ____	ODOR: ____	
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☑ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER			COMMENTS: Field Pump		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
				NA					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR <= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A/B	☐ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	1	1 L	PLASTIC	A	☐ Y ☑ N
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/8/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5/12/08

RMT

WATER SAMPLE LOG

PROJECT NAME: L. E. Carpenter	PREPARED		CHECKED	
PROJECT NUMBER: 6527.29	BY: EV/SM	DATE: 5/8/08	BY: dO	DATE: 5/15/08

SAMPLE ID: RB-03 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☒ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1615	DATE: 5/8/08

PURGE METHOD: ☑ PUMP BLADDER PUMP (QED) ☐ BAILER

DEPTH TO WATER: ____ ☑ PVC

DEPTH TO BOTTOM ____ ☑ PVC

WELL VOLUME: ____ ☑ LITERS ☐ GALLONS

VOLUME REMOVED ____ ☑ LITERS ☐ GALLONS

COLOR: ____ ODOR: ____

TURBIDITY: ____

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☑ OTHER

NA

PH: ____ SU CONDUCTIVITY: ____ umhos/cm

ORP: ____ mv DO: ____ mg/L

TURBIDITY: ____ NTU

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

TEMPERATURE: ____ °C OTHER: ____

COLOR: ____ ODOR: ____

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: ____ FILTRATE ODOR: ____

QC SAMPLE: ☐ MS/MSD ☐ DUP- ____

COMMENTS: GR Pump

NA

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 0.1 OR </= 10 TEMP.: +/- 0.5°C

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
2	40 mL	VOA	E	☐ Y ☑ N	2	1 L	AMBER	A	☐ Y ☑ N
2	40 mL	VOA	A	☐ Y ☑ N	2	500mL	PLASTIC	A	☐ Y ☑ N
1	100 mL	PLASTIC		☐ Y ☑ N	~~1~~	~~1 L~~	~~PLASTIC~~	~~A~~	~~☐ Y ☑ N~~
1	125 mL	PLASTIC	A	☐ Y ☑ N	1	250 mL	PLASTIC	C	☐ Y ☑ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/8/08	AIRBILL NUMBER: NA
COC NUMBER: NA	SIGNATURE: [signature]	DATE SIGNED: 5/12/08

RMT, I[redacted] Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information: [redacted]

Chain of Custody
P[redacted] of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Eric Vinke
Email: eric.vincke@rmtinc.com;jen
Project Description: LE Carpenter
City/State Collected: Wharton, NJ
Phone: (616) 975-5415
FAX: (616) 975-1098
Client Project #: 6527.29
Lab Project #: RMTGRMI-652729
Collected by (print): E Vinke
Site/Facility ID#: NJ
P.O.#: 6527.29
Collected by (signature): EV/SM
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks
Email? ___No ✓Yes
FAX? ✓No ___Yes

Acctnum: RMTGRMI (lab use only)
Template/Prelogin: T44116/P241604
Cooler #: 5/7
Shipped Via: FedEX Ground

Analysis/Container/Preservative: SV8270BN-DEHP 1L-Amb-NoPres; V8260BTEX 40mlAmb-HCl

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV8270BN-DEHP 1L-Amb-NoPres	V8260BTEX 40mlAmb-HCl						Remarks/Contaminant	Sample # (lab only)
RB-01	Grab	~~GW~~ OT	NA	5/5/08	1750	4	X	X							
SW-D-1	↓	~~GW~~ OT	↓	↓	1735	4	X	X							
SW-D-1 MS/MSD	↓	~~GW~~ OT	↓	↓	1735	4	X	X							
SW-D-2	↓	~~GW~~ OT	↓	↓	1723	4	X	X							
SW-D-3	↓	~~GW~~ OT	↓	↓	1705	4	X	X							
SW-D-4	↓	~~GW~~ OT	↓	↓	1523	4	X	X							
SW-D-5	↓	~~GW~~ OT	↓	↓	1422	4	X	X							
SW-R-1	↓	~~GW~~ OT	↓	↓	1436	4	X	X							
SW-R-2	↓	~~GW~~ OT	↓	↓	1445	4	X	X							

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other Surface Water

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:
	5/5/08	1900	FedEx		

RMT, Inc. Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Chain of Custody
Page 2 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Eric Vinke
Email: eric.vincke@rmtinc.com;jen
Project Description: LE Carpenter
City/State Collected: Wharton, NJ
Phone: (616) 975-5415
FAX: (616) 975-1098
Client Project #: 6527.29
Lab Project #: RMTGRMI-652729
Collected by (print): EV/SM
Site/Facility ID#: NJ
P.O.#: 6527.29
Collected by (signature):
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks
Email? ___No ✓Yes
FAX? ✓No ___Yes

Acctnum: RMTGRMI (lab use only)
Template/Prelogin: T44116/ P241604
Cooler #: 5/4
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV8270BN-DEHP 1L-Amb-NoPres	V8260BTEX 40mlAmb-HCl						Remarks/Contaminant	Sample # (lab only)
SW-R-3	Grab	~~GW~~ OT	NA	5/5/08	1456	4	X	X							
SW-R-4	↓	~~GW~~ OT	↓	↓	~~1505~~ 1509	4	X	X						1509 (time)	
SW-R-5	↓	~~GW~~ OT	↓	↓	~~1552~~ 1603	4	X	X						1603 (time)	
SW-R-6	↓	~~GW~~ OT	↓	↓	1552	4	X	X							
DUP-01	↓	~~GW~~ OT	↓	↓	—	4	X	X							
TB-01	↓	~~GW~~ OT	↓	↓	—	~~4~~ 1	~~X~~	X							
		~~GW~~				~~4~~	~~X~~	~~X~~							

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other Surface Water

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	5/5/08	1900	FedEx		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

RMT, Inc - Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Report to: Mr. Eric ~~Vinke~~ Vincke

Email: eric.vincke@rmtinc.com;jen

Project Description: LE Carpenter

City/State Collected: Wharton / NJ

Phone: (616) 975-5415
FAX: (616) 975-1098

Client Project #: 6527.29

Lab Project #: RMTGRMI-652729

Collected by (print): Eric Vincke, Scot Middlebrook

Site/Facility ID#: NJ

P.O.#: 6527.29

Collected by (signature): E. Vincke, S. Middlebrook

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: RMTGRMI (lab use only)
Template/Prelogin: T41528/P241599
Cooler #: Soft
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Meth, Ethane, Ethene 40mlAmb-NoPres	NH3,T. Phos 250mlHDPE-H2SO4	Nitrate,Nitrite 125mlHDPE-NoPres	PBDICP 500mlHDPE-Add HNO3	SO4,TDS 500mlHDPE-NoPres	SV8270BN 1L-Amb-NoPres	TSS 1L-HDPE NoPres	V8260BTEX 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
MW-19-12	Grab	GW	NA	5/6/08	1024	11	X	X	X	X	X	X	X	X		
MW-19-4	↓	GW	↓	↓	1353	11	X	X	X	X	X	X	X	X		
GET-2S		GW			1545	11	X	X	X	X	X	X	X	X		
MW-19-6		GW			1723	11	X	X	X	X	X	X	X	X		
MW-25R		GW			1003	11	X	X	X	X	X	X	X	X		
DUP-02		GW			—	11	X	X	X	X	X	X	X	X		
ATM-01		GW			1525	11	X	X	X	X	X	X	X	X	Total Lead	
MW-34S		GW			1300	6~~11~~	X	~~X~~	~~X~~	~~X~~	~~X~~	X	~~X~~	X		
TB-02	↓	GW	↓	↓	—	1~~11~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks: Dissolved Lead to be field filtered. — Samples were field filtered.

ATM-01 Run total Lead

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
E. Vincke	5/6/08	1900	Fed Ex		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

RMT
2025 E. Beltline Ave. SE
Ste. 402
Grand Rapids, MI 29546

Alternate Billing Information

Bill & Report to Environmental Science Corp.

Report to: Mr. Eric Vinke

Email to: vincke eric.vinke@rmtinc.com

Project Description: L.E. Carpenter

City/Sate Collected: New Jersey

Phone: 616-975-5415
FAX: 616-975-1098

Client Project #: ~~6527.25~~ 6527.29

ESC Key: RMTGRMI-652725

Collected by: Eric Vincke, Scot Middlebrook

Site/Facility ID#:

P.O.#: 6527.29

Collected by (signature): E. Vincke, S. Middlebrook

Packed on Ice N Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed: 2 wks

Email? __No ✓Yes

FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode RMTGRMI (lab use only)
Template/Prelogin T41527
Shipped Via: 4-14 KC

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Heterotrophic Plate Count	To Be Subbed out to Environmental Health Labs.						Remarks/Contaminant	Sample # (lab only)
MW-25R	Grab	GW	NA	5/6/08	1603	1	X								
MW-34S	Grab	GW			1300	1	X								
ATM-01	Grab	GW			1525	1	X								
MW-19-12	Grab	GW			1024	1	X								
MW-19-4	Grab	GW			1353	1	X								
GEI-2S	Grab	GW			1545	1	X								
MW-19-6	Grab	GW			1723	1	X								
Dup-02	Grab	GW			—	1	X								
	Grab	GW													

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
E. Vincke	5/6/08	1900	FedEx		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: / Bottles Received:	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: / Time:	pH Checked: / NCF:

RMT
2025 E. Beltline Ave. SE
Ste. 402
Grand Rapids, MI 29546

Alternate Billing Information

Bill & Report to Environmental Science Corp.

Report to: Mr. Eric ~~Vinke~~ Vincke

Email to: eric.~~vinke~~ vincke@rmtinc.com

Chain of Custody
Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: L.E. Carpenter

City/State Collected: New Jersey

Phone: 616-975-5415
FAX: 616-975-1098

Client Project #: 6527.~~25~~29

ESC Key: RMTGRMI-652725

Collected by: Eric Vincke, Scot Middlebrook

Site/Facility ID#:

P.O.#: 6527.29

Collected by (signature): E. Vincke, Scot Middlebrook

Packed on Ice N Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed: 2 wks
Email? __No ✓Yes
FAX? ✓No __Yes

CoCode: RMTGRMI (lab use only)
Template/Prelogin: T41527
Shipped Via:

Analysis/Container/Preservative: Heterotrophic Plate Count — To Be Subbed out to Environmental Health Labs.

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Heterotrophic Plate Count	Remarks/Contaminant	Sample # (lab only)
MW-31s	Grab	GW	NA	5/8/08	0730	1	X		
MW-30s	Grab	GW			0951	1	X		
MW-32s	Grab	GW			1305	1	X		
MW-33s	Grab	GW			0830	1	X		
MW-35s	Grab	GW			1100	1	X		
RB-02	Grab	GW			1605	1	X		
RB-03	Grab	GW			1615	1	X		
	Grab	GW							
	Grab	GW							

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐	Condition: (lab use only)
E. Vincke	5/8/08	1800	FedEx		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: / Bottles Received:	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: / Time:	pH Checked: / NCF:

RMT, Inc - Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Report to: Mr. Eric ~~Vinke~~ Vincke

Email: eric.vincke@rmtinc.com

Project Description: LE Carpenter

City/State Collected: Wharton, NJ

Phone: (616) 975-5415
FAX: (616) 975-1098

Client Project #: 6527.29

Lab Project #: RMTGRMI-652725

Collected by (print): Eric Vincke, Scot Middlebrook

Site/Facility ID#: NJ

P.O.#: 6527.29

Collected by (signature): E Vincke

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis/Container/Preservative

Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: RMTGRMI (lab use only)
Template/Prelogin: T45685/P242868
Cooler #:
Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	VOCs 8260 BTEX 40mL Amb HCl	Meth, Ethane, Ethene 40mlAmb-NoPres	NH3,T Phos 250mlHDPE-H2SO4	Nitrate,Nitrite 125mlHDPE-NoPres	PB,DICP 500mlHDPE-NoPres	SO4,TDS 500mlHDPE-NoPres	SV8270BN 1L-Amb-NoPres	TSS 1L-HDPE NoPres	Remarks/Contaminant	Sample # (lab only)
MW-30S	Grab	GW	NA	5/8/08	0951	11	X	X	X	X	X	X	X	X		
MW-31S		GW			0730	11	X	X	X	X	X	X	X	X		
MW-32S		GW			1305	10	X	X	X	X	X	X	X			
MW-33S		GW			0830	11	X	X	X	X	X	X	X	X		
MW-34S		GW			0940	4			X	X	X	X				
MW-35S		GW			1102	11	X	X	X	X	X	X	X	X		
RB-02		GW			1605	11	X	X	X	X	X	X	X	X		
RB-03		GW			1615	11	X	X	X	X	X	X	X	X		
TB-04		GW				1	X									

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: All samples field filtered EXCEPT RB-02 + RB-03
RB-02 + RB-03 not preserved, need to be filtered at Lab.

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	5/8/08	1800	FedEx		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

RMT, Inc. Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Eric ~~Vinke~~ Vincke
Email: eric.vincke@rmtinc.com;jen
Project Description: LE Carpenter
City/State Collected: Wharton, NJ
Phone: (616) 975-5415
FAX: (616) 975-1098
Client Project #: 6527.29
Lab Project #: RMTGRMI-652729
Collected by (print): Eric Vincke, Scot Middlebrook
Site/Facility ID#: NJ
P.O.#: 6527.29
Collected by (signature): E. Vincke, S. Middlebrook
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks
Email? ___No ___Yes
FAX? ___No ___Yes

Acctnum: RMTGRMI (lab use only)
Template/Prelogin: T41528/ P241599
Cooler #: 5M
Shipped Via: FedEX Ground

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Meth, Ethane, Ethene 40mlAmb-NoPres	NH3,T. Phos 250mlHDPE-H2SO4	Nitrate,Nitrite 125mlHDPE-NoPres	PBDICP 500mlHDPE-Add HNO3	SO4,TDS 500mlHDPE-NoPres	SV8270BN 1L-Amb-NoPres	TSS 1L-HDPE-NoPres	V8260BTEX 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
MW-28T	Grab	GW	NA	5/7/08	1541	11	X	X	X	X	X	X	X	X		
MW-27S	↓	GW		↓	1800	~~11~~	~~X~~	~~X~~	~~X~~	~~X~~	X	~~X~~	X	~~X~~		
TB-03		GW				~~11~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	X		
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: Dissolved Lead to be field filtered. Samples for lead field filtered

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ___	Condition: (lab use only)
E. Vincke	5/7/08	1900	Fed Ex		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

RMT, I[illegible] - Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Report to: Mr. Eric ~~Vinke~~ Vincke

Email: eric.vincke@rmtinc.com;jen

Project Description: LE Carpenter

City/State Collected: Wharton, NJ

Phone: (616) 975-5415
FAX: (616) 975-1098

Client Project #: 6527.29

Lab Project #: RMTGRMI-652729

Collected by (print): Eric Vincke, Scot Middlebrook

Site/Facility ID#: NJ

P.O.#: 6527.29

Collected by (signature): E. Vincke, S. Middlebrook

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis/Container/Preservative

Chain of Custody
P[illegible] of ___

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12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: RMTGRMI (lab use only)
Template/Prelogin: T41528/ P241599
Cooler #: 5th
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Meth, Ethane, Ethene 40mlAmb-NoPres	NH3,T. Phos 250mlHDPE-H2SO4	Nitrate,Nitrite 125mlHDPE-NoPres	PBDICP 500mlHDPE-Add HNO3	SO4,TDS 500mlHDPE-NoPres	SV8270BN 1L-Amb-NoPres	TSS 1L-HDPE NoPres	V8260BTEX 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
MW-29S	Grab	GW	NA	5/7/08	0753	11	X	X	X	X	X	X	X	X		
MW-27S	↓	GW	↓	↓	0835	9~~11~~	X	X	X	X	~~X~~	X	~~X~~	X		
MW-19-7	↓	GW	↓	↓	1019	22~~11~~	X	X	X	X	X	X	X	X	MS/MSD	
MW-19-5	↓	GW	↓	↓	1150	11	X	X	X	X	X	X	X	X		
MW-19	↓	GW	↓	↓	1401	11	X	X	X	X	X	X	X	X		
MW-30D	↓	GW	↓	↓	1417	11	X	X	X	X	X	X	X	X		
MW-30I	↓	GW	↓	↓	1543	11	X	X	X	X	X	X	X	X		
DUP-03	↓	GW	↓	↓	—	11	X	X	X	X	X	X	X	X		
MW-28S	↓	GW	↓	↓	1639	11	X	X	X	X	X	X	X	X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: Dissolved Lead to be field filtered. – Bottle was field filtered.
MW-19-7 MS/MSD collected 22 bottles.

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
E. Vincke	5/7/08	1900	FedEx		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

RMT
2025 E. Beltline Ave. SE
Ste. 402
Grand Rapids, MI 29546

Alternate Billing Information

Bill & Report to Environmental Science Corp.

Report to: Mr. Eric ~~Vinke~~ Vincke

Email to: eric.~~vinke~~ vincke@rmtinc.com

Chain of Custody
Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122

Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: L.E. Carpenter

City/Sate Collected: New Jersey

Phone: 616-975-5415
FAX: 616-975-1098

Client Project #: 6527.~~25~~ 29

ESC Key: RMTGRMI-652725

Collected by: Eric Vincke
Scot Middlebrook

Site/Facility ID#:

P.O.#: 6527.29

Collected by (signature): E. Vincke
S. Middlebrook

Packed on Ice N Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed: 2 wks
Email? __No ✓Yes
FAX? ✓No __Yes

CoCode RMTGRMI (lab use only)
Template/Prelogin T41527
Shipped Via: 4-14 KW

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Heterotrophic Plate Count	To Be Subbed out to Environmental Health Labs.						Remarks/Contaminant	Sample # (lab only)
MW-29S	Grab	GW	NA	5/7/08	0753	1	X								
MW-27S	Grab	GW			0835	1	X								
MW-19-7	Grab	GW			1019	1	X								
MW-19-7 MS/MSD	Grab	GW			1019	1	X								
MW-19-5	Grab	GW			1150	1	X								
MW-19	Grab	GW			1401	1	X								
MW-30D	Grab	GW			1417	1	X								
MW-30T	Grab	GW			1543	1	X								
DUP-03	Grab	GW			—	1	X								

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
E. Vincke	5/7/08	1900	FedEx		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: / Bottles Received:	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: / Time:	pH Checked: / NCF:

RMT
2025 E. Beltline Ave. SE
Ste. 402
Grand Rapids, MI 29546

Alternate Billing Information

Bill & Report to Environmental Science Corp.

Report to: Mr. Eric ~~Vinke~~ Vincke

Email to: eric.~~vinke~~ vincke@rmtinc.com

Chain of Custody Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: L.E. Carpenter

City/Sate Collected: New Jersey

Phone: 616-975-5415
FAX: 616-975-1098

Client Project #: 6527.~~28~~ 29

ESC Key: RMTGRMI-652725

Collected by: Eric Vincke, Scot Middlebrook

Site/Facility ID#:

P.O.#: 6527.29

Collected by (signature): E. Vincke, S. Middlebrook

Packed on Ice N Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed: 2 wks

Email? __No ✓Yes

FAX? ✓No __Yes

CoCode RMTGRMI (lab use only)

Template/Prelogin T41527

Shipped Via: 4-14 KW

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Heterotrophic Plate Count	To Be Subbed out to Environmental Health Labs.						Remarks/Contaminant	Sample # (lab only)
MW-28I	Grab	GW	NA	5/7/08	1548	1	X							1541 (Time)	
MW-28S	Grab	GW	NA	5/7/08	1639	1	X								
	Grab	GW													
	Grab	GW													
	Grab	GW													
	Grab	GW													
	Grab	GW													
	Grab	GW													
	Grab	GW													

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____		Condition: (lab use only)	
E. Vincke	5/7/08	1900	FedEx				
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp:	Bottles Received:		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	pH Checked:	NCF:

Appendix C
2nd Quarter 2008 Laboratory Analytical Report

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Report Summary

Wednesday May 21, 2008

Report Number: L343915
Samples Received: 05/06/08
Client Project: 6527.29

Description: LE Carpenter

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Alan Harvill
T. Alan Harvill, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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15 Samples Reported: 05/13/08 16:55 Revised: 05/21/08 16:40

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-01

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : RB-01

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 17:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/08/08	1
Toluene	BDL	5.0	ug/l	8260B	05/08/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/08/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/08/08	1
Surrogate Recovery						
Toluene-d8	95.9		% Rec.	8260B	05/08/08	1
Dibromofluoromethane	96.6		% Rec.	8260B	05/08/08	1
4-Bromofluorobenzene	95.7		% Rec.	8260B	05/08/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	05/08/08	1.03
Surrogate Recovery						
Nitrobenzene-d5	49.0		% Rec.	8270C	05/08/08	1.03
2-Fluorobiphenyl	58.0		% Rec.	8270C	05/08/08	1.03
p-Terphenyl-d14	71.0		% Rec.	8270C	05/08/08	1.03

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-01 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Sample ID : SW-D-1

Collected By : EV SM
Collection Date : 05/05/08 17:35

ESC Sample # : L343915-02

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/08/08	1
Toluene	BDL	5.0	ug/l	8260B	05/08/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/08/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/08/08	1
Surrogate Recovery						
Toluene-d8	95.9		% Rec.	8260B	05/08/08	1
Dibromofluoromethane	98.8		% Rec.	8260B	05/08/08	1
4-Bromofluorobenzene	100.		% Rec.	8260B	05/08/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	05/08/08	1.03
Surrogate Recovery						
Nitrobenzene-d5	52.6		% Rec.	8270C	05/08/08	1.03
2-Fluorobiphenyl	59.5		% Rec.	8270C	05/08/08	1.03
p-Terphenyl-d14	60.9		% Rec.	8270C	05/08/08	1.03

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-02 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-04

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : SW-D-2

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 17:23

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	96.9		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	97.5		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	97.4		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/08/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	50.8		% Rec.	8270C	05/08/08	1.18
2-Fluorobiphenyl	54.8		% Rec.	8270C	05/08/08	1.18
p-Terphenyl-d14	58.3		% Rec.	8270C	05/08/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-04 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-05

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : SW-D-3

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 17:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	94.8		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	97.1		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	99.0		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/08/08	1.25
Surrogate Recovery						
Nitrobenzene-d5	60.7		% Rec.	8270C	05/08/08	1.25
2-Fluorobiphenyl	59.8		% Rec.	8270C	05/08/08	1.25
p-Terphenyl-d14	58.7		% Rec.	8270C	05/08/08	1.25

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-05 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

ENVIRONMENTAL
SCIENCE CORP.

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-06

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : SW-D-4

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 15:23

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.4		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	98.3		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	95.6		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.1	ug/l	8270C	05/07/08	1.08
Surrogate Recovery						
Nitrobenzene-d5	59.2		% Rec.	8270C	05/07/08	1.08
2-Fluorobiphenyl	67.9		% Rec.	8270C	05/07/08	1.08
p-Terphenyl-d14	74.3		% Rec.	8270C	05/07/08	1.08

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-06 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-07

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : SW-D-5

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 14:22

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/12/08	1
Toluene	BDL	5.0	ug/l	8260B	05/12/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/12/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	97.4		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	102.		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	86.9		% Rec.	8260B	05/12/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/07/08	1.25
Surrogate Recovery						
Nitrobenzene-d5	56.3		% Rec.	8270C	05/07/08	1.25
2-Fluorobiphenyl	69.4		% Rec.	8270C	05/07/08	1.25
p-Terphenyl-d14	68.4		% Rec.	8270C	05/07/08	1.25

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-07 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-08

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : SW-R-1

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 14:36

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	1.2	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	5.9	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	94.8		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	97.7		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	94.4		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/07/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	61.5		% Rec.	8270C	05/07/08	1.18
2-Fluorobiphenyl	71.7		% Rec.	8270C	05/07/08	1.18
p-Terphenyl-d14	74.7		% Rec.	8270C	05/07/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-08 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-09

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : SW-R-2

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 14:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.1		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	96.6		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	95.9		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.1	ug/l	8270C	05/07/08	1.14
Surrogate Recovery						
Nitrobenzene-d5	59.7		% Rec.	8270C	05/07/08	1.14
2-Fluorobiphenyl	73.4		% Rec.	8270C	05/07/08	1.14
p-Terphenyl-d14	69.5		% Rec.	8270C	05/07/08	1.14

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-09 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-10

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : SW-R-3

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 14:56

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.7		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	95.8		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	95.4		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	05/07/08	1.05
Surrogate Recovery						
Nitrobenzene-d5	60.3		% Rec.	8270C	05/07/08	1.05
2-Fluorobiphenyl	72.9		% Rec.	8270C	05/07/08	1.05
p-Terphenyl-d14	78.9		% Rec.	8270C	05/07/08	1.05

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-10 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-11

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : SW-R-4

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 15:09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.3		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	98.5		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	96.9		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	05/08/08	1
Surrogate Recovery						
Nitrobenzene-d5	63.7		% Rec.	8270C	05/08/08	1
2-Fluorobiphenyl	71.5		% Rec.	8270C	05/08/08	1
p-Terphenyl-d14	84.0		% Rec.	8270C	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-11 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Sample ID : SW-R-5

Collected By : EV SM
Collection Date : 05/05/08 16:03

ESC Sample # : L343915-12

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.2		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	97.9		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	93.7		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/08/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	60.4		% Rec.	8270C	05/08/08	1.18
2-Fluorobiphenyl	73.8		% Rec.	8270C	05/08/08	1.18
p-Terphenyl-d14	73.4		% Rec.	8270C	05/08/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-12 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-13

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : SW-R-6

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 15:52

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.5		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	99.3		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	92.1		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.1	ug/l	8270C	05/08/08	1.11
Surrogate Recovery						
Nitrobenzene-d5	51.5		% Rec.	8270C	05/08/08	1.11
2-Fluorobiphenyl	64.2		% Rec.	8270C	05/08/08	1.11
p-Terphenyl-d14	66.0		% Rec.	8270C	05/08/08	1.11

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-13 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21, 2008

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Sample ID : DUP-01

Collected By : EV SM
Collection Date : 05/05/08 00:00

ESC Sample # : L343915-14

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	96.3		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	98.2		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	95.8		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/07/08	1.25
Surrogate Recovery						
Nitrobenzene-d5	62.2		% Rec.	8270C	05/07/08	1.25
2-Fluorobiphenyl	77.2		% Rec.	8270C	05/07/08	1.25
p-Terphenyl-d14	75.7		% Rec.	8270C	05/07/08	1.25

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-14 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

ESC Sample # : L343915-15

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Site ID : NJ

Sample ID : TB-01

Project # : 6527.29

Collected By : EV SM
Collection Date : 05/05/08 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	05/09/08	1
Toluene	BDL	0.0050	mg/l	8260B	05/09/08	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	05/09/08	1
Total Xylenes	BDL	0.0030	mg/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.7		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	95.4		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	97.2		% Rec.	8260B	05/09/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 21,2008

Date Received : May 06, 2008
Description : LE Carpenter - Surface Water

Sample ID : DRC-2

Collected By : EV SM
Collection Date : 05/05/08 00:00

ESC Sample # : L343915-16

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.0		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	97.7		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	91.8		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/08/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	49.3		% Rec.	8270C	05/08/08	1.18
2-Fluorobiphenyl	55.4		% Rec.	8270C	05/08/08	1.18
p-Terphenyl-d14	59.5		% Rec.	8270C	05/08/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/13/08 16:55 Revised: 05/21/08 16:40
L343915-16 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L343915-01	Bis(2-ethylhexyl)phthalate	U
L343915-02	Bis(2-ethylhexyl)phthalate	UJ6
L343915-04	Bis(2-ethylhexyl)phthalate	U
L343915-05	Bis(2-ethylhexyl)phthalate	U
L343915-06	Bis(2-ethylhexyl)phthalate	U
L343915-07	Bis(2-ethylhexyl)phthalate	UJ3
L343915-08	Bis(2-ethylhexyl)phthalate	UJ3
L343915-09	Bis(2-ethylhexyl)phthalate	UJ3
L343915-10	Bis(2-ethylhexyl)phthalate	UJ3
L343915-11	Bis(2-ethylhexyl)phthalate	U
L343915-12	Bis(2-ethylhexyl)phthalate	U
L343915-13	Bis(2-ethylhexyl)phthalate	U
L343915-14	Bis(2-ethylhexyl)phthalate	UJ3
L343915-16	Bis(2-ethylhexyl)phthalate	U

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
U	BDL (EPA) - Below Detectable Limits: Indicates that the compound was analyzed but not detected.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/21/08 at 16:40:52

TSR Signing Reports: 044
R5 - Desired TAT

One L# and one Invoice per Project. ln 8/22/07 5035 Only! No E's

Sample: L343915-01 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55
UNINV 420254 ln 5/19/08;REINV 420254. ln 5/20/08
Sample: L343915-02 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55
MS/MSD
Sample: L343915-04 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-05 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-06 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-07 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-08 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-09 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-10 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-11 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-12 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-13 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-14 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-15 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55

Sample: L343915-16 Account: RMTGRMI Received: 05/06/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/13/08 16:55
Added per NCF. MS 5/7

RMT, Inc - Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Chain of Custody
Page 1 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Eric Vinke
Email: eric.vincke@rmtinc.com;jen
Project Description: LE Carpenter
City/State Collected: Wharton, NJ
Phone: (616) 975-5415
FAX: (616) 975-1098
Client Project #: 6527.29
Lab Project #: RMTGRMI-652729
Collected by (print): [illegible]
Site/Facility ID#: NJ
P.O.#: 6527.29
Collected by (signature): EV/SM
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks
Email? ___No ✓Yes
FAX? ✓No ___Yes

Account: RMTGRMI (lab use only)
Template/Prelogin: 149116 / 241604
Shipped Via: FedEX Ground

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV8270BN DEHP 10 Amb-Nonc	V8260BTEX 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
BB-01	Grab	~~GW~~ OT	NA	5/5/05	1750	4	X	X		[illegible]
SW-D-1	↓	~~GW~~ OT	↓	↓	1735	4	X	X		[illegible]
SW-D-1 MS/MSD	↓	~~GW~~ OT	↓	↓	1735	4	X	X		[illegible]
SW-D-2	↓	~~GW~~ OT	↓	↓	1723	4	X	X		[illegible]
SW-D-3	↓	~~GW~~ OT	↓	↓	1705	4	X	X		[illegible]
SW-D-4	↓	~~GW~~ OT	↓	↓	1523	4	X	X		[illegible]
SW-D-5	↓	~~GW~~ OT	↓	↓	1422	4	X	X		[illegible]
SW-R-1	↓	~~GW~~ OT	↓	↓	1436	4	X	X		[illegible]
SW-R-2	↓	~~GW~~ OT	↓	↓	1445	4	X	X		[illegible]

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other Surface Water

Remarks:

pH _____ Temp _____
Flow _____ Other _____

9669 7433 1355
9669 7433 1333
9669 7433 1366
9669 7433 1344

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
[illegible]	5/5/05	1900	Fedex
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐

Temp: 4.2 Bottles Received: 20

Condition: (lab use only)
Good Seal Intact: Yes ___ No ___
pH Checked: ___ NCF: ___

RMT, Inc - Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Chain of Custody
Page 2 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Eric Vinke
Email: eric.vincke@rmtinc.com;jen
Project Description: LE Carpenter
City/State Collected: Wharton, NJ
Phone: (616) 975-5415
FAX: (616) 975-1098
Client Project #: 6527.29
Lab Project #: RMTGRMI-652729
Collected by (print): EV/SM
Site/Facility ID#: NJ
P.O.#: 6527.29
Collected by (signature): [signature]
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks
Email? ___No ✓Yes
FAX? ✓No ___Yes

Account: RMTGRMI (lab use only)
Template/Prelogin: 1141162 P241604
Shipped Via: FedEx Ground

Analysis/Container/Preservative: SV8270TIC+15 Amb-NoPres; V8260BTEX 40mlAmb-HCl

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV8270TIC+15 Amb-NoPres	V8260BTEX 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
SW-R-3	Grab	~~GW~~ OT	N/A	5/5/08	1456	4	X	X		[illegible]
~~SW~~-R-4		~~GW~~ OT			~~1503~~	4	X	X	1509 (time)	[illegible]
SW-R-5		~~GW~~ OT			~~1552~~	4	X	X	1603 (time)	[illegible]
SW-R-6		~~GW~~ OT			1552	4	X	X		[illegible]
DUP-01		~~GW~~ OT			—	4	X	X		[illegible]
TB-01		~~GW~~ OT			—	~~4~~ 1	X	X		[illegible]
		~~GW~~				~~4~~	X	X		
DLC-2										[illegible]
										[illegible]

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other Surface Water

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
[signature]	5/5/08	1900	FedEx
Relinquished by: [illegible]	Date:	Time:	Received by: [illegible]
Relinquished by: [illegible]	Date:	Time:	Received for lab by: [illegible]

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ___
Temp: [illegible] Condition: [illegible] (lab use only)
Date: [illegible] Time: 0900 pH Checked: [illegible] NCF: [illegible]

Leslie

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No. : L343915

Date: 5.6.08

Evaluated by: Jason D.

Client: RMTGRMT

Non-Conformance (check applicable items)

- ____ Chain of Custody is missing
- ____ Improper container type
- ____ Chain of custody is incomplete
- ____ Parameter(s) past holding time
- ____ Broken container(s) **see below**
- X Login Clarification Needed
- ____ Improper preservation
- ____ Container lid not in tact
- ____ Improper temperature
- ____ Broken container: sufficient sample volume remains for analysis requested
- ____ Insufficient packing material around container
- ____ Insufficient packing material inside cooler
- ____ Improper handling by carrier (FedEx / UPS / Courier)
- ____ Sample was frozen

Comments: Received samples for DRC-2 (2 Liters/2 vials) not on CoC

Login Instructions:

TSR Initials: TAH

Client informed by call / email / fax / voice mail date: 5/6/08 time: 12:15 pm

Client contact: Eric Vincke no answer left voicemail sent email as well 5/6/08

should be on the CofC please run (DEHP; BTEX) per email from Eric Vincke. Please scan email with CofC

Alan Harvill

From: Eric Vincke [Eric.Vincke@rmtinc.com]
Sent: Tuesday, May 06, 2008 9:02 PM
To: Alan Harvill
Subject: Re: FW: LE Carpenter Project samples collected 5/5/08

DRC-2 should be on the COC. Please run like the rest (DEHP & BTEX). Thanks.

>>> "Alan Harvill" <AHarvill@envsci.com> 05/06/08 1:20 PM >>>
> Received a sample marked DRC-2, however this sample is not represented
> on your chain of custody. Please advise on what to do with this
> sample.
>
>
> Thank You,
>
> Alan Harvill
> Environmental Science Corp.
> Technical Service Rep.
> Phone: 615-758-5858 ext: 129
> Email: aharvill@envsci.com
>

Outgoing messages, along with any attachments, are scanned for viruses prior to sending.

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Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Report Summary

Friday May 23, 2008

Report Number: L344068
Samples Received: 05/07/08
Client Project: 6527.29

Description: LE Carpenter

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Terrie Fudge, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 23,2008

Date Received : May 07, 2008
Description : LE Carpenter - Wells

Sample ID : MW-19-12

Collected By : Vinke-Middlebrook
Collection Date : 05/06/08 10:24

ESC Sample # : L344068-01

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	1000	100	ug/l	9056	05/07/08	1
Nitrite	BDL	100	ug/l	9056	05/07/08	1
Sulfate	10000	5000	ug/l	9056	05/07/08	1
Methane	BDL	10.	ug/l	3810/RSK17	05/08/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/09/08	1
Dissolved Solids	220000	10000	ug/l	2540C	05/10/08	1
Suspended Solids	1100	1000	ug/l	2540D	05/09/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/08/08	1
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.1		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	97.4		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	94.7		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.1	ug/l	8270C	05/08/08	1.11
Surrogate Recovery						
Nitrobenzene-d5	53.3		% Rec.	8270C	05/08/08	1.11
2-Fluorobiphenyl	62.4		% Rec.	8270C	05/08/08	1.11
p-Terphenyl-d14	71.3		% Rec.	8270C	05/08/08	1.11

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/22/08 17:38 Revised: 05/23/08 12:09
L344068-01 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 23,2008

Date Received : May 07, 2008
Description : LE Carpenter - Wells

Sample ID : MW-19-4

Collected By : Vinke-Middlebrook
Collection Date : 05/06/08 13:53

ESC Sample # : L344068-02

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	1100	100	ug/l	9056	05/07/08	1
Nitrite	BDL	100	ug/l	9056	05/07/08	1
Sulfate	32000	5000	ug/l	9056	05/07/08	1
Methane	BDL	10.	ug/l	3810/RSK17	05/08/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/09/08	1
Dissolved Solids	860000	10000	ug/l	2540C	05/12/08	1
Suspended Solids	2100	1000	ug/l	2540D	05/09/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/08/08	1
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	96.0		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	97.9		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	93.5		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	1.1	1.1	ug/l	8270C	05/08/08	1.11
Surrogate Recovery						
Nitrobenzene-d5	46.8		% Rec.	8270C	05/08/08	1.11
2-Fluorobiphenyl	58.0		% Rec.	8270C	05/08/08	1.11
p-Terphenyl-d14	63.7		% Rec.	8270C	05/08/08	1.11

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/22/08 17:38 Revised: 05/23/08 12:09
L344068-02 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 23,2008

Date Received : May 07, 2008
Description : LE Carpenter - Wells

Sample ID : GEI-2S

Collected By : Vinke-Middlebrook
Collection Date : 05/06/08 15:45

ESC Sample # : L344068-03

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	1900	100	ug/l	9056	05/07/08	1
Nitrite	BDL	100	ug/l	9056	05/07/08	1
Sulfate	34000	5000	ug/l	9056	05/07/08	1
Methane	BDL	10.	ug/l	3810/RSK17	05/08/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/09/08	1
Dissolved Solids	650000	10000	ug/l	2540C	05/12/08	1
Suspended Solids	6700	1000	ug/l	2540D	05/09/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/08/08	1
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	95.4		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	97.4		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	91.3		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/08/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	57.7		% Rec.	8270C	05/08/08	1.18
2-Fluorobiphenyl	64.8		% Rec.	8270C	05/08/08	1.18
p-Terphenyl-d14	64.2		% Rec.	8270C	05/08/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 17:38 Revised: 05/23/08 12:10
L344068-03 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 23,2008

Date Received : May 07, 2008
Description : LE Carpenter - Wells

Sample ID : MW-19-6

Collected By : Vinke-Middlebrook
Collection Date : 05/06/08 17:23

ESC Sample # : L344068-04

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	1900	100	ug/l	9056	05/07/08	1
Nitrite	BDL	100	ug/l	9056	05/07/08	1
Sulfate	32000	5000	ug/l	9056	05/07/08	1
Methane	27.	10.	ug/l	3810/RSK17	05/08/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/09/08	1
Dissolved Solids	1200000	10000	ug/l	2540C	05/12/08	1
Suspended Solids	2900	1000	ug/l	2540D	05/09/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/08/08	1
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	96.8		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	99.3		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	93.2		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/09/08	1.25
Surrogate Recovery						
Nitrobenzene-d5	55.7		% Rec.	8270C	05/09/08	1.25
2-Fluorobiphenyl	62.2		% Rec.	8270C	05/09/08	1.25
p-Terphenyl-d14	78.8		% Rec.	8270C	05/09/08	1.25

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 17:38 Revised: 05/23/08 12:10
L344068-04 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 23,2008

Date Received : May 07, 2008
Description : LE Carpenter - Wells

ESC Sample # : L344068-05

Sample ID : MW-25R

Site ID : NJ

Collected By : Vinke-Middlebrook
Collection Date : 05/06/08 10:03

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/07/08	1
Nitrite	BDL	100	ug/l	9056	05/07/08	1
Sulfate	BDL	5000	ug/l	9056	05/07/08	1
Methane	130	10.	ug/l	3810/RSK17	05/08/08	1
Ammonia Nitrogen	150	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	230	100	ug/l	365.1	05/09/08	1
Dissolved Solids	330000	10000	ug/l	2540C	05/10/08	1
Suspended Solids	200000	1000	ug/l	2540D	05/09/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/08/08	1
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	96.4		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	97.5		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	93.4		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.3	ug/l	8270C	05/09/08	1.29
Surrogate Recovery						
Nitrobenzene-d5	65.0		% Rec.	8270C	05/09/08	1.29
2-Fluorobiphenyl	70.1		% Rec.	8270C	05/09/08	1.29
p-Terphenyl-d14	74.7		% Rec.	8270C	05/09/08	1.29

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 17:38 Revised: 05/23/08 12:10
L344068-05 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 23,2008

Date Received : May 07, 2008
Description : LE Carpenter - Wells

Sample ID : DUP-2

Collected By : Vinke-Middlebrook
Collection Date : 05/06/08 00:00

ESC Sample # : L344068-06

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	1100	100	ug/l	9056	05/07/08	1
Nitrite	BDL	100	ug/l	9056	05/07/08	1
Sulfate	32000	5000	ug/l	9056	05/07/08	1
Methane	BDL	10.	ug/l	3810/RSK17	05/08/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/09/08	1
Dissolved Solids	870000	10000	ug/l	2540C	05/09/08	1
Suspended Solids	2100	1000	ug/l	2540D	05/08/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/08/08	1
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	97.7		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	99.0		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	95.1		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.1	ug/l	8270C	05/09/08	1.11
Surrogate Recovery						
Nitrobenzene-d5	64.4		% Rec.	8270C	05/09/08	1.11
2-Fluorobiphenyl	67.9		% Rec.	8270C	05/09/08	1.11
p-Terphenyl-d14	77.9		% Rec.	8270C	05/09/08	1.11

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/22/08 17:38 Revised: 05/23/08 12:10
L344068-06 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 23,2008

Date Received : May 07, 2008
Description : LE Carpenter - Wells

Sample ID : ATM-01

Collected By : Vinke-Middlebrook
Collection Date : 05/06/08 15:25

ESC Sample # : L344068-07

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/07/08	1
Nitrite	BDL	100	ug/l	9056	05/07/08	1
Sulfate	BDL	5000	ug/l	9056	05/07/08	1
Methane	BDL	10.	ug/l	3810/RSK17	05/08/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/09/08	1
Dissolved Solids	BDL	10000	ug/l	2540C	05/12/08	1
Suspended Solids	BDL	1000	ug/l	2540D	05/09/08	1
Lead	5.1	5.0	ug/l	6010B	05/09/08	1
Benzene	BDL	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/09/08	1
Surrogate Recovery						
Toluene-d8	96.1		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	96.6		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	93.1		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.1	ug/l	8270C	05/08/08	1.08
Surrogate Recovery						
Nitrobenzene-d5	46.3		% Rec.	8270C	05/08/08	1.08
2-Fluorobiphenyl	47.3		% Rec.	8270C	05/08/08	1.08
p-Terphenyl-d14	57.7		% Rec.	8270C	05/08/08	1.08

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 17:38 Revised: 05/23/08 12:10
L344068-07 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 23, 2008

Date Received : May 07, 2008
Description : LE Carpenter - Wells

Sample ID : MW-34S

Collected By : Vinke-Middlebrook
Collection Date : 05/06/08 13:00

ESC Sample # : L344068-08

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methane	3700	100	ug/l	3810/RSK17	05/08/08	10
Benzene	1.3	1.0	ug/l	8260B	05/09/08	1
Toluene	BDL	5.0	ug/l	8260B	05/09/08	1
Ethylbenzene	230	5.0	ug/l	8260B	05/14/08	5
Total Xylenes	1200	15.	ug/l	8260B	05/14/08	5
Surrogate Recovery						
Toluene-d8	97.2		% Rec.	8260B	05/09/08	1
Dibromofluoromethane	99.1		% Rec.	8260B	05/09/08	1
4-Bromofluorobenzene	102.		% Rec.	8260B	05/09/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	3.0	1.3	ug/l	8270C	05/08/08	1.33
Surrogate Recovery						
Nitrobenzene-d5	70.0		% Rec.	8270C	05/08/08	1.33
2-Fluorobiphenyl	69.9		% Rec.	8270C	05/08/08	1.33
p-Terphenyl-d14	80.2		% Rec.	8270C	05/08/08	1.33

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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L344068-08 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 23, 2008

Date Received : May 07, 2008
Description : LE Carpenter - Wells

Sample ID : TB-02

Collected By : Vinke-Middlebrook
Collection Date : 05/06/08 00:00

ESC Sample # : L344068-09

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	05/10/08	1
Toluene	BDL	0.0050	mg/l	8260B	05/10/08	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	05/10/08	1
Total Xylenes	BDL	0.0030	mg/l	8260B	05/10/08	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	05/10/08	1
Dibromofluoromethane	98.1		% Rec.	8260B	05/10/08	1
4-Bromofluorobenzene	85.8		% Rec.	8260B	05/10/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 17:38 Revised: 05/23/08 12:10

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L344068-02	Bis(2-ethylhexyl)phthalate	J
L344068-03	Bis(2-ethylhexyl)phthalate	U
L344068-04	Bis(2-ethylhexyl)phthalate	U
L344068-05	Bis(2-ethylhexyl)phthalate	U
L344068-06	Bis(2-ethylhexyl)phthalate	U
L344068-07	Bis(2-ethylhexyl)phthalate	U
L344068-08	Bis(2-ethylhexyl)phthalate	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
U	BDL (EPA) - Below Detectable Limits: Indicates that the compound was analyzed but not detected.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/23/08 at 12:10:04

TSR Signing Reports: 044
R5 - Desired TAT

One L# and one Invoice per Project. ln 8/22/07 5035 Only! No E's

Sample: L344068-01 Account: RMTGRMI Received: 05/07/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/22/08 17:38
NJ Red.HAZSITE EDD. Diss. Metals have been field filtered. jg-5/7;UNINV 420374 ln 5/19/08;
REINV 420374 ln 5/20/08
Sample: L344068-02 Account: RMTGRMI Received: 05/07/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/22/08 17:38
NJ Red.HAZSITE EDD. Diss. Metals have been field filtered. jg-5/7
Sample: L344068-03 Account: RMTGRMI Received: 05/07/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/22/08 17:38
NJ Red.HAZSITE EDD. Diss. Metals have been field filtered. jg-5/7
Sample: L344068-04 Account: RMTGRMI Received: 05/07/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/22/08 17:38
NJ Red.HAZSITE EDD. Diss. Metals have been field filtered. jg-5/7
Sample: L344068-05 Account: RMTGRMI Received: 05/07/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/22/08 17:38
NJ Red.HAZSITE EDD. Diss. Metals have been field filtered. jg-5/7
Sample: L344068-06 Account: RMTGRMI Received: 05/07/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/22/08 17:38
NJ Red.HAZSITE EDD. Diss. Metals have been field filtered. jg-5/7
Sample: L344068-07 Account: RMTGRMI Received: 05/07/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/22/08 17:38
NJ Red.HAZSITE EDD
Sample: L344068-08 Account: RMTGRMI Received: 05/07/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/22/08 17:38
NJ Red.HAZSITE EDD
Sample: L344068-09 Account: RMTGRMI Received: 05/07/08 09:00 Due Date: 05/20/08 00:00 RPT Date: 05/22/08 17:38
NJ Red.HAZSITE EDD

RMT, Inc - Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Report to: Mr. Eric ~~Vinke~~ Vincke

Email: eric.vincke@rmtinc.com;jen

Project Description: LE Carpenter

City/State Collected: Wharton / NJ

Phone: (616) 975-5415
FAX: (616) 975-1098

Client Project #: 6527.29

Lab Project #: RMTGRMI-652729

Collected by (print): Eric Vincke
Scott Middlebrook

Site/Facility ID#: NJ

P.O.#: 6527.29

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: RMTGRMI (lab use only)
Template: T241628 P241819
Prelogin: [illegible]
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Metals, Ethanol, Ethane, Methane 250mlAmb-NoPres	NH3,T. Phos 250mlHDPE-H2SO4	Nitrate-Nitrite 125mlHDPE-NoPres	PBDICP 500mlHDPE-Add HNO3	SO4,TDS 500mlHDPE-NoPres	SV8270BN 1L-Amb-NoPres	TSS 1L-HDPE-NoPres	V8260BTEX 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
MW-19-12	Grab	GW	NA	5/6/08	[illegible]4	11	X	X	X	X	X	X	X	X		[illegible]
MW-19-4	↓	GW	↓	↓	1353	11	X	X	X	X	X	X	X	X		[illegible]
GET-2S		GW			1545	11	X	X	X	X	X	X	X	X		[illegible]
MW-19-6		GW			1723	11	X	X	X	X	X	X	X	X		[illegible]
MW-25R		GW			1003	11	X	X	X	X	X	X	X	X		[illegible]
DUP-02		GW			—	11	X	X	X	X	X	X	X	X		[illegible]
ATM-01		GW			1525	11	X	X	X	X	X	X	X	X	Total Lead	[illegible]
MW-34S		GW			1300	6	X	X	X	X	X	X	X	X		[illegible]
TB-02	✓	GW	✓	✓	—	3	X	X	X	X	X	X	X	X		[illegible]

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

Remarks: Dissolved Lead to be field filtered. — Samples were field filtered 9669 7433 1241

pH ___ Temp ___
Flow ___ Other ___

ATM-01 Run total Lead 9669 7433 1263 9669 7433 1252 9669 7433 1230

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
[signature]	5/6/08	1900	Fed Ex
Relinquished by: [illegible]	Date:	Time:	Received by: [illegible]
Relinquished by: [illegible]	Date:	Time:	Received for lab by: [illegible]

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ___

Temp: 2.6 C 3.6 Received: [illegible]
Date: 5/6/08 Time: [illegible]

Condition: (lab use only)
Seals Intact? ✓ Yes ___ No ___ NA
pH Checked? ___ NCF: ___

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Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Report Summary

Thursday May 22, 2008

Report Number: L344361
Samples Received: 05/08/08
Client Project: 6527.29

Description: LE Carpenter

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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12 Samples Reported: 05/22/08 16:42 Printed: 05/22/08 16:52

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-29S

Collected By : EV-SM
Collection Date : 05/07/08 07:53

ESC Sample # : L344361-01

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/08/08	1
Nitrite	BDL	100	ug/l	9056	05/08/08	1
Sulfate	BDL	5000	ug/l	9056	05/08/08	1
Methane	2100	100	ug/l	3810/RSK17	05/13/08	10
Ammonia Nitrogen	8200	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	300	100	ug/l	365.1	05/12/08	1
Dissolved Solids	490000	10000	ug/l	2540C	05/10/08	1
Suspended Solids	40000	1000	ug/l	2540D	05/13/08	1
Lead,Dissolved	BDL	25.	ug/l	6010B	05/13/08	5
Benzene	BDL	1.0	ug/l	8260B	05/12/08	1
Toluene	BDL	5.0	ug/l	8260B	05/12/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/12/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	97.2		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	103.		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	89.1		% Rec.	8260B	05/12/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/12/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	70.7		% Rec.	8270C	05/12/08	1.18
2-Fluorobiphenyl	74.6		% Rec.	8270C	05/12/08	1.18
p-Terphenyl-d14	84.1		% Rec.	8270C	05/12/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-01 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-27S

Collected By : EV-SM
Collection Date : 05/07/08 08:35

ESC Sample # : L344361-02

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	190	100	ug/l	9056	05/08/08	1
Nitrite	BDL	100	ug/l	9056	05/08/08	1
Methane	BDL	10.	ug/l	3810/RSK17	05/13/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	910	100	ug/l	365.1	05/12/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	BDL	1.0	ug/l	8260B	05/12/08	1
Toluene	BDL	5.0	ug/l	8260B	05/12/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/12/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	98.4		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	100.		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	86.9		% Rec.	8260B	05/12/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/12/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	60.1		% Rec.	8270C	05/12/08	1.18
2-Fluorobiphenyl	66.1		% Rec.	8270C	05/12/08	1.18
p-Terphenyl-d14	80.9		% Rec.	8270C	05/12/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-02 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-19-7

Collected By : EV-SM
Collection Date : 05/07/08 10:19

ESC Sample # : L344361-03

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	240	100	ug/l	9056	05/08/08	1
Nitrite	BDL	100	ug/l	9056	05/08/08	1
Sulfate	17000	5000	ug/l	9056	05/08/08	1
Methane	430	10.	ug/l	3810/RSK17	05/13/08	1
Ammonia Nitrogen	120	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/12/08	1
Dissolved Solids	1100000	10000	ug/l	2540C	05/14/08	1
Suspended Solids	6800	1000	ug/l	2540D	05/13/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	BDL	1.0	ug/l	8260B	05/12/08	1
Toluene	BDL	5.0	ug/l	8260B	05/12/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/12/08	1
Total Xylenes	5.6	3.0	ug/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	98.5		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	102.		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	85.0		% Rec.	8260B	05/12/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	05/12/08	1.05
Surrogate Recovery						
Nitrobenzene-d5	64.4		% Rec.	8270C	05/12/08	1.05
2-Fluorobiphenyl	69.0		% Rec.	8270C	05/12/08	1.05
p-Terphenyl-d14	72.9		% Rec.	8270C	05/12/08	1.05

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-03 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-19-5

Collected By : EV-SM
Collection Date : 05/07/08 11:50

ESC Sample # : L344361-04

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	150	100	ug/l	9056	05/08/08	1
Nitrite	BDL	100	ug/l	9056	05/08/08	1
Sulfate	13000	5000	ug/l	9056	05/08/08	1
Methane	340	10.	ug/l	3810/RSK17	05/13/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/12/08	1
Dissolved Solids	370000	10000	ug/l	2540C	05/14/08	1
Suspended Solids	3300	1000	ug/l	2540D	05/12/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	7.2	5.0	ug/l	8260B	05/12/08	5
Toluene	15000	500	ug/l	8260B	05/14/08	100
Ethylbenzene	270	5.0	ug/l	8260B	05/12/08	5
Total Xylenes	1300	15.	ug/l	8260B	05/12/08	5
Surrogate Recovery						
Toluene-d8	95.4		% Rec.	8260B	05/12/08	5
Dibromofluoromethane	97.4		% Rec.	8260B	05/12/08	5
4-Bromofluorobenzene	92.1		% Rec.	8260B	05/12/08	5
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	05/12/08	1.05
Surrogate Recovery						
Nitrobenzene-d5	63.7		% Rec.	8270C	05/12/08	1.05
2-Fluorobiphenyl	66.5		% Rec.	8270C	05/12/08	1.05
p-Terphenyl-d14	80.2		% Rec.	8270C	05/12/08	1.05

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-04 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-19

Collected By : EV-SM
Collection Date : 05/07/08 14:01

ESC Sample # : L344361-05

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/08/08	1
Nitrite	BDL	100	ug/l	9056	05/08/08	1
Sulfate	BDL	5000	ug/l	9056	05/08/08	1
Methane	650	10.	ug/l	3810/RSK17	05/13/08	1
Ammonia Nitrogen	520	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/12/08	1
Dissolved Solids	1200000	10000	ug/l	2540C	05/15/08	1
Suspended Solids	26000	1000	ug/l	2540D	05/12/08	1
Lead,Dissolved	BDL	25.	ug/l	6010B	05/10/08	5
Benzene	BDL	100	ug/l	8260B	05/12/08	100
Toluene	26000	1000	ug/l	8260B	05/14/08	200
Ethylbenzene	650	100	ug/l	8260B	05/12/08	100
Total Xylenes	2800	300	ug/l	8260B	05/12/08	100
Surrogate Recovery						
Toluene-d8	97.9		% Rec.	8260B	05/12/08	100
Dibromofluoromethane	96.1		% Rec.	8260B	05/12/08	100
4-Bromofluorobenzene	86.4		% Rec.	8260B	05/12/08	100
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	05/12/08	1.05
Surrogate Recovery						
Nitrobenzene-d5	66.4		% Rec.	8270C	05/12/08	1.05
2-Fluorobiphenyl	73.3		% Rec.	8270C	05/12/08	1.05
p-Terphenyl-d14	78.8		% Rec.	8270C	05/12/08	1.05

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-05 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-30D

Collected By : EV-SM
Collection Date : 05/07/08 14:17

ESC Sample # : L344361-06

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/08/08	1
Nitrite	BDL	100	ug/l	9056	05/08/08	1
Sulfate	5300	5000	ug/l	9056	05/08/08	1
Methane	140	10.	ug/l	3810/RSK17	05/13/08	1
Ammonia Nitrogen	270	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/12/08	1
Dissolved Solids	370000	10000	ug/l	2540C	05/15/08	1
Suspended Solids	12000	1000	ug/l	2540D	05/12/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	BDL	1.0	ug/l	8260B	05/12/08	1
Toluene	BDL	5.0	ug/l	8260B	05/12/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/12/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	95.6		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	99.0		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	88.3		% Rec.	8260B	05/12/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	05/12/08	1.05
Surrogate Recovery						
Nitrobenzene-d5	69.0		% Rec.	8270C	05/12/08	1.05
2-Fluorobiphenyl	70.5		% Rec.	8270C	05/12/08	1.05
p-Terphenyl-d14	84.4		% Rec.	8270C	05/12/08	1.05

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-06 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-30I

Collected By : EV-SM
Collection Date : 05/07/08 15:43

ESC Sample # : L344361-07

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/08/08	1
Nitrite	BDL	100	ug/l	9056	05/08/08	1
Sulfate	BDL	5000	ug/l	9056	05/08/08	1
Methane	510	10.	ug/l	3810/RSK17	05/13/08	1
Ammonia Nitrogen	1000	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/12/08	1
Dissolved Solids	540000	10000	ug/l	2540C	05/15/08	1
Suspended Solids	27000	1000	ug/l	2540D	05/12/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	BDL	1.0	ug/l	8260B	05/12/08	1
Toluene	BDL	5.0	ug/l	8260B	05/12/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/12/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	99.6		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	97.8		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	87.1		% Rec.	8260B	05/12/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	05/12/08	1.05
Surrogate Recovery						
Nitrobenzene-d5	59.7		% Rec.	8270C	05/12/08	1.05
2-Fluorobiphenyl	70.7		% Rec.	8270C	05/12/08	1.05
p-Terphenyl-d14	79.1		% Rec.	8270C	05/12/08	1.05

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-07 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : DUP-03

Collected By : EV-SM
Collection Date : 05/07/08 00:00

ESC Sample # : L344361-08

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/08/08	1
Nitrite	BDL	100	ug/l	9056	05/08/08	1
Sulfate	BDL	5000	ug/l	9056	05/08/08	1
Methane	560	10.	ug/l	3810/RSK17	05/13/08	1
Ammonia Nitrogen	1000	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	290	100	ug/l	365.1	05/12/08	1
Dissolved Solids	300000	10000	ug/l	2540C	05/10/08	1
Suspended Solids	26000	1000	ug/l	2540D	05/12/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	BDL	1.0	ug/l	8260B	05/12/08	1
Toluene	BDL	5.0	ug/l	8260B	05/12/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/12/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	98.3		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	101.		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	85.7		% Rec.	8260B	05/12/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/12/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	68.0		% Rec.	8270C	05/12/08	1.18
2-Fluorobiphenyl	71.3		% Rec.	8270C	05/12/08	1.18
p-Terphenyl-d14	76.9		% Rec.	8270C	05/12/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-08 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-28S

Collected By : EV-SM
Collection Date : 05/07/08 16:39

ESC Sample # : L344361-09

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/08/08	1
Nitrite	BDL	100	ug/l	9056	05/08/08	1
Sulfate	BDL	5000	ug/l	9056	05/08/08	1
Methane	1400	100	ug/l	3810/RSK17	05/13/08	10
Ammonia Nitrogen	190	100	ug/l	350.1	05/12/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/12/08	1
Dissolved Solids	360000	10000	ug/l	2540C	05/15/08	1
Suspended Solids	44000	1000	ug/l	2540D	05/13/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	BDL	1.0	ug/l	8260B	05/12/08	1
Toluene	BDL	5.0	ug/l	8260B	05/12/08	1
Ethylbenzene	2.7	1.0	ug/l	8260B	05/12/08	1
Total Xylenes	6.6	3.0	ug/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	98.9		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	103.		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	84.6		% Rec.	8260B	05/12/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	160	110	ug/l	8270C	05/12/08	11.1
Surrogate Recovery						
Nitrobenzene-d5	73.6		% Rec.	8270C	05/12/08	1.11
2-Fluorobiphenyl	77.2		% Rec.	8270C	05/12/08	1.11
p-Terphenyl-d14	85.7		% Rec.	8270C	05/12/08	1.11

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-09 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-28I

Collected By : EV-SM
Collection Date : 05/07/08 15:41

ESC Sample # : L344361-10

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	0.10	mg/l	9056	05/08/08	1
Nitrite	BDL	0.10	mg/l	9056	05/08/08	1
Sulfate	BDL	5.0	mg/l	9056	05/08/08	1
Methane	0.87	0.10	mg/l	3810/RSK175	05/13/08	10
Ammonia Nitrogen	0.31	0.10	mg/l	350.1	05/12/08	1
Phosphorus,Total	0.23	0.10	mg/l	365.1	05/12/08	1
Dissolved Solids	560	10.	mg/l	2540C	05/15/08	1
Suspended Solids	38.	1.0	mg/l	2540D	05/12/08	1
Lead,Dissolved	BDL	0.025	mg/l	6010B	05/13/08	5
Benzene	BDL	0.0010	mg/l	8260B	05/12/08	1
Toluene	BDL	0.0050	mg/l	8260B	05/12/08	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	05/12/08	1
Total Xylenes	BDL	0.0030	mg/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	97.9		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	103.		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	84.2		% Rec.	8260B	05/12/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	0.028	0.011	mg/l	8270C	05/12/08	1.11
Surrogate Recovery						
Nitrobenzene-d5	60.7		% Rec.	8270C	05/12/08	1.11
2-Fluorobiphenyl	72.3		% Rec.	8270C	05/12/08	1.11
p-Terphenyl-d14	82.4		% Rec.	8270C	05/12/08	1.11

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53
L344361-10 (SV8270BN) - Evaluated to the MDL for Bis(2-ethylhexyl)phthalate

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : MW-27S

Collected By : EV-SM
Collection Date : 05/07/08 18:00

ESC Sample # : L344361-11

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sulfate	67.	5.0	mg/l	9056	05/09/08	1
Dissolved Solids	490	10.	mg/l	2540C	05/15/08	1
Suspended Solids	770	1.0	mg/l	2540D	05/13/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter - Wells

Sample ID : TB-03

Collected By : EV-SM
Collection Date : 05/07/08 00:00

ESC Sample # : L344361-12

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	05/12/08	1
Toluene	BDL	0.0050	mg/l	8260B	05/12/08	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	05/12/08	1
Total Xylenes	BDL	0.0030	mg/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	97.1		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	101.		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	86.1		% Rec.	8260B	05/12/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/22/08 16:42 Printed: 05/22/08 16:53

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L344361-01	Lead,Dissolved	O
	Bis(2-ethylhexyl)phthalate	U
L344361-02	Bis(2-ethylhexyl)phthalate	U
L344361-03	Nitrite	J5
	Bis(2-ethylhexyl)phthalate	U
L344361-04	Bis(2-ethylhexyl)phthalate	U
L344361-05	Lead,Dissolved	O
	Bis(2-ethylhexyl)phthalate	U
L344361-06	Bis(2-ethylhexyl)phthalate	U
L344361-07	Bis(2-ethylhexyl)phthalate	U
L344361-08	Bis(2-ethylhexyl)phthalate	U
L344361-10	Lead,Dissolved	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
U	BDL (EPA) - Below Detectable Limits: Indicates that the compound was analyzed but not detected.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/22/08 at 16:53:10

TSR Signing Reports: 044
R5 - Desired TAT

One L# and one Invoice per Project. In 8/22/07 5035 Only! No E's

Sample: L344361-01 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-02 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-03 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
MS/MSD this sample NJ Red.HAZSITE EDD
Sample: L344361-04 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-05 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-06 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-07 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-08 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-09 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-10 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-11 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD
Sample: L344361-12 Account: RMTGRMI Received: 05/08/08 09:00 Due Date: 05/15/08 00:00 RPT Date: 05/22/08 16:42
NJ Red.HAZSITE EDD

RMT, Inc - Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Report to: Mr. Eric ~~Vinke~~ Vincke

Email: eric.vincke@rmtinc.com;jen

Project Description: LE Carpenter

City/State Collected: Wharton, NJ

Phone: (616) 975-5415
FAX: (616) 975-1098

Client Project #: 6527.29

Lab Project #: RMTGRMI-652729

Collected by (print): Eric Vincke, Scot Middlebrook

Site/Facility ID#: NJ

P.O.#: 6527.29

Collected by (signature): E. Vincke, S. Middlebrook

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis/Container/Preservative

Chain of Custody
Page 1 of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Commercial "I" (lab use only)
Temperature upon receipt 41°F/41°F
COC Seal Present/Intact: Y N NP
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Ethane, Ethene, Methane 40ml Amb-NoPres	NH3,T. Phos 250mlHDPE-H2SO4	Nitrate, Nitrite 125mlHDPE-NoPres	PBDICP 500mlHDPE-Add HNO3	SO4,TDS 500mlHDPE-NoPres	SV8270BN 1L-Amb-NoPres	PCB's 1L-HDPE-NoPres	V8260BTEX 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
MW-29S	Grab	GW	NA	[redacted]	0753	11	X	X	X	X	X	X	X	X		[redacted]
MW-27S	↓	GW	↓	[redacted]	0835	9 ~~11~~	X	X	X	X	~~X~~	X	~~X~~	X		[redacted]
MW-19-7		GW		↓	1019	22 ~~11~~	X	X	X	X	X	X	X	X	MS/MSD	[redacted]
MW-[redacted]-5		GW			1150	11	X	X	X	X	X	X	X	X		[redacted]
MW-[redacted]		GW			1401	11	X	X	X	X	X	X	X	X		[redacted]
MW-30D		GW			1417	11	X	X	X	X	X	X	X	X		[redacted]
MW-30I		GW			1543	11	X	X	X	X	X	X	X	X		[redacted]
DUP-03		GW			—	11	X	X	X	X	X	X	X	X		[redacted]
MW-28S	↓	GW	↓	↓	1639	11	X	X	X	X	X	X	X	X		[redacted]

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks: Dissolved Lead to be field filtered. – Bottle was field filtered.
MW-19-[redacted] MS/MSD collected 22 bottles.

9669 9933 1322
9669 7432 5967
9669 9433 1300
9669 7433 1205
9669 7433 1296

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
E. Vincke	5/7/08	1900	FedEx
Relinquished by: [redacted]	Date:	Time:	Received by: (Signature) [redacted]
Relinquished by: (Signature)	Date:	Time:	Received for Lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____

Tracking # [redacted] Bottles Received: [redacted]

Date: 5-8-08 Time: 2400

Condition: OK (lab use only)

COC Seal Intact: Y N NP

Checked by: [redacted]

RMT, Inc - Grand Rapids, MI

2025 East Beltline Ave. SE Ste 402
Grand Rapids,MI 49546

Alternate billing information:

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Eric ~~Vinke~~ Vincke

Email: eric.vincke@rmtinc.com;jen

Project Description: LE Carpenter

City/State Collected: Wharton, NJ

Phone: (616) 975-5415
FAX: (616) 975-1098

Client Project #: 6527.29

Lab Project #: RMTGRMI-652729

Collected by (print): Eric Vincke, Scot Middlebrook

Site/Facility ID#: NJ

P.O.#: 6527.29

Collected by (signature): E. Vincke, S. Middlebrook

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks

Email? ___No ___Yes
FAX? ___No ___Yes

Account: RMTGRMI (lab use only)
Template/Prelogin: 241528/ 241509
Cooler #: 5-1
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Metals, Filtered, 250mlAmb-NoPres	NH3,T. Phos 250mlHDPE-H2SO4	TKN 125mlHDPE-NoPres	PBDICP 500mlHDPE-Add HNO3	Sol. TDS 500mlHDPE-NoPres	SV8270BN 1L-Amb-NoPres	TSS 1L-HDPE-NoPres	V8260BTEX 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
MW-28T	Grab	GW	NA	5/7/08	1541	11	X	X	X	X	X	X	X	X		12441261-01
MW-27S	↓	GW	↓	↓	1800	~~11~~ 2	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		02
TB-03	↓	GW	↓	↓	—	~~11~~ 1	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	X		03
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		
		GW				11	X	X	X	X	X	X	X	X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: Dissolved Lead to be field filtered. Samples for lead field filtered

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____
E. Vincke	5/7/08	1900	Fed Ex	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Condition: DK (lab use only)
				Total # of bottles Received: 24
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/8/08 Time: 0800
				Cooler Temp: 2.6
				Custody Seal Intact: N/A Y N
				pH Checked: NO

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Est. 1970

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Report Summary

Monday May 19, 2008

Report Number: L345912
Samples Received: 05/07/08
Client Project: 6527.29

Description: LE Carpenter

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Leslie Newton
Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

ESC Sample # : L345912-01

Site ID : NJ

Project # : 6527.29

Date Received : May 07, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-25R

Collected By : EV/SM
Collection Date : 05/06/08 10:03

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	>5700	1.0	CFU/ml	9215B	05/07/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/19/08 15:36 Printed: 05/19/08 15:36
L345912-01 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 07, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-34S

Collected By : EV/SM
Collection Date : 05/06/08 10:03

ESC Sample # : L345912-02

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	>5700	1.0	CFU/ml	9215B	05/07/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/19/08 15:36 Printed: 05/19/08 15:36
L345912-02 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 07, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : ATM-01

Collected By : EV/SM
Collection Date : 05/06/08 10:03

ESC Sample # : L345912-03

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	BDL	1.0	CFU/ml	9215B	05/07/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/19/08 15:36 Printed: 05/19/08 15:36
L345912-03 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 07, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-19-12

Collected By : EV/SM
Collection Date : 05/06/08 10:03

ESC Sample # : L345912-04

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	BDL	1.0	CFU/ml	9215B	05/07/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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.
Reported: 05/19/08 15:36 Printed: 05/19/08 15:36
L345912-04 (SPC) - subcontracted to Environmental Health Labs

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Mt. Juliet, TN 37122
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 07, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-19-4

Collected By : EV/SM
Collection Date : 05/06/08 10:03

ESC Sample # : L345912-05

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	100	1.0	CFU/ml	9215B	05/07/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
.
Reported: 05/19/08 15:36 Printed: 05/19/08 15:36
L345912-05 (SPC) - subcontracted to Environmental Health Labs

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
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1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 07, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : GEI-2S

Collected By : EV/SM
Collection Date : 05/06/08 10:03

ESC Sample # : L345912-06

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	57.	1.0	CFU/ml	9215B	05/07/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/19/08 15:36 Printed: 05/19/08 15:36
L345912-06 (SPC) - subcontracted to Environmental Health Labs

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 07, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-19-6

Collected By : EV/SM
Collection Date : 05/06/08 10:03

ESC Sample # : L345912-07

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	22.	1.0	CFU/ml	9215B	05/07/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/19/08 15:36 Printed: 05/19/08 15:36
L345912-07 (SPC) - subcontracted to Environmental Health Labs

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 07, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : DUP-02

Collected By : EV/SM
Collection Date : 05/06/08 10:03

ESC Sample # : L345912-08

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	80.	1.0	CFU/ml	9215B	05/07/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/19/08 15:36 Printed: 05/19/08 15:36
L345912-08 (SPC) - subcontracted to Environmental Health Labs

Summary of Remarks For Samples Printed
05/19/08 at 15:36:59

TSR Signing Reports: 044
R5 - Desired TAT

One L# and one Invoice per Project. ln 8/22/07 5035 Only! No E's

Sample: L345912-01 Account: RMTGRMI Received: 05/07/08 09:15 Due Date: 05/14/08 00:00 RPT Date: 05/19/08 15:36
NJ Red HAZSITE EDD
Sample: L345912-02 Account: RMTGRMI Received: 05/07/08 09:15 Due Date: 05/14/08 00:00 RPT Date: 05/19/08 15:36
NJ Red HAZSITE EDD
Sample: L345912-03 Account: RMTGRMI Received: 05/07/08 09:15 Due Date: 05/14/08 00:00 RPT Date: 05/19/08 15:36
NJ Red HAZSITE EDD
Sample: L345912-04 Account: RMTGRMI Received: 05/07/08 09:15 Due Date: 05/14/08 00:00 RPT Date: 05/19/08 15:36
NJ Red HAZSITE EDD
Sample: L345912-05 Account: RMTGRMI Received: 05/07/08 09:15 Due Date: 05/14/08 00:00 RPT Date: 05/19/08 15:36
NJ Red HAZSITE EDD
Sample: L345912-06 Account: RMTGRMI Received: 05/07/08 09:15 Due Date: 05/14/08 00:00 RPT Date: 05/19/08 15:36
NJ Red HAZSITE EDD
Sample: L345912-07 Account: RMTGRMI Received: 05/07/08 09:15 Due Date: 05/14/08 00:00 RPT Date: 05/19/08 15:36
NJ Red HAZSITE EDD
Sample: L345912-08 Account: RMTGRMI Received: 05/07/08 09:15 Due Date: 05/14/08 00:00 RPT Date: 05/19/08 15:36
NJ Red HAZSITE EDD

Batch 903167 159711

RMT
2025 E. Beltline Ave. SE
Ste. 402
Grand Rapids, MI 29546

Alternate Billing Information

Bill & Report to Environmental Science Corp.

Report to: Mr. Eric Vinke

Email to: eric.vinke@rmtinc.com

Project Description: L.E. Carpenter

City/State Collected: New Jersey

Phone: 616-975-5415
FAX: 616-975-1098

Client Project #: ~~6527.25~~ 6527.29

ESC Key: RMTGRMI-652725

Collected by: Eric Vinke, Scot Middlebrook

Site/Facility ID#:

P.O.#: 6527.29

Collected by (signature):

Packed on Ice N Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed: 2 wks

Email? ___No ✓Yes

FAX? ✓No ___Yes

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CLIENT PROVIDED SAMPLE CONTAINER

CoCode: RMTGRMI (lab use only)

Template/Prelogin: 4-14 KW T41527

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Heterotrophic Plate Count	To Be Subbed out to Environmental Health Labs	Remarks/Contaminant	Sample # (lab only)
MW-25R	Grab	GW	NA	5/6/08	1003	1	X		L345912-01	102
MW-34s	Grab	GW			1300	1	X		02	103
ATM-01	Grab	GW			1525	1	X		03	104
MW-19-12	Grab	GW			1024	1	X	not able to be run within hold time	04	105
MW-19-4	Grab	GW			1353	1	X		-05 SS 5-7-08	106
GEI-2s	Grab	GW			1545	1	X		06	107
MW-19-6	Grab	GW			1723	1	X		-07	108
Dup-02	Grab	GW			—	1	X		-08	
	Grab	GW								

*Matrix SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Contacted Janice Corby regarding hold time. OK to analyze. KT 5/8/08

Kelly T. to contact Client regarding missed hold times SS 5-7-08

pH _____ Temp _____ Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier
	5/6/08	1900	FedEx	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5-7-08 Time: 0925

Condition: (lab use only) OK

pH Checked: NCF:

<6°C

the standard in safety

Underwriters Laboratories

Laboratory Report

Client: Environmental Science

Attn: Janice Cozby
12065 Lebanon Road
Mt. Juliet, TN 37122

Report: 203167
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Copies to: None

Sample Information

UL ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
1842101	MW-25R	9215 B	05/06/08 10:03	Client	05/07/08 09:15
1842102	MW-34S	9215 B	05/06/08 13:00	Client	05/07/08 09:15
1842103	ATM-01	9215 B	05/06/08 15:25	Client	05/07/08 09:15
1842104	MW-19-12	9215 B	05/06/08 10:24	Client	05/07/08 09:15
1842105	MW-19-4	9215 B	05/06/08 13:53	Client	05/07/08 09:15
1842106	GEI-28	9215 B	05/06/08 15:45	Client	05/07/08 09:15
1842107	MW-19-6	9215 B	05/06/08 17:23	Client	05/07/08 09:15
1842108	Dup-02	9215 B	05/06/08 00:00	Client	05/07/08 09:15

Report Summary

Project: L.E. Carpenter / 6527.29

Note: Sample containers were provided by the client.

Note: The samples submitted for analysis, except the sample submitted from sample site MW-19-6, were analyzed beyond the twenty-four hour holding time. The client was notified of the situation, and analysis was authorized by Janice Cozby of Environmental Science.

Detailed quantitative results are presented on the following pages.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from Underwriters Laboratories (UL).

Kelly Trott — Authorized Signature

Project Manager — Title

5/16/2008 — Date

Client Name: Environmental Science
Report #: 203167

Underwriters Laboratories Inc.
110 S. Hill Street, South Bend, IN 46617-2702 USA
T:: 800.332.4345 / F:: 574.233.8207 / W:: ul.com

Client Name: Environmental Science

Report #: 203167

Sampling Point: MW-25R

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	> 5700	cfu/ml	—	05/07/08 16:12	1842101

Sampling Point: MW-34S

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	> 5700	cfu/ml	—	05/07/08 16:13	1842102

Sampling Point: ATM-01

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	< 1	cfu/ml	—	05/07/08 16:13	1842103

Sampling Point: MW-19-12

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	< 1	cfu/ml	—	05/07/08 16:14	1842104

Sampling Point: MW-19-4

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	100	cfu/ml	—	05/07/08 16:14	1842105

Client Name: Environmental Science

Report #: 203167

Sampling Point: GEI-2S

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	57	cfu/ml	—	05/07/08 16:15	1842106

Sampling Point: MW-19-6

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	22	cfu/ml	—	05/07/08 16:15	1842107

Sampling Point: Dup-02

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	80	cfu/ml	—	05/07/08 16:16	1842108

† UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	▲	!

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Est. 1970

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Report Summary

Monday May 19, 2008

Report Number: L345868
Samples Received: 05/09/08
Client Project: 6527.29

Description: LE Carpenter

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Leslie Newton

Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 09, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-31S

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 07:30

ESC Sample # : L345868-01

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	>5700	1.0	CFU/ml	9215B	05/09/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/19/08 15:37 Printed: 05/19/08 15:37
L345868-01 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

ESC Sample # : L345868-02

Site ID : NJ

Project # : 6527.29

Date Received : May 09, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-30S

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 09:51

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	>5700	1.0	CFU/ml	9215B	05/09/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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.
Reported: 05/19/08 15:37 Printed: 05/19/08 15:37
L345868-02 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

ESC Sample # : L345868-03

Site ID : NJ

Project # : 6527.29

Date Received : May 09, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-32S

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 13:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	>5700	1.0	CFU/ml	9215B	05/09/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/19/08 15:37 Printed: 05/19/08 15:37
L345868-03 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 09, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-33S

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 08:30

ESC Sample # : L345868-04

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	>5700	1.0	CFU/ml	9215B	05/09/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/19/08 15:37 Printed: 05/19/08 15:37
L345868-04 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 09, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : MW-35S

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 11:00

ESC Sample # : L345868-05

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	>5700	1.0	CFU/ml	9215B	05/09/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/19/08 15:37 Printed: 05/19/08 15:37
L345868-05 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 09, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : RB-02

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 16:05

ESC Sample # : L345868-06

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	BDL	1.0	CFU/ml	9215B	05/09/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/19/08 15:37 Printed: 05/19/08 15:37
L345868-06 (SPC) - subcontracted to Environmental Health Labs

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Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vincke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 19, 2008

Date Received : May 09, 2008
Description : LE Carpenter - Heter. Plate Count

Sample ID : RB-03

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 16:15

ESC Sample # : L345868-07

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	BDL	1.0	CFU/ml	9215B	05/09/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/19/08 15:37 Printed: 05/19/08 15:37
L345868-07 (SPC) - subcontracted to Environmental Health Labs

Summary of Remarks For Samples Printed
05/19/08 at 15:37:34

TSR Signing Reports: 044
R5 - Desired TAT

One L# and one Invoice per Project. In 8/22/07 5035 Only! No E's

Sample: L345868-01 Account: RMTGRMI Received: 05/09/08 09:30 Due Date: 05/16/08 00:00 RPT Date: 05/19/08 15:37
NJ Red HAZSITE EDD
Sample: L345868-02 Account: RMTGRMI Received: 05/09/08 09:30 Due Date: 05/16/08 00:00 RPT Date: 05/19/08 15:37
NJ Red HAZSITE EDD
Sample: L345868-03 Account: RMTGRMI Received: 05/09/08 09:30 Due Date: 05/16/08 00:00 RPT Date: 05/19/08 15:37
NJ Red HAZSITE EDD
Sample: L345868-04 Account: RMTGRMI Received: 05/09/08 09:30 Due Date: 05/16/08 00:00 RPT Date: 05/19/08 15:37
NJ Red HAZSITE EDD
Sample: L345868-05 Account: RMTGRMI Received: 05/09/08 09:30 Due Date: 05/16/08 00:00 RPT Date: 05/19/08 15:37
NJ Red HAZSITE EDD
Sample: L345868-06 Account: RMTGRMI Received: 05/09/08 09:30 Due Date: 05/16/08 00:00 RPT Date: 05/19/08 15:37
NJ Red HAZSITE EDD
Sample: L345868-07 Account: RMTGRMI Received: 05/09/08 09:30 Due Date: 05/16/08 00:00 RPT Date: 05/19/08 15:37
NJ Red HAZSITE EDD

Batch 203340 159800

RMT
2025 E. Beltline Ave. SE
Ste. 402
Grand Rapids, MI 29546

Alternate Billing Information

Bill & Report to Environmental Science Corp.

Report to: Mr. Eric ~~Vinke~~ Vincke

Email to: eric.~~vinke~~ vincke@rmtinc.com

Analysis/Container/Preservative

Chain of Custody Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: L.E. Carpenter

City/Sate Collected: New Jersey

Phone: 616-975-5415
FAX: 616-975-1098

Client Project #: 6527.~~25~~ 29

ESC Key: RMTGRMI-652725

Collected by: Eric Vincke, Scot Middlebrook

Site/Facility ID#:

P.O.#: 6527.29

Collected by (signature): [signature]

Packed on Ice N Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed: 2wks
Email? __No ✓Yes
FAX? ✓No __Yes

CoCode RMTGRMI (lab use only)
Template/Prelogin T41527
4-14 KW
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Heterotrophic Plate Count	To Be Subbed out to Environmental Health Labs.	Remarks/Contaminants	Sample # (lab only)
MW-31s	Grab	GW	NA	5/8/08	0730	1	X	RECEIVED OUT OF HOLD TIME		L345868 01
MW-30s	Grab	GW	↓	↓	0951	1	X	RECEIVED OUT OF HOLD TIME		062 02
MW-32s	Grab	GW	↓	↓	1305	1	X			063 03
MW-33s	Grab	GW	↓	↓	0830	1	X	RECEIVED OUT OF HOLD TIME		064 04
MW-35s	Grab	GW	↓	↓	1100	1	X			065 05
RB-02	Grab	GW	↓	↓	1605	1	X			066 06
RB-03	Grab	GW	↓	↓	1615	1	X			067 07
	Grab	GW								
	Grab	GW								

CLIENT PROVIDED SAMPLE CONTAINER

Proceed w/ analysis outside hold time. Client will be notified. ckt 5/9/08

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

Temp

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
[signature]	5/8/08	1800	[signature] FedEx		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp 0.8°C Bottles Received wet	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date 5-9-08 Time 9:30AM	pH Checked: NCF

[signature] 5/10/08

L345868

the standard in safety

Underwriters Laboratories

Laboratory Report

Client: Environmental Science

Attn: Janice Cozby
12065 Lebanon Road
Mt. Juliet, TN 37122

Copies to: None

Report: 203340
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

UL ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
1844061	MW-31S	9215 B	05/08/08 07:30	Client	05/09/08 09:30
1844062	MW-30S	9215 B	05/08/08 09:51	Client	05/09/08 09:30
1844063	MW-32S	9215 B	05/08/08 13:05	Client	05/09/08 09:30
1844064	MW-33S	9215 B	05/08/08 08:30	Client	05/09/08 09:30
1844065	MW-35S	9215 B	05/08/08 11:00	Client	05/09/08 09:30
1844066	RB-02	9215 B	05/08/08 16:05	Client	05/09/08 09:30
1844067	RB-03	9215 B	05/08/08 16:15	Client	05/09/08 09:30

Report Summary

Project: 6527.29 / L.E. Carpenter

Note: Sample containers were provided by the client.

Note: The samples submitted for analysis from sample sites MW-31S, MW-30S, and MW-33S were analyzed beyond the twenty-four hour holding time. The client was notified of the situation, and analysis was authorized by Janice Cozby of Environmental Science.

Detailed quantitative results are presented on the following pages.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from Underwriters Laboratories (UL). UL is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Kelly Trott
Authorized Signature

Project Manager
Title

5/15/2008
Date

Client Name: Environmental Science
Report #: 203340

Underwriters Laboratories Inc.
110 S. Hill Street, South Bend, IN 46617-2702 USA
T:: 800.332.4345 / F:: 574.233.8207 / W:: ul.com

Client Name: Environmental Science

Report #: 203340

Sampling Point: MW-31S

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Heterotrophic Plate Count	9215 B	---	1	> 5700	cfu/ml	---	05/09/08 10:35	1844061

Sampling Point: MW-30S

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Heterotrophic Plate Count	9215 B	---	1	> 5700	cfu/ml	---	05/09/08 10:35	1844062

Sampling Point: MW-32S

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Heterotrophic Plate Count	9215 B	---	1	> 5700	cfu/ml	---	05/09/08 10:34	1844063

Sampling Point: MW-33S

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Heterotrophic Plate Count	9215 B	---	1	> 5700	cfu/ml	---	05/09/08 10:36	1844064

Sampling Point: MW-35S

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Heterotrophic Plate Count	9215 B	---	1	> 5700	cfu/ml	---	05/09/08 10:34	1844065

Client Name: Environmental Science

Report #: 203340

Sampling Point: RB-02

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	< 1	cfu/ml	—	05/09/08 10:36	1844066

Sampling Point: RB-03

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	< 1	cfu/ml	—	05/09/08 10:37	1844067

† UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	|

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Report Summary

Thursday May 22, 2008

Report Number: L344644
Samples Received: 05/09/08
Client Project: 6527.29

Description: LE Carpenter

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 09, 2008
Description : LE Carpenter - Wells

ESC Sample # : L344644-01

Sample ID : MW-30S

Site ID : NJ

Project # : 6527.29

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 09:51

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/09/08	1
Nitrite	BDL	100	ug/l	9056	05/09/08	1
Sulfate	BDL	5000	ug/l	9056	05/09/08	1
Methane	1700	100	ug/l	3810/RSK17	05/13/08	10
Ammonia Nitrogen	930	100	ug/l	350.1	05/14/08	1
Phosphorus,Total	260	100	ug/l	365.1	05/13/08	1
Dissolved Solids	320000	10000	ug/l	2540C	05/16/08	1
Suspended Solids	36000	1000	ug/l	2540D	05/14/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	BDL	1.0	ug/l	8260B	05/11/08	1
Toluene	BDL	5.0	ug/l	8260B	05/11/08	1
Ethylbenzene	100	1.0	ug/l	8260B	05/11/08	1
Total Xylenes	460	15.	ug/l	8260B	05/12/08	5
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	05/11/08	1
Dibromofluoromethane	104.		% Rec.	8260B	05/11/08	1
4-Bromofluorobenzene	96.2		% Rec.	8260B	05/11/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	9.6	1.2	ug/l	8270C	05/12/08	1.25
Surrogate Recovery						
Nitrobenzene-d5	55.5		% Rec.	8270C	05/12/08	1.25
2-Fluorobiphenyl	69.6		% Rec.	8270C	05/12/08	1.25
p-Terphenyl-d14	85.1		% Rec.	8270C	05/12/08	1.25

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 09, 2008
Description : LE Carpenter - Wells

Sample ID : MW-31S

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 07:30

ESC Sample # : L344644-02

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	120	100	ug/l	9056	05/09/08	1
Nitrite	BDL	100	ug/l	9056	05/09/08	1
Sulfate	44000	5000	ug/l	9056	05/09/08	1
Methane	3000	100	ug/l	3810/RSK17	05/13/08	10
Ammonia Nitrogen	22000	1000	ug/l	350.1	05/14/08	10
Phosphorus,Total	680	100	ug/l	365.1	05/13/08	1
Dissolved Solids	810000	10000	ug/l	2540C	05/15/08	1
Suspended Solids	460000	1000	ug/l	2540D	05/14/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	BDL	500	ug/l	8260B	05/12/08	500
Toluene	BDL	2500	ug/l	8260B	05/12/08	500
Ethylbenzene	5500	500	ug/l	8260B	05/12/08	500
Total Xylenes	27000	1500	ug/l	8260B	05/12/08	500
Surrogate Recovery						
Toluene-d8	99.9		% Rec.	8260B	05/12/08	500
Dibromofluoromethane	108.		% Rec.	8260B	05/12/08	500
4-Bromofluorobenzene	89.8		% Rec.	8260B	05/12/08	500
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	310	84.	ug/l	8270C	05/13/08	83.5
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C	05/13/08	83.5
2-Fluorobiphenyl	0.00		% Rec.	8270C	05/13/08	83.5
p-Terphenyl-d14	0.00		% Rec.	8270C	05/13/08	83.5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 09, 2008
Description : LE Carpenter - Wells

ESC Sample # : L344644-03

Sample ID : MW-32S

Site ID : NJ

Project # : 6527.29

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 13:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/09/08	1
Nitrite	BDL	100	ug/l	9056	05/09/08	1
Sulfate	8600	5000	ug/l	9056	05/09/08	1
Methane	4800	100	ug/l	3810/RSK17	05/13/08	10
Ammonia Nitrogen	2000	100	ug/l	350.1	05/14/08	1
Phosphorus,Total	14000	1000	ug/l	365.1	05/13/08	10
Dissolved Solids	3400000	10000	ug/l	2540C	05/16/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	BDL	200	ug/l	8260B	05/11/08	200
Toluene	BDL	1000	ug/l	8260B	05/11/08	200
Ethylbenzene	16000	200	ug/l	8260B	05/11/08	200
Total Xylenes	75000	600	ug/l	8260B	05/11/08	200
Surrogate Recovery						
Toluene-d8	99.8		% Rec.	8260B	05/11/08	200
Dibromofluoromethane	104.		% Rec.	8260B	05/11/08	200
4-Bromofluorobenzene	96.4		% Rec.	8260B	05/11/08	200
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	370000	120000	ug/l	8270C	05/13/08	12100(
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C	05/13/08	12100(
2-Fluorobiphenyl	0.00		% Rec.	8270C	05/13/08	12100(
p-Terphenyl-d14	0.00		% Rec.	8270C	05/13/08	12100(

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 09, 2008
Description : LE Carpenter - Wells

ESC Sample # : L344644-04

Sample ID : MW-33S

Site ID : NJ

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 08:30

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/09/08	1
Nitrite	BDL	100	ug/l	9056	05/09/08	1
Sulfate	7500	5000	ug/l	9056	05/09/08	1
Methane	2800	100	ug/l	3810/RSK17	05/13/08	10
Ammonia Nitrogen	5000	100	ug/l	350.1	05/14/08	1
Phosphorus,Total	170	100	ug/l	365.1	05/13/08	1
Dissolved Solids	310000	10000	ug/l	2540C	05/15/08	1
Suspended Solids	220000	1000	ug/l	2540D	05/14/08	1
Lead,Dissolved	11.	5.0	ug/l	6010B	05/10/08	1
Benzene	4.0	1.0	ug/l	8260B	05/11/08	1
Toluene	BDL	5.0	ug/l	8260B	05/11/08	1
Ethylbenzene	6.6	1.0	ug/l	8260B	05/11/08	1
Total Xylenes	27.	3.0	ug/l	8260B	05/11/08	1
Surrogate Recovery						
Toluene-d8	96.7		% Rec.	8260B	05/11/08	1
Dibromofluoromethane	104.		% Rec.	8260B	05/11/08	1
4-Bromofluorobenzene	93.8		% Rec.	8260B	05/11/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	16.	1.2	ug/l	8270C	05/12/08	1.25
Surrogate Recovery						
Nitrobenzene-d5	47.2		% Rec.	8270C	05/12/08	1.25
2-Fluorobiphenyl	54.8		% Rec.	8270C	05/12/08	1.25
p-Terphenyl-d14	62.5		% Rec.	8270C	05/12/08	1.25

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 09, 2008
Description : LE Carpenter

Sample ID : MW-34S

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 09:40

ESC Sample # : L344644-05

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/09/08	1
Nitrite	BDL	100	ug/l	9056	05/09/08	1
Sulfate	12000	5000	ug/l	9056	05/09/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/14/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/13/08	1
Dissolved Solids	490000	10000	ug/l	2540C	05/16/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

Date Received : May 09, 2008
Description : LE Carpenter - Wells

Sample ID : MW-35S

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 11:00

ESC Sample # : L344644-06

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/09/08	1
Nitrite	BDL	100	ug/l	9056	05/09/08	1
Sulfate	13000	5000	ug/l	9056	05/09/08	1
Methane	3900	100	ug/l	3810/RSK17	05/13/08	10
Ammonia Nitrogen	1800	100	ug/l	350.1	05/14/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/14/08	1
Dissolved Solids	570000	10000	ug/l	2540C	05/16/08	1
Suspended Solids	2100000	1000	ug/l	2540D	05/14/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/10/08	1
Benzene	19.	1.0	ug/l	8260B	05/11/08	1
Toluene	52.	5.0	ug/l	8260B	05/11/08	1
Ethylbenzene	18000	500	ug/l	8260B	05/12/08	500
Total Xylenes	110000	1500	ug/l	8260B	05/12/08	500
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	05/11/08	1
Dibromofluoromethane	103.		% Rec.	8260B	05/11/08	1
4-Bromofluorobenzene	150.		% Rec.	8260B	05/11/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	490	57.	ug/l	8270C	05/12/08	57
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C	05/12/08	57
2-Fluorobiphenyl	0.00		% Rec.	8270C	05/12/08	57
p-Terphenyl-d14	0.00		% Rec.	8270C	05/12/08	57

BDL - Below Detection Limit
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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

ESC Sample # : L344644-07

Site ID : NJ

Project # : 6527.29

Date Received : May 09, 2008
Description : LE Carpenter - Wells

Sample ID : RB-02

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 16:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/09/08	1
Nitrite	BDL	100	ug/l	9056	05/09/08	1
Sulfate	BDL	5000	ug/l	9056	05/09/08	1
Methane	BDL	10.	ug/l	3810/RSK17	05/15/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/14/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/14/08	1
Dissolved Solids	BDL	10000	ug/l	2540C	05/17/08	1
Suspended Solids	BDL	1000	ug/l	2540D	05/15/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/13/08	1
Benzene	BDL	1.0	ug/l	8260B	05/11/08	1
Toluene	BDL	5.0	ug/l	8260B	05/11/08	1
Ethylbenzene	2.6	1.0	ug/l	8260B	05/13/08	1
Total Xylenes	8.8	3.0	ug/l	8260B	05/13/08	1
Surrogate Recovery						
Toluene-d8	99.5		% Rec.	8260B	05/11/08	1
Dibromofluoromethane	101.		% Rec.	8260B	05/11/08	1
4-Bromofluorobenzene	106.		% Rec.	8260B	05/11/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	3.8	1.1	ug/l	8270C	05/12/08	1.14
Surrogate Recovery						
Nitrobenzene-d5	57.6		% Rec.	8270C	05/12/08	1.14
2-Fluorobiphenyl	66.2		% Rec.	8270C	05/12/08	1.14
p-Terphenyl-d14	98.5		% Rec.	8270C	05/12/08	1.14

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

ESC Sample # : L344644-08

Site ID : NJ

Project # : 6527.29

Date Received : May 09, 2008
Description : LE Carpenter - Wells

Sample ID : RB-03

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 16:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Nitrate	BDL	100	ug/l	9056	05/09/08	1
Nitrite	BDL	100	ug/l	9056	05/09/08	1
Sulfate	BDL	5000	ug/l	9056	05/09/08	1
Methane	BDL	10.	ug/l	3810/RSK17	05/15/08	1
Ammonia Nitrogen	BDL	100	ug/l	350.1	05/14/08	1
Phosphorus,Total	BDL	100	ug/l	365.1	05/14/08	1
Dissolved Solids	BDL	10000	ug/l	2540C	05/16/08	1
Suspended Solids	BDL	1000	ug/l	2540D	05/15/08	1
Lead,Dissolved	BDL	5.0	ug/l	6010B	05/13/08	1
Benzene	BDL	1.0	ug/l	8260B	05/11/08	1
Toluene	BDL	5.0	ug/l	8260B	05/11/08	1
Ethylbenzene	8.9	1.0	ug/l	8260B	05/11/08	1
Total Xylenes	54.	3.0	ug/l	8260B	05/11/08	1
Surrogate Recovery						
Toluene-d8	96.4		% Rec.	8260B	05/11/08	1
Dibromofluoromethane	103.		% Rec.	8260B	05/11/08	1
4-Bromofluorobenzene	92.3		% Rec.	8260B	05/11/08	1
Base/Neutral Extractables						
Bis(2-ethylhexyl)phthalate	BDL	1.2	ug/l	8270C	05/12/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	57.0		% Rec.	8270C	05/12/08	1.18
2-Fluorobiphenyl	66.8		% Rec.	8270C	05/12/08	1.18
p-Terphenyl-d14	85.8		% Rec.	8270C	05/12/08	1.18

BDL - Below Detection Limit
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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22,2008

ESC Sample # : L344644-09

Site ID : NJ

Project # : 6527.29

Date Received : May 09, 2008
Description : LE Carpenter

Sample ID : TB-04

Collected By : Vincke/Middlebrook
Collection Date : 05/08/08 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/12/08	1
Toluene	BDL	5.0	ug/l	8260B	05/12/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/12/08	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/12/08	1
Surrogate Recovery						
Toluene-d8	97.9		% Rec.	8260B	05/12/08	1
Dibromofluoromethane	108.		% Rec.	8260B	05/12/08	1
4-Bromofluorobenzene	79.0		% Rec.	8260B	05/12/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L344644-02	Nitrobenzene-d5	J7
	2-Fluorobiphenyl	J7
	p-Terphenyl-d14	J7
L344644-03	Nitrobenzene-d5	J7
	2-Fluorobiphenyl	J7
	p-Terphenyl-d14	J7
L344644-06	Nitrobenzene-d5	J7
	2-Fluorobiphenyl	J7
	p-Terphenyl-d14	J7
	4-Bromofluorobenzene	J1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/22/08 at 16:56:11

TSR Signing Reports: 044
R5 - Desired TAT

One L# and one Invoice per Project. In 8/22/07 5035 Only! No E's

Sample: L344644-01 Account: RMTGRMI Received: 05/09/08 09:00 Due Date: 05/16/08 00:00 RPT Date: 05/22/08 16:42
NJ Red. QC;HAZSITE EDD field filtered
Sample: L344644-02 Account: RMTGRMI Received: 05/09/08 09:00 Due Date: 05/16/08 00:00 RPT Date: 05/22/08 16:42
NJ Red. QC;HAZSITE EDD field filtered
Sample: L344644-03 Account: RMTGRMI Received: 05/09/08 09:00 Due Date: 05/16/08 00:00 RPT Date: 05/22/08 16:42
NJ Red. QC;HAZSITE EDD field filtered
Sample: L344644-04 Account: RMTGRMI Received: 05/09/08 09:00 Due Date: 05/16/08 00:00 RPT Date: 05/22/08 16:42
NJ Red. QC;HAZSITE EDD field filtered
Sample: L344644-05 Account: RMTGRMI Received: 05/09/08 09:00 Due Date: 05/16/08 00:00 RPT Date: 05/22/08 16:42
NJ Red. QC;HAZSITE EDD field filtered
Sample: L344644-06 Account: RMTGRMI Received: 05/09/08 09:00 Due Date: 05/16/08 00:00 RPT Date: 05/22/08 16:42
NJ Red. QC;HAZSITE EDD field filtered
Sample: L344644-07 Account: RMTGRMI Received: 05/09/08 09:00 Due Date: 05/16/08 00:00 RPT Date: 05/22/08 16:42
Filter samples in lab.NJ Red. QC;HAZSITE EDD
Sample: L344644-08 Account: RMTGRMI Received: 05/09/08 09:00 Due Date: 05/16/08 00:00 RPT Date: 05/22/08 16:42
Filter samples in lab.NJ Red. QC;HAZSITE EDD
Sample: L344644-09 Account: RMTGRMI Received: 05/09/08 09:00 Due Date: 05/16/08 00:00 RPT Date: 05/22/08 16:42
Filter samples in lab.NJ Red. QC;HAZSITE EDD

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Quality Assurance Report
Level II

L344644

May 22, 2008

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Nitrate	< .1	mg/l	05/09/08 11:38	WG360287
Nitrite	< .1	mg/l	05/09/08 11:38	WG360287
Sulfate	< 5	mg/l	05/09/08 11:38	WG360287
Bis(2-ethylhexyl)phthalate	< .01	ppm	05/10/08 14:38	WG360402
Lead,Dissolved	< .005	mg/l	05/10/08 19:31	WG360413
Benzene	< .001	mg/l	05/11/08 05:35	WG360510
Ethylbenzene	< .001	mg/l	05/11/08 05:35	WG360510
Toluene	< .005	mg/l	05/11/08 05:35	WG360510
Total Xylenes	< .003	mg/l	05/11/08 05:35	WG360510
Bis(2-ethylhexyl)phthalate	< .01	ppm	05/11/08 22:00	WG360523
Lead,Dissolved	< .005	mg/l	05/13/08 22:57	WG360616
Benzene	< .001	mg/l	05/12/08 16:36	WG360720
Ethylbenzene	< .001	mg/l	05/12/08 16:36	WG360720
Toluene	< .005	mg/l	05/12/08 16:36	WG360720
Total Xylenes	< .003	mg/l	05/12/08 16:36	WG360720
Phosphorus,Total	< .1	mg/l	05/13/08 02:14	WG360750
Phosphorus,Total	< .1	mg/l	05/14/08 02:26	WG360754
Ethylbenzene	< .001	mg/l	05/13/08 13:57	WG360888
Total Xylenes	< .003	mg/l	05/13/08 13:57	WG360888
Ammonia Nitrogen	< .1	mg/l	05/14/08 12:40	WG360919
Suspended Solids	< 1	mg/l	05/14/08 06:57	WG360975
Dissolved Solids	< 10	mg/l	05/15/08 15:27	WG360980
Dissolved Solids	< 10	mg/l	05/16/08 12:33	WG361190
Dissolved Solids	< 10	mg/l	05/16/08 12:14	WG361191
Dissolved Solids	< 10	mg/l	05/16/08 10:56	WG361192
Dissolved Solids	< 10	mg/l	05/16/08 15:56	WG361194
Suspended Solids	< 1	mg/l	05/15/08 07:24	WG361196

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Nitrate	mg/l	0.00	0.0680	NA	20	L344637-03	WG360287
Nitrate	mg/l	0.00	0.00	0.00	20	L344644-07	WG360287
Nitrite	mg/l	0.00	0.0930	NA	20	L344637-03	WG360287
Nitrite	mg/l	0.00	0.00	0.00	20	L344644-07	WG360287
Sulfate	mg/l	13.5	13.0	3.77	20	L344637-03	WG360287
Sulfate	mg/l	0.00	0.00	0.00	20	L344644-07	WG360287
Lead,Dissolved	mg/l	0.00	0.00	0.00	20	L344644-06	WG360413
Lead,Dissolved	mg/l	0.00	0.00	0.00	20	L344644-08	WG360616
Phosphorus,Total	mg/l	0.176	0.170	3.47	20	L344644-04	WG360750

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Phosphorus,Total	mg/l	0.00	0.00	0.00	20	L344329-08	WG360750

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Phosphorus,Total	mg/l	1.24	1.20	3.28	20	L344734-01	WG360754
Phosphorus,Total	mg/l	0.835	0.880	5.25	20	L344811-01	WG360754
Ammonia Nitrogen	mg/l	0.00	0.00	0.00	20	L344658-01	WG360919
Ammonia Nitrogen	mg/l	0.747	0.850	12.9	20	L344633-01	WG360919
Suspended Solids	mg/l	36.3	36.0	0.692	5	L344644-01	WG360975
Suspended Solids	mg/l	2180	2100	3.74	5	L344644-06	WG360975
Dissolved Solids	mg/l	45.0	44.0	2.25	5	L344627-01	WG360980
Dissolved Solids	mg/l	149.	150.	0.669	5	L344615-02	WG361190
Dissolved Solids	mg/l	123.	120.	2.47	5	L344615-01	WG361191
Dissolved Solids	mg/l	128.	120.	6.45	5	L344615-04	WG361192
Dissolved Solids	mg/l	0.00	0.00	0.00	5	L344644-07	WG361194
Suspended Solids	mg/l	10.4	11.0	5.18	5	L344851-01	WG361196
Suspended Solids	mg/l	13.5	14.0	3.64	5	L345362-01	WG361196

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Nitrate	mg/l	8	8.06	101.	90-110	WG360287
Nitrite	mg/l	8	7.84	98.0	90-110	WG360287
Sulfate	mg/l	40	37.7	94.3	90-110	WG360287
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00881	88.1	47-143	WG360402
Lead,Dissolved	mg/l	1.13	1.16	103.	85-115	WG360413
Benzene	mg/l	.05	0.0542	108.	67-126	WG360510
Ethylbenzene	mg/l	.05	0.0509	102.	76-129	WG360510
Toluene	mg/l	.05	0.0494	98.9	72-122	WG360510
Total Xylenes	mg/l	.15	0.152	101.	75-128	WG360510
Bis(2-ethylhexyl)phthalate	ppm	.01	0.0101	101.	47-143	WG360523
Lead,Dissolved	mg/l	1.13	1.13	100.	85-115	WG360616
Benzene	mg/l	.05	0.0521	104.	67-126	WG360720
Ethylbenzene	mg/l	.05	0.0518	104.	76-129	WG360720
Toluene	mg/l	.05	0.0467	93.5	72-122	WG360720
Total Xylenes	mg/l	.15	0.153	102.	75-128	WG360720
Phosphorus,Total	mg/l	1	0.964	96.4	85-115	WG360750
Phosphorus,Total	mg/l	1	0.977	97.7	85-115	WG360754
Ethylbenzene	mg/l	.05	0.0520	104.	76-129	WG360888
Total Xylenes	mg/l	.15	0.154	103.	75-128	WG360888
Ammonia Nitrogen	mg/l	7.5	8.03	107.	85-115	WG360919
Suspended Solids	mg/l	778	800.	103.	85-115	WG360975
Dissolved Solids	mg/l	8800	8560	97.2	85-115	WG360980

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L344644

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Dissolved Solids	mg/l	8800	8650	98.3	85-115	WG361190
Dissolved Solids	mg/l	8800	8580	97.5	85-115	WG361191
Dissolved Solids	mg/l	8800	8620	98.0	85-115	WG361192
Dissolved Solids	mg/l	8800	8500	96.6	85-115	WG361194
Suspended Solids	mg/l	778	808.	104.	85-115	WG361196

Analyte	Units	Laboratory Control Sample Duplicate LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Nitrate	mg/l	8.03	8.06	0.373	20	100	WG360287
Nitrite	mg/l	7.83	7.84	0.128	20	98	WG360287
Sulfate	mg/l	37.6	37.7	0.266	20	94	WG360287
Bis(2-ethylhexyl)phthalate	ppm	0.0090	0.0088	3.02	24	91	WG360402
Benzene	mg/l	0.0505	0.0542	7.21	20	101	WG360510
Ethylbenzene	mg/l	0.0493	0.0509	3.25	20	99	WG360510
Toluene	mg/l	0.0463	0.0494	6.64	20	93	WG360510
Total Xylenes	mg/l	0.149	0.152	1.72	20	100	WG360510
Bis(2-ethylhexyl)phthalate	ppm	0.0106	0.0101	4.26	24	106	WG360523
Benzene	mg/l	0.0514	0.0521	1.43	20	103	WG360720
Ethylbenzene	mg/l	0.0503	0.0518	2.81	20	101	WG360720
Toluene	mg/l	0.0465	0.0467	0.394	20	93	WG360720
Total Xylenes	mg/l	0.150	0.153	1.52	20	100	WG360720
Phosphorus,Total	mg/l	0.978	0.964	1.44	20	98	WG360750
Phosphorus,Total	mg/l	0.953	0.977	2.49	20	95	WG360754
Ethylbenzene	mg/l	0.0499	0.0520	4.02	20	100	WG360888
Total Xylenes	mg/l	0.148	0.154	4.10	20	99	WG360888
Ammonia Nitrogen	mg/l	8.37	8.03	4.15	20	112	WG360919
Suspended Solids	mg/l	792.	800.	1.01	20	102	WG360975
Dissolved Solids	mg/l	8510	8560	0.516	20	97	WG360980
Dissolved Solids	mg/l	8560	8650	1.02	20	97	WG361190
Dissolved Solids	mg/l	8600	8580	0.233	20	98	WG361191
Dissolved Solids	mg/l	8600	8620	0.325	20	98	WG361192
Dissolved Solids	mg/l	8560	8500	0.703	20	97	WG361194
Suspended Solids	mg/l	784.	808.	3.02	20	101	WG361196

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Nitrate	mg/l	9.73	4.77	5	99.2	80-120	L344637-01	WG360287
Nitrite	mg/l	5.21	0.00	5	104.	80-120	L344637-01	WG360287

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Sulfate	mg/l	156.	110.	50	92.0	80-120	L344637-01	WG360287

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Lead,Dissolved	mg/l	1.11	0.00	1.13	98.2	75-125	L344644-06	WG360413
Benzene	mg/l	0.0760	0.0260	.05	99.9	16-158	L344513-07	WG360510
Ethylbenzene	mg/l	0.0515	0.00	.05	103.	29-150	L344513-07	WG360510
Toluene	mg/l	0.0477	0.00	.05	95.4	22-152	L344513-07	WG360510
Total Xylenes	mg/l	0.156	0.00	.15	104.	27-151	L344513-07	WG360510
Lead,Dissolved	mg/l	1.16	0.00	1.13	103.	75-125	L344644-08	WG360616
Benzene	mg/l	0.0566	0.00	.05	113.	16-158	L344445-03	WG360720
Ethylbenzene	mg/l	0.0542	0.00	.05	108.	29-150	L344445-03	WG360720
Toluene	mg/l	0.0500	0.00	.05	99.9	22-152	L344445-03	WG360720
Total Xylenes	mg/l	0.161	0.00	.15	108.	27-151	L344445-03	WG360720
Phosphorus,Total	mg/l	3.78	1.50	2.5	91.2	80-120	L344633-01	WG360750
Phosphorus,Total	mg/l	2.65	0.00	2.5	106.	80-120	L344830-07	WG360754
Ethylbenzene	mg/l	0.0400	0.00	.05	80.0	29-150	L344798-20	WG360888
Total Xylenes	mg/l	0.119	0.00	.15	79.2	27-151	L344798-20	WG360888
Ammonia Nitrogen	mg/l	5.97	0.00	5	119.	80-120	L344644-05	WG360919

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Nitrate	mg/l	9.80	9.73	0.717	20	101.	L344637-01	WG360287
Nitrite	mg/l	5.20	5.21	0.192	20	104.	L344637-01	WG360287
Sulfate	mg/l	157.	156.	0.639	20	94.0	L344637-01	WG360287
Lead,Dissolved	mg/l	1.13	1.11	1.79	20	100.	L344644-06	WG360413
Benzene	mg/l	0.0782	0.0760	2.92	21	104.	L344513-07	WG360510
Ethylbenzene	mg/l	0.0495	0.0515	3.91	24	99.0	L344513-07	WG360510
Toluene	mg/l	0.0483	0.0477	1.20	22	96.5	L344513-07	WG360510
Total Xylenes	mg/l	0.151	0.156	3.11	23	101.	L344513-07	WG360510
Lead,Dissolved	mg/l	1.15	1.16	0.866	20	102.	L344644-08	WG360616
Benzene	mg/l	0.0604	0.0566	6.52	21	121.	L344445-03	WG360720
Ethylbenzene	mg/l	0.0591	0.0542	8.69	24	118.	L344445-03	WG360720
Toluene	mg/l	0.0538	0.0500	7.33	22	108.	L344445-03	WG360720
Total Xylenes	mg/l	0.174	0.161	7.69	23	116.	L344445-03	WG360720
Phosphorus,Total	mg/l	3.65	3.78	3.50	20	86.0	L344633-01	WG360750
Phosphorus,Total	mg/l	2.60	2.65	1.90	20	104.	L344830-07	WG360754
Ethylbenzene	mg/l	0.0359	0.0400	10.8	24	71.9	L344798-20	WG360888
Total Xylenes	mg/l	0.106	0.119	11.0	23	70.9	L344798-20	WG360888
Ammonia Nitrogen	mg/l	5.52	5.97	7.83	20	110.	L344644-05	WG360919

Batch number /Run number / Sample number cross reference

WG360287: R369310: L344644-01 02 03 04 05 06 07 08
WG360413: R369565: L344644-01 02 03 04 05 06
WG360510: R369648: L344644-01 03 04 06 07 08

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WG360402: R369874: L344644-02 04
WG360523: R369876: L344644-01 03 06 07 08
WG360720: R370048: L344644-01 02 06 09
WG360616: R370114 R370115: L344644-08 07
WG360908: R370188: L344644-01 02 03 04 06
WG360750: R370264: L344644-01 02 03 04 05
WG360888: R370334: L344644-07
WG360919: R370673: L344644-01 02 03 04 05 06 07 08
WG360754: R370777: L344644-06 07 08
WG360975: R371056: L344644-01 02 04 06
WG360980: R371269: L344644-02 04
WG361369: R371411: L344644-07 08
WG361196: R371449: L344644-07 08
WG361192: R371487: L344644-03
WG361190: R371551: L344644-01 05
WG361191: R371552: L344644-06
WG361194: R371991: L344644-07 08

* * Calculations are performed prior to rounding of reported values .

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Alternate billing information:

Chain of Custody
Page 1 of 1

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Report to: Mr. Eric ~~Vinke~~ Vincke

Email: eric.vincke@rmtinc.com

Project Description: LE Carpenter

City/State Collected: Wharton, NJ

Phone: (616) 975-5415
FAX: (616) 975-1098

Client Project #: 6527.29

Lab Project #: RMTGRMI-652725

Collected by (print): Eric Vincke, Scot Middlebrook

Site/Facility ID#: NJ

P.O.#: 6527.29

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 2 wks

Email? ___No ✓Yes
FAX? ___No ___Yes

Accounts: RMTGRMI (lab use only)
Template/Prelogin: T45685/P242868
Cooler #: [illegible]
Shipped Via: FedEX Standard

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	[illegible]	Meth, Ethane, Ethene 40mlAmb-NoPres	NH3, TKPhos 250mlHDPE-NoPres	Nitrate,Nitrite 125mlHDPE-NoPres	PBDICP 500mlHDPE-NoPres	SO4,TDS 500mlHDPE-NoPres	SV8270RN 1L-Amb-NoPres	TSS 1L-HDPE NoPres	Remarks/Contaminant	Sample # (lab only)
MW-30S	Grab	GW	NA	5/8/08	0951	11	X	X	X	X	X	X	X	X		[illegible]
MW-31S	↓	GW	↓	↓	0730	11	X	X	X	X	X	X	X	X		[illegible]
MW-32S	↓	GW	↓	↓	1305	10	X	X	X	X	X	X	X			[illegible]
MW-33S	↓	GW	↓	↓	0830	11	X	X	X	X	X	X	X	X		[illegible]
MW-34S	↓	GW	↓	↓	0940	4			X	X	X	X				[illegible]
MW-35S	↓	GW	↓	↓	1100	11	X	X	X	X	X	X	X	X		[illegible]
RB-02	↓	GW	↓	↓	1605	11	X	X	X	X	X	X	X	X		[illegible]
RB-03	↓	GW	↓	↓	1615	11	X	X	X	X	X	X	X	X		[illegible]
TB-04	↓	GW	↓	↓	—	1	X									[illegible]

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: All samples field filtered EXCEPT RB-02 + RB-03
RB-02 + RB-03 not preserved, need to be filtered at Lab.

pH _____ Temp _____
Flow _____ Other _____

8654 1657 2859, 8654 1657 2848, 9669 7433 1341,

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
[signature]	5/8/08	1800	FedEx	Temp: 4.4 Bottles Received: 91	COC Seal Intact: X Y N NA
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 5/9/08 Time: 0900	pH Checked: CL NCF:

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SCIENCE CORP.

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Report Summary

Thursday May 22, 2008

Report Number: L346476
Samples Received: 05/08/08
Client Project: 6527.29

Description: LE Carpenter

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Leslie Newton
Leslie Newton, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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11 Samples Reported: 05/21/08 14:26 Revised: 05/22/08 10:58

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-29S

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 07:53

ESC Sample # : L346476-01

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	65.	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-01 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-27S

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 08:35

ESC Sample # : L346476-02

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	>5700	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-02 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-19-7

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 10:19

ESC Sample # : L346476-03

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	52.	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-03 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-19-7 DUPLICATE

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 10:19

ESC Sample # : L346476-04

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	100	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-04 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-19-5

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 11:50

ESC Sample # : L346476-05

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	560	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-05 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-19

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 14:01

ESC Sample # : L346476-06

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	1900	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-06 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

ESC Sample # : L346476-07

Site ID : NJ

Project # : 6527.29

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-30D

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 14:17

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	420	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-07 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

ESC Sample # : L346476-08

Site ID : NJ

Project # : 6527.29

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-30I

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 15:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	23.	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-08 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : DUP-03

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 00:00

ESC Sample # : L346476-09

Site ID : NJ

Project # : 6527.29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	16.	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-09 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

ESC Sample # : L346476-10

Site ID : NJ

Project # : 6527.29

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-28I

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 15:41

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	17.	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-10 (SPC) - subcontracted to Environmental Health Labs

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REPORT OF ANALYSIS

Mr. Eric Vinke
RMT, Inc - Grand Rapids, MI
2025 East Beltline Ave. SE Ste 402
Grand Rapids, MI 49546

May 22, 2008

ESC Sample # : L346476-11

Site ID : NJ

Project # : 6527.29

Date Received : May 08, 2008
Description : LE Carpenter

Sample ID : MW-28S

Collected By : Vincke/Middlebrook
Collection Date : 05/07/08 16:39

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Standard Plate Count	11.	1.0	CFU/ml	9215B	05/08/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/21/08 14:26 Revised: 05/22/08 10:58
L346476-11 (SPC) - subcontracted to Environmental Health Labs

Summary of Remarks For Samples Printed
05/22/08 at 10:58:59

TSR Signing Reports: 044
R5 - Desired TAT

One L# and one Invoice per Project. ln 8/22/07 5035 Only! No E's

Sample: L346476-01 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-02 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-03 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-04 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-05 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-06 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-07 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-08 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-09 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-10 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.
Sample: L346476-11 Account: RMTGRMI Received: 05/08/08 09:30 Due Date: 05/15/08 00:00 RPT Date: 05/21/08 14:26
NJ Red HAZSITE EDD. Samples sent directly to sublab.

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RMT, Inc - Grand Rapids, MI
Mr. Eric Vinke
2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Quality Assurance Report
Level II

L346476

May 22, 2008

Batch number /Run number / Sample number cross reference

WG362365: R373047: L346476-01 02 03 04 05 06 07 08 09 10 11

* * Calculations are performed prior to rounding of reported values .

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RMT, Inc - Grand Rapids, MI
Mr. Eric Vinke
2025 East Beltline Ave. SE Ste 402

Grand Rapids, MI 49546

Quality Assurance Report
Level II

L346476

May 22, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

batch 2[illegible]245

RMT
2025 E. Beltline Ave. SE
Ste. 402
Grand Rapids, MI 29546

Alternate Billing Information
Bill & Report to Environmental Science Corp.

Report to: Mr. Eric ~~Vinke~~ Vincke
Email to: eric.~~vinke~~ vincke@rmtinc.com

Project Description: L.E. Carpenter
City/State Collected: New Jersey
Phone: 616-975-5415
FAX: 616-975-1098
Client Project #: 6527.~~25~~ 29
ESC Key: RMTGRMI-652725
Collected by: Eric Vincke, Scot Middlebrook
Site/Facility ID#:
P.O.#: 6527.29
Collected by (signature): E. Vincke, S. Middlebrook
Packed on Ice N Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed: 2 wks
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative
Heterotrophic Plate Count
To Be Subbed out to Environmental Health Labs.

Chain of Custody Page 1 of 1
Prepared by: 159742

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12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L346476

T41527

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Heterotrophic Plate Count	Remarks/Contaminant	Sample # (lab only)
MW-29S	Grab	GW	184300 2 NA	5/7/08	0753	1	X		-01
MW-27S	Grab	GW	003		0835	1	X		02
MW-19-7 UKt 5/8/08	Grab	GW	004		1019	1	X		03
Duplicate MW-19-7 MS/MSD	Grab	GW	005		1019	1	X		04
MW-19-5	Grab	GW	006		1150	1	X		05
MW-19	Grab	GW	007		1401	1	X		06
MW-30D	Grab	GW	008		1417	1	X		07
MW-30I	Grab	GW	009		1543	1	X		08
DUP-03	Grab	GW	010		—	1	X		09

CLIENT PROVIDED SAMPLE CONTAINER

Procedu[illegible] outside. Client wi[illegible]fied.

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____ UKt 5/8/08
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
E. Vincke	5/7/08	1900	FedEx [illegible]
Relinquished by: (Signature) [illegible]	Date:	Time:	Received by: (Signature) [illegible]
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [illegible] Date: 5/8/08 Time: 0930

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____

Temp | Bottles Received | Condition | Cooler Custody Seals | Sample Custody Seals | Total Bottles | Lab Use Only | Date | Time | pH Checked | NaOH | Lot #

RMT
2025 E. Beltline Ave. SE
Ste. 402
Grand Rapids, MI 29546

Alternate Billing Information

Bill & Report to Environmental Science Corp.

Report to: Mr. Eric ~~Vinke~~ Vincke

Email to: eric.~~vinke~~ vincke@rmtinc.com

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

L346476

Project Description: L.E. Carpenter

City/State Collected: New Jersey

Phone: 616-975-5415
FAX: 616-975-1098

Client Project #: 6527.~~28~~ 29

ESC Key: RMTGRMI-652725

Collected by: Eric Vincke, Scot Middlebrook

Site/Facility ID#:

P.O.#: 6527.29

Collected by (signature): E. [signature] S. Middlebrook

Packed on Ice N Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed: 2 wks

Email? __No ✓Yes

FAX? ✓No __Yes

Electronic Data Deliv. To Be Subbed out to Environmental Health Labs.

Temp Receipt: 14.15 21

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
MW-28I	Grab	GW	NA	5/7/08	1541	1	1541 (Time)	10
MW-28S	Grab	GW	NA	5/7/08	1639	1		11
	Grab	GW						
	Grab	GW						
	Grab	GW						
	Grab	GW						
	Grab	GW						
	Grab	GW						
	Grab	GW						

CLIENT PROVIDED SAMPLE CONTAINER

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐
E. [signature]	5/7/08	1900	FedEx [redacted]	
Relinquished by: (Signature) [redacted]	Date:	Time:	Received by: (Signature) [redacted]	Temp: Bottles Received:
Relinquished by: (Signature) [redacted]	Date:	Time:	Received for lab by: (Signature) [illegible]	Date: Time:

the standard in safety

L3464776

Underwriters Laboratories

Laboratory Report

Client: Environmental Science

Attn: Janice Cozby
12065 Lebanon Road
Mt. Juliet, TN 37122

Copies to: None

Report: 203245
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

UL ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
1843002	MW-29S	9215 B	05/07/08 07:53	Client	05/08/08 09:30
1843003	MW-27S	9215 B	05/07/08 08:35	Client	05/08/08 09:30
1843004	MW-19-7	9215 B	05/07/08 10:19	Client	05/08/08 09:30
1843005	MW-19-7-Dup	9215 B	05/07/08 10:19	Client	05/08/08 09:30
1843006	MW-19-5	9215 B	05/07/08 11:50	Client	05/08/08 09:30
1843007	MW-19	9215 B	05/07/08 14:01	Client	05/08/08 09:30
1843008	MW-30D	9215 B	05/07/08 14:17	Client	05/08/08 09:30
1843009	MW-30I	9215 B	05/07/08 15:43	Client	05/08/08 09:30
1843010	Dup-03	9215 B	05/07/08 00:00	Client	05/08/08 09:30
1843011	MW-28I	9215 B	05/07/08 15:41	Client	05/08/08 09:30
1843012	MW-28S	9215 B	05/07/08 16:39	Client	05/08/08 09:30

Report Summary

Project: L.E. Carpenter

Note: The samples submitted for analysis from sites MW-29S and MW-27S were received beyond the twenty-four hour holding time. The samples submitted for analysis from sites MW-19-7, MW-19-7 Dup, MW-19-5, MW-19, MW-30D and Dup-03 were analyzed beyond the twenty-four hour holding time. The client was notified of the situation.

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from Underwriters Laboratories (UL).

Kelly Trott
Authorized Signature

Project Manager
Title

5/19/2008
Date

Client Name: Environmental Science
Report #: 203245

Underwriters Laboratories Inc.
110 S. Hill Street, South Bend, IN 46617-2702 USA
T:: 800.332.4345 / F:: 574.233.8207 / W:: ul.com

Client Name: Environmental Science

Report #: 203245

Sampling Point: MW-29S

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	65	cfu/ml	—	05/08/08 14:20	1843002

Sampling Point: MW-27S

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	> 5700	cfu/ml	—	05/08/08 14:20	1843003

Sampling Point: MW-19-7

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	52	cfu/ml	—	05/08/08 14:21	1843004

Sampling Point: MW-19-7-Dup

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	100	cfu/ml	—	05/08/08 14:21	1843005

Sampling Point: MW-19-6

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	560	cfu/ml	—	05/08/08 14:21	1843006

Client Name: Environmental Science

Report #: 203245

Sampling Point: MW-19

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	1900	cfu/ml	—	05/08/08 14:22	1843007

Sampling Point: MW-30D

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	420	cfu/ml	—	05/08/08 14:22	1843008

Sampling Point: MW-30I

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	23	cfu/ml	—	05/08/08 14:22	1843009

Sampling Point: Dup-03

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	16	cfu/ml	—	05/08/08 14:23	1843010

Sampling Point: MW-28I

PWS ID: Not Supplied

Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
—	Heterotrophic Plate Count	9215 B	—	1	17	cfu/ml	—	05/08/08 14:23	1843011

Client Name: Environmental Science

Report #: 203245

Sampling Point: MW-28S

PWS ID: Not Supplied

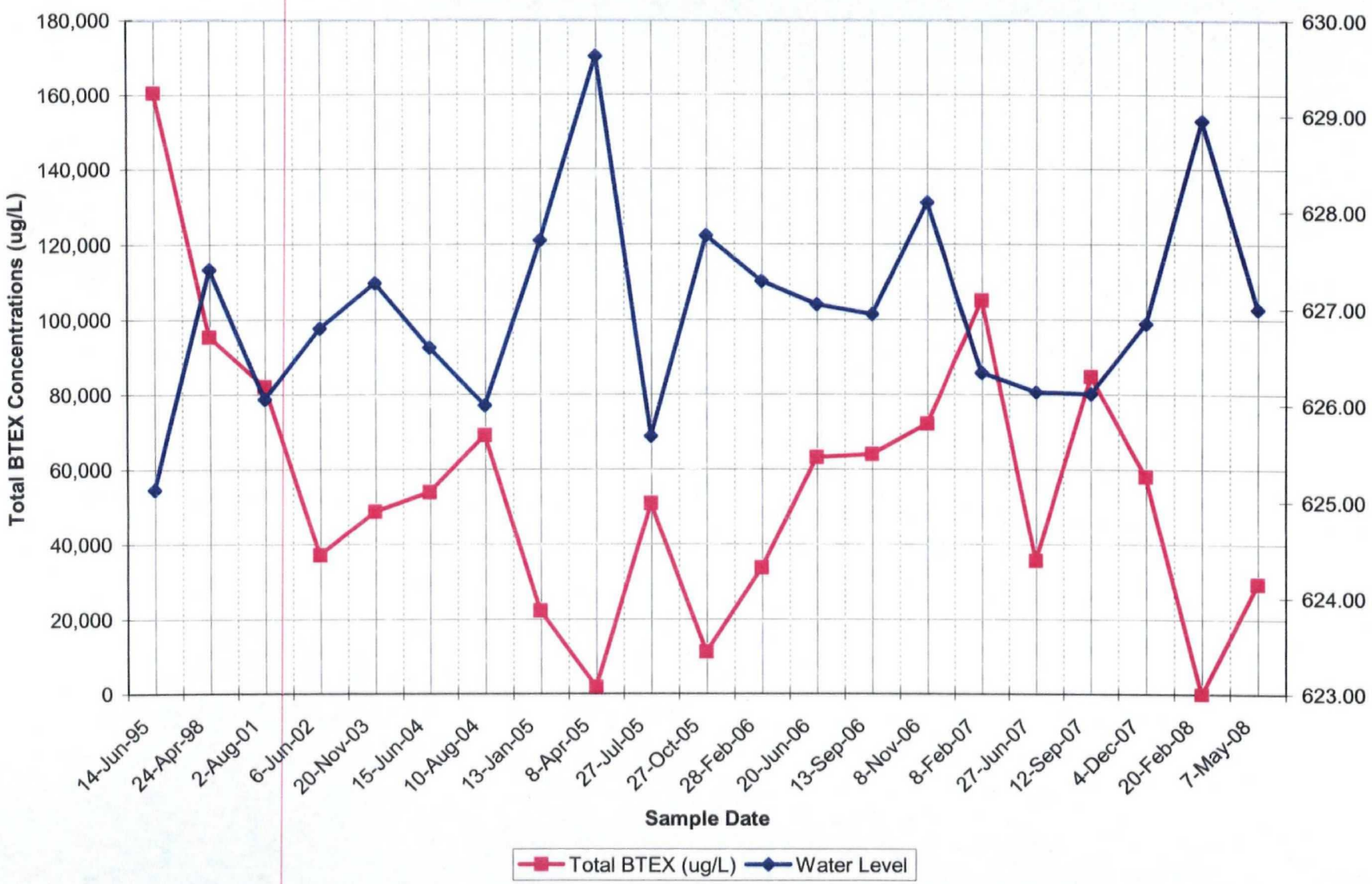
Microbiology									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	UL ID #
---	Heterotrophic Plate Count	9215 B	---	1	11	cfu/ml	---	05/08/08 14:23	1843012

† UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

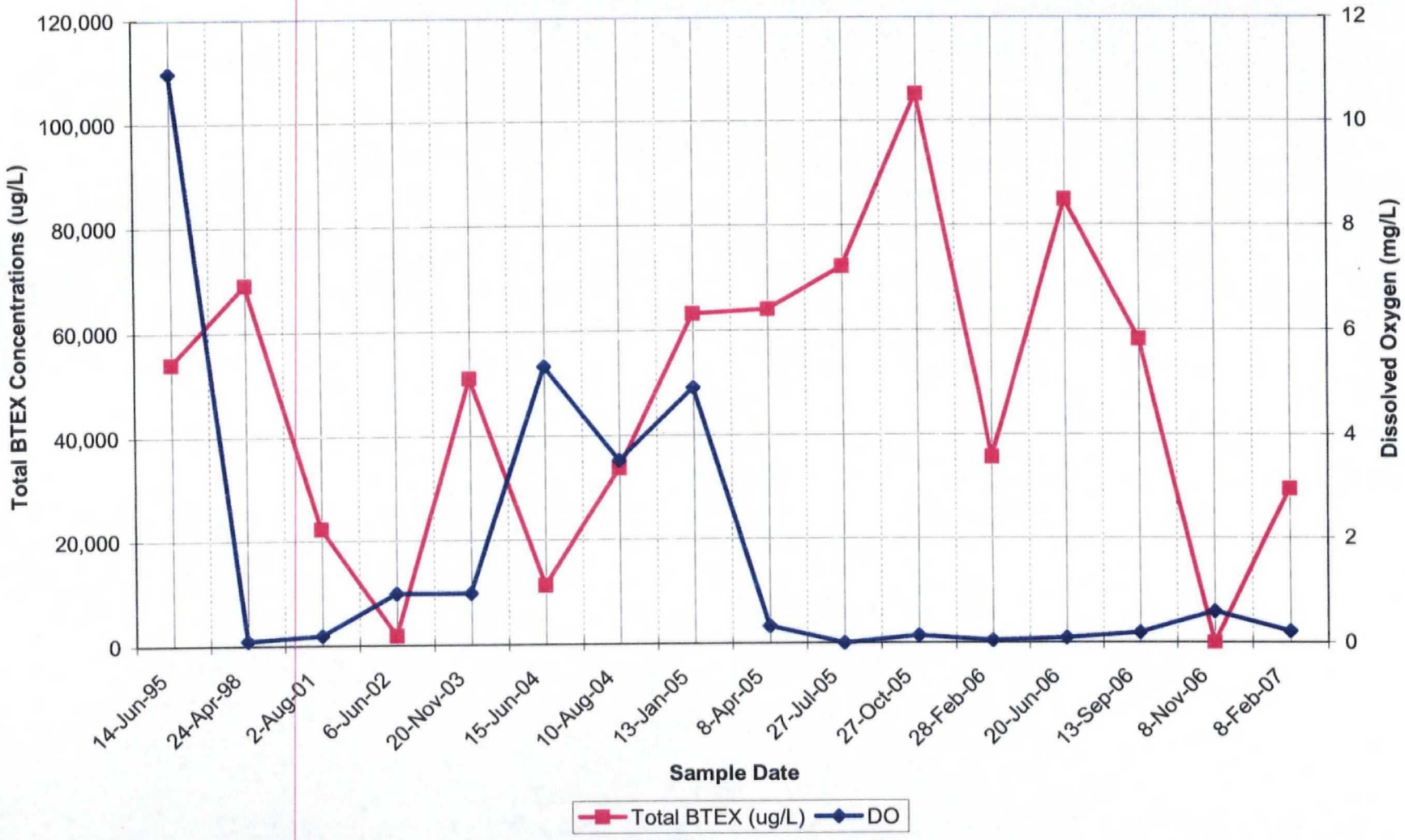
Appendix D
BTEX Concentration Trend Charts

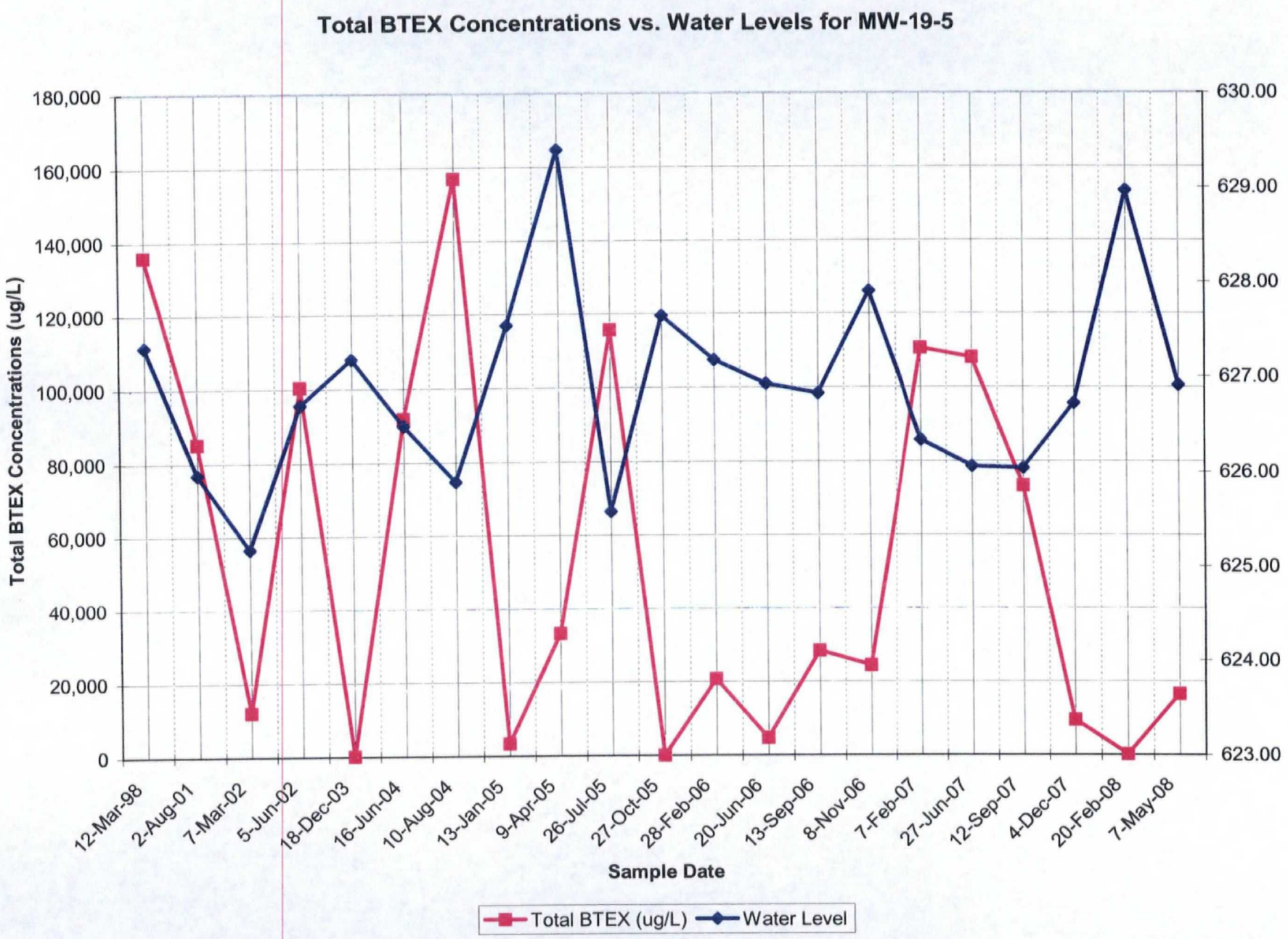
Total BTEX Concentrations vs. Water Levels for MW-19



I:\WPGRM\PJT\00-06527\29\2Q08\Trend Charts.xls 8/19/2008

Total BTEX Concentrations vs. Dissolved Oxygen for MW-19





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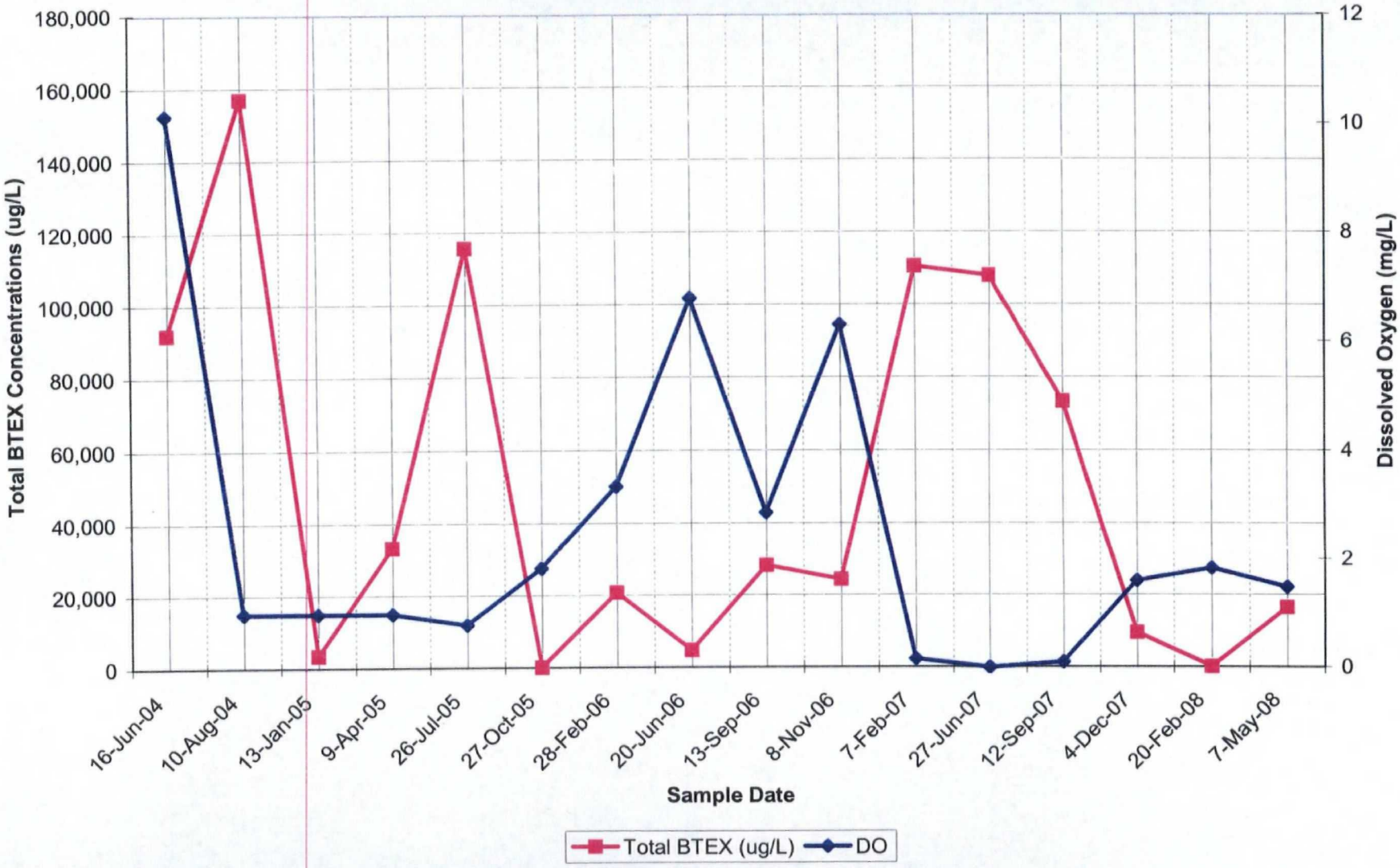
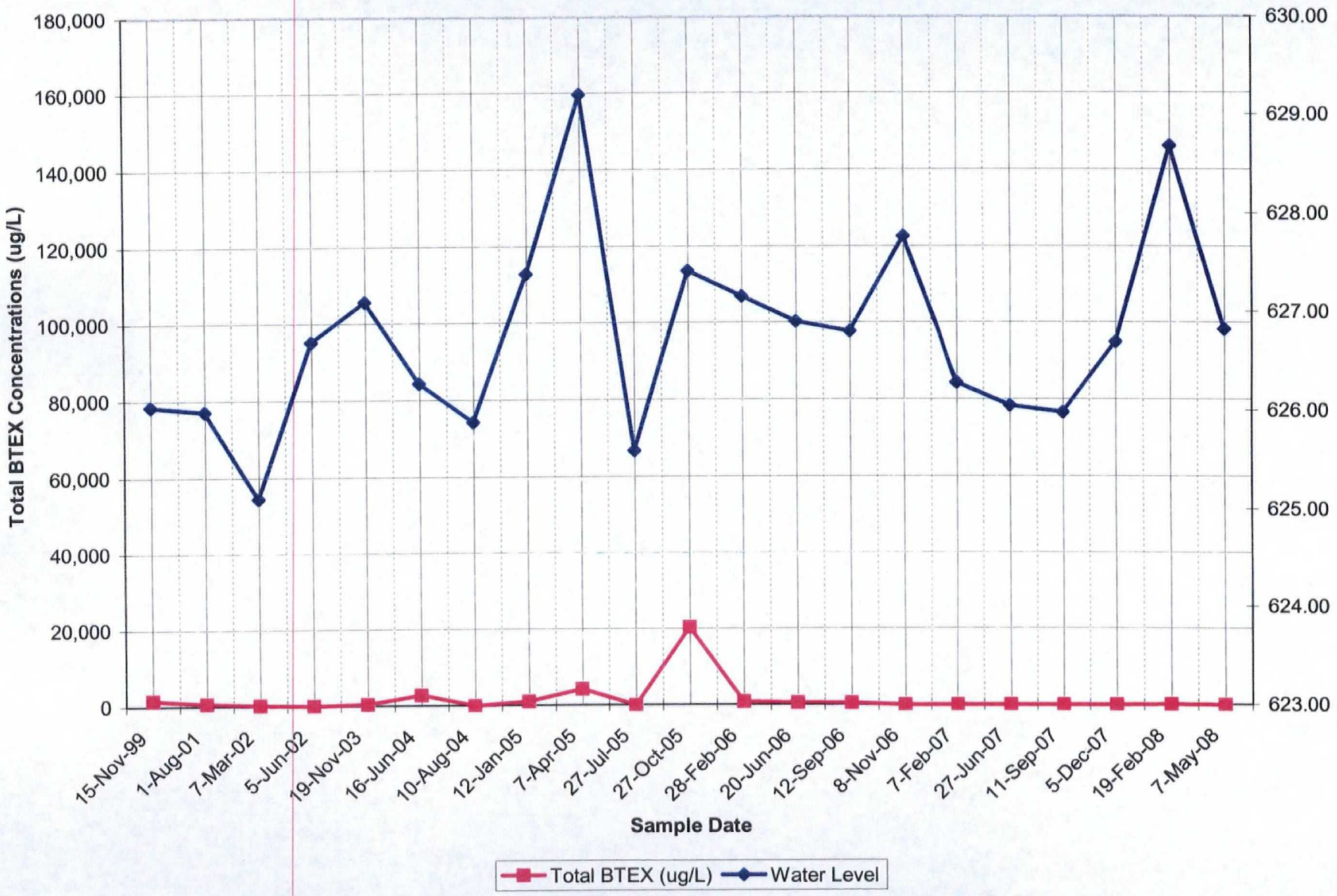
Total BTEX Concentrations vs. Dissolved Oxygen for MW-19-5



Total BTEX Concentrations vs. Water Levels for MW-19-7



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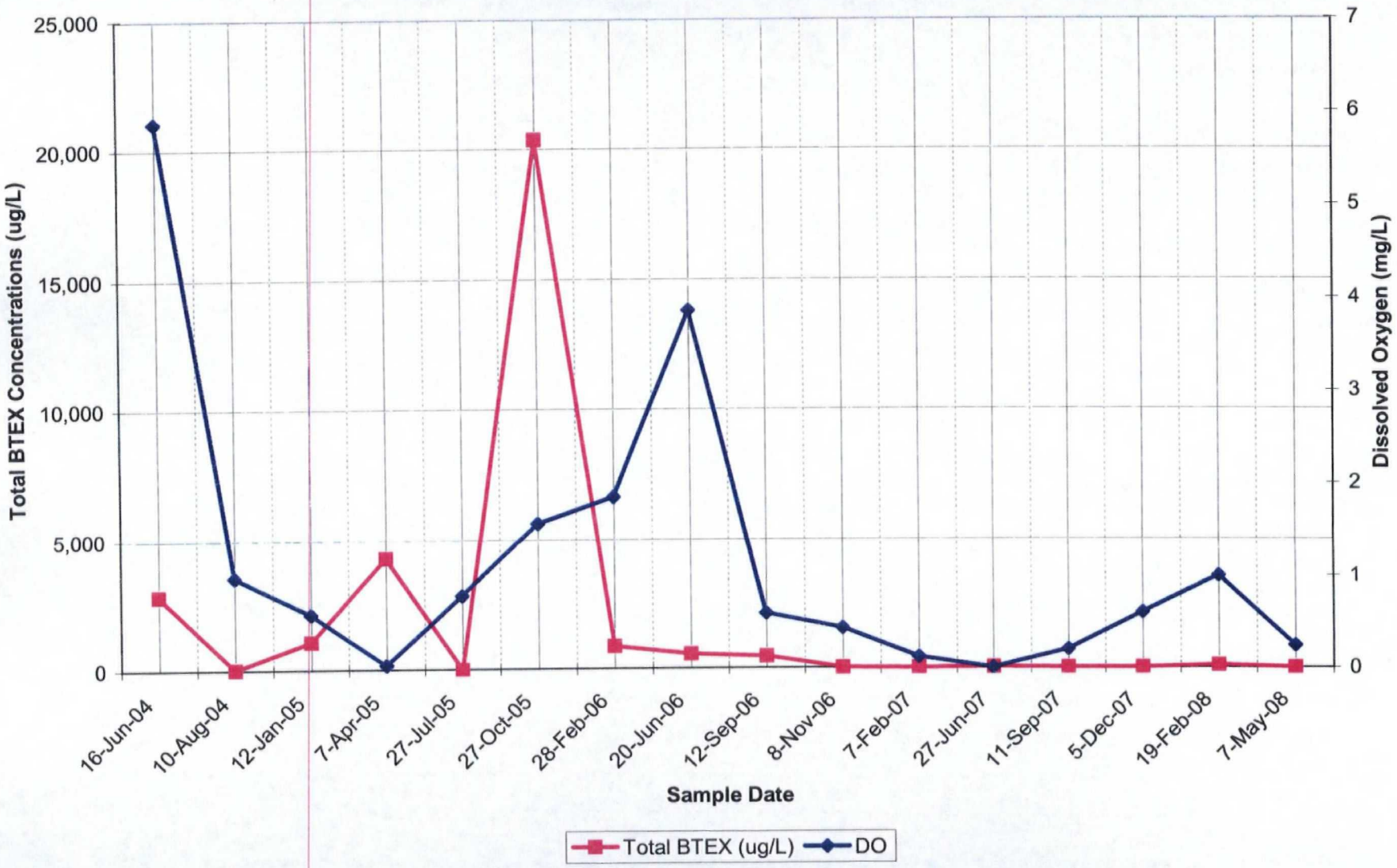
Total BTEX Concentrations vs. Dissolved Oxygen for MW-19-7



Appendix E
Boring Logs and Well Construction Diagrams

June 2006 Source Area Well Installations

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-27s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter	6/7/06	6/7/06	6527.23

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	15.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - E. Vincke Driller - J. Drabek	Minisonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Wharton	Morris	NJ	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time 6/8/06 00:00 ▼ Depth (ft bgs) 6.05

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Topsoil- mostly very fine sand, some silt, organic, dry, loose, very dark gray (2.5Y3/1).				.1	
1 CS	57			**Sand**- mostly very fine sand, little fine sand and clay, trace coarse sand, loose, no odor, dry, dark yellow brown (10YR4/6).	SP				
				Fill- mostly fine sand, some medium sand, little coarse sand, dry, loose, no odor, black (10YR2/1).				2	
			5	▼					
2 CS	63			**Sand**- mostly very fine sand, some clay, trace cobble, wet, no odor, nonplastic, loose, black (10YR2/1).	SP			4.1	
				Sand- mostly medium sand, some fine and coarse sand, little gravel, trace cobble, moist, loose, no odor, dark yellow brown (10YR4/6).	SW			3.8	
			10	Large cobble with broken stone and dust.					
3 CS	58			**Sand**- mostly very fine sand, some clay and silt, little cobbles and gravel, nonplastic, no odor, moist, dark gray (2.5Y3/1).	SP			.8	
4 CS	100			**Sand**- mostly very fine sand, some silt and clay, trace coarse sand and gravel, wet, loose, no odor, low plasticity, light olive brown (2.5 Y5/3).	SP			0 0	
			15	End of Boring 15.0'.					
			20						
			25						

SOIL BORING WELL CONSTRUCTION LOG 6-8-06.GPJ RMT_CORP.GDT 6/26/08

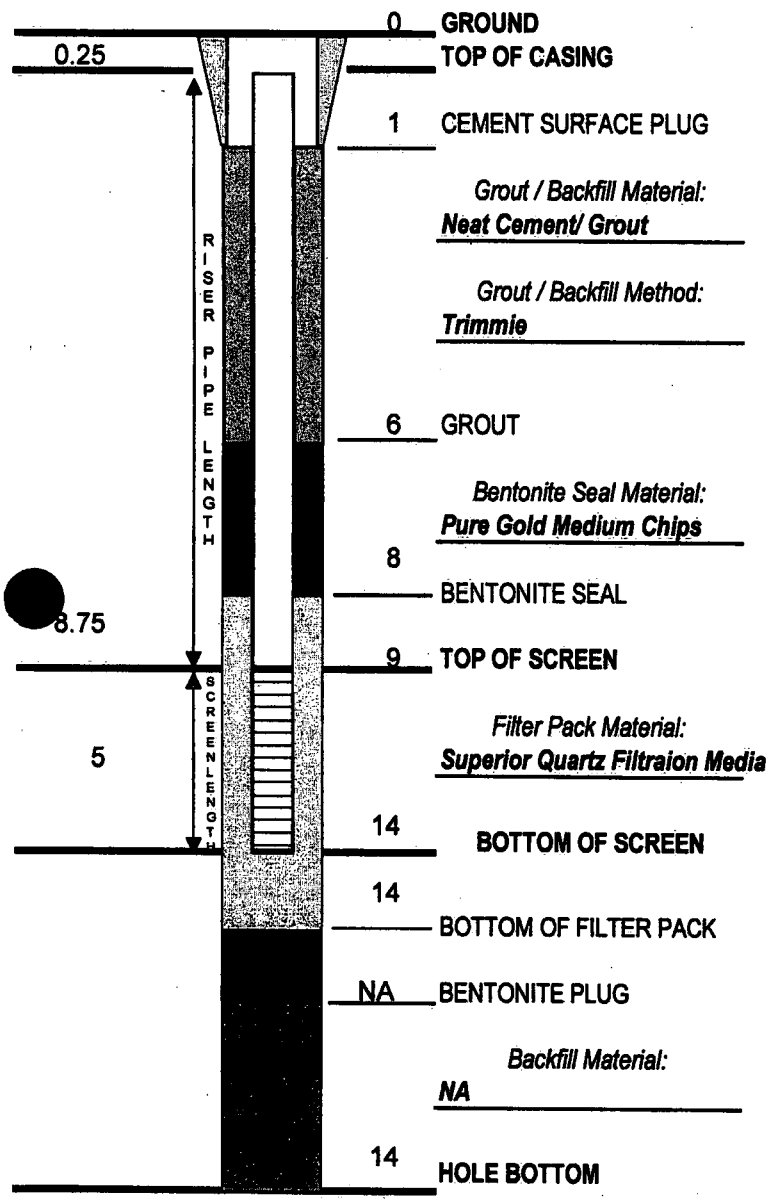
Signature:

Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI Fax 616-975-1098

Checked By: _____

RMT	WELL CONSTRUCTION DIAGRAM BELOW GROUND		SHEET of
			DATE: 6/7/06
PROJECT: L.E. Carpenter			PROJECT NO: 6527.23
LOCATION: Background Well by Main St.		WELL NUMBER: MW- 27s	DATE INSTALLED: June 7, 2006
OPERATOR BY: E. Vincke		CHECKED BY:	SIGNED:

ELEVATION (BENCHMARK: USGS)	DISTANCE BELOW OR ABOVE GROUND (FT.)



NOTES:

Sand- 2 bags
Holeplug- 0.75 bags
3 [illegible]p on bottom of screen

1. CASING AND SCREEN DETAILS:

A) Type of pipe: SS Type 304 Pipe Schedule: 10s

B) Pipe Joints: Threaded O-Ring

C) Solvent Used? None

D) Screen Type: SS Screen Slot Size: 0.01

E) Borehole Diameter:
6 In. from 0 To 14 Ft.
___ In. from ___ To ___ Ft.

F) Surf. Casing Diameter
8 In. from 0 To 1 Ft.

2nd Surf. Casing:
___ In. from ___ To ___ Ft.

G) Installed Protective Cover w/Lock? Yes

2. WELL DEVELOPMENT:

A) Method: Purge and Surge

B) Time spent developing: 0.8 Hrs.

C) Water: Removed: 10
Added: 20

D) Water Clarity Before / After Development:
Before: V. Trub., Yellowish Brown
After: V. Trub., Yellowish Brown

F) Odor (Describe if present):

3. WATER LEVEL SUMMARY:

A) After Developing: 6.3 Ft. Below Top of Casing

B) Other Date / Time: 6/19/06 8.59 Ft.
Other Date / Time: ___ Ft.

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-28s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter	6/6/06	6/6/06	6527.23

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	15.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - E. Vincke Driller - J. Drabek	Minisonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Wharton	Morris	NJ	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time 6/8/06 00:00 Depth (ft bgs) 2.02

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
1 CS	72			**Sand**- mostly very fine sand, little coarse sand and gravel, some silt and clay, loose, wet, no odor, very dark gray brown (10YR3/2).	SP				
				Fill- mostly very fine sand, little coarse sand and gravel, few clay, trace medium sand and cobble, moist, chemical odor, nonplastic, dark gray (5Y4/1).				10	Slurry Monolith, hard drilling.
			5	Slough from top 18.0".					
2 CS	57			**Sand**- mostly very fine sand, little coarse sand and gravel, few clay, trace medium sand and cobble, wet, chemical odor, nonplastic, dark gray (5Y4/1).	SW			20 40	
			10	**Sand**- mostly medium sand, some coarse sand and gravel, little fine sand, trace cobbles, loose, saturated, chemical odor, dark olive gray (5Y3/2).					
3 CS	43				SW			50 90	
			15	End of Boring 15.0'.					
			20						
			25						

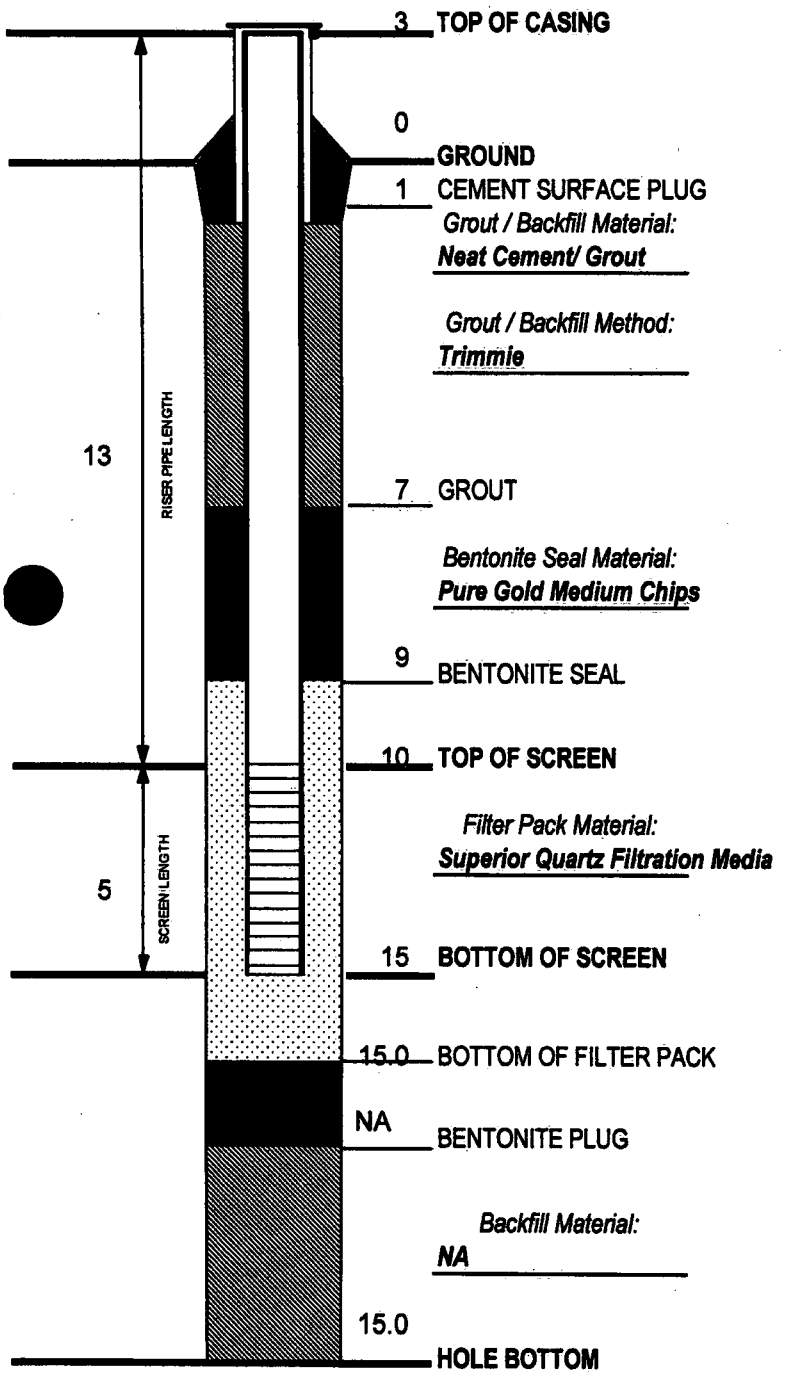
SOIL BORING WELL CONSTRUCTION LOG 6-8-06.GPJ RMT_CORP.GDT 6/25/08

Signature:	Firm: Grand Rapids 2025 E. Beltline Ave. Ste 402 Grand Rapids, MI	616-975-5415 Fax 616-975-1098

Checked By: _____

RMT	WELL CONSTRUCTION DIAGRAM ABOVE GROUND		SHEET of	
			DATE: 6/6/06	
PROJECT:	L.E. Carpenter		PROJECT NO: 6527.23	
LOCATION:	Middle of site	WELL NUMBER: MW- 28s		DATE INSTALLED: June 06, 2006
OBSERVED BY:	E. Vincke	CHECKED BY: J. Dexter		SIGNED:

ELEVATION (BENCHMARK: USGS)	DISTANCE BELOW OR ABOVE GROUND (FT.)



NOTES:

Sand- 2 bags

Holeplug- 0.5 bags

3" sump on bottom of screen.

1. CASING AND SCREEN DETAILS:

A) Type of pipe: SS Type 304 — Pipe Schedule: 10s

B) Pipe Joints: Threaded O-Ring

C) Solvent Used? None

D) Screen Type: SS — Screen Slot Size: 0.01

E) Borehole Diameter:
6 In. from 0 To 15.0 Ft.
___ In. from ___ To ___ Ft.

F) Surf. Casing Diameter
5 In. from 3 To -2 Ft.
2nd Surf. Casing:
___ In. from ___ To ___ Ft.

G) Installed Protective Cover w/Lock? Yes

2. WELL DEVELOPMENT:

A) Method: Purge and Surge

B) Time spent developing: 1 Hrs.

C) Water: Removed: 50 Added: 20

D) Water Clarity Before / After Development:
Before: V. Turb, Dark Gray Brown
After: Clear, Clear

F) Odor (Describe if present): Yes, (very Strong)

3. WATER LEVEL SUMMARY:

A) Before Developing: 5.02 Ft. Below Top of Casing

B) After Developing: 6/19/06 5.52 Ft.
Other Date / Time: ___ Ft.

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-28i

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter	6/6/06	6/6/06	6527.23

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		—	20.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - E. Vincke Driller - J. Drabek	Minisonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Wharton	Morris	NJ	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time 6/8/06 00:00 ▼ Depth (ft bgs) 1.9

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
1 CS	98			**Sand**- mostly very fine sand, little coarse sand and gravel, some silt and clay, loose, wet, no odor, very dark gray brown (10YR3/2). ▼	SP			0.7	
				Fill- mostly very fine sand, little coarse sand and gravel, few clay, trace medium sand and cobble, moist, chemical odor, nonplastic, dark gray (5Y4/1).				8.6 16.5 70.3 120	Slurry Monolith, hard drilling.
			5	Slough from 0-2' bgs zone.				62.4 32.6	
2 CS	73			**Sand**- mostly very fine sand, little coarse sand and gravel, few clay, trace medium sand and cobble, wet, chemical odor, nonplastic, dark gray (5Y4/1).	SW			250 3460	
3 CS	37		10	**Sand**- mostly medium sand, some coarse sand and gravel, little fine sand, trace cobbles, loose, saturated, chemical odor, dark olive gray (5Y3/2).	SW			180 35 60 32	
4 CS	7		15	**Sand**- mostly fine sand, some medium sand, little coarse sand and gravel, trace cobbles, loose, saturated, no odor.	SW			28.4	
			20	End of Boring 20.0'.					
			25						

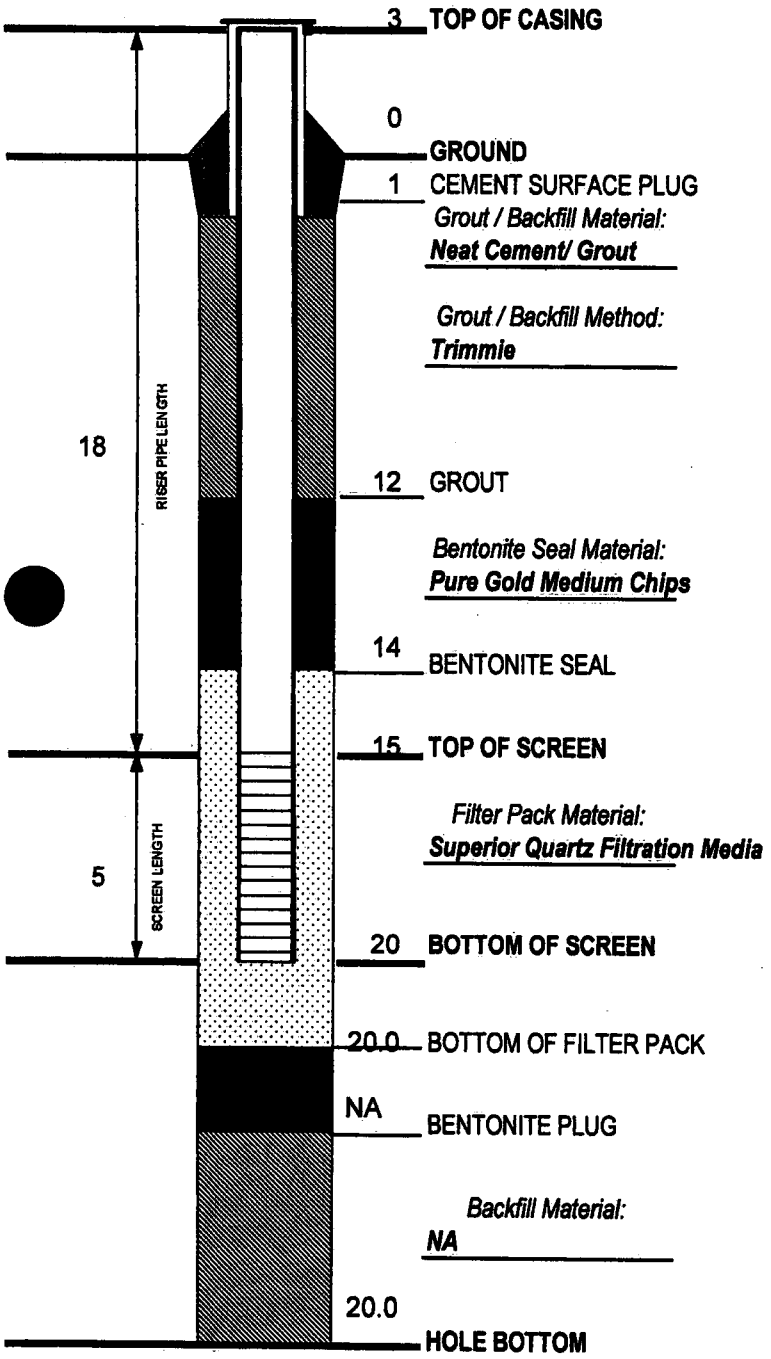
SOIL BORING WELL CONSTRUCTION LOG 6-6-06.GPJ RMT_CORP.GDT 8/18/08

Signature:	Firm: Grand Rapids 2025 E. Beltline Ave. Ste 402 Grand Rapids, MI	616-975-5415 Fax 616-975-1098

Checked By: J. Dexter

RMT	WELL CONSTRUCTION DIAGRAM ABOVE GROUND		SHEET of	
			DATE: 6/6/06	
PROJECT:	L.E. Carpenter		PROJECT NO: 6527.23	
LOCATION:	Middle of site	WELL NUMBER:	MW- 28i	DATE INSTALLED: June 06, 2006
OBSERVED BY:	E. Vincke	CHECKED BY:	J. Dexter	SIGNED:

ELEVATION (BENCHMARK: USGS)	DISTANCE BELOW OR ABOVE GROUND (FT.)



1. CASING AND SCREEN DETAILS:

A) Type of pipe: SS Type 304 Pipe Schedule: 10s

B) Pipe Joints: Threaded O-Ring

C) Solvent Used? None

D) Screen Type: SS Screen Slot Size: 0.01

E) Borehole Diameter:
6 In. from 0 To 20.0 Ft.
___ In. from ___ To ___ Ft.

F) Surf. Casing Diameter
5 In. from 3 To -2 Ft.
2nd Surf. Casing:
___ In. from ___ To ___ Ft.

G) Installed Protective Cover w/Lock? Yes

2. WELL DEVELOPMENT:

A) Method: Purge and Surge

B) Time spent developing: 1 Hrs.

C) Water: Removed: 50
Added: 30

D) Water Clarity Before / After Development:
Before: V. Turb, Dark Gray Brown
After: Clear, Clear

F) Odor (Describe if present): None

3. WATER LEVEL SUMMARY:

A) Before Developing: 4.90 Ft. Below Top of Casing

B) After Developing: 6/19/06 5.35 Ft.
Other Date / Time: ___ Ft.

NOTES:
Sand- 2 bags
Holeplug- 0.5 bags
3" sump on bottom of screen.

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-29s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter	6/6/06	6/6/06	6527.23

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		—	13.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - E. Vincke Driller - J. Drabek	Minisonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Wharton	Morris	NJ	While Drilling: Date/Time 6/6/06 00:00 ▽ Depth (ft bgs) 7.5 After Drilling: Date/Time 6/7/06 00:00 ▼ Depth (ft bgs) 3.9

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Asphalt					
1 CS	65			**Sand**- mostly fine sand, some very fine sand, little silt, trace coarse sand and cobble, moist, no odor, loose, yellow brown (10YR5/4).	SW			0	
				Silt- mostly silt, little clay, few fine sand, trace, gravels and cobbles, moist, non plastic, no odor, black (10YR2/1). ▼	ML			0	
			5					.4 .7	
2 CS	83			▽ **Sand**- mostly fine sand, some medium sand, trace coarse sand, gravel, cobble, and clay, moist loose, no odor, dark gray (2.5YR4/1).	SW			.7	
3 CS	90		10	**Sand**- mostly fine sand, some medium sand, little silt, gravel, cobble, trace coarse sand and clay, wet, loose, no odor, nonplastic, light olive brown (2.5YR5/3).	SW			.7 .6 .7	
				End of Boring 13.0".					
			15						
			20						
			25						

SOIL BORING WELL CONSTRUCTION LOG 6-8-06.GPJ RMT_CORP.GDT 6/25/08

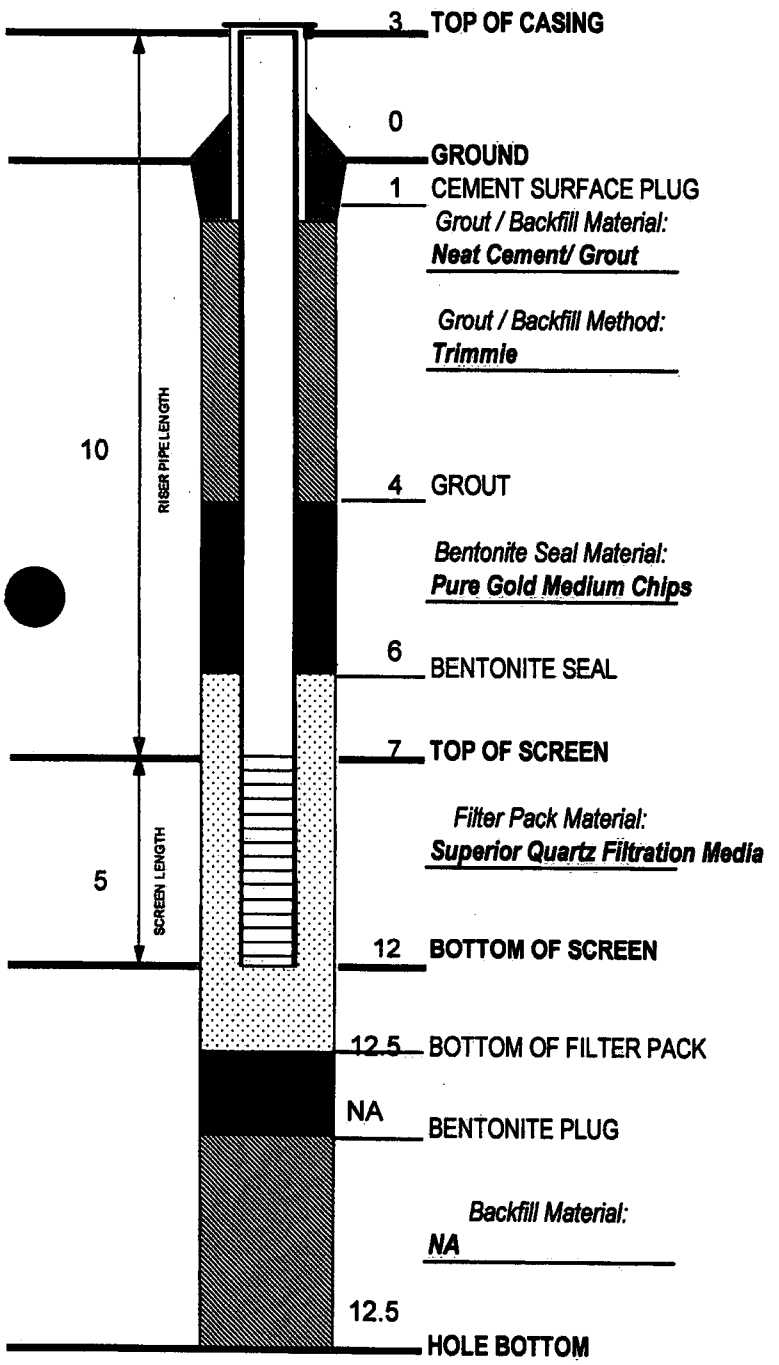
Signature:

Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI Fax 616-975-1098

Checked By: _____

RMT	WELL CONSTRUCTION DIAGRAM ABOVE GROUND		SHEET of	
			DATE: 6/6/06	
PROJECT:	L.E. Carpenter		PROJECT NO: 6527.23	
LOCATION:	Along drainage ditch	WELL NUMBER:	MW- 29s	DATE INSTALLED: June 06, 2006
OBSERVER:	E. Vincke	CHECKED BY:	J. Dexter	SIGNED:

ELEVATION (BENCHMARK: USGS)	DISTANCE BELOW OR ABOVE GROUND (FT.)



1. CASING AND SCREEN DETAILS:

A) Type of pipe: SS Type 304 Pipe Schedule: 10s

B) Pipe Joints: Threaded O-Ring

C) Solvent Used? None

D) Screen Type: SS Screen Slot Size: 0.01

E) Borehole Diameter:
6 In. from 0 To 12.5 Ft.
___ In. from ___ To ___ Ft.

F) Surf. Casing Diameter
5 In. from 3 To -2 Ft.
2nd Surf. Casing:
___ In. from ___ To ___ Ft.

G) Installed Protective Cover w/Lock? Yes

2. WELL DEVELOPMENT:

A) Method: Purge and Surge

B) Time spent developing: 1 Hrs.

C) Water: Removed: 50
Added: 30

D) Water Clarity Before / After Development:
Before: V. Turb, Dark Gray Brown
After: Cloudy, Clear- Cloudy

F) Odor (Describe if present): None

3. WATER LEVEL SUMMARY:

A) Before Developing: 6.90 Ft. Below Top of Casing

B) After Developing: 6/19/06 7.15 Ft.
Other Date / Time: ___ Ft.

NOTES:
Sand- 2 bags
Holeplug- 0.75 bags
3" sump on bottom of screen.

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-30s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter	6/6/06	6/6/06	6527.23

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		—	10.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - E. Vincke Driller - J. Drabek	Minisonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Wharton	Morris	NJ	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time 6/7/06 00:00 Depth (ft bgs) -.7

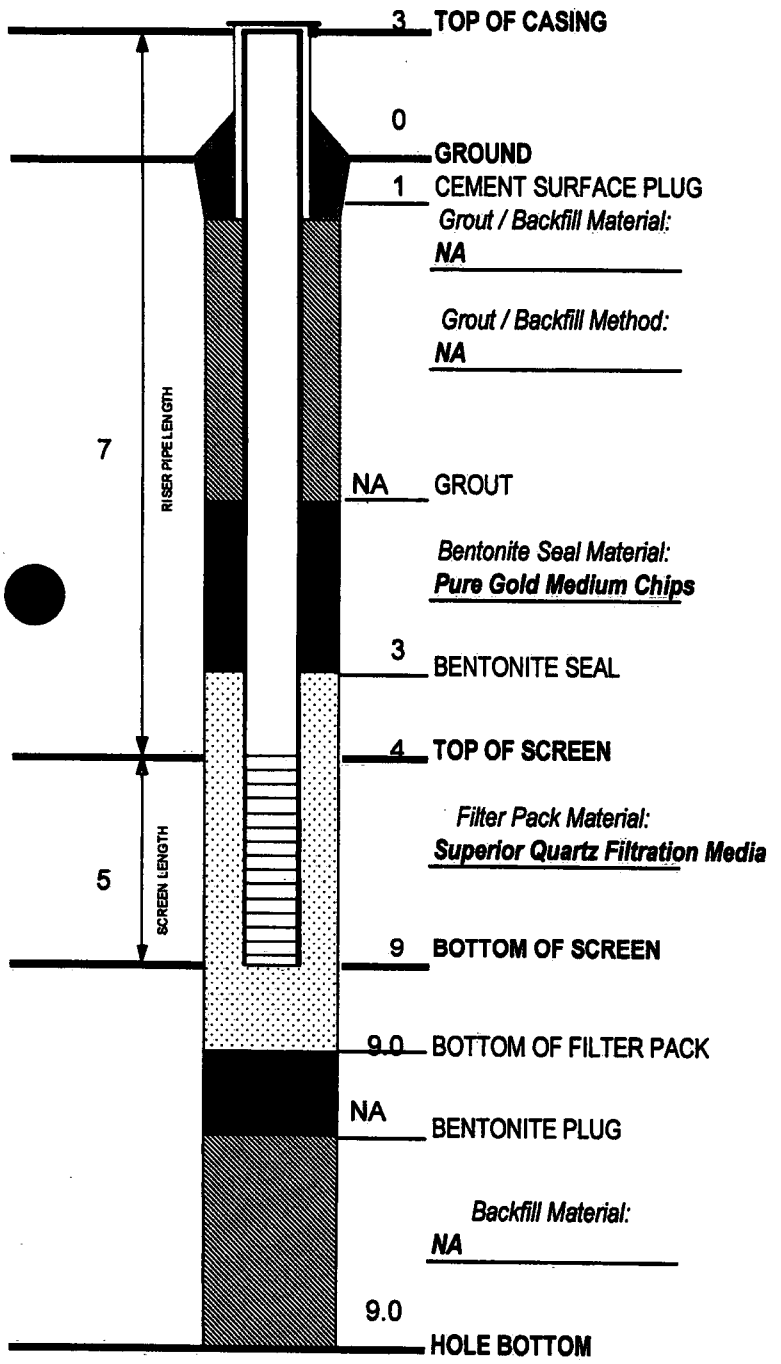
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
1 CS	100			**Sand**- mostly very fine sand, little medium sand, some clay, saturated, soft, nonplastic, no odor, very dark gray (2.5YR3/1).	SW				
				Fill- mostly cobbles, some medium sand, little coarse sand and gravel, dry, chemical odor, loose.				43 67 71	Slurry Monolith, hard drilling.
2 CS			5	**Sand**- mostly medium sand, some coarse sand, little gravel, loose, saturated, cobbles, no odor.	SW			120 86	
			10	End of Boring 10.0'.					
			15						
			20						
			25						

Signature:	Firm: Grand Rapids 2025 E. Beltline Ave. Ste 402 Grand Rapids, MI	616-975-5415 Fax 616-975-1098

Checked By: _____

RMT	WELL CONSTRUCTION DIAGRAM ABOVE GROUND		SHEET of	
			DATE: 6/6/06	
PROJECT:	L.E. Carpenter		PROJECT NO: 6527.23	
LOCATION:	Along drainage ditch	WELL NUMBER: MW- 30s	DATE INSTALLED:	June 06, 2006
OBY:	E. Vincke	CHECKED BY: J. Dexter	SIGNED:	

ELEVATION (BENCHMARK: USGS)	DISTANCE BELOW OR ABOVE GROUND (FT.)



1. CASING AND SCREEN DETAILS:

A) Type of pipe: SS Type 304 Pipe Schedule: 10s

B) Pipe Joints: Threaded O-Ring

C) Solvent Used? None

D) Screen Type: SS Screen Slot Size: 0.01

E) Borehole Diameter:
6 In. from 0 To 9.0 Ft.
In. from To Ft.

F) Surf. Casing Diameter
5 In. from 3 To -2 Ft.
2nd Surf. Casing:
In. from To Ft.

G) Installed Protective Cover w/Lock? Yes

2. WELL DEVELOPMENT:

A) Method: Purge and Surge

B) Time spent developing: 0.8 Hrs.

C) Water: Removed: 35
Added: 10

D) Water Clarity Before / After Development:
Before: V. Turb, Dark Gray Brown
After: Cloudy, Cloudy

F) Odor (Describe if present): Yes (strong)

3. WATER LEVEL SUMMARY:

A) Before Developing: 2.33 Ft. Below Top of Casing

B) After Developing: 6/19/06 2.68 Ft.
Other Date / Time: Ft.

NOTES:
Sand- 2 bags
Holeplug- 1.5 bags
3" sump on bottom of screen.

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW30i

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter	6/6/06	6/6/06	6527.23

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		—	15.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - E. Vincke Driller - J. Drabek	Minisonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Wharton	Morris	NJ	While Drilling: Date/Time 6/6/06 00:00 Depth (ft bgs) 5 After Drilling: Date/Time 6/7/06 00:00 Depth (ft bgs) -.7

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
1 CS	79			**Sand**- mostly very fine sand, little medium sand, some clay, saturated, soft, nonplastic, no odor, very dark gray (2.5YR3/1).	SW			30	Slurry Monolith, hard drilling.
				Fill- mostly fine sand, some medium and coarse sand, little gravel, few cobbles, dry, loose, chemical odor, light gray (10YR7/1) with a 6" very pale brown (10YR7/3) seem through the middle.				70 61	
2 CS	71		5	**Sand**- mostly very fine sand, trace coarse sand, some silt and clay, trace cobble, nonplastic, very slight odor, wet, soft, organic material, dark gray brown (10YR4/2).	SP			10 9	
3 CS	10		10	**Sand**- mostly fine sand, little gravel and clay, trace cobbles, coarse and medium sand, saturated, loose, nonplastic, very slight odor, dark green gray (Gley1 4/1).	SW			9	
			15	End of Boring 15.0'.					
			20						
			25						

SOIL BORING WELL CONSTRUCTION LOG 6-6-06.GPJ RMT_CORP.GDT 6/25/08

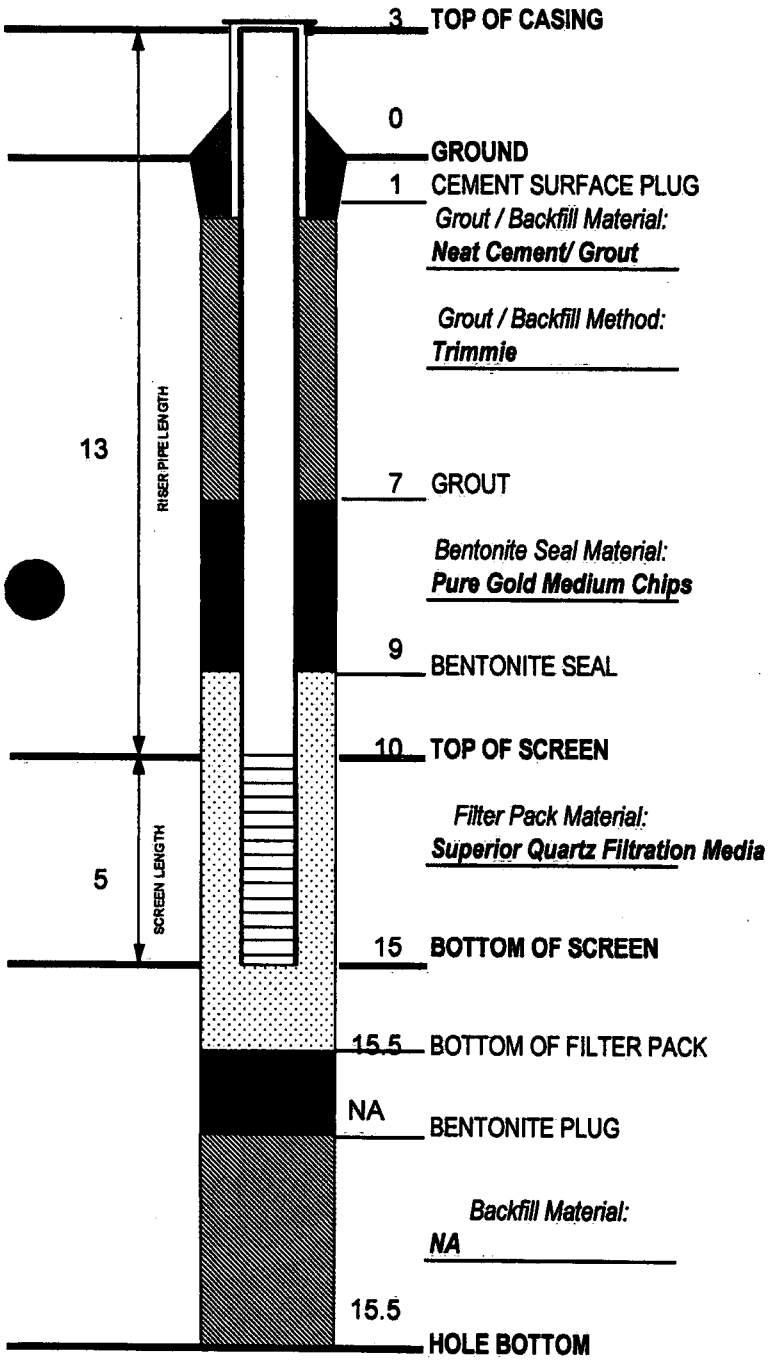
Signature:

Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI Fax 616-975-1098

Checked By: _____

RMT	WELL CONSTRUCTION DIAGRAM ABOVE GROUND			SHEET of
				DATE: 6/6/06
PROJECT:	L.E. Carpenter			PROJECT NO: 6527.23
LOCATION:	Along drainage ditch	WELL NUMBER:	MW- 30i	DATE INSTALLED: June 06, 2006
OBSERVED BY:	E. Vincke	CHECKED BY:	J. Dexter	SIGNED:

ELEVATION (BENCHMARK: USGS)	DISTANCE BELOW OR ABOVE GROUND (FT.)



1. CASING AND SCREEN DETAILS:

A) Type of pipe: SS Type 304 Pipe Schedule: 10s

B) Pipe Joints: Threaded O-Ring

C) Solvent Used? None

D) Screen Type: SS Screen Slot Size: 0.01

E) Borehole Diameter:
6 In. from 0 To 15.5 Ft.
___ In. from ___ To ___ Ft.

F) Surf. Casing Diameter
5 In. from 3 To -2 Ft.
2nd Surf. Casing:
___ In. from ___ To ___ Ft.

G) Installed Protective Cover w/Lock? Yes

2. WELL DEVELOPMENT:

A) Method: Purge and Surge

B) Time spent developing: 0.8 Hrs.

C) Water: Removed: 35
Added: 30

D) Water Clarity Before / After Development:
Before: V. Turb, Dark Gray Brown
After: Clear, Clear

F) Odor (Describe if present): None

3. WATER LEVEL SUMMARY:

A) Before Developing: 2.32 Ft. Below Top of Casing

B) After Developing: 6/19/06 2.66 Ft.
Other Date / Time: ___ Ft.

NOTES:
Sand- 2 bags
Holeplug- 0.5 bags
3" sump on bottom of screen.

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-30d

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter	6/6/06	6/6/06	6527.23

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		—	25.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - E. Vincke Driller - J. Drabek	Minisonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Wharton	Morris	NJ	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time 6/7/06 00:00 Depth (ft bgs) -.7

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
1 CS	94			**Sand**- mostly very fine sand, little medium sand, some clay, saturated, soft, nonplastic, no odor, very dark gray (2.5YR3/1).	SW			0.5	
				Fill- mostly cobbles, some medium sand, little coarse sand and gravel, dry, chemical odor, loose.				40.2 86.5	Slurry Monolith, hard drilling.
2 CS	7		5	**Sand**- mostly very fine sand, little coarse sand, some silt and clay, saturated, very slight odor, soft, loose.	SW			3.4	
3 CS	25		10	**Sand**- mostly medium sand, some coarse sand, little gravel, loose, saturated, cobbles, no odor.	SW			0	
4 CS	0		15	No Recovery					
5 CS	12		20	**Sand**- mostly medium sand, some coarse sand, little gravel, loose, saturated, cobbles, no odor.	SW			0	
			25	End of boring 25.0'.					

SOIL BORING WELL CONSTRUCTION LOG 6-6-06.GPJ RMT_CORP.GDT 6/25/08

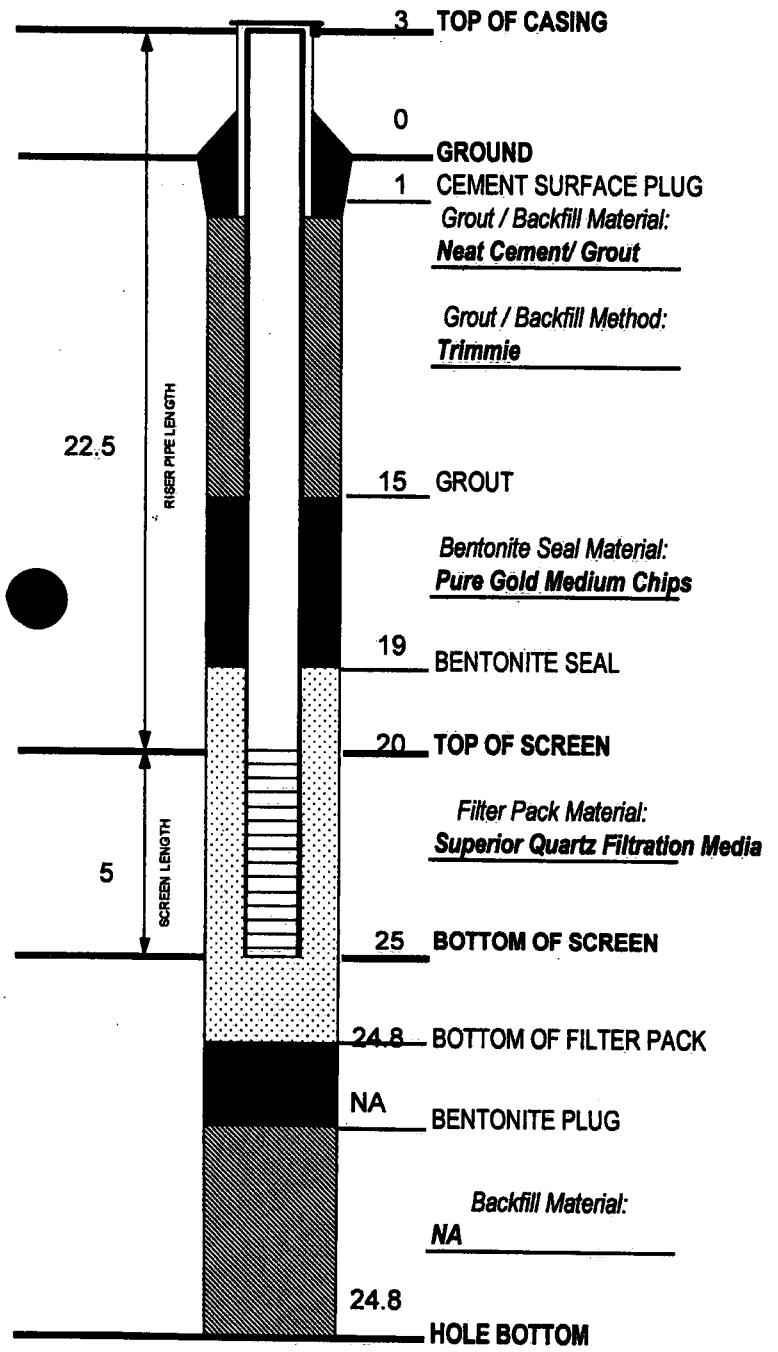
Signature:

Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI Fax 616-975-1098

Checked By: _____

RMT	WELL CONSTRUCTION DIAGRAM ABOVE GROUND			SHEET of	
				DATE: 6/6/06	
PROJECT:	L.E. Carpenter			PROJECT NO: 6527.23	
LOCATION:	Along drainage ditch	WELL NUMBER:	MW- 30d	DATE INSTALLED:	June 06, 2006
OPERATOR:	E. Vincke	CHECKED BY:	J. Dexter	SIGNED:	

ELEVATION (BENCHMARK: USGS)	DISTANCE BELOW OR ABOVE GROUND (FT.)



1. CASING AND SCREEN DETAILS:

A) Type of pipe: SS Type 304 Pipe Schedule: 10s

B) Pipe Joints: Threaded O-Ring

C) Solvent Used? None

D) Screen Type: SS Screen Slot Size: 0.01

E) Borehole Diameter:
6 In. from 0 To 24.8 Ft.
___ In. from ___ To ___ Ft.

F) Surf. Casing Diameter
5 In. from 3 To -2 Ft.
2nd Surf. Casing:
___ In. from ___ To ___ Ft.

G) Installed Protective Cover w/Lock? Yes

2. WELL DEVELOPMENT:

A) Method: Purge and Surge

B) Time spent developing: 0.5 Hrs.

C) Water: Removed: 35
Added: 50

D) Water Clarity Before / After Development:
Before: V. Turb, Dark Gray Brown
After: Clear, Clear

F) Odor (Describe if present): None

3. WATER LEVEL SUMMARY:

A) Before Developing: 2.32 Ft. Below Top of Casing

B) After Developing: 6/19/06 2.70 Ft.
Other Date / Time: ___ Ft.

NOTE:
Sand- 2 bags
Holeplug- 0.5 bags
3" sump on bottom of screen.

MW-19-12 Well Installation

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-19-12

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter	6/7/06	6/7/06	6527.23

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	17.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - E. Vincke Driller - J. Drabek	Minisonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Wharton	Morris	NJ	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time 6/8/06 00:00 ▼ Depth (ft bgs) 7.25

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Asphalt					
1 CS	39		5	**Sand**- mostly fine sand, some medium sand, little coarse sand, and gravel, loose, moist, no odor, very dark gray brown (10YR3/2).	SW			0	
2 CS	65		10	▼ **Sand**- mostly medium sand, some fine and coarse sand, little gravel, loose, moist grading to wet, no odor, dark yellow brown (10YR4/4).	SW			0	
3 CS	95							0	
4	29		15	**Sand**- mostly medium sand, some fine sand, little coarse sand, trace gravel and cobble, loose, wet, no odor, deark gray (10YR4/1).	SW			0	
			20	End of Boring 17.0'.					
			25						

SOIL BORING WELL CONSTRUCTION LOG 6-8-06.GPJ RMT_CORP.GDT 6/26/08

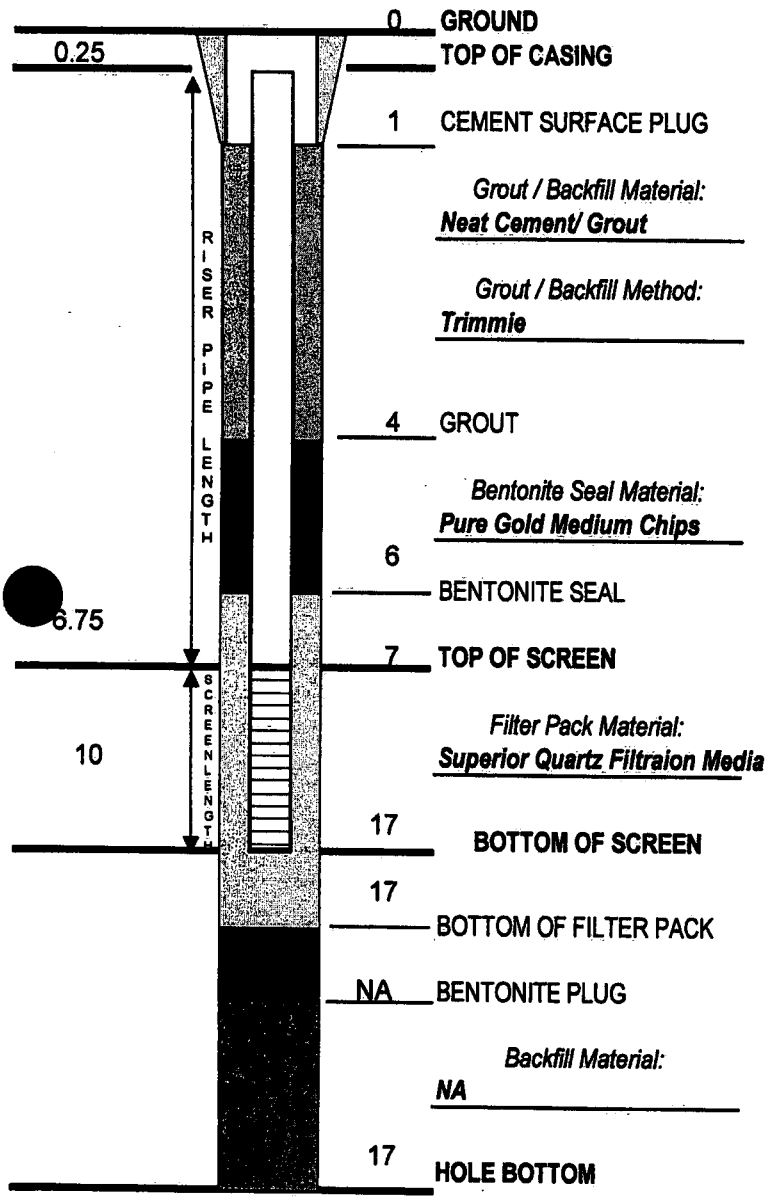
Signature:

Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI Fax 616-975-1098

Checked By: _____

RMT	WELL CONSTRUCTION DIAGRAM BELOW GROUND		SHEET of
PROJECT: L.E. Carpenter			DATE: 6/7/06
			PROJECT NO: 6527.23
LOCATION: North side of Ross St.	WELL NUMBER: MW- 19-12		DATE INSTALLED: June 7, 2006
OBY: E. Vincke	CHECKED BY:		SIGNED:

ELEVATION (BENCHMARK: USGS)	DISTANCE BELOW OR ABOVE GROUND (FT.)



NOTES:

Sand- 2 bags
Holeplug- 0.5 bags
3 [illegible]mp on bottom of screen

1. CASING AND SCREEN DETAILS:

A) Type of pipe: SS Type 304 Pipe Schedule: 10s

B) Pipe Joints: Threaded O-Ring

C) Solvent Used? None

D) Screen Type: SS Screen Slot Size: 0.01

E) Borehole Diameter:
6 In. from 0 To 17 Ft.
___ In. from ___ To ___ Ft.

F) Surf. Casing Diameter
8 In. from 0 To 1 Ft.
2nd Surf. Casing:
___ In. from ___ To ___ Ft.

G) Installed Protective Cover w/Lock? Yes

2. WELL DEVELOPMENT:

A) Method: Purge and Surge

B) Time spent developing: 0.8 Hrs.

C) Water: Removed: 35
Added: 30

D) Water Clarity Before / After Development:
Before: V. Trub., Dark Gray Brown
After: Clear, Clear

F) Odor (Describe if present): None

3. WATER LEVEL SUMMARY:

A) After Developing: 7.5 Ft. Below Top of Casing

B) Other Date / Time: 6/19/06 7.82 Ft.
Other Date / Time: ___ Ft.

April 2008 Wetland Area Well Installation

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-31s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/8/08	4/8/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	9.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - J. Overvoorde Driller - Frank, Marshall	Minisonic

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 4/9/08 00:00 ▼ Depth (ft bgs) 4.55

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
			1 2	**Fill**- 2" minus gravel.					
			3	**Topsoil**- organic topsoil, dark yellowish brown (10YR4/4), loose, moist.					
			4	**Fill**- mostly fine sand and silt, some medium and coarse sand, little gravel, trace cobble, mild plasticity, no odor, loose, moist, dark brown- black (10YR3/3). ▼				1.9	
1 CS	90		5 6 7	**Fill**- mostly gravel with fine-coarse sand matrix, some good sized cobble, trace rock, moist, no odor, loose.				1.9	
2 CS	100		8 9	**Clay**- silty clay with sand and gravel, medium density, slight odor, wet, plastic, trace cobble.	CL-ML			25.3	
				End of boring 9' bgs.					

SOIL BORING WELL CONSTRUCTION.LOG APRIL 2008 MW INSTALL.GPJ RMT_CORP.GDT 6/25/08

Signature:

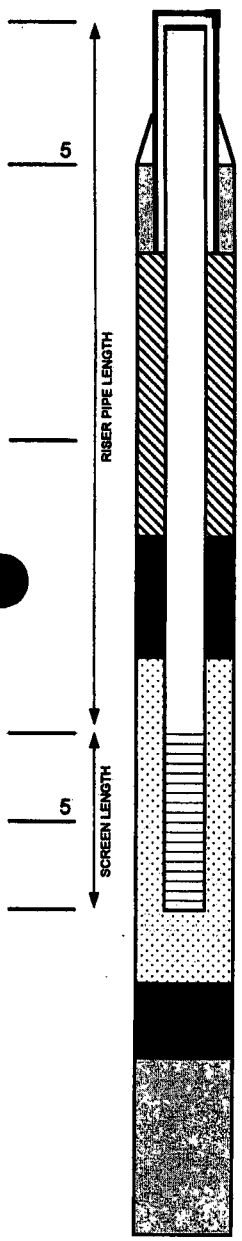
Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546 616-975-1098

Checked By: _____

WELL CONSTRUCTION DIAGRAM

PROJ. NAME: L. E. Carpenter		WELL ID:	MW-31s
PROJ. NO: 6527.32	DATE INSTALLED: 4/8/2008	INSTALLED BY: JO/ SM	CHECKED BY: EV

ELEVATION (BENCHMARK USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)



4.5 TOP OF CASING

2.75 CEMENT SURFACE PLUG

GROUT/BACKFILL MATERIAL

NA

GROUT/BACKFILL METHOD

NA

NA GROUT

BENTONITE SEAL MATERIAL

MEDIMUM CHIPS

1.5 BENTONITE SEAL

0 GROUND SURFACE

0.5 TOP OF SCREEN

FILTER PACK MATERIAL

MEDIUM, WASHED SAND

5.5 BOTTOM OF SCREEN

6 BOTTOM OF FILTER PACK

NA BENTONITE PLUG

BACKFILL MATERIAL

6 HOLE BOTTOM

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH STAINLESS STEEL

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH STAINLESS STEEL

SCR. SLOT SIZE: 0.01-INCH INCH

BOREHOLE DIAMETER: 4 IN. FROM 0 TO 6 FT.
___ IN. FROM ___ TO ___ FT.

SURF. CASING DIAMETER: 4 IN. FROM 5 TO 0 FT.
___ IN. FROM ___ TO ___ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 0.5 HOURS

WATER REMOVED: 4 GALLONS

WATER ADDED: 3 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: Cloudy

COLOR BEFORE: Black

CLARITY AFTER: Cloudy

COLOR AFTER: Dark Gray

ODOR (IF PRESENT): none

WATER LEVEL SUMMARY

SWE MEASUREMENT			DATE	TIME
BEFORE DEVELOPING:	4.66	T/PVC	4/8/2008	
AFTER DEVELOPING:	4.55	T/PVC	4/8/2008	
OTHER		T/PVC		
OTHER		T/PVC		

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-32s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/7/08	4/7/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	9.0	6

Boring Location:

Personnel
Logged By - J. Overvoorde
Driller - Frank, Marshall

Drilling Equipment: Minisonic

Civil Town/City/or Village:	County:	State:
Wharton	Morris	New Jersey

Water Level Observations:
While Drilling: Date/Time Depth (ft bgs)
After Drilling: Date/Time 4/9/08 00:00 Depth (ft bgs) 5.32

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
				Fill- 2" minus gravel.					
			1						
			2						
1 CS	60								
			3	Topsoil- orgainc topsoil.				0.2	
			4	Fill- sandy silt, fine- coarse grain with little gravel, dark brown (10YR3/3), loose, moist, no odor, trace cobbles.					
			5						
2 CS	50			Clay- dense, plastic, gray (7.5YR5/1), trace sand and gravel, moist to wet, no odor, trace cobble.				0.6	
			6						
			7		CL			46.5	
			8	Clay- with trace sand, trace cobble/ rock, moderately dense, plastic, wet, slight odor, black (7.5YR2.5/1).	CL			57.7	
			9	End of boring 9' bgs.					

Signature:

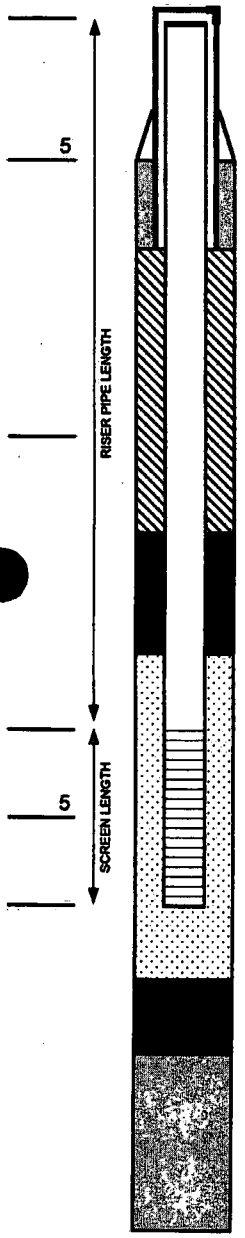
Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546 616-975-1098

Checked By: _____

WELL CONSTRUCTION DIAGRAM

PROJ. NAME: L. E. Carpenter		WELL ID:	MW-32s
PROJ. NO: 6527.32	DATE INSTALLED: 4/7/2008	INSTALLED BY: JO/ SM	CHECKED BY: EV

ELEVATION (BENCHMARK-USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
	4.5	TOP OF CASING
5		
	2.75	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
	NA	GROUT
		BENTONITE SEAL MATERIAL: MEDIMUM CHIPS
	1.5	BENTONITE SEAL
	0	GROUND SURFACE
	0.5	TOP OF SCREEN
5		FILTER PACK MATERIAL: MEDIUM, WASHED SAND
	5.5	BOTTOM OF SCREEN
	6	BOTTOM OF FILTER PACK
	NA	BENTONITE PLUG
		BACKFILL MATERIAL: NA
	6	HOLE BOTTOM



NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH STAINLESS STEEL

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH STAINLESS STEEL

SCR. SLOT SIZE: 0.01-INCH INCH

BOREHOLE DIAMETER: 4 IN. FROM 0 TO 6 FT.
___ IN. FROM ___ TO ___ FT.

SURF. CASING DIAMETER: 4 IN. FROM 5 TO 0 FT.
___ IN. FROM ___ TO ___ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 0.5 HOURS

WATER REMOVED: 3 GALLONS

WATER ADDED: 2 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: Cloudy

COLOR BEFORE: Black

CLARITY AFTER: Cloudy

COLOR AFTER: Dark Gray

ODOR (IF PRESENT): none

WATER LEVEL SUMMARY

SWE MEASUREMENT			DATE	TIME
BEFORE DEVELOPING:	5.1	T/PVC	4/8/2008	
AFTER DEVELOPING:	5.32	T/PVC	4/9/2008	
OTHER		T/PVC		
OTHER		T/PVC		

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-33s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/8/08	4/8/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		—	9.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - J. Overvoorde Driller - Frank, Marshall	Minisonic

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 4/9/08 00:00 Depth (ft bgs) 5.78

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
			1	**Fill-** 2" minus gravel.					
			2						
			3	**Topsoil-** organic, wet, loose.					
			4	**Fill-** sandy silt, fine- coarse grain, little gravel, trace cobble, moist, no odor, compact.				0.3	
1 CS			5						
			6						
			7	**Fill-** sandy gravel, fine- coarse grain, loose, moist- wet, slight odor, trace rock, some silt, very dark gray (10YR3/1).				3.9	
2 CS			8	**Clay-** with trace sand, moderately dense, plastic, wet, no odor, trace cobble and rock, (7.5YR2.5/1).	CL				
			9	End of boring 9' bgs.				1.6	

SOIL BORING WELL CONSTRUCTION LOG APRIL 2008 MW INSTALL.GPJ RMT_CORP.GDT 6/25/08

Signature:

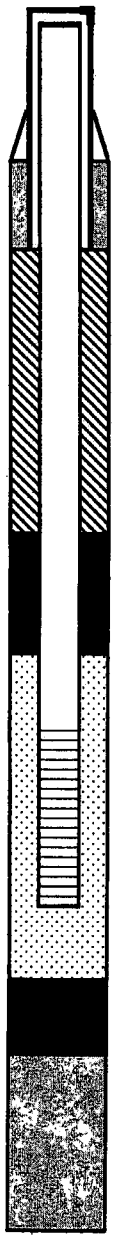
Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546 616-975-1098

Checked By: _____

WELL CONSTRUCTION DIAGRAM

PROJ. NAME: L. E. Carpenter		WELL ID:	MW-33s
PROJ. NO: 6527.32	DATE INSTALLED: 4/8/2008	INSTALLED BY: JO/ SM	CHECKED BY: EV

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
	4.5	TOP OF CASING
	2.75	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
5 (RISER PIPE LENGTH)	NA	GROUT
		BENTONITE SEAL MATERIAL: MEDIMUM CHIPS
	1.5	BENTONITE SEAL
	0	GROUND SURFACE
	0.5	TOP OF SCREEN
5 (SCREEN LENGTH)		FILTER PACK MATERIAL: MEDIUM, WASHED SAND
	5.5	BOTTOM OF SCREEN
	6	BOTTOM OF FILTER PACK
	NA	BENTONITE PLUG
		BACKFILL MATERIAL
	6	HOLE BOTTOM



NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH STAINLESS STEEL

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH STAINLESS STEEL

SCR. SLOT SIZE: 0.01-INCH INCH

BOREHOLE DIAMETER: 4 IN. FROM 0 TO 6 FT.
___ IN. FROM ___ TO ___ FT.

SURF. CASING DIAMETER: 4 IN. FROM 5 TO 0 FT.
___ IN. FROM ___ TO ___ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 0.5 HOURS

WATER REMOVED: 4 GALLONS

WATER ADDED: 2 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: Cloudy

COLOR BEFORE: Black

CLARITY AFTER: Cloudy

COLOR AFTER: Black/Gray

ODOR (IF PRESENT): none

WATER LEVEL SUMMARY

SWE MEASUREMENT			DATE	TIME
BEFORE DEVELOPING:	NM	T/PVC		
AFTER DEVELOPING:	5.78	T/PVC	4/9/2008	
OTHER		T/PVC		
OTHER		T/PVC		

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-34s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/7/08	4/7/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		—	9.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - J. Overvoorde Driller - Frank, Marshall	Minisonic

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 4/9/08 00:00 ▼ Depth (ft bgs) 7.01

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
				Fill- 2" minus gravel.					
			1						
			2						
			3	Topsoil- organic.				1.3	
			4	Fill- sandy silt, fine- coarse sand, little gravel, trace cobble, loose, moist, no odor, dark brown (10YR3/3).					
1 CS			5					3.0	
			6	Clay- dense, plastic, little sand, moist to wet, trace cobble, very dark gray (10YR3/1), no odor.					
			7 ▼		CL				
			8	Size and amount of gravel and rock increase, slight odor.				3.7	
2 CS				Clay- sandy silty clay with gravel, wet, no odor, compact, brown (10YR4/3).	CL				
			9	End of boring 9' bgs.					

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Signature:

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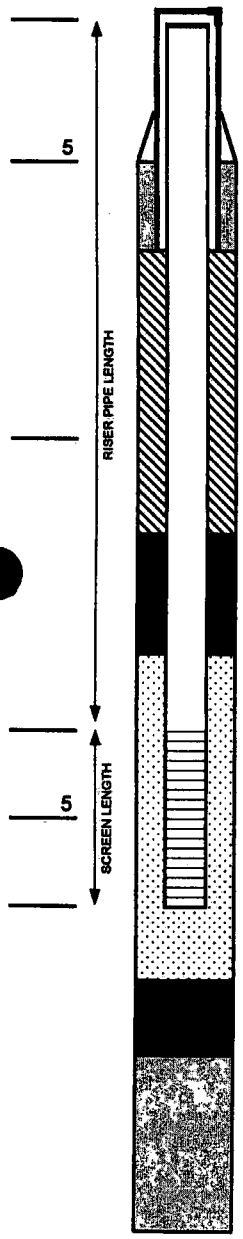
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546 616-975-1098

Checked By: _____

WELL CONSTRUCTION DIAGRAM

PROJ. NAME: L. E. Carpenter		WELL ID:	MW-34s
PROJ. NO: 6527.32	DATE INSTALLED: 4/7/2008	INSTALLED BY: JO/ SM	CHECKED BY: EV

ELEVATION (BENCHMARK USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
	4.5	TOP OF CASING
5		
	2.75	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
	NA	GROUT
		BENTONITE SEAL MATERIAL: MEDIMUM CHIPS
	1.5	BENTONITE SEAL
	0	GROUND SURFACE
	0.5	TOP OF SCREEN
5		FILTER PACK MATERIAL: MEDIUM, WASHED SAND
	5.5	BOTTOM OF SCREEN
	6	BOTTOM OF FILTER PACK
	NA	BENTONITE PLUG
		BACKFILL MATERIAL: NA
	6	HOLE BOTTOM



NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH STAINLESS STEEL

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH STAINLESS STEEL

SCR. SLOT SIZE: 0.01-INCH INCH

BOREHOLE DIAMETER: 4 IN. FROM 0 TO 6 FT.
___ IN. FROM ___ TO ___ FT.

SURF. CASING DIAMETER: 4 IN. FROM 5 TO 0 FT.
___ IN. FROM ___ TO ___ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 0.5 HOURS

WATER REMOVED: 4 GALLONS

WATER ADDED: 2 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: Cloudy

COLOR BEFORE: Black

CLARITY AFTER: Cloudy

COLOR AFTER: Slight Gray color

ODOR (IF PRESENT): none

WATER LEVEL SUMMARY

SWE MEASUREMENT			DATE	TIME
BEFORE DEVELOPING:	5.62	T/PVC	4/8/2008	
AFTER DEVELOPING:	7.01	T/PVC	4/9/2008	
OTHER		T/PVC		
OTHER		T/PVC		

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

WELL CONSTRUCTION LOG

RMT INC.

WELL NO. MW-35s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
L.E. Carpenter & Co. PRMP Wetland Monitoring Well Install	4/7/08	4/7/08	6527.32

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotosonic		---	9.0	6

Boring Location:	Personnel	Drilling Equipment:
	Logged By - J. Overvoorde Driller - Frank, Marshall	Minisonic

Civil Town/City/or Village:	County:	State:
Wharton	Morris	New Jersey

Water Level Observations:
While Drilling: Date/Time Depth (ft bgs)
After Drilling: Date/Time 4/9/08 00:00 ▼ Depth (ft bgs) 5.85

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				Fill- manmade organic topsoil.					
			1	Fill- 2" minus gravel.					
			2						
			3	Topsoil- organic.					
1 CS	80		4	Fill- sandy silt, fine-coarse grain, little gravel, trace cobble, no odor, loose, little plasticity, moist, dark brown (10YR3/3).				1.9	
			5					1.2	
			6	▼					
			7	Color change to brown (10YR5/3), gravel size and content increases.					
			8	Clay- dense, plastic, some organics, moist to wet, trace cobble, very dark gray (10YR3/1), strong odor (ex. sharpie marker).	CL			139	
2 CS	100							399	
			9	End of boring 9' bgs.					

Signature:

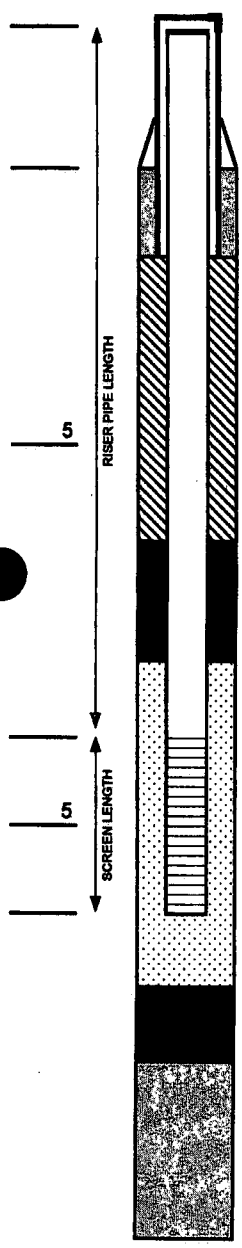
Firm: Grand Rapids 616-975-5415
2025 E. Beltline Ave. Ste 402 Grand Rapids, MI 49546 616-975-1098

Checked By: _____

WELL CONSTRUCTION DIAGRAM

PROJ. NAME: L. E. Carpenter		WELL ID:	MW-35s
PROJ. NO: 6527.32	DATE INSTALLED: 4/7/2008	INSTALLED BY: JO/ SM	CHECKED BY: EV

ELEVATION (BENCHMARK USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
	4.5	TOP OF CASING
	2.75	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
	0	GROUT
		BENTONITE SEAL MATERIAL: MEDIMUM CHIPS
	1.5	BENTONITE SEAL
	0	GROUND SURFACE
	0.5	TOP OF SCREEN
		FILTER PACK MATERIAL: MEDIUM, WASHED SAND
	5.5	BOTTOM OF SCREEN
	6	BOTTOM OF FILTER PACK
	NA	BENTONITE PLUG
		BACKFILL MATERIAL: NA
	6	HOLE BOTTOM



NOTES:

CASING AND SCREEN DETAILS

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PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH STAINLESS STEEL

SCR. SLOT SIZE: 0.01-INCH INCH

BOREHOLE DIAMETER: 4 IN. FROM 0 TO 6 FT.
___ IN. FROM ___ TO ___ FT.

SURF. CASING DIAMETER: 4 IN. FROM 5 TO 0 FT.
___ IN. FROM ___ TO ___ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND BAIL

TIME DEVELOPING: 0.5 HOURS

WATER REMOVED: 4 GALLONS

WATER ADDED: 1 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: Cloudy

COLOR BEFORE: Black

CLARITY AFTER: Cloudy

COLOR AFTER: Black/Gray

ODOR (IF PRESENT): Like a Sharpie marker

WATER LEVEL SUMMARY

SWE MEASUREMENT			DATE	TIME
BEFORE DEVELOPING:	4.38	T/PVC	4/8/2008	
AFTER DEVELOPING:	5.85	T/PVC	4/9/2008	
OTHER		T/PVC		
OTHER		T/PVC		

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

Appendix F
Photographic Summary

June 2006 Source Area Well Installation

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corporation	Wharton, NJ	6527.32

Photo No.	Date
1	06/07/06

Description
Installation of MW-19-12 on the North side of Ross St.

Photo No.	Date
2	06/07/06

Description
Boart Longyear drilling MW-27s.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corporation	Wharton, NJ	6527.32

Photo No.	Date
3	06/06/06

Description
Drilling MW-30d west of the Manufacture's Ditch.

Photo No.	Date
4	06/07/06

Description
Well development using a whaler pump just completed on the MW-30 wells. Drums of development water were staged for disposal.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corporation	Wharton, NJ	6527.32

Photo No.	Date
5	06/05/06

Description
Looking West across the source area where the MW-28 wells will be installed.

Photo No.	Date
6	06/06/06

Description
Drilling the MW-28 wells.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corporation	Wharton, NJ	6527.32

Photo No.	Date
7	06/06/06

Description
Looking North from the wetland area at the installation of MW-29s, notice the MW-30 wells have not yet been installed.

Photo No.	Date
8	06/05/06

Description
Looking east into the wetland area.

April 2008 Wetland Area Well Installation

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
Poly One, Inc. - L.E. Carpenter	Wharton, NJ	00-06527.32

Photo No.	Date
1	4/7/08

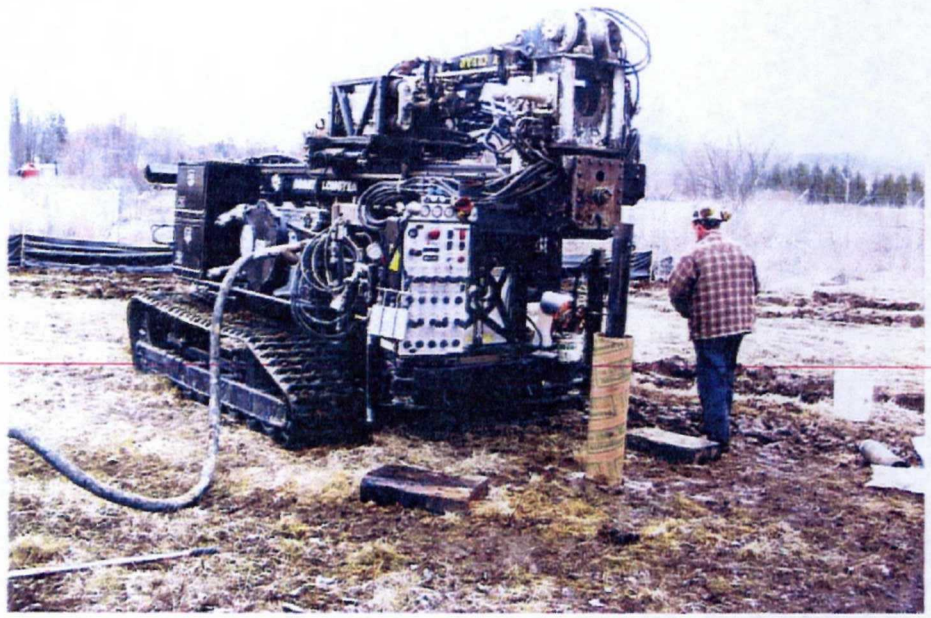
Description

Installation of the silt fence along the river edge. View looking south-southeast towards the Rockaway River from the entrance of the wetlands.

Photo No.	Date
2	4/7/08

Description

Installation of MW-32S in the middle of the wetland area. View looking north towards the Ditch.



RMT

Photographic Log

Client Name:	Site Location:	Project No.:
Poly One, Inc. - L.E. Carpenter	Wharton, NJ	00-06527.32

Photo No.	Date
3	4/8/08

Description

Creating the base of the mounds using ¾" clean aggregate.

Photo No.	Date
4	4/8/08

Description

Photo of MW-35S following the laying and installation of the geo-fabric over the aggregate mounds. Concrete pads helped key in the top of the geo-fabric.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
Poly One, Inc. - L.E. Carpenter	Wharton, NJ	00-06527.32

Photo No.	Date
5	4/9/08

Description

Photo of organic topsoil placed over the keyed in geo-fabric mounds.

Photo No.	Date
6	4/10/08

Description

The mounds were seeded and coconut matting was installed over the seeded mounds to aid in grass growth.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
Poly One, Inc. - L.E. Carpenter	Wharton, NJ	00-06527.32

Photo No.	Date
7	4/10/08

Description

Embayment area near SW-R-1 where sheen had collected on top of the standing water.

Photo No.	Date
8	4/10/08

Description

Close-up picture of sheen on top of the standing water in the embayment area, near SW-R-1, in the wetland area.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
Poly One, Inc. - L.E. Carpenter	Wharton, NJ	00-06527.32

Photo No.	Date
9	4/10/08

Description

Area of sheen that has collected around the cattails along the west bank of the ditch, near SW-D-4 (east of the MW-30 well cluster).

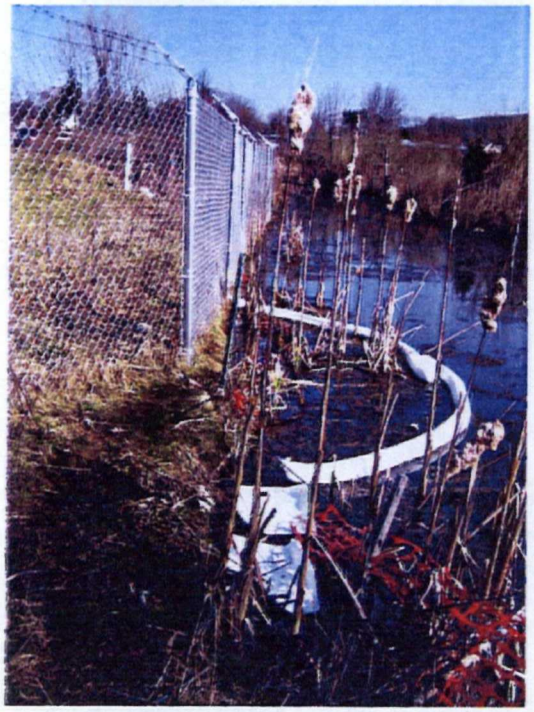
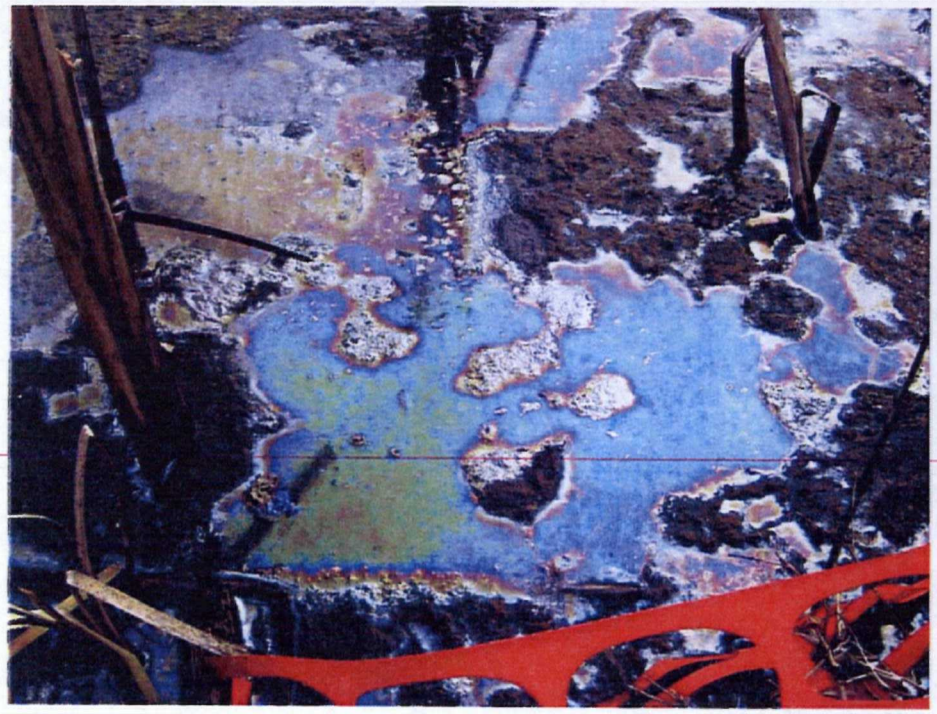


Photo No.	Date
10	4/10/08

Description

Close-up picture of sheen that has collected around the cattails along the west bank of the ditch, near SW-D-4.



Second Quarter 2008 Site Photos

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corp.	Wharton, NJ	6527.29

Photo No.	Date
1	05/05/08

Description
Looking West at the wetland area with the newly planted bare root trees, and monitoring wells MW-33s, MW-34s, and MW-35s.

Photo No.	Date
2	05/05/08

Description
Looking West at the wetland area showing: freshly planted bare root trees, silt fence around MW-31s, and MW-32s, MW-34s, MW-35s.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corp.	Wharton, NJ	6527.29

Photo No.	Date
3	05/05/08

Description
A look East across the Southern edge of the source area.

Photo No.	Date
4	05/05/08

Description
Looking East across the North section of the source area.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corp.	Wharton, NJ	6527.29

Photo No.	Date
5	05/07/08

Description
A look at the product thickness in MW-32s, from dropping a bailer down just into the groundwater.

Photo No.	Date
6	05/08/08

Description
A look at some groundwater samples collected from MW-32s.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corp.	Wharton, NJ	6527.29

Photo No.	Date
7	05/05/08

Description
Standing at SW-D-5 looking South towards sample point DRC-2.

Photo No.	Date
8	05/05/08

Description
Looking North at the beaver pond and SW-D-5.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corp.	Wharton, NJ	6527.29

Photo No.	Date
9	05/05/08

Description
A look at the booms placed by RMT staff just west of SW-R-1.

Photo No.	Date
10	5/9/08

Description
A close up look at the same booms as above taken after a rain event.

RMT

Photographic Log

Client Name:	Site Location:	Project No.:
PolyOne Corp.	Wharton, NJ	6527.29

Photo No.	Date
11	05/05/08

Description
A look at the iron reducing bacteria in a low area on West side of manufactures ditch between MW-30D and MW-29s.

Photo No.	Date
12	05/09/08

Description
A look at the same low area above after a rain event.

Wetland Restoration

Site Photographs
April 10, 2008
RMT, Inc.
L.E. Carpenter & Company Site
Borough of Wharton, Morris County, New Jersey

JFNew # 040229

JFNew
11181 Marwill Avenue West Olive, MI 49460
Phone 616-847-1680 / Fax 616-847-9970
www.jfnew.com

Site Photographs
April 10, 2008
RMT, Inc.
L.E. Carpenter & Company Site
Borough of Wharton, Morris County, New Jersey

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Appendix G
Waste Manifests

Environmental Waste Minimization, Inc.
EWMI
Tel (484) 275-6900 (484) 275-6970 Fax
www.ewmi-info.com

RAPID RESPONSE, INC.
An Affiliate of EWMI
24/7/365 877-460-1038
www.rri-hazmat.com

DAILY RECORD

Project #: 7342 **Date:** 5/7/08 **Day:** 1
Customer: LE CARPENTER / RMT **Customer Contact:** ERIC VINCKE
Job Location: 170 N Main St Wharton NJ 07885 **Customer Phone:** 616-340-0382
Customer Fax:

NAMES	CODE	START	O.S. START	O.S. FINISH	FINISH	TOTAL HOURS
B. ZEHRIG	RM	0700	0900	11:00	13:00	6
S. PETERS	RT	0700	0900	11:00	13:00	6

QTY	MATERIALS / CONSUMABLES
2	PPE Level - (Circle One) Mod - D (D) C B
	PPE Level - (Circle One) Mod - D D C B

SUBCONTRACTOR	CODE	START	O.S. START	O.S. FINISH	FINISH	TOTAL HOURS

EQUIPMENT	QTY
T-126	1
3/4" submerge pump w/Hose	1
2000 watt Generator	1
Drum cart	1
Digital Camera	1

EQUIPMENT	QTY

DISPOSAL/MANIFEST
000550961JJK
003566278JJK

JOB DESCRIPTION / REMARKS

Mobilized to site conducted H&S with onsite personnel
meet w/ Contact to discuss work
Contact showed use boom placement area's and Drum Location
Labeled Drums for Disposal
Lab picked 2 - 15 Fiber Drums w/ soil samples for Disposal
pumped out approx 300 gals of purge water from onsite tank
into Drums for Disposal
Completed all nessary paperwork for transportation + Disposal
~~Loaded~~ Loaded Drums
cleaned + Secured site
all activities approved by ERK VINCKE RMT Rep onsite
Demob from site

Weather: warm / Dry Temperature: 75 °F
Signature: Customer E. Vincke EWMI / RRI: [signature]
Date: 5/7/08 Date: 5/7/08

Original – Customer Copy

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NJD002168748
2. Page 1 of 1
3. Emergency Response Phone: 973-366-1050
4. Manifest Tracking Number: 003566278 JJK

GENERATOR

Generator's Name and Mailing Address:
L.E. Carpenter & Company
170 N. Main St.
Wharton, NJ 07885

Generator's Site Address (if different than mailing address):

Generator's Phone: 973 366-1050

6. Transporter 1 Company Name: Environmental Waste Minimization Inc.
U.S. EPA ID Number: PAD000501577

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Michigan Disposal Waste Treatment Plant
49350 N. I-94 Service Drive
Belleville, MI 48111
U.S. EPA ID Number: MID000724831

Facility's Phone: (734) 699-7120

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Purge/Groundwater, DOT/RCRA Non-Regulated	X10	DM	XX600	G		D29L	
	2.							
	3.							
	4.							

Special Handling Instructions and Additional Information

A: L 111204MCE D:
B:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Eric Varle
Signature:
Month 5 Day 7 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Brian D. Remile
Signature:
Month 05 Day 07 Year 08

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NJD002168748
2. Page 1 of: 1
3. Emergency Response Phone: (877)469-1028 (PROclean)
4. Manifest Tracking Number: 000550961 JJK

5. Generator's Name and Mailing Address: L.E. Carpenter & Company, 190 Main St., Wharton, NJ 07885, 973 366-1050
Generator's Site Address (if different than mailing address):
Generator's Phone:

6. Transporter 1 Company Name: Environmental Waste Minimization, Inc.
U.S. EPA ID Number: PAR000001577

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CycleChem, Inc., 550 Industrial Dr., Lewisberry, PA 17339, 717 938-4703
U.S. EPA ID Number: PAD057006522
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. Hazardous Waste, Solid, NOS (lead) Class 9, NA3077, III	XX 2	DT	XXX50	P	D007 / D008		
	2.							
	3.							
	4.							

Special Handling Instructions and Additional Information
2761 4/5 LP-02
2761 1/5 LP-01 MS#TD-7342-02 T-126

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month: [illegible] Day: [illegible] Year: [illegible]

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: BRIAN D RAHK Signature: [illegible] Month: 05 Day: 07 Year: 08
Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Signature: Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Lab Pack Inventory Sheet

Environmental Waste Minimization, Inc.
EWMI
Tel (484) 275-6900 (484) 275-6970 Fax
www.ewmi-info.com

RAPID RESPONSE, INC.
An Affiliate of EWMI
24/7/365 877-460-1038
www.rri-hazmat.com

Generator: L.E. Carpenter & Company
170 N. Main St.
Wharton, NJ 07885

EPA ID No: N J D 0 0 2 1 6 8 7 4 8

Manifest No: 000550961JJK

Drum No: LP-01 Size: 15gal

Disposal Code: Lab Code:

DOT Shipping Name: Hazardous Waste, Solid, NOS (lead) Chrome

Hazard Class: 9 UN/NA NA3077 PG: III

EPA Codes: E/D008

Page 1 of 1 Date: 5/7/08

Packing Slip Prepared By: SS

NO.	SIZE	DESCRIPTION - CHEMICAL NAME	EPA CODES
1	15gal	Soil Samples containing Lead/Chrome	D007 D008
		TOTAL WEIGHT:	

Environmental Waste Minimization, Inc.
EWMI
Tel (484) 275-6900 (484) 275-6970 Fax
www.ewmi-info.com

Lab Pack Inventory Sheet

RAPID RESPONSE, INC.
An Affiliate of EWMI
24/7/365 877-460-1038
www.rri-hazmat.com

Generator: L.E. Carpenter & Company
170 N. Main St.
Wharton, NJ 07885

EPA ID No: N J D 0 0 2 1 6 8 7 4 8

Manifest No: 000550961JJK

Drum No: LP- 02 Size: 15gal

Disposal Code: Lab Code:

DOT Shipping Name: Hazardous waste Solid NOS (LEAD/CHROME)

Hazard Class: 9 UN/NA NA 3077 PG: III

EPA Codes: D007, D008

Page 1 of 1 Date: 5/7/08

Packing Slip Prepared By: SS

NO.	SIZE	DESCRIPTION - CHEMICAL NAME	EPA CODES
1	15gal	Soil Samples containing Lead/Chrome	D007, D008

TOTAL WEIGHT:

Appendix H
Notice of Deficiency

Jon S. Corzine
Governor

State of New Jersey
Department of Environmental Protection

Lisa P. Jackson
Commissioner

Bureau of Case Management
401 East State Street
P.O. Box 028
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

June 19, 2008

CERTIFIED MAIL/RRR
7005 1160 0004 0964 2605

CHRISTOPHER ANDERSON, DIRECTOR
LE CARPENTER
33587 WALKER RD
AVON LAKE, OH 44012

NOTICE OF DEFICIENCY

Re: Remedial Action Progress Reports for:
L E Carpenter
170 North Main St
Wharton, Morris County,
SRP PI# 003017
Activity Number Reference: RPC060001

Dear Mr. Anderson:

The New Jersey Department of Environmental Protection (Department) acknowledges receipt the receipt of Remedial Action Progress Reports for 2Q2006, 3Q2006, 4Q2006, 1Q2007, 2Q2007, 3Q2007, 4Q2007, and 1Q2008 submitted pursuant to the Administrative Consent Order (ACO) executed on September 26, 1986 and the Technical Requirements for Site Remediation at N.J.A.C. 7:26E (Tech Rule).

Deficiency

The Department has completed its review of the above mentioned submittals and has identified the following deficiency:

Description of Deficiency: Pursuant to Paragraph 29 of the Administrative Consent Order, failure to conduct additional remediation as directed and to submit subsequent Remedial Investigation Reports and Remedial Action Reports in accordance with N.J.A.C. 7:26E as applicable..

Corrective Action

To correct these deficiencies please take the following actions or make the required submittals within the timeframes indicated:

Submit a Remedial Investigation Workplan within 60 days after receipt of this notice.

Detailed Explanation:

1. **7:26E-4.4(h)3vii: Failure to properly evaluate any surface water body potentially impacted by contaminated ground water.**

   Table 5. Although not stated, LE Carpenter appears to have applied New Jersey Surface Water Quality Criteria for **FW-2** surface water for its assessment of ground water impacts to the Rockaway River. This is incorrect. The correct classification is **FW-2-NT(C1)**. This classification applies to the Rockaway River from the point of discharge of Washington Forge Pond to the Route 46 Bridge. The **C-1** classification prohibits any detectable site related contamination in surface waters above background due to ground water or other discharge. The River sampling results indicate a xylene "J" value of 1.1 ppb at sampling point **SW-R1.** The 3rd Quarter 2006 River sampling results indicated a DEHP "J" value of 2.00 ppb at sampling point **SW-R3.** "J" values have also been reported for site related contaminants at other River sampling points for recent sampling events.

   LE Carpenter must implement measures to prevent discharge of site related contaminants to the Rockaway River above background. For all subsequent sampling rounds, New Jersey Surface Water Quality Criteria classification **C-1** shall apply to the sampling results for the River and ditch discharge to the River sampling points **DRC-2** and **SW-D5**.

2. **7:26E-6.3(a): Failure to contain or stabilize contaminants as a first priority, or to prevent contaminant exposure to receptors and to prevent further movement of contaminants through any pathway.**

   Sampling results for new replacement well MW30s (for MW-2) indicate significantly higher contaminant levels after source removal than before in old well MW-2. This contamination is likely discharging into the ditch, as indicated by the surface water sampling results. As stated on page 4-1, "*These data show that residual groundwater contamination remaining in the source reduction area is migrating into the drainage ditch, which is expected given the direction of groundwater seepage flow shown on Figure 5.*"

The Department requires LE Carpenter to institute measures to prevent further discharge of ground water contamination into the ditch and Rockaway River. In order for LE Carpenter to determine the appropriate remedial measures, it shall submit a remedial investigation workplan that delineates groundwater contamination in the vicinity of MW-30S. In addition, an investigation must be conducted to identify the contaminated source(s) areas that are degrading surface water quality in the ditch and the Rockaway River.

Note that if deficiencies included herein are not addressed to the Department's satisfaction within the specified time period the Department will consider them to be violations and may assess penalties pursuant to N.J.A.C. 7:26C-10, or pursuant to the terms stipulated in the ACO.

If you require copies of Department Guidance Documents or applications, many of these are available on the internet http://www.state.nj.us/dep/srp. If you have any questions regarding this matter contact Glenn Savary Case Manager, at (609) 633-0835, or at Glenn Savary@dep.state.nj.us, prior to the date indicated.

Prepared By:

Glenn Savary, Case Manager
Bureau of Case Management

Reviewed By:

Gwen Zervas, P.E., Section Chief
Bureau of Case Management

cc: Nick Clevett, RMT
Patricia Simmons Pierre, EPA
George Blyskun, BGWPA
John Prendergast, BEERA
Health Officer, Wharton
Clerk, Wharton

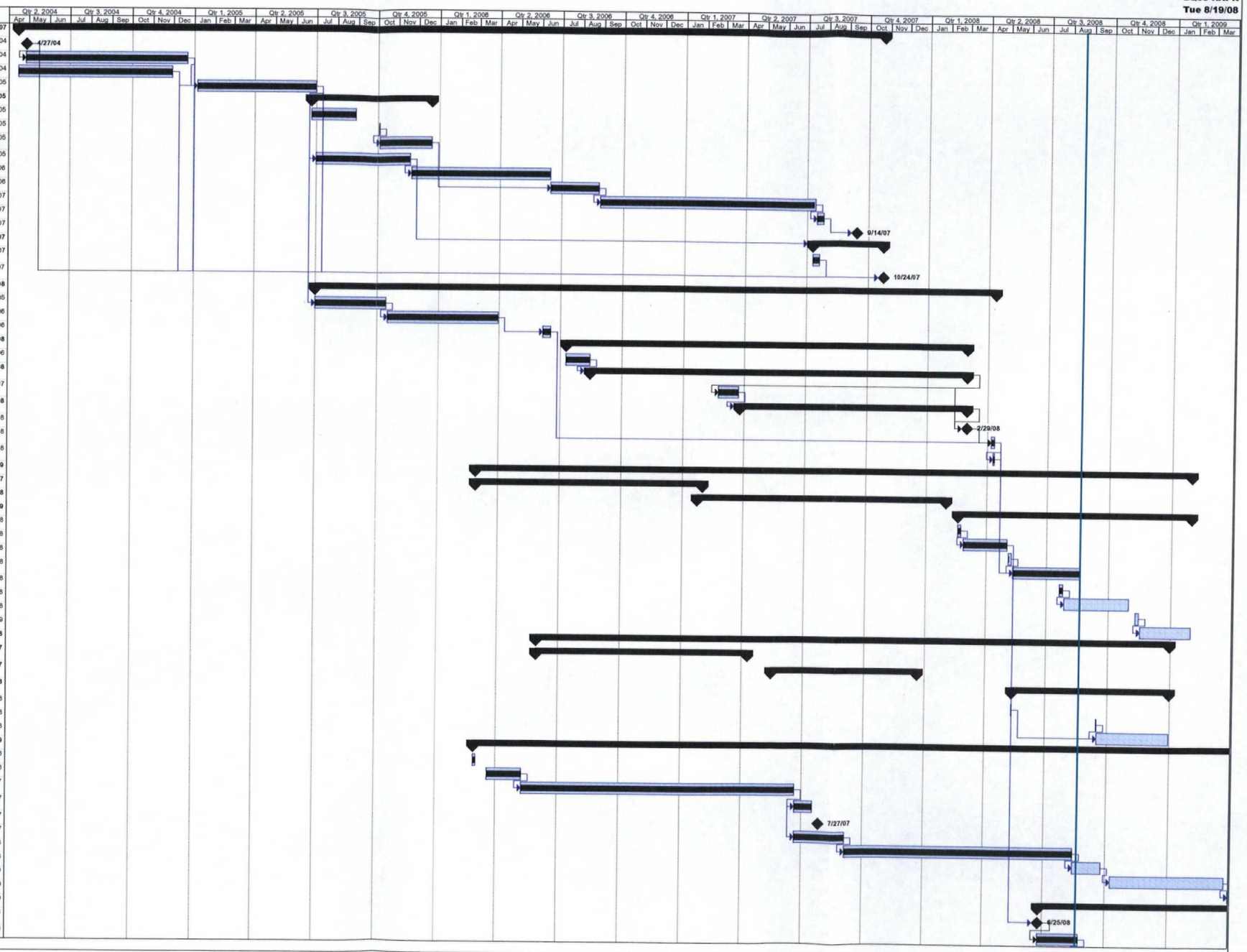
Appendix I
Project Schedule

Groundwater Remedy Evaluations

L. E. Carpenter & Company ~ Wharton NJ
Master Project Schedule

USEPA ID No. NJD002168748
2Q08 RAPR
Tue 8/19/08

ID	Task Name	Duration	Start	Finish
1	**SOURCE REDUCTION**	**918 days**	**Fri 4/16/04**	**Wed 10/24/07**
2	Submit the RAWP for Source Reduction	0 days	Tue 4/27/04	Tue 4/27/04
3	Regulatory review and approval of RAWP	171 days	Tue 4/27/04	Tue 12/21/04
4	Finalize preconstruction permitting issues	162 days	Fri 4/16/04	Mon 11/29/04
5	Source Reduction Remedial Action [Field Construction]	126 days	Thu 1/6/05	Thu 6/30/05
6	**2005 Wetland Area Post Source Reduction Mitigation & Reporting**	**128 days**	**Fri 6/24/05**	**Tue 12/20/05**
7	Prepared and Submit the Wetland Mitigation Construction Final Report	46 days	Fri 6/24/05	Sun 8/28/05
8	Fall 2005 Monitoring and Invasive Species Control Event	1 day	Mon 10/3/05	Mon 10/3/05
9	Prepare and Submit the 2005 Compensatory Mitigation Monitoring Report [1 of 5]	56 days	Tue 10/4/05	Tue 12/20/05
10	Prepare and submit the Source Reduction Remedial Action Report (RAR)	101 days	Fri 7/1/05	Fri 11/18/05
11	Regulatory review and comment on RAR	148 days	Mon 11/21/05	Wed 6/14/06
12	RMT response to 6/14/06 regulatory RAR comments	52 days	Thu 6/15/06	Fri 8/25/06
13	Regulatory review of 8/25/06 RAR response to comments	230 days	Mon 8/28/06	Fri 7/13/07
14	RMT response to 7/13/07 NJDEP email on RAR comments	8 days	Mon 7/16/07	Wed 7/25/07
15	Regulatory approval of RAR and 6/14/06, 8/25/06 and 7/13/07 comments	0 days	Fri 9/14/07	Fri 9/14/07
16	**USEPA Source Reduction Explanation of Significant Difference [ESD]**	**76 days**	**Tue 7/10/07**	**Wed 10/24/07**
17	Conversations with and response to USEPA [Michelle Granger] ESD emails dated July 10 and July 13 2007	8 days	Tue 7/10/07	Thu 7/19/07
18	USEPA issues an ESD for soils and free product addressed through implementation of the Source Reduction	0 days	Wed 10/24/07	Wed 10/24/07
19	**Post Remedial Monitoring Plan [PRMP] IMPLEMENTATION**	**726 days**	**Fri 7/1/05**	**Sat 4/12/08**
20	Preparation and submittal of the PRMP	76 days	Fri 7/1/05	Fri 10/14/05
21	NJDEP/USEPA PRMP review and comment period	119 days	Mon 10/17/05	Thu 3/30/06
22	Partial Field Implementation and Documentation of the PRMP	10 days	Mon 6/5/06	Fri 6/16/06
23	**NJDEP LURP Mounded Monitoring Well Installation Permitting**	**430 days**	**Mon 7/10/06**	**Fri 2/29/08**
24	GP-14 Permit Application Preparation and Submittal to NJDEP LURP	26 days	Mon 7/10/06	Mon 8/14/06
25	**NJDEP LURP GP-14 Permit Application Completeness and Technical Review**	**404 days**	**Tue 8/15/06**	**Fri 2/29/08**
72	Stream Encroachment Permit [SEP] Modification Application Preparation and Submittal to NJDEP LURP	22 days	Thu 2/22/07	Fri 3/23/07
73	**NJDEP LURP SEP Modification Application Completeness and Technical Review**	**245 days**	**Mon 3/26/07**	**Fri 2/29/08**
112	Receive GP-14 and mmSEP Permits	0 days	Fri 2/29/08	Fri 2/29/08
113	Install the Five (5) Mounded Wetland PRMP Monitoring Wells (MW-31S - MW-35S)	5 days	Mon 4/7/08	Fri 4/11/08
114	PRMP Implementation Wetland Restoration Activities [Mounds and Disturbed Areas]	2 edays	Thu 4/10/08	Sat 4/12/08
115	**QUARTERLY MONITORING AND REPORTING**	**765 days**	**Mon 2/27/06**	**Fri 1/30/09**
116	**2006 Monitoring and Reporting**	**242 days**	**Mon 2/27/06**	**Tue 1/30/07**
125	**2007 Monitoring and Reporting**	**267 days**	**Tue 1/23/07**	**Wed 1/30/08**
135	**2008 Monitoring and Reporting**	**250 days**	**Mon 2/18/08**	**Fri 1/30/09**
136	Conduct 1Q08 Monitoring Event	5 days	Mon 2/18/08	Fri 2/22/08
137	Prepare and Submit 1Q08 Remedial Action Progress Report	48 days	Wed 2/27/08	Fri 5/2/08
138	Conduct 2Q08 Monitoring Event	5 days	Mon 5/5/08	Fri 5/9/08
139	Prepare and Submit 2Q08 Remedial Action Progress Report [Includes PRMP Implementation]	72 days	Mon 5/12/08	Tue 8/19/08
140	Conduct 3Q08 Monitoring Event	5 days	Mon 7/21/08	Fri 7/25/08
141	Prepare and Submit 3Q08 Remedial Action Progress Report	69 days	Mon 7/28/08	Thu 10/30/08
142	Conduct 4Q08 Monitoring Event	5 days	Mon 11/10/08	Fri 11/14/08
143	Submit 4Q08 Remedial Action Progress Report	55 days	Mon 11/17/08	Fri 1/30/09
144	**WETLAND AREA [WHARTON ENTERPRISES] MONITORING AND REPORTING**	**676 days**	**Tue 5/30/06**	**Tue 12/30/08**
145	**2006 Wetland Monitoring, Invasive Species Control, Restoration & Reporting**	**225 days**	**Tue 5/30/06**	**Mon 4/9/07**
151	**2007 Wetland Monitoring, Invasive Species Control, Restoration & Reporting**	**158 days**	**Tue 5/15/07**	**Thu 12/20/07**
156	**2008 Wetland Monitoring, Invasive Species Control, Restoration & Reporting**	**167 days**	**Mon 5/12/08**	**Tue 12/30/08**
157	Spring 2008 Monitoring & Invasive Species Control Event	1 day	Mon 5/12/08	Mon 5/12/08
158	Fall 2008 Monitoring and Invasive Species Control Event	1 day	Mon 9/15/08	Mon 9/15/08
159	2008 Annual Wetland Monitoring Report Preparation and Submittal	76 days	Tue 9/16/08	Tue 12/30/08
160	**MW19/HOT SPOT 1 AREA**	**867 days**	**Mon 2/27/06**	**Tue 6/23/09**
161	MW19/Hot Spot 1 Soil Gas Investigation	4 days	Mon 2/27/06	Thu 3/2/06
162	Prepare and submit the MW19/Hot Spot 1 Soil Gas Investigation Report	37 days	Mon 3/20/06	Tue 5/9/06
163	Regulatory review and comment on MW19/Hot Spot 1 Soil Gas Investigation Report	291 days	Wed 5/10/06	Wed 6/20/07
164	Prepare and Submit RMT Response Document [45-Day Extension Request] [MW-19/Hot Spot 1 Soil Gas Investigation Comments/NOD] dated June 20, 2007	19 days	Thu 6/21/07	Tue 7/17/07
165	Regulatory approval of the 45-Day RASR extension	0 days	Fri 7/27/07	Fri 7/27/07
166	Evaluate Remedial Alternatives, Prepare and Submit the RASR	54 days	Thu 6/21/07	Tue 9/4/07
167	NJDEP Review and Approval of the RASR	246 days	Wed 9/5/07	Wed 8/13/08
168	Respond to regulatory comments on RASR	30 days	Thu 8/14/08	Wed 9/24/08
169	Implement Approved Remedial Approach	120 days	Thu 10/9/08	Wed 3/25/09
170	Prepare and Submit the MW19/HS1 RAR	60 days	Wed 4/1/09	Tue 6/23/09
171	**SOURCE AREA GROUNDWATER INVESTIGATION**	**507 days**	**Wed 6/25/08**	**Thu 6/3/10**
172	Receive NJDEP/USEPA Comment Letter post review of 2Q06 through 1Q08 RAPRs requiring preparation of the Remedial Investigation Workplan (RIW)	0 days	Wed 6/25/08	Wed 6/25/08
173	RIW Preparation	60 edays	Wed 6/25/08	Sun 8/24/08

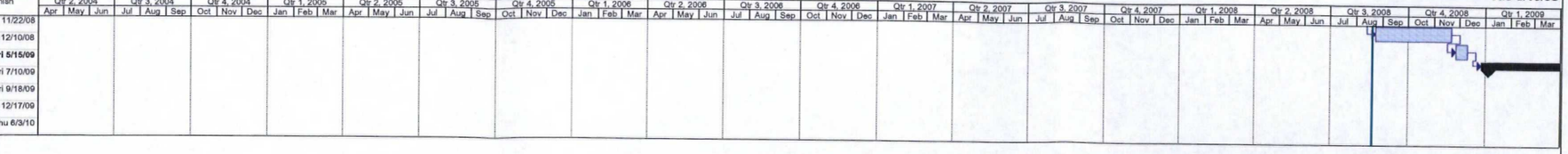


Tue 8/19/08 | Task | Split | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Split | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | External Milestone | Deadline

edays: elapsed days or calendar days

RMT Project No. 6527.30

ID		Task Name	Duration	Start	Finish
174		NJDEP & USEPA RIW Review Period	90 edays	Sun 8/24/08	Sat 11/22/08
175		RIW Field Event Preparations, Logistics, Subcontracting	10 days	Thu 11/27/08	Wed 12/10/08
176		**RIW Field Implementation**	**95 days**	**Mon 1/5/09**	**Fri 5/15/09**
180		Data analysis & Technical [Hydrogeologic & Engineering] Evaluations	60 days	Mon 4/20/09	Fri 7/10/09
181		Preparation of Remedial Investigation Report [RIR]	60 days	Mon 6/29/09	Fri 9/18/09
182		NJDEP & USEPA Review of RIR	90 edays	Fri 9/18/09	Thu 12/17/09
183		Groundwater Focused Feasibility Study [FFS]	120 days	Fri 12/18/09	Thu 6/3/10



72 Stream Encroachment Permit [SEP] Modification Application Preparation and Submittal to NJDEP LURP
Based on conversations, RMT decided to prepare the SEP permit modification application package wo LURP written notice of requirement and GP-14 deficiencies. Needed to get SEP mod into LURP system to avoid more extensive delays.