2010 ANNUAL POST-REMEDIATION MAINTENANCE AND GROUNDWATER MONITORING REPORT

United Technologies Corporation
Pratt & Whitney Division
Willow Brook and Willow Brook Pond
East Hartford, Connecticut

December 2010

Volume 2 of 3

Prepared for

UNITED TECHNOLOGIES CORPORATION
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Prepared by

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Comm. No. 88UT043.001

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Pratt & Whitney
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Pratt & Whitney
A United Technologies Company

January 17, 2011

State of Connecticut
Department of Environmental Protection
Remediation Division
79 Elm Street
Hartford, CT 06106-5127

Attn: Maurice R. Hamel

RE: United Technologies Corporation
Pratt & Whitney Division
Post Remediation Maintenance and Monitoring
Willow Brook and Willow Brook Pond (SRD-130) and Willow Street North

Dear Mr. Hamel:

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53-a-157b of the Connecticut General Statues and any other applicable law.

Sincerely,

UNITED TECHNOLOGIES CORPORATION
PRATT & WHITNEY DIVISION

David Russell
Director, Facilities & Services

Attachment

cc: Gil Richards, DEP
Lauren Levine, UTC
Brian Cutler, LEA
Juan Perez, EPA

Loureiro Engineering Associates, Inc.

January 17, 2011

State of Connecticut
Department of Environmental Protection
Remediation Division
79 Elm Street
Hartford, CT 06016-5127

Attn: Maurice R. Hamel

RE: United Technologies Corporation
Pratt & Whitney Division
Post Remediation Maintenance and Monitoring
Willow Brook and Willow Brook Pond (SRD-130) and Willow Street North
LEA Comm. No. 88UT043

Dear Mr. Hamel:

In accordance with Paragraph B.1.e of the above referenced Consent Order and Appendix C and D of the document entitled *Remedial Action Work Plan and Request for Variance Engineered Control of Polluted Soils, Willow Street and Willow Street North PCB Remediation Project,* approved by the Department of Environmental Protection (CTDEP) on February 10, 2006 and the Modification to the Willow Brook Pond and Willow Street North Groundwater Monitoring Program approved by CTDEP on August 12, 2010, attached please find the 2010 Annual Post Remediation Maintenance and Groundwater Monitoring Report for Willow Brook and Willow Brook Pond and Willow Street North. The initial maintenance and monitoring activities were initiated following the August 31, 2002 completion of remediation activities at Willow Brook Pond and were augmented to include those monitoring and maintenance activities associated with the Willow Street North Project following completion on August 11, 2006. In accordance with Paragraph B.8 of the above referenced Consent Order, I hereby certify that:

I *have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53-a-157b of the Connecticut General Statues and any other applicable law.*

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If you should have any questions or comments, please contact me or Lauren Levine of United Technologies Corporation at (860) 728-6520.

Sincerely,

LOUREIRO ENGINEERING ASSOCIATES, INC.

Brian A. Cutler, P.E., L.E.P.
Senior Vice President

Attachment

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ACRONYMS

CSM	Conceptual Site Model
CT DEP	Connecticut Department of Environmental Protection
CT ETPH	Connecticut Extractable Total Petroleum Hydrocarbons
CWTP	Concentrated Waste Treatment Plant
DQA	Data Quality Assessment
DQO	Data Quality Objective
DUE	Data Usability Evaluation
EDD	Electronic Data Deliverable
ELUR	Environmental Land Use Restriction
EPA	United States Environmental Protection Agency
ERA	Environmental Resource Associates
GB PMC	GB Pollutant Mobility Criteria
IDEC	Industrial/Commercial Direct Exposure Criteria
IMS	Information Management System
IVC	Industrial/Commercial Volatilization Criteria
LCS	Laboratory Control Sample
LEA	Loureiro Engineering Associates, Inc.
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NOV	Notice of Violation
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethylene
PE	Performance Evaluation
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
RAWP/RFV	Remedial Action Work Plan, Request for Variance
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RCSAs	Regulations of Connecticut State Agencies
RCP	Reasonable Confidence Protocol
RDEC	Residential Direct Exposure Criteria
RPD	Relative Percent Difference
RSRs	Remediation Standard Regulations
RVC	Residential Volatilization Criteria
SOP	Standard Operating Procedure
SWPC	Surface Water Protection Criteria
TCE	Trichloroethylene
TSCA	Toxic Substances Control Act
UTC	United Technologies Corporation
VC	Volatilization Criteria
VOCs	Volatile Organic Compounds

UNITS

mg/kg	milligrams per kilogram
mg/l	milligrams per liter
µg/l	micrograms per liter

1. INTRODUCTION

United Technologies Corporation (UTC)/Pratt & Whitney retained Loureiro Engineering Associates, Inc. (LEA) to perform the post-remediation maintenance and groundwater monitoring associated with the remediation of polychlorinated biphenyl (PCB) contaminated soil and sediment within and immediately surrounding Willow Brook, Willow Brook Pond, and Willow Street North (herein after referred to as the "Project Area") at the UTC/Pratt & Whitney manufacturing facility in East Hartford, Connecticut (herein after referred to as the "Site"). The remediation of soil and sediment within and surrounding Willow Brook and Willow Brook Pond was undertaken to satisfy the requirements of Consent Order SRD-130 and was completed on August 31, 2002. The remediation of soil in areas between and below Willow Street and Willow Brook Pond (the Willow Street North Project) was undertaken by UTC/Pratt & Whitney on a voluntary basis in accordance with the document entitled *Remedial Action Work Plan and Request for Variance, Engineered Control of Polluted Soils, Willow Street and Willow Street North PCB Remediation Project* (RAWP/RFV), approved by the Connecticut Department of Environmental Protection (CT DEP) on February 10, 2006. The Willow Street North Project was completed on August 11, 2006.

The following report has been prepared in accordance with the requirements of paragraph B.1.e of Consent Order SRD-130, Appendix C and D of the RAWP/RFV, and the CT DEP approved Modification to the Willow Brook Pond and Willow Street North Groundwater Monitoring Program. The CT DEP approved modifications are described in more detail in Section 4. This report presents the 2010 annual summary of post-remediation groundwater and maintenance monitoring conducted to verify the adequacy of the remediation and long-term effectiveness of the engineered control installed at Willow Brook, Willow Brook Pond and Willow Street North.

As detailed in Section 5, PCBs were detected in one groundwater sample collected from monitoring well WT-MW-43 in 2010. In response to this finding, this initial sample was re-extracted and re-analyzed, and a second sample was collected for analysis by two different laboratories as double blind samples. The detection of PCBs could not be replicated. This is consistent with historical data. It is therefore considered unlikely that PCBs are present in groundwater within the Project Area.

The absence of confirmed detectable concentrations of PCBs in groundwater indicates that the remediation activities performed to date have been effective in eliminating PCBs as a groundwater contaminant source. Additionally, concentrations for inorganic constituents and

volatile organic compounds (VOCs) detected in groundwater are consistent with historic background water quality data from monitoring wells located upgradient of the Project Area.

There are sufficient groundwater data at this time to make a compliance determination relative to the Connecticut Remediation Standard Regulations (RSRs). However, as required by the regulations, additional rounds of groundwater monitoring will continue to be performed based on the revised monitoring plan approved by CT DEP on August 12, 2010.

2. LOCATION AND SITE DESCRIPTION

The UTC/Pratt & Whitney East Hartford manufacturing facility is located at 400 Main Street in East Hartford, Connecticut. A Site Location Map is presented as Figure 2-1. The facility encompasses approximately 769-acres of contiguous land. Pratt & Whitney initiated aircraft engine manufacturing operations in East Hartford in December 1929. Current operations are conducted in an approximate 4 million square foot complex and include administration and management, manufacturing, testing, research and development and ancillary services. All of these activities take place in the western portion of the 769-acre property. The Rentschler Airport and the Klondike Area occupy the eastern portion of the property. UTC/Pratt & Whitney previously used these two areas as an airport and a storage/testing area, respectively.

Willow Brook Pond is located in the northwestern portion of the UTC/Pratt & Whitney East Hartford facility property and is approximately 4 acres in size. Willow Brook is a small stream transecting the UTC/Pratt & Whitney facility from the northern portion of the Rentschler Airport to the northwest portion of the current UTC/Pratt & Whitney operations complex. Willow Brook flows in a southwesterly direction in an open channel from Rentschler Airport, is then hard-piped underground to the inlet of Willow Brook Pond, and continues from the pond as an open channel to a culvert under Main Street. From Main Street, Willow Brook flows in an open channel for a distance of approximately 2,500 feet to the confluence with the Connecticut River. Willow Brook Pond, a single body of water when first created, has been modified various times through the years. It is now comprised of two ponds (Upper Willow Brook Pond and Lower Willow Brook Pond) subdivided by a culvert. The portion of Willow Street which was the subject of the 2006 remediation is adjacent to lower Willow Brook Pond.

During the week of November 9, 2009, the level of Willow Brook Pond was lowered to facilitate the long term operation of the dry weather pumping station associated with NPDES Permit CT0001376 Discharge Serial Number (DSN) 003. A secondary benefit to lowering the pond's water level was the provision of additional flood storage volume and improvement of the hydraulics of the facility's storm sewer system by eliminating chronic backwater conditions upstream of the dam. Since November of 2009, the water level in Upper and Lower Willow Brook Ponds has remained low.

3. BACKGROUND

During routine draining of Willow Brook Pond in September 1997, an oil sheen was noticed seeping through the sediment. Pratt & Whitney reported the sheen to the United States Coast Guard and the CT DEP in accordance with discharge reporting requirements. Following the detection of PCBs in a sediment sample, the CT DEP issued Pratt & Whitney a Notice of Violation (NOV), No. PCB 97-08, on November 7, 1997. In response to the NOV, during the period from December 1997 to April 1999, UTC/Pratt & Whitney developed a sampling work plan and conducted three phases of investigation. These investigations provided the analytical data to sufficiently define the horizontal and vertical limits of contamination and served as the basis for the development of a remediation plan. During the period from April 1999 to November 2000, UTC/Pratt & Whitney identified and evaluated remedial alternatives to address the PCB-contaminated sediments within and immediately surrounding Willow Brook Pond. The RAWP was submitted to the CT DEP and the United States Environmental Protection Agency (EPA) in November of 2000.

During the period from November 2000 to June 2001, numerous permit applications and plans were submitted to regulatory agencies to secure approvals for elements of the remediation project. In addition, during this period of time, the CT DEP was drafting Consent Order SRD-130 codifying expectations for the remediation of the Site. The Consent Order was signed by UTC/Pratt & Whitney on July 19, 2001 and the CT DEP on August 1, 2001.

In addition to satisfying the CT DEP requirements for remediation, UTC/Pratt & Whitney was also involved in a formal voluntary Resource Conservation and Recovery Act (RCRA) Corrective Action Program. On January 19, 2001, the EPA issued a determination that the remediation of contaminated sediments within Willow Brook and Willow Brook Pond was necessary. In order to obtain a decision that the remediation of the Site would be considered a final remedy for the contamination, EPA RCRA Corrective Action staff were involved in the review of the RAWP and were included in all project related correspondence with the various regulatory agencies.

The remediation and restoration activities performed within and immediately surrounding Willow Brook and Willow Brook Pond took place during the period from July 2, 2001 through August 31, 2002. The overall remedial action objective was to physically remove from the site, via excavation and off-site disposal, all soil and sediment containing total PCB concentrations in excess of 25 milligrams per kilogram (mg/kg) and then install a geotextile, soil and rock cap (engineered control) over the entirety of Willow Brook Pond and the open channel of Willow

Brook from Willow Brook Pond to Main Street. In addition to satisfying the requirements of the RSRs, the project was also implemented as part of a final remedy under the RCRA Corrective Action and Toxic Substances Control Act (TSCA) programs. Three areas within the Site were assigned additional remedial objectives. For the wetland and the southern portion of the Lower Willow Brook Pond, the additional remedial action objective was to physically remove all soil and sediment exhibiting contaminants at concentrations greater than the Residential Direct Exposure Criteria (RDEC) for PCBs. For the footprint of the Process Water Facility, inclusive of the small embayment west of the Process Water Facility, the additional remedial action objective was to meet the RDEC for PCBs in soils within 4-feet of the final grade, the Industrial/Commercial Direct Exposure Criteria (IDEC) for PCBs in soils defined as inaccessible by the RSRs, and the GB Pollutant Mobility Criteria (GB PMC) for soils above the seasonal high water table. All remedial action objectives were met during the course of the project.

In 2006, additional remediation of PCB contaminated soil was performed in two separate areas (areas South and East of Upper Willow Brook Pond, and North of the Concentrated Waste Treatment Plant [CWTP] area). The remediation activities were initiated on March 30, 2006 and were completed on August 11, 2006. The overall remedial action objective was to physically remove from the site, via excavation and off-site disposal, all soil and sediment containing total PCBs at concentrations in excess of 25 mg/kg and then install a geotextile and soil cap (engineered control) over the entirety of the project limits. In addition to satisfying the requirements of the RSRs, the project was also implemented as part of a final remedy under the RCRA Corrective Action and TSCA programs. Specific areas of the cap were constructed with a paved roadway surface or crushed rock surface for areas of the cap located below Willow Street or along the embankment of the ponds, respectively. For the areas along the perimeter of the engineered control, the additional remedial action objective was to meet the RDEC for PCBs for soils within 4-feet of the final grade, the IDEC for PCBs in inaccessible soils, and the GB PMC for soils above the seasonal high water table. All remedial action objectives were met during the course of the project.

The remedial action objectives also included the implementation of two institutional controls to ensure the long-term protectiveness of the remedy. The institutional controls consist of 1) an Environmental Land Use Restriction (ELUR) to ensure that the affected area will not be used for residential purposes and to prohibit excavation and 2) a fence around the entire Project Area, exclusive of the roadway, to preclude access to Willow Brook and Willow Brook Pond. The fence around the Project Area remains in place and a draft ELUR for the entirety of the Willow Brook and Willow Brook Pond Project limits as well as the Willow Street North Project limits was submitted to the CT DEP on September 22, 2006.

4. GROUNDWATER MONITORING

Groundwater monitoring activities were performed in accordance with subsection (f) of Section 22a-133k-3 of the Regulations of Connecticut State Agencies (RCSAs). The groundwater monitoring plans detailed in Appendix D of the RAWP/RFV for Willow Brook and Willow Brook Pond and Appendix C of the RAWP/RFC for Willow Street North were designed to determine:

- The effectiveness of soil remediation in preventing further pollution of groundwater by substances from the release area;
- The effectiveness of any remediation taken to eliminate or minimize identified health or safety risks associated with such release; and
- Whether applicable surface water protection criteria (SWPC) and volatilization criteria (VC) have been met.

In June 2002, a total of eleven groundwater monitoring wells (WT-MW-40 through WT-MW-50) were installed around the periphery of Willow Brook and Willow Brook Pond. In September 2006, three additional monitoring wells (WT-MW-57 through WT-MW-59) were installed as part of the remediation activities completed in 2006. One new monitoring well (WT-MW-19SR) was installed in April 2008 to replace monitoring well WT-MW-19S. The locations of these monitoring wells are depicted on the Site Plan included as Figure 4-1 of this report.

On August 12, 2010 CT DEP granted approval to modify the groundwater monitoring program for Willow Brook Pond and Willow Street North (the Project Area). The modifications to the monitoring program included a reduction in the monitoring frequency from quarterly to semi-annually and the discontinued sampling of monitoring wells WT-MW-41, WT-MW-43, WT-MW-45 and WT-MW-49. Consequently, a total of three monitoring events were completed in 2010 in the months of March, June and September. The next scheduled event will be performed in March 2011.

4.1 Description of Groundwater Monitoring Activities

Groundwater samples were collected during the March 2010 and June 2010 sampling events from a total of fifteen groundwater monitoring wells (WT-MW-19SR, WT-MW-40 through WT-MW-50, and WT-MW-57 through WT-MW-59) located within the Project Area. Groundwater samples were collected in September 2010 from a total of eleven groundwater

monitoring wells (WT-MW-19SR, WT-MW-40, WT-MW-42, WT-MW-44, WT-MW-46, WT-MW-47, WT-MW-48, WT-MW-50 and WT-MW-57 through WT-MW-59). It should be noted that no sample was obtained from monitoring well WT-MW-19SR during the June or September sampling events because there was not enough groundwater in the well to yield the required sample volume. During the March sampling event well WT-MW-19SR only contained enough groundwater to collect a sample for analysis for VOCs. All groundwater samples were sent under chain of custody control to Accutest Laboratories (Accutest) of Marlborough, Massachusetts and were analyzed for the following parameters: PCBs by Method 8082; VOCs by EPA Method 8260B; Connecticut extractable total petroleum hydrocarbons (CT ETPH) by the CT DEP approved method; and, unfiltered metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc). In addition, one duplicate sample, trip blank sample, and equipment blank sample was collected and analyzed for each sampling event. Copies of field paperwork are included as Appendix A and copies of laboratory reports are included in Appendix B of this report.

A total of three additional groundwater samples were collected from wells WT-MW-19SR, WT-MW-40 and WT-MW-41 on March 26, 2010. While these wells are included in the Willow Brook & Willow Brook Pond post-remediation monitoring, these specific samples were collected as part of a separate, ongoing groundwater/surface water interaction study that was conducted independent of the Willow Brook/Willow Brook Pond Post-Remediation Monitoring Program. The intent of this study was to gain a greater understanding of the effects of standing surface water and potential other hydraulic influences on groundwater flow and contaminant transport in the northwest portion of the Site. Groundwater analytical data obtained from monitoring wells WT-MW-19SR, WT-MW-40 and WT-MW-41 by means of the additional sampling events were incorporated into the Project Area database and evaluated as part of the 2010 Post-Remediation Monitoring Program.

4.2 Groundwater Elevations

Depth to water was measured from the well within the Project Area during the three sampling events using an electronic water level indicator. Water levels were measured to the nearest 0.01 foot. Water level measurements were collected by LEA on the following three dates: March 2, 2010; June 2, 2010; and September 8, 2010.

Additionally, a surface water measurement of Willow Brook Pond was obtained from the staff gauge located in Lower Willow Brook Pond during the March and September monitoring events. Water-level information was used to evaluate groundwater flow directions and horizontal hydraulic gradients in the upper portion of the unconsolidated aquifer.

Generalized groundwater contour maps from the March, June and September, 2010 monitoring events have been included as Figures 4-2 through 4-4, respectively. It should be noted that Willow Brook Pond was partially drained to facilitate the long-term operation of the dry weather pumping station in November of 2009 and remained partially drained through September of 2010. As such, monitoring well WT-MW-19SR, located in the vicinity of the staff gauge, lacked the volume of water necessary for collection of a groundwater sample during the June and September monitoring events. This well only contained enough groundwater to submit for analysis for VOCs during the March monitoring event.

4.3 Quality Assurance and Quality Control Procedures

During the course of the 2010 post-remediation monitoring, a significant amount of information was obtained for the Project Area. This information included analytical data for groundwater samples; field measurements; sample tracking forms; and other documentation associated with sample collection and analysis. Ensuring that the data generated during the post-remediation monitoring was of sufficient quality to meet the data quality objectives (DQOs) for the project, performance and documentation of quality assurance/quality control (QA/QC) procedures for field and office activities was essential. The following DQOs were developed for the Post-Remediation Groundwater Monitoring Program for the Site:

- Samples collected are of sufficient quality and quantity to assess the groundwater conditions at the Project Area.
- Data obtained are of sufficient quality and quantity to support a regulatory compliance determination.
- Data are sufficient to determine handling and disposal requirements for purged groundwater and decontamination solutions generated during the post-remediation groundwater monitoring activities.

The various types of QA/QC procedures used to ensure that the data generated during the investigation was of sufficient quality to meet the DQOs for the project included the collection and/or and analysis of trip blanks, equipment blanks, field duplicate samples, and performance evaluation (PE) samples. A detailed description of the methods employed to collect and analyze these QA/QC samples is provided in Appendix C.

All groundwater samples collected during the 2010 post-remediation groundwater sampling were analyzed in accordance with the CT DEP Reasonable Confidence Protocols (RCPs), which provide additional QA/QC measures for the applicable EPA SW-846 and Connecticut methods.

The RCPs provide specific QA/QC requirements that the laboratory must follow during analysis of environmental samples. QA/QC information provided by laboratories using the RCP methods was assessed and evaluated in accordance with the guidelines for performing Data Quality Assessments (DQAs) and Data Usability Evaluations (DUEs). The results from the DUE indicated that the data generated during the 2010 groundwater sampling events were usable for the intended purpose. A further explanation of the DQA and DUE process and a discussion of the results of the DQA and DUE are provided in Appendix C.

5. GROUNDWATER QUALITY

This section summarizes the results of groundwater sampling performed at the Project Area during 2010. Specifically, the following subsections summarize the reported concentrations for each constituent and provide a discussion of the results of the QA/QC measures employed for the groundwater sampling conducted at the Project Area.

5.1 Summary of Analytical Data

A total of 47 groundwater samples (including field duplicate samples) were collected during 2010 from Project Area monitoring wells. Three of these samples were collected and analyzed for VOCs to assess short term trends in groundwater quality as part of the ongoing groundwater/surface water interaction study described in Section 4.1. A summary of sampling and analytical information is included as Table 5-1. A summary of constituents detected in 2010 groundwater samples is included as Table 5-2. The following is a summary of the groundwater analytical results for each contaminant of concern.

Polychlorinated Biphenyls: A total of 43 groundwater samples collected during 2010 were analyzed for PCBs. PCBs were reported in the groundwater sample collected on June 2, 2010 from monitoring well WT-MW-43 at a concentration of 0.31 micrograms per liter (µg/l). The QA/QC results provided by the laboratory (Accutest) that were associated with the groundwater sample collected from monitoring well WT-MW-43 were reviewed to identify any QA/QC non-conformances, with respect to PCBs. All QA/QC parameters for the surrogates, method blank sample, and method blank spike sample appeared to be within the acceptable limits as defined in the RCPs. In response to a request for an in depth QA/QC review of this groundwater sample, Accutest confirmed that the PCB results reported for groundwater collected from monitoring well WT-MW-43 were accurate. Accutest also stated that the groundwater sample loaded onto the laboratory instrument directly before the sample collected from monitoring well WT-MW-43 did not contain detectable concentrations of PCBs.

The detection of PCBs in monitoring well WT-MW-43 was immediately questioned. This well is located hydraulically upgradient of Willow Brook and Willow Brook Pond and groundwater in this well is representative of groundwater flowing from adjoining residential properties into Willow Brook and Willow Brook Pond. As a result, a re-extraction and re-analysis of the groundwater sample from WT-MW-43 was requested to confirm the initial results. The re-extraction and re-analysis were performed by Accutest on July 22, 2010 and July 26, 2010,

respectively, outside of the holding time specified in the RCPs. No PCBs were reported above the laboratory reporting limit (of 0.26 µg/l) in the sample that was re-analyzed.

On July 27, 2010 an additional groundwater sample was collected from monitoring well WT-MW-43 for analysis of PCBs. Two distinct sample volumes were collected sequentially for the purpose of submitting replicate samples to Accutest and Test America, Inc. Neither laboratory was aware of the project with which the sample was associated, or that the samples were being submitted as split samples. No PCBs were reported above reporting limits in either sample, although, the reporting limits reported between the laboratories differed. Accutest reported no PCBs above a reporting limit of 0.27 µg/l, which is consistent with the reporting limits for the original sample result (0.31 µg/l) and the result from the sample that was re-extracted and re-analyzed (0.26 µg/l). TestAmerica, due to an internal laboratory error reported a non-detected result with a relatively elevated reporting limit of 0.53 µg/l for the PCB analysis. However, a follow-up review of the PCB analysis conducted by TestAmerica did not identify PCBs above the method detection limit of 0.053 µg/l.

There are multiple lines of evidence to support that the PCB concentration detected during the June 2010 sampling event was attributed to a false positive identification by Accutest. The PCB result could not be reproduced by Accutest. Other than this single occurrence, PCBs have never been reported above laboratory reporting limits in groundwater collected from monitoring well WT-MW-43 in the past nine years of quarterly sampling.

Volatile Organic Compounds: A total of 45 groundwater samples were analyzed for VOCs during 2010. Of the 45 samples analyzed, 20 contained detectable concentrations of VOCs. The maximum concentration of each compound in µg/l is as follows:

Benzene	0.56 µg/l
Chloroethane	6.6 µg/l
Chloroform	4.6 µg/l
1,1-Dichloroethane	44.1 µg/l
1,2-Dichloroethane	3.9 µg/l
1,1-Dichloroethylene	329 µg/l
cis-1,2-Dichloroethylene	219 µg/l
trans-1,2-Dichloroethylene	10.0 µg/l
4-Isopropyltoluene	7.6 µg/l
Methyl Tert-Butyl Ether	2.4 µg/l
Tetrachloroethylene	80.3 µg/l

Tetrahydrofuran	56.0 μg/l
Toluene	3.3 μg/l
1,1,1-Trichloroethane	177 μg/l
1,1,2-Trichloroethane	1.7 μg/l
Trichloroethylene	712 μg/l
Vinyl Chloride	58.0 μg/l
m- & p-xylenes	2.7 μg/l

Total Petroleum Hydrocarbons: A total of 41 groundwater samples collected during 2010 were analyzed for CT ETPH. Of the 41 samples analyzed, 32 samples contained detectable concentrations. The maximum concentration of CT ETPH was detected in the September 2010 sample from monitoring well WT-MW-59 at a concentration of 1.15 milligrams per liter (mg/l).

Metals: A total of 41 groundwater samples were collected and analyzed for unfiltered metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc) during 2010. Of the 41 samples analyzed, 23 samples contained detectable concentrations of metals. The maximum concentration of each metal is as follows:

Arsenic	0.0121 mg/l
Barium	0.496 mg/l
Cadmium	0.248 mg/l
Total Chromium	0.0300 mg/l
Copper	0.36 mg/l
Nickel	4.1 mg/l
Zinc	0.0321 mg/l

5.2 Data Quality Assessment and Data Usability Evaluation

All data were evaluated with respect to quality by conducting a DQA and DUE in accordance with the methodology described in the November 2007 guidance document entitled, *Reasonable Confidence Protocols* and presented in more detail in the May 2009 document entitled *Laboratory Quality Assurance Quality Control, Data Quality Assessment, Data Usability Evaluation Guidance Document*. The DQA was performed to assess the quality of the analytical data in each laboratory analytical report package.

QA/QC issues identified during the DQA process included:

- Results for the surrogate recoveries for ETPH outside the accepted ranged for variability;

- Results for Laboratory Control Sample (LCS) for VOCs outside the accepted range of variability;
- Recoveries for Matrix Spike/Matrix Spike Duplicate (MS/MSD) for VOCs outside the accepted range of variability; and
- Recoveries for initial calibration curve and continuing calibration curve outside the accepted range of variability for specific VOC constituents.

The DQA worksheets are provided in Appendix C. The DQA resulted in identifying data for which the quality could affect its potential use in decision-making. After the laboratory analytical data were evaluated during the DQA, a DUE was performed. The DUE took into account the following:

- The site-specific conceptual site model (CSM);
- Knowledge of the contaminant types, concentrations, and distribution;
- Objectives for the data collection effort and the intended use of the data; and
- Results from field QA/QC sampling.

In general, the QA/QC deficiencies identified do not pertain to any of the primary constituents of concern at the Project Area. For example, VOCs such as 1,2,3-trichlorobenzene and dichlorodifluoromethane were reported with LCS, MS/MSD, initial calibration curve and/or continuing calibration curve values that are outside of the accepted range of variability. However, these particular VOCs do not represent constituents of concern.

Low surrogate recoveries of 30% and 40% were reported for the ETPH run associated with the analysis of groundwater collected from monitoring well WT-MW-48 in September 2010. Despite the low bias, ETPH was reported at a concentration of 0.358 mg/l in this well. This concentration represents the highest detection of ETPH in this well that has been reported over the past five years of monitoring. Since the concentration of ETPH was elevated, despite the low bias, and there is no RSR criterion for ETPH in a GB designated groundwater area, this QA/QC non-conformance did not affect decision making.

Taking into consideration multiple lines of evidence, results from the DUE indicated that the data generated during the 2010 groundwater sampling events were usable for the intended purpose. A more detailed discussion of the DQA and DQE results is included in Appendix C.

5.3 Observed Trends in Groundwater

There are sufficient groundwater data at this time to document contaminant trends at particular monitoring wells, as seven years of groundwater sampling has been performed. Graphs were generated for constituents in each monitoring well using data from March 2006 to present. Graphs were prepared for the following compounds: cis-1,2-dichloroethylene, 1,1-dichloroethane, 1,1-dichloroethylene, tetrachloroethylene (PCE), trichloroethylene (TCE), vinyl chloride, CT ETPH and arsenic, barium, nickel and zinc in each monitoring well and are included as Appendix D. It should be noted that in the generation of constituent concentration graphs, a value of one half of the reporting limit was used for graphing the non-detected results. Data trends for the past five years are discussed by analytical group in the paragraphs below.

Polychlorinated Biphenyls: PCBs have remained at non-detectable levels from March 2004 to present for all groundwater sample locations with the exception of one groundwater sample collected from monitoring well WT-MW-44 in March 2007 and one groundwater sample collected from monitoring well WT-MW-43 in June 2010.

As was described in the 2007 annual report, the sample collected from well WT-MW-44 in March 2007 was re-extracted by Accutest and the initial results were confirmed. However, the result of the analysis was questioned as groundwater in this monitoring well originates offsite from beneath residences along Risley Street. Monitoring well WT-MW-44 in located within an area that was confirmed during remediation of Willow Pond to be void of PCBs in soil. No PCBs were detected in this monitoring well during prior or subsequent groundwater sampling events. To further investigate the PCB detection, an additional co-located sample was collected at monitoring well WT-MW-44 on April 23, 2007 and was submitted concurrently to Accutest and Lancaster Laboratories of Lancaster, Pennsylvania. PCBs were not detected by either laboratory in the co-located sample. PCBs were not detected in subsequent sampling from this location in 2007, 2008, 2009 or 2010. As a result, there is a preponderance of evidence supporting a conclusion that the initial March 2007 data were not indicative of a condition that existed in the aquifer at monitoring WT-MW-44.

The detection of PCBs in monitoring well WT-MW-43 during the June 2010 monitoring event was also immediately questioned, especially because this well is located hydraulically upgradient of Willow Brook and Willow Brook Pond and representative of groundwater flowing from adjoining residential properties. Multiple steps were taken to evaluate whether the reported PCBs represented a real and replicable result. As described in Section 5.1 above, none of the follow-up actions resulted in the identification of PCBs above the laboratory reporting limit. In summary, there are multiple lines of evidence to support that the PCB concentration detected

during the June 2010 sampling event was attributed to a false positive identification by the laboratory.

Total Petroleum Hydrocarbons: CT ETPH have been consistently detected in a majority of the wells within the Project Area from March 2006 to present in groundwater samples. The highest concentrations of CT ETPH in 2010 were detected in the September groundwater sample from monitoring well WT-MW-59. Based on an evaluation of the concentration graphs from March 2006 to present, no discernable upward or downward trends were observed for CT ETPH.

Volatile Organic Compounds: VOCs have been consistently detected from March 2006 to present in groundwater samples collected from monitoring wells WT-MW-40 and WT-MW-50. VOCs were consistently detected from September 2006 to present in groundwater samples collected from monitoring well WT-MW-57, WT-MW-58 and WT-MW-59. VOCs have also been historically reported in groundwater samples collected from monitoring well WT-MW-19S/WT-MW-19SR. However, this well could only be sampled once during 2010 due to the low water levels present as a result of the draining of Willow Brook Pond and Willow Brook. Therefore, trends could not be evaluated with respect to well WT-MW-19SR.

In 2010, the concentrations of VOCs in groundwater samples collected from monitoring well WT-MW-40 appear to have either decreased or stabilized. The concentrations of several VOCs, including 1,1-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene and vinyl chloride, in groundwater collected from monitoring well MW-WT-50 appear to fluctuate and the concentrations observed in the last two monitoring events appear to be in the upper part of the range observed over the past five years. Further monitoring will clarify the trends observed. A similar observation can be made for the concentration of PCE in groundwater samples collected from monitoring well WT-MW-58.

Metals: One or more metals have been consistently detected from March 2006 to present in groundwater samples collected from monitoring wells WT-MW-40, WT-MW-48 and WT-MW-50. Metals were consistently detected from September 2006 to present in groundwater samples collected from monitoring wells WT-MW-57, WT-MW-58, and WT-MW-59. The concentration of nickel in monitoring wells WT-MW-19S and WT-MW-59 appears to exhibit an upward trend. These monitoring wells are located on the southern side of Lower Willow Brook Pond. It should be noted that monitoring well WT-MW-19S was not sampled in 2010 due to the limited amount of groundwater in the well. Data from future groundwater sampling events will continue to be evaluated to determine if trends remain consistent and whether new trends emerge.

5.4 Evaluation of Results Relative to the RSRs

In accordance with Appendix D of the RAWP/RFV, the groundwater analytical data have been compared to the default, numeric SWPC, Industrial/Commercial Volatilization Criteria (IVC) and Residential Volatilization Criteria (RVC). It should be noted, that historic releases occurring outside the Willow Brook and Willow Brook Pond and Willow Street North site have impacted groundwater quality. As such, the following discussions contain references to historic data as a means to provide an understanding of groundwater quality in the vicinity of Willow Brook and Willow Brook Pond prior to implementation of remediation activities.

5.4.1 Surface Water Protection Criteria

The following metals exceeded the default, numeric SWPC in at least one groundwater sample collected during the 2010 monitoring events: arsenic, cadmium, copper, and nickel. Arsenic exceeded the default, numeric SWPC of 0.004 mg/l in groundwater samples collected from all three sampling events from monitoring wells WT-MW-48 and WT-MW-50 at maximum concentrations of 0.0121 mg/l and 0.0069 mg/l, respectively. Cadmium, copper and nickel exceeded the default, numeric SWPC of 0.006 mg/l, 0.048 mg/l and 0.880 mg/l, respectively, in the groundwater samples collected from monitoring well WT-MW-59 during all three 2010 monitoring events at maximum concentrations of 0.248 mg/l, 0.360 mg/l and 4.1 mg/l, respectively. The concentrations of 1,1-dichloroethylene reported in groundwater collected from monitoring well WT-MW-50 in June and September 2010, which ranged from 300 µg/l to 329 µg/l, exceeded the default, numeric SWPC of 96 µg/l. A comparison of 2010 groundwater results to the default, numeric SWPC is presented in Table 5-3.

5.4.2 Volatilization Criteria

Since the existing use of the Site is industrial/commercial in nature, and the future use of the Site will most likely remain industrial/commercial, compliance with the IVC was evaluated for the Site. However, due to the proximity of residential areas to the north and to the west of the Site, compliance with the RVC was also evaluated. It should be noted that based on the site-wide groundwater elevation data, groundwater within the Project Area does not flow toward the buildings to the north of Willow Brook or the residential dwellings located west of the facility.

A summary of the comparisons of the 2010 monitoring well data against the IVC and RVC are presented on Table 5-4 and Table 5-5, respectively. Vinyl chloride exceeded the IVC and RVC of 2 µg/l in groundwater samples collected from monitoring wells WT-MW-40, WT-MW-50, WT-MW-58 and WT-MW-59 at maximum concentrations of 30.1 µg/l, 58.0 µg/l, 3.2 µg/l, and

10.2 µg/l, respectively. The concentration of 1,1-dichloroethylene exceeded the IVC of 6 µg/l and the RVC of 1 µg/l in the groundwater sample collected from monitoring well WT-MW-40 on March 26, 2010 at a concentration of 7.2 µg/l. The concentrations of 1,1-dichloroethylene also exceeded the IVC and RVC in groundwater collected from monitoring well WT-MW-50 during all three monitoring events at a maximum concentration of 329 µg/l. In addition, 1,1-dichloroethylene was detected in the groundwater samples collected from monitoring well WT-MW-40 on March 2, 2010 and in June at concentrations of 4.7 µg/l and 2.3 µg/l, respectively. Both of these concentrations exceeded the RVC, but are less than the IVC.

The TCE concentrations reported in groundwater samples collected from monitoring well WT-MW-50 in June 2010 (712 µg/l) and September 2010 (601 µg/l and 576 µg/l in the duplicate sample) exceed the RVC of 219 µg/l and the IVC of 540 µg/l.

Historic groundwater analytical data for upgradient monitoring wells located south of Upper and Lower Willow Brook Pond and the stream channel west of Willow Brook Pond have exhibited concentrations of VOCs in excess of the concentrations discussed above. As a result, it has been concluded that the levels of VOCs detected during monitoring events are not attributable to contamination that was remediated as part of the Willow Brook and Willow Brook Pond and the Willow Street North remediation projects.

5.4.3 Compliance Determination

There are sufficient groundwater data at this time to make a compliance determination relative to the RSRs. However, as required by the regulations, additional rounds of groundwater monitoring will continue to be performed based on the revised monitoring plan approved by CT DEP on August 12, 2010.

In August 2010, the CT DEP approved a reduction in monitoring frequency from quarterly to semi-annual monitoring and the discontinued monitoring of four of the fifteen wells within the Project Area. The CT DEP approval was granted because the groundwater data collected to date support that remediation activities completed have been effective in eliminating PCBs as a potential groundwater contaminant source and that the concentrations of VOCs, ETPH and total metals at locations upgradient of the Project Areas have remained stable over time with no increasing trends. Further modifications to the groundwater monitoring program will be evaluated, with respect to compliance with the RSRs, after an additional semi-annual monitoring event is completed in March 2011.

6. ENGINEERED CONTROL MAINTENANCE & MONITORING

The post-remediation maintenance program for the engineered control was developed to ensure that the structural integrity, design permeability, and effectiveness of the engineered control will be maintained. This maintenance program was developed to:

- Periodically inspect the engineered control;
- Identify measures to be taken to prevent run-on and run-off of stormwater from eroding or otherwise damaging the engineered control; and
- Identify measures to be taken to correct the effects of any settling, subsidence, erosion or other damaging events or conditions.

The engineered control and the area surrounding the engineered control were inspected in March and September 2010 in the following areas:

1. Signs of erosion.
2. Signs of settling.
3. Loss of vegetative cover.
4. Undesirable growth.
5. Signs of ponding and run on.
6. Condition of fencing and gates.
7. Condition of rip-rap in Willow Brook stream channel.
8. Condition of stone layer in Willow Brook.
9. Burrowing animals.
10. Monitoring well network.

Two additional inspections were conducted on March 31, 2010 and October 6, 2010 after rain events totaling greater than two inches of rain occurred. The Post-Remediation Maintenance Monitoring Forms are included in Appendix E and the findings are discussed below.

6.1 Summary of Maintenance & Monitoring Activities

The following section summarizes the maintenance issues and corrective actions that were implemented with respect to the engineered control during 2010.

- March 3, 2010 inspection – No significant changes in the condition of the cap were noted since the previous inspection was completed on September 11, 2009.

- March 31, 2010 Inspection - In general, the condition of the cap was consistent with the conditions documented during the semi-annual cap inspection that was completed on March 3, 2010. The only new condition identified was a slight erosion channel in the rip-rap located midway between monitoring well WT-MW-40 and Main Street. The erosion channel is in close proximity to the previous area of erosion that was repaired by LEA on March 30, 2009. Although the erosion channel is present, it is located outside of the boundaries of the cap, the rip-rap along the bank remains in place, and it is not anticipated to negatively affect the integrity of the cap.

- September 9, 2010 Inspection – During this inspection, LEA noted that the area surrounding Willow Brook required mowing.

- October 6, 2010 Inspection – During the October 6, 2010 cap inspection, which was conducted following a significant rain event, several holes measuring up to one-foot in diameter were identified along the base of the fencing located between monitoring well WT-MW-40 and Main Street. Significant undesirable growth measuring greater than 0.5-inches in diameter and taller than 2-feet is sprouting from the rip-rap located between Upper and Lower Willow Brook Ponds, along the banks of Upper Willow Brook Pond and the eastern end of Lower Willow Brook Pond. These areas of growth are within the boundaries of the engineered control. The wood retaining wall located upstream of the manmade dam is rotting and broken in some places.

6.2 Corrective Action

Overall, the cap was observed to be in good condition. LEA recommends that the woody growth measuring greater than 0.5-inches in diameter and taller than 2 feet that is sprouting from the rip-rap be removed. The capped area should also be mowed regularly to prevent woody vegetation from taking root. LEA also recommends that an erosion channel, which was recently identified in November 2010, just below the manmade dam, be filled in with rip-rap to stabilize the bank.

The separate area of erosion that was identified in the March 31, 2010 and October 6, 2010 inspections, midway between monitoring well WT-MW-40 and Main Street, is less severe and does not appear to negatively impact the cap. This area should be checked during future inspections, but does not require immediate attention. Sections of the wood retaining wall are compromised and do require repair. However, the dam is not being used now that the water level in Willow Pond has been lowered. Furthermore, this repair is not critical with respect to maintaining the integrity of the cap.

In 2011 planned corrective actions will include the removal of the woody vegetation surrounding Upper and Lower Willow Ponds and repair of the erosion channel located just below the man-made dam.

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7. CONCLUSIONS

A total of three monitoring events were performed in 2010 for Willow Brook and Willow Brook Pond. The first two events, which occurred in March and June, were completed in accordance with Appendix D of the CT DEP approved RAWP/RFV for Willow Brook and Willow Brook Pond and Appendix C of the CT DEP approved RAWP/RFV for Willow Street North. The third monitoring event, which occurred in September, was conducted in accordance with the Modified Groundwater Monitoring Program for Willow Brook Pond and Willow Street North that was approved by CT DEP in August 2010. Copies of the LEA letter requesting modifications to the groundwater monitoring program and the CT DEP approval letter are provided as Appendix F.

During the June 2010 sampling event, one groundwater sample contained a PCB detection that was later determined to represent a false positive identification. Otherwise, no PCBs were detected in the groundwater samples collected and analyzed in 2010. Other constituents not believed to be related to either the Willow Brook and Willow Brook Pond Project or the Willow Street North Project were detected at levels consistent with background water quality data for the Site. VOCs, CT ETPH and metals were detected in the groundwater samples analyzed during the 2010 monitoring events. The concentrations of 1,1-dichloroethylene, arsenic, cadmium, copper and nickel, exceeded the default, numeric SWPC. Additionally, the current IVC and/or RVC was exceeded in several groundwater samples for vinyl chloride, 1,1-dichloroethylene and TCE. These observations are in general consistent with historic data.

There are sufficient groundwater data at this time to determine trends or to make a compliance determination relative to the RSRs. As specified in the CT DEP approved Modified Groundwater Monitoring Program, semi-annual groundwater monitoring will continue to be conducted to further substantiate the presence or absence of trends in constituent concentrations at particular monitoring wells at the site. After the next semi-annual monitoring event is completed in March 2011, the data will be evaluated to determine if further modifications to the groundwater monitoring program are warranted. The absence of detectable concentrations of PCBs in groundwater indicates that the remediation activities performed to date have been effective in eliminating PCBs as a groundwater contaminant source. Additionally, concentrations for inorganic constituents and VOCs detected in groundwater are consistent with historic data from locations upgradient of Willow Brook and Willow Brook Pond.

Two maintenance monitoring inspections were conducted in 2010 following the March and September 2010 monitoring events, with two additional events performed in late March and early October 2010 after significant rainfalls. Corrective action has been and will continue to be

performed for the items identified. Additional inspections and corrective action measures, if necessary, will continue to be implemented as part of the maintenance and monitoring program.

TABLES

Table 5-1
SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
WT-MW-19SR	1139104	03/03/2010	3.00 - 12.50	GWS		X						
WT-MW-19SR	1139863	03/26/2010	3.00 - 12.50	GWS		x						
WT-MW-40	1139100	03/02/2010	10.00 - 19.00	GWS		X			x	x	X	
WT-MW-40	1139874	03/26/2010	10.00 - 19.00	GWS		X						
WT-MW-40	1144931	06/02/2010	10.00 - 19.00	GWS		X			x	X	X	
WT-MW-40	1152485	09/09/2010	10.00 - 19.00	GWS		X			x	X	X	
WT-MW-41	1139098	03/02/2010	1.00 - 10.00	GWS		x			x	x	x	
WT-MW-41	1139483	03/26/2010	1.00 - 10.00	GWS		x						
WT-MW-41	1144926	06/02/2010	1.00 - 10.00	GWS		x			x	x	x	
WT-MW-42	1139095	03/02/2010	1.00 - 10.00	GWS		x			x	x	x	
WT-MW-42	1144925	06/02/2010	1.00 - 10.00	GWS		x			x	X	x	
WT-MW-42	1152487	09/08/2010	1.00 - 10.00	GWS		x			x	X	X	
WT-MW-43	1139096	03/02/2010	3.00 - 12.00	GWS		x			x	X	x	
WT-MW-43	1144924	06/02/2010	3.00 - 12.00	GWS		x			X	X	x	
WT-MW-43	1149711	07/27/2010	3.00 - 12.00	GWS					x			
WT-MW-43	1149712	07/27/2010	3.00 - 12.00	GWS					x			
WT-MW-44	1139097	03/02/2010	5.00 - 14.00	GWS		x			x	x	x	
WT-MW-44	1144927	06/02/2010	5.00 - 14.00	GWS		x			x	X	x	
WT-MW-44	1152488	09/08/2010	5.00 - 14.00	GWS		x			x	x	x	
WT-MW-45	1139110	03/03/2010	2.50 - 11.50	GWS		x			x	X	x	
WT-MW-45	1144937	06/03/2010	2.50 - 11.50	GWS		x			x	X	x	
WT-MW-46	1139109	03/03/2010	-1.50 - 7.50	GWS		x			x	x	x	
WT-MW-46	1144935	06/03/2010	-1.50 - 7.50	GWS		x			x	X	x	
WT-MW-46	1152481	09/08/2010	-1.50 - 7.50	GWS		x			x	X	X	
WT-MW-47	1139102	03/03/2010	6.00 - 15.00	GWS		x			x	X	x	
WT-MW-47	1144934	06/03/2010	6.00 - 15.00	GWS		x			x	X	x	
WT-MW-47	1152480	09/08/2010	6.00 - 15.00	GWS		x			x	X	X	
WT-MW-48	1139103	03/03/2010		GWS		x			x	X	X	
WT-MW-48	1144929	06/03/2010		GWS		x			x	X	X	
WT-MW-48	1152482	09/08/2010		GWS		x			x	X	X	
WT-MW-49	1139108	03/03/2010		GWS		x			x	x	x	
WT-MW-49	1144936	06/03/2010		GWS		x			x	X	x	

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Table 5-1
SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION
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Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
WT-MW-50	1139099	03/02/2010	16.00 - 26.00	GWS		X			x	X	X	
WT-MW-50	1139114	03/02/2010	16.00 - 26.00	GWS		X			x	X	X	
WT-MW-50	1144930	06/02/2010	16.00 - 26.00	GWS		X			x	X	X	
WT-MW-50	1152489	09/08/2010	16.00 - 26.00	GWS		X			x	X	X	
WT-MW-50	1152500	09/08/2010	16.00 - 26.00	GWS		X			x	X	X	
WT-MW-57	1139105	03/03/2010	8.00 - 18.00	GWS		X			x	x	X	
WT-MW-57	1144928	06/02/2010	8.00 - 18.00	GWS		X			x	X	X	
WT-MW-57	1152483	09/08/2010	8.00 - 18.00	GWS		X			x	X	X	
WT-MW-58	1139106	03/03/2010	8.00 - 18.00	GWS		X			x	X	X	
WT-MW-58	1144933	06/03/2010	8.00 - 18.00	GWS		X			x	X	x	
WT-MW-58	1152490	09/09/2010	8.00 - 18.00	GWS		X			x	X	X	
WT-MW-59	1139101	03/02/2010	8.00 - 18.00	GWS		X			x	X	X	
WT-MW-59	1144932	06/03/2010	8.00 - 18.00	GWS		X			x	X	X	
WT-MW-59	1144939	06/03/2010	8.00 - 18.00	GWS		X			x	X	X	
WT-MW-59	1152486	09/09/2010	8.00 - 18.00	GWS		X			x	X	X	

Printed on 11/29/2010

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-19SR	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-40
	Sample ID	1139104	1139100	1139100	1139874	1144931	1144931	1152485
	Sample Date	03/03/2010	03/02/2010	03/02/2010	03/26/2010	06/02/2010	06/02/2010	09/09/2010
	Sample Time	14:40	14:40	14:40	09:40	15:00	15:00	12:36
	Sample Depth	3.00' - 12.50	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M89610-9	M89593-7	M89593-8	M90214-3	M91867-12	M91867-13	M94151-8
Constituent	Units							
Xylenes,m- & p-	ug/L							
Date PCBs Analyzed	-							
Date Metals Analyzed	-			03/11/2010			06/07/2010	
Date Organics Analyzed	-	03/05/2010	03/04/2010		03/29/2010	06/12/2010		09/11/2010
Date Physical Analyzed	-					06/18/2010		09/18/2010
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L			0.454			0.412	
Cadmium (unfiltered)	mg/L							
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L							
Arochlor 1260	ug/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L					0.195		0.285
Benzene	ug/L							
4-Isopropyltoluene	ug/L	7.6						
1,1,1-Trichloroethane	ug/L		1.3		1.4			
1,1,2-Trichloroethane	ug/L							
1,1-Dichloroethane	ug/L		21.7		23.7	22.4		23.2
1,2-Dichloroethane	ug/L							
Chloroethane	ug/L							
Methyl tert-Butyl ether	ug/L							
1,1-Dichloroethylene	ug/L		4.7		7.2	2.3		
trans-1,2-Dichloroethylene	ug/L		1.9		3.3	3.2		2.8
cis-1,2-Dichloroethylene	ug/L		16.4		26.2	27.8		3.6
Vinyl Chloride	ug/L		17.9		16.0	30.1		5.0
Tetrachloroethylene	ug/L							
Trichloroethylene	ug/L		4.5		5.1			

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-19SR	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-40
	Sample ID	1139104	1139100	1139100	1139874	1144931	1144931	1152485
	Sample Date	03/03/2010	03/02/2010	03/02/2010	03/26/2010	06/02/2010	06/02/2010	09/09/2010
	Sample Time	14:40	14:40	14:40	09:40	15:00	15:00	12:36
	Sample Depth	3.00' - 12.50	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M89610-9	M89593-7	M89593-8	M90214-3	M91867-12	M91867-13	M94151-8
Constituent	Units							
Tetrahydrofuran	ug/L							
Chloroform	ug/L							
Toluene	ug/L	1.3						
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-40	WT-MW-42	WT-MW-42	WT-MW-42	WT-MW-43	WT-MW-43	WT-MW-44
	Sample ID	1152485	1144925	1152487	1152487	1139096	1144924	1144927
	Sample Date	09/09/2010	06/02/2010	09/08/2010	09/08/2010	03/02/2010	06/02/2010	06/02/2010
	Sample Time	12:36	11:20	11:10	11:10	12:10	10:15	11:15
	Sample Depth	10.00' - 19.0	1.00' - 10.00	1.00' - 10.00	1.00' - 10.00	3.00' - 12.00	3.00' - 12.00	5.00' - 14.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94151-9	M91867-7	M94105-7	M94105-8	M89593-13	M91867-5	M91867-1
Constituent	Units							
Xylenes,m- & p-	ug/L							
Date PCBs Analyzed	-						06/18/2010	
Date Metals Analyzed	-	09/13/2010			09/13/2010			
Date Organics Analyzed	-							
Date Physical Analyzed	-		06/18/2010	09/16/2010		03/12/2010	06/18/2010	06/18/2010
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L	0.496			0.0713			
Cadmium (unfiltered)	mg/L							
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L				0.0240			
Arochlor 1260	ug/L						0.31	
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		0.117	0.162		0.207	0.117	0.143
Benzene	ug/L							
4-Isopropyltoluene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichloroethane	ug/L							
1,1-Dichloroethane	ug/L							
1,2-Dichloroethane	ug/L							
Chloroethane	ug/L							
Methyl tert-Butyl ether	ug/L							
1,1-Dichloroethylene	ug/L							
trans-1,2-Dichloroethylene	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Vinyl Chloride	ug/L							
Tetrachloroethylene	ug/L							
Trichloroethylene	ug/L							

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-40	WT-MW-42	WT-MW-42	WT-MW-42	WT-MW-43	WT-MW-43	WT-MW-44
	Sample ID	1152485	1144925	1152487	1152487	1139096	1144924	1144927
	Sample Date	09/09/2010	06/02/2010	09/08/2010	09/08/2010	03/02/2010	06/02/2010	06/02/2010
	Sample Time	12:36	11:20	11:10	11:10	12:10	10:15	11:15
	Sample Depth	10.00' - 19.0	1.00' - 10.00	1.00' - 10.00	1.00' - 10.00	3.00' - 12.00	3.00' - 12.00	5.00' - 14.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94151-9	M91867-7	M94105-7	M94105-8	M89593-13	M91867-5	M91867-1
Constituent	Units							
Tetrahydrofuran	ug/L							
Chloroform	ug/L							
Toluene	ug/L							
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SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-45	WT-MW-45	WT-MW-46	WT-MW-46	WT-MW-46	WT-MW-47	WT-MW-47
	Sample ID	1139110	1144937	1144935	1152481	1152481	1139102	1144934
	Sample Date	03/03/2010	06/03/2010	06/03/2010	09/08/2010	09/08/2010	03/03/2010	06/03/2010
	Sample Time	13:40	14:40	11:55	11:45	11:45	11:05	10:05
	Sample Depth	2.50' - 11.50	2.50' - 11.50	-1.50' - 7.50	-1.50' - 7.50	-1.50' - 7.50	6.00' - 15.00	6.00' - 15.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M89610-17	M91951-8	M91951-10	M94105-12	M94105-13	M89610-5	M91951-7
Constituent	Units							
Xylenes,m- & p-	ug/L							
Date PCBs Analyzed	-							
Date Metals Analyzed	-					09/13/2010		
Date Organics Analyzed	-							
Date Physical Analyzed	-	03/15/2010	06/19/2010	06/19/2010	09/16/2010		03/15/2010	06/19/2010
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L							
Cadmium (unfiltered)	mg/L							
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L					0.0206		
Arochlor 1260	ug/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	0.353	0.442	0.0981	0.117		0.0908	0.128
Benzene	ug/L							
4-Isopropyltoluene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichloroethane	ug/L							
1,1-Dichloroethane	ug/L							
1,2-Dichloroethane	ug/L							
Chloroethane	ug/L							
Methyl tert-Butyl ether	ug/L							
1,1-Dichloroethylene	ug/L							
trans-1,2-Dichloroethylene	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Vinyl Chloride	ug/L							
Tetrachloroethylene	ug/L							
Trichloroethylene	ug/L							

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SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-45	WT-MW-45	WT-MW-46	WT-MW-46	WT-MW-46	WT-MW-47	WT-MW-47
	Sample ID	1139110	1144937	1144935	1152481	1152481	1139102	1144934
	Sample Date	03/03/2010	06/03/2010	06/03/2010	09/08/2010	09/08/2010	03/03/2010	06/03/2010
	Sample Time	13:40	14:40	11:55	11:45	11:45	11:05	10:05
	Sample Depth	2.50' - 11.50	2.50' - 11.50	-1.50' - 7.50	-1.50' - 7.50	-1.50' - 7.50	6.00' - 15.00	6.00' - 15.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M89610-17	M91951-8	M91951-10	M94105-12	M94105-13	M89610-5	M91951-7
Constituent	Units							
Tetrahydrofuran	ug/L							
Chloroform	ug/L							
Toluene	ug/L							
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SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-47	WT-MW-47	WT-MW-48	WT-MW-48	WT-MW-48	WT-MW-48	WT-MW-48
	Sample ID	1152480	1152480	1139103	1139103	1144929	1144929	1152482
	Sample Date	09/08/2010	09/08/2010	03/03/2010	03/03/2010	06/03/2010	06/03/2010	09/08/2010
	Sample Time	10:30	10:30	13:15	13:15	11:02	11:02	13:15
	Sample Depth	6.00' - 15.00	6.00' - 15.00					
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94105-10	M94105-11	M89610-7	M89610-8	M91951-1	M91951-1A	M94105-14
Constituent	Units							
Xylenes,m- & p-	ug/L							
Date PCBs Analyzed	-							
Date Metals Analyzed	-		09/13/2010		03/08/2010		06/08/2010	
Date Organics Analyzed	-							
Date Physical Analyzed	-	09/16/2010		03/15/2010		06/19/2010		09/16/2010
Arsenic (unfiltered)	mg/L				0.0058		0.0087	
Barium (unfiltered)	mg/L		0.141					
Cadmium (unfiltered)	mg/L							
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L							
Zinc (unfiltered)	mg/L							
Arochlor 1260	ug/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	0.137		0.0809		0.352		0.358
Benzene	ug/L							
4-Isopropyltoluene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichloroethane	ug/L							
1,1-Dichloroethane	ug/L							
1,2-Dichloroethane	ug/L							
Chloroethane	ug/L							
Methyl tert-Butyl ether	ug/L							
1,1-Dichloroethylene	ug/L							
trans-1,2-Dichloroethylene	ug/L							
cis-1,2-Dichloroethylene	ug/L							
Vinyl Chloride	ug/L							
Tetrachloroethylene	ug/L							
Trichloroethylene	ug/L							

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SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-47	WT-MW-47	WT-MW-48	WT-MW-48	WT-MW-48	WT-MW-48	WT-MW-48
	Sample ID	1152480	1152480	1139103	1139103	1144929	1144929	1152482
	Sample Date	09/08/2010	09/08/2010	03/03/2010	03/03/2010	06/03/2010	06/03/2010	09/08/2010
	Sample Time	10:30	10:30	13:15	13:15	11:02	11:02	13:15
	Sample Depth	6.00' - 15.00	6.00' - 15.00					
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94105-10	M94105-11	M89610-7	M89610-8	M91951-1	M91951-1A	M94105-14
Constituent	Units							
Tetrahydrofuran	ug/L							
Chloroform	ug/L							
Toluene	ug/L							
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SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-48	WT-MW-49	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50
	Sample ID	1152482	1144936	1139099	1139099	1139114	1139114	1144930
	Sample Date	09/08/2010	06/03/2010	03/02/2010	03/02/2010	03/02/2010	03/02/2010	06/02/2010
	Sample Time	13:15	12:10	13:00	13:00	13:00	13:00	13:10
	Sample Depth			16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94105-15	M91951-9	M89593-3	M89593-4	M89593-5	M89593-6	M91867-14
Constituent	Units							
Xylenes,m- & p-	ug/L							2.7
Date PCBs Analyzed	-							
Date Metals Analyzed	-	09/13/2010			03/11/2010		03/11/2010	
Date Organics Analyzed	-			03/04/2010		03/04/2010		06/12/2010
Date Physical Analyzed	-		06/19/2010	03/12/2010		03/12/2010		06/18/2010
Arsenic (unfiltered)	mg/L	0.0121			0.0069		0.0065	
Barium (unfiltered)	mg/L	0.0819			0.361		0.356	
Cadmium (unfiltered)	mg/L							
Chromium, Total (unfiltered)	mg/L	0.0100						
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L				0.0575		0.0564	
Zinc (unfiltered)	mg/L							
Arochlor 1260	ug/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		0.422	0.107		0.100		0.305
Benzene	ug/L			0.52		0.54		
4-Isopropyltoluene	ug/L							
1,1,1-Trichloroethane	ug/L			24.0		22.5		177
1,1,2-Trichloroethane	ug/L							
1,1-Dichloroethane	ug/L			39.6		44.1		39.0
1,2-Dichloroethane	ug/L			1.8		1.9		
Chloroethane	ug/L							
Methyl tert-Butyl ether	ug/L							2.4
1,1-Dichloroethylene	ug/L			41.3		40.3		329
trans-1,2-Dichloroethylene	ug/L			3.0		3.2		10.0
cis-1,2-Dichloroethylene	ug/L			49.6		50.4		219
Vinyl Chloride	ug/L			35.9		40.0		58.0
Tetrachloroethylene	ug/L			6.9		6.4		80.3
Trichloroethylene	ug/L			92.1		89.5		712

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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-48	WT-MW-49	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50
	Sample ID	1152482	1144936	1139099	1139099	1139114	1139114	1144930
	Sample Date	09/08/2010	06/03/2010	03/02/2010	03/02/2010	03/02/2010	03/02/2010	06/02/2010
	Sample Time	13:15	12:10	13:00	13:00	13:00	13:00	13:10
	Sample Depth			16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94105-15	M91951-9	M89593-3	M89593-4	M89593-5	M89593-6	M91867-14
Constituent	Units							
Tetrahydrofuran	ug/L			18.7		17.6		28.3
Chloroform	ug/L							4.6
Toluene	ug/L							
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-57	WT-MW-57
	Sample ID	1144930	1152489	1152489	1152500	1152500	1139105	1139105
	Sample Date	06/02/2010	09/08/2010	09/08/2010	09/08/2010	09/08/2010	03/03/2010	03/03/2010
	Sample Time	13:10	14:50	14:50	14:50	14:50	11:30	11:30
	Sample Depth	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	8.00' - 18.00	8.00' - 18.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M91867-15	M94105-3	M94105-4	M94105-5	M94105-6	M89610-1	M89610-2
Constituent	Units							
Xylenes,m- & p-	ug/L							
Date PCBs Analyzed	-							
Date Metals Analyzed	-	06/07/2010		09/13/2010		09/13/2010		03/08/2010
Date Organics Analyzed	-		09/09/2010		09/09/2010		03/05/2010	
Date Physical Analyzed	-		09/16/2010		09/16/2010			
Arsenic (unfiltered)	mg/L	0.0045		0.0062		0.0056		
Barium (unfiltered)	mg/L	0.341		0.314		0.309		0.474
Cadmium (unfiltered)	mg/L							
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L			0.0469		0.0472		0.122
Zinc (unfiltered)	mg/L							
Arochlor 1260	ug/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		0.414		0.426			
Benzene	ug/L		0.56		0.56			
4-Isopropyltoluene	ug/L							
1,1,1-Trichloroethane	ug/L		131		129			
1,1,2-Trichloroethane	ug/L		1.7		1.7			
1,1-Dichloroethane	ug/L		36.9		35.5			
1,2-Dichloroethane	ug/L		3.7		3.9			
Chloroethane	ug/L		6.6		6.1			
Methyl tert-Butyl ether	ug/L							
1,1-Dichloroethylene	ug/L		304		300			
trans-1,2-Dichloroethylene	ug/L		9.2		7.4			
cis-1,2-Dichloroethylene	ug/L		151		150		2.3	
Vinyl Chloride	ug/L		45.9		46.0			
Tetrachloroethylene	ug/L		71.4		72.0		3.0	
Trichloroethylene	ug/L		601		576		6.7	

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Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
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	Location ID	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-57	WT-MW-57
	Sample ID	1144930	1152489	1152489	1152500	1152500	1139105	1139105
	Sample Date	06/02/2010	09/08/2010	09/08/2010	09/08/2010	09/08/2010	03/03/2010	03/03/2010
	Sample Time	13:10	14:50	14:50	14:50	14:50	11:30	11:30
	Sample Depth	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	8.00' - 18.00	8.00' - 18.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M91867-15	M94105-3	M94105-4	M94105-5	M94105-6	M89610-1	M89610-2
Constituent	Units							
Tetrahydrofuran	ug/L		56.0		55.0			
Chloroform	ug/L		4.6		4.5			
Toluene	ug/L							
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SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-57	WT-MW-57	WT-MW-57	WT-MW-57	WT-MW-58	WT-MW-58	WT-MW-58
	Sample ID	1144928	1144928	1152483	1152483	1139106	1139106	1144933
	Sample Date	06/02/2010	06/02/2010	09/08/2010	09/08/2010	03/03/2010	03/03/2010	06/03/2010
	Sample Time	15:05	15:05	14:35	14:35	14:00	14:00	14:30
	Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M91867-3	M91867-4	M94105-16	M94105-17	M89610-3	M89610-4	M91951-2
Constituent	Units							
Xylenes,m- & p-	ug/L							
Date PCBs Analyzed	-							
Date Metals Analyzed	-		06/07/2010		09/13/2010		03/08/2010	
Date Organics Analyzed	-	06/11/2010		09/09/2010		03/05/2010		06/17/2010
Date Physical Analyzed	-	06/18/2010		09/16/2010		03/15/2010		06/19/2010
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L		0.252		0.192		0.227	
Cadmium (unfiltered)	mg/L							
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L		0.0853		0.0461			
Zinc (unfiltered)	mg/L				0.0321			
Arochlor 1260	ug/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	0.179		0.201		0.362		0.459
Benzene	ug/L							
4-Isopropyltoluene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichloroethane	ug/L							
1,1-Dichloroethane	ug/L					1.7		
1,2-Dichloroethane	ug/L							
Chloroethane	ug/L							
Methyl tert-Butyl ether	ug/L							
1,1-Dichloroethylene	ug/L							
trans-1,2-Dichloroethylene	ug/L							
cis-1,2-Dichloroethylene	ug/L			3.2		3.9		6.4
Vinyl Chloride	ug/L					3.2		2.2
Tetrachloroethylene	ug/L	2.6		2.0		12.1		38.3
Trichloroethylene	ug/L	7.5		12.6		4.4		8.8

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-57	WT-MW-57	WT-MW-57	WT-MW-57	WT-MW-58	WT-MW-58	WT-MW-58
	Sample ID	1144928	1144928	1152483	1152483	1139106	1139106	1144933
	Sample Date	06/02/2010	06/02/2010	09/08/2010	09/08/2010	03/03/2010	03/03/2010	06/03/2010
	Sample Time	15:05	15:05	14:35	14:35	14:00	14:00	14:30
	Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M91867-3	M91867-4	M94105-16	M94105-17	M89610-3	M89610-4	M91951-2
Constituent	Units							
Tetrahydrofuran	ug/L							
Chloroform	ug/L							
Toluene	ug/L							
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-58	WT-MW-58	WT-MW-59	WT-MW-59	WT-MW-59	WT-MW-59	WT-MW-59
	Sample ID	1152490	1152490	1139101	1139101	1144932	1144932	1144939
	Sample Date	09/09/2010	09/09/2010	03/02/2010	03/02/2010	06/03/2010	06/03/2010	06/03/2010
	Sample Time	13:00	13:00	14:25	14:25	17:41	17:41	17:41
	Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94151-12	M94151-13	M89593-10	M89593-9	M91951-3	M91951-4	M91951-12
Constituent	Units							
Xylenes,m- & p-	ug/L							
Date PCBs Analyzed	-							
Date Metals Analyzed	-		09/13/2010	03/11/2010		06/08/2010		
Date Organics Analyzed	-	09/11/2010			03/04/2010		06/17/2010	06/17/2010
Date Physical Analyzed	-	09/18/2010			03/12/2010		06/19/2010	06/19/2010
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L		0.366					
Cadmium (unfiltered)	mg/L			0.177		0.191		
Chromium, Total (unfiltered)	mg/L							
Copper (unfiltered)	mg/L			0.235		0.269		
Nickel (unfiltered)	mg/L			2.9		2.58		
Zinc (unfiltered)	mg/L			0.0212				
Arochlor 1260	ug/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	0.430			0.599		1.03	1.02
Benzene	ug/L							
4-Isopropyltoluene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichloroethane	ug/L							
1,1-Dichloroethane	ug/L				15.1		9.6	10
1,2-Dichloroethane	ug/L							
Chloroethane	ug/L							
Methyl tert-Butyl ether	ug/L							
1,1-Dichloroethylene	ug/L							
trans-1,2-Dichloroethylene	ug/L							
cis-1,2-Dichloroethylene	ug/L	2.2			6.6		5.4	5.4
Vinyl Chloride	ug/L				10.2		6.1	5.6
Tetrachloroethylene	ug/L	50.4			1.9		5.5	5.4
Trichloroethylene	ug/L	4.3			5.2		4.1	4.0

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-58	WT-MW-58	WT-MW-59	WT-MW-59	WT-MW-59	WT-MW-59	WT-MW-59
	Sample ID	1152490	1152490	1139101	1139101	1144932	1144932	1144939
	Sample Date	09/09/2010	09/09/2010	03/02/2010	03/02/2010	06/03/2010	06/03/2010	06/03/2010
	Sample Time	13:00	13:00	14:25	14:25	17:41	17:41	17:41
	Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94151-12	M94151-13	M89593-10	M89593-9	M91951-3	M91951-4	M91951-12
Constituent	Units							
Tetrahydrofuran	ug/L							
Chloroform	ug/L							
Toluene	ug/L							
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Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-59	WT-MW-59	WT-MW-59				
	Sample ID	1144939	1152486	1152486				
	Sample Date	06/03/2010	09/09/2010	09/09/2010				
	Sample Time	17:41	10:55	10:55				
	Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00				
	Laboratory	ACTM	ACTM	ACTM				
	Lab. Number	M91951-6	M94151-10	M94151-11				
Constituent	Units							
Xylenes,m- & p-	ug/L							
Date PCBs Analyzed	-							
Date Metals Analyzed	-	06/08/2010		09/13/2010				
Date Organics Analyzed	-		09/11/2010					
Date Physical Analyzed	-		09/18/2010					
Arsenic (unfiltered)	mg/L							
Barium (unfiltered)	mg/L			0.144				
Cadmium (unfiltered)	mg/L	0.195		0.248				
Chromium, Total (unfiltered)	mg/L			0.0300				
Copper (unfiltered)	mg/L	0.271		0.36				
Nickel (unfiltered)	mg/L	2.63		4.1				
Zinc (unfiltered)	mg/L			0.0224				
Arochlor 1260	ug/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		1.15					
Benzene	ug/L							
4-Isopropyltoluene	ug/L							
1,1,1-Trichloroethane	ug/L							
1,1,2-Trichloroethane	ug/L							
1,1-Dichloroethane	ug/L		4.2					
1,2-Dichloroethane	ug/L							
Chloroethane	ug/L							
Methyl tert-Butyl ether	ug/L							
1,1-Dichloroethylene	ug/L							
trans-1,2-Dichloroethylene	ug/L							
cis-1,2-Dichloroethylene	ug/L		4.4					
Vinyl Chloride	ug/L		3.3					
Tetrachloroethylene	ug/L		1.7					
Trichloroethylene	ug/L		3.8					

Table 5-2
SUMMARY OF CONSTITUENTS DETECTED IN GROUNDWATER
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-59	WT-MW-59	WT-MW-59				
	Sample ID	1144939	1152486	1152486				
	Sample Date	06/03/2010	09/09/2010	09/09/2010				
	Sample Time	17:41	10:55	10:55				
	Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00				
	Laboratory	ACTM	ACTM	ACTM				
	Lab. Number	M91951-6	M94151-10	M94151-11				
Constituent	Units							
Tetrahydrofuran	ug/L							
Chloroform	ug/L							
Toluene	ug/L							
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Table 5-3
EXCEEDANCES OF DEFAULT, NUMERIC SURFACE WATER PROTECTION CRITERIA
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-48	WT-MW-48	WT-MW-48	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50
	Sample ID	1139103	1144929	1152482	1139099	1139114	1144930	1144930
	Sample Date	03/03/2010	06/03/2010	09/08/2010	03/02/2010	03/02/2010	06/02/2010	06/02/2010
	Sample Time	13:15	11:02	13:15	13:00	13:00	13:10	13:10
	Sample Depth				16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M89610-8	M91951-1A	M94105-15	M89593-4	M89593-6	M91867-14	M91867-15
Constituent	Units							
Date Metals Analyzed	-	03/08/2010	06/08/2010	09/13/2010	03/11/2010	03/11/2010		06/07/2010
Date Organics Analyzed	-						06/12/2010	
Arsenic (unfiltered)	mg/L	0.0058	0.0087	0.0121	0.0069	0.0065		0.0045
Cadmium (unfiltered)	mg/L							
Copper (unfiltered)	mg/L							
Nickel (unfiltered)	mg/L							
1,1-Dichloroethylene	ug/L						329	
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Table 5-3
EXCEEDANCES OF DEFAULT, NUMERIC SURFACE WATER PROTECTION CRITERIA
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-50	WT-MW-59	WT-MW-59	WT-MW-59
	Sample ID	1152489	1152489	1152500	1152500	1139101	1144932	1144939
	Sample Date	09/08/2010	09/08/2010	09/08/2010	09/08/2010	03/02/2010	06/03/2010	06/03/2010
	Sample Time	14:50	14:50	14:50	14:50	14:25	17:41	17:41
	Sample Depth	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94105-3	M94105-4	M94105-5	M94105-6	M89593-10	M91951-3	M91951-6
Constituent	Units							
Date Metals Analyzed	-		09/13/2010		09/13/2010	03/11/2010	06/08/2010	06/08/2010
Date Organics Analyzed	-	09/09/2010		09/09/2010				
Arsenic (unfiltered)	mg/L		0.0062		0.0056			
Cadmium (unfiltered)	mg/L					0.177	0.191	0.195
Copper (unfiltered)	mg/L					0.235	0.269	0.271
Nickel (unfiltered)	mg/L					2.9	2.58	2.63
1,1-Dichloroethylene	ug/L	304		300				
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Table 5-3
EXCEEDANCES OF DEFAULT, NUMERIC SURFACE WATER PROTECTION CRITERIA
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-59						
	Sample ID	1152486						
	Sample Date	09/09/2010						
	Sample Time	10:55						
	Sample Depth	8.00' - 18.00						
	Laboratory	ACTM						
	Lab. Number	M94151-11						
Constituent	Units							
Date Metals Analyzed	-	09/13/2010						
Date Organics Analyzed	-							
Arsenic (unfiltered)	mg/L							
Cadmium (unfiltered)	mg/L	0.248						
Copper (unfiltered)	mg/L	0.36						
Nickel (unfiltered)	mg/L	4.1						
1,1-Dichloroethylene	ug/L							
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Table 5-4
EXCEEDANCES OF INDUSTRIAL/COMMERCIAL VOLATILIZATION CRITERIA
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-50	WT-MW-50	WT-MW-50
	Sample ID	1139100	1139874	1144931	1152485	1139099	1139114	1144930
	Sample Date	03/02/2010	03/26/2010	06/02/2010	09/09/2010	03/02/2010	03/02/2010	06/02/2010
	Sample Time	14:40	09:40	15:00	12:36	13:00	13:00	13:10
	Sample Depth	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M89593-7	M90214-3	M91867-12	M94151-8	M89593-3	M89593-5	M91867-14
Constituent	Units							
Date Organics Analyzed	-	03/04/2010	03/29/2010	06/12/2010	09/11/2010	03/04/2010	03/04/2010	06/12/2010
1,1-Dichloroethylene	ug/L		7.2			41.3	40.3	329
Vinyl Chloride	ug/L	17.9	16.0	30.1	5.0	35.9	40.0	58.0
Trichloroethylene	ug/L							712
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Table 5-4
EXCEEDANCES OF INDUSTRIAL/COMMERCIAL VOLATILIZATION CRITERIA
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-50	WT-MW-50	WT-MW-58	WT-MW-58	WT-MW-59	WT-MW-59	WT-MW-59
	Sample ID	1152489	1152500	1139106	1144933	1139101	1144932	1144939
	Sample Date	09/08/2010	09/08/2010	03/03/2010	06/03/2010	03/02/2010	06/03/2010	06/03/2010
	Sample Time	14:50	14:50	14:00	14:30	14:25	17:41	17:41
	Sample Depth	16.00' - 26.0	16.00' - 26.0	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94105-3	M94105-5	M89610-3	M91951-2	M89593-9	M91951-4	M91951-12
Constituent	Units							
Date Organics Analyzed	-	09/10/2010	09/10/2010	03/05/2010	06/17/2010	03/04/2010	06/17/2010	06/17/2010
1,1-Dichloroethylene	ug/L	304	300					
Vinyl Chloride	ug/L	45.9	46.0	3.2	2.2	10.2	6.1	5.6
Trichloroethylene	ug/L	601	576					

Table 5-4
EXCEEDANCES OF INDUSTRIAL/COMMERCIAL VOLATILIZATION CRITERIA
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-59						
	Sample ID	1152486						
	Sample Date	09/09/2010						
	Sample Time	10:55						
	Sample Depth	8.00' - 18.00						
	Laboratory	ACTM						
	Lab. Number	M94151-10						
Constituent	Units							
Date Organics Analyzed	-	09/11/2010						
1,1-Dichloroethylene	ug/L							
Vinyl Chloride	ug/L	3.3						
Trichloroethylene	ug/L							
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Table 5-5
EXCEEDANCES OF RESIDENTIAL VOLATILIZATION CRITERIA
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-40	WT-MW-50	WT-MW-50	WT-MW-50
	Sample ID	1139100	1139874	1144931	1152485	1139099	1139114	1144930
	Sample Date	03/02/2010	03/26/2010	06/02/2010	09/09/2010	03/02/2010	03/02/2010	06/02/2010
	Sample Time	14:40	09:40	15:00	12:36	13:00	13:00	13:10
	Sample Depth	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	10.00' - 19.0	16.00' - 26.0	16.00' - 26.0	16.00' - 26.0
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M89593-7	M90214-3	M91867-12	M94151-8	M89593-3	M89593-5	M91867-14
Constituent	Units							
Date Organics Analyzed	-	03/04/2010	03/29/2010	06/12/2010	09/11/2010	03/04/2010	03/04/2010	06/12/2010
1,1-Dichloroethylene	ug/L	4.7	7.2	2.3		41.3	40.3	329
Vinyl Chloride	ug/L	17.9	16.0	30.1	5.0	35.9	40.0	58.0
Trichloroethylene	ug/L							712
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Table 5-5
EXCEEDANCES OF RESIDENTIAL VOLATILIZATION CRITERIA
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-50	WT-MW-50	WT-MW-58	WT-MW-58	WT-MW-59	WT-MW-59	WT-MW-59
	Sample ID	1152489	1152500	1139106	1144933	1139101	1144932	1144939
	Sample Date	09/08/2010	09/08/2010	03/03/2010	06/03/2010	03/02/2010	06/03/2010	06/03/2010
	Sample Time	14:50	14:50	14:00	14:30	14:25	17:41	17:41
	Sample Depth	16.00' - 26.0	16.00' - 26.0	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM	ACTM
	Lab. Number	M94105-3	M94105-5	M89610-3	M91951-2	M89593-9	M91951-4	M91951-12
Constituent	Units							
Date Organics Analyzed	-	09/10/2010	09/10/2010	03/05/2010	06/17/2010	03/04/2010	06/17/2010	06/17/2010
1,1-Dichloroethylene	ug/L	304	300					
Vinyl Chloride	ug/L	45.9	46.0	3.2	2.2	10.2	6.1	5.6
Trichloroethylene	ug/L	601	576					
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Table 5-5
EXCEEDANCES OF RESIDENTIAL VOLATILIZATION CRITERIA
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-59						
	Sample ID	1152486						
	Sample Date	09/09/2010						
	Sample Time	10:55						
	Sample Depth	8.00' - 18.00						
	Laboratory	ACTM						
	Lab. Number	M94151-10						
Constituent	Units							
Date Organics Analyzed	-	09/11/2010						
1,1-Dichloroethylene	ug/L							
Vinyl Chloride	ug/L	3.3						
Trichloroethylene	ug/L							
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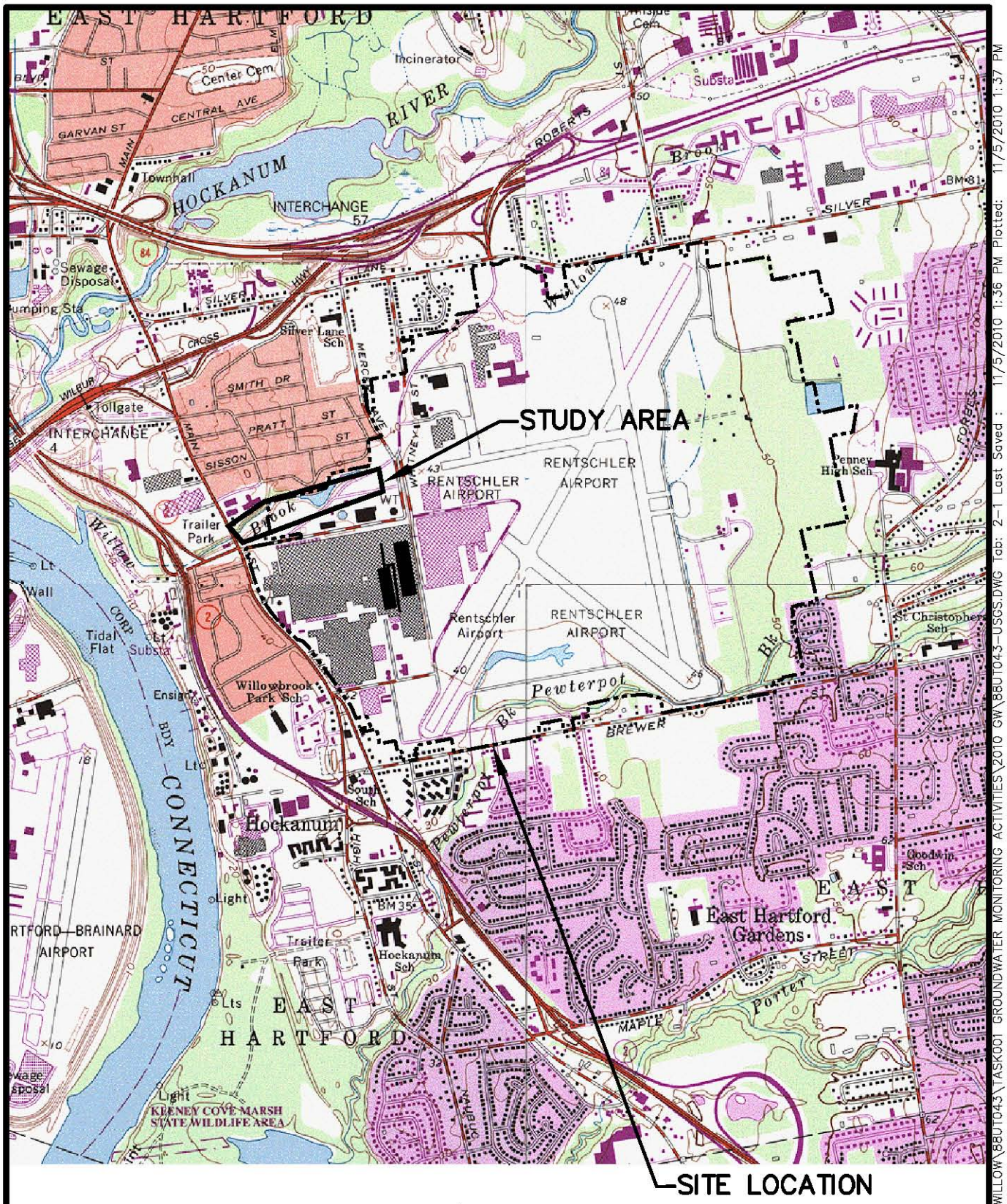
FIGURES



MAP REFERENCE;
USGS 7.5 MINUTE SERIES QUADRANGLES FOR HARTFORD NORTH, HARTFORD SOUTH, GLASTONBURY, AND MANCHESTER CONN., DATED 1964 & 1963 AND REVISED 1992.

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SCALE IN FEET

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2010 ANNUAL POST-REMEDIATION MAINTENANCE AND GROUNDWATER MONITORING PROGRAM
PRATT & WHITNEY, EAST HARTFORD, CT

SITE LOCATION MAP

Comm.No. 88UT043.001

FIGURE 2-1

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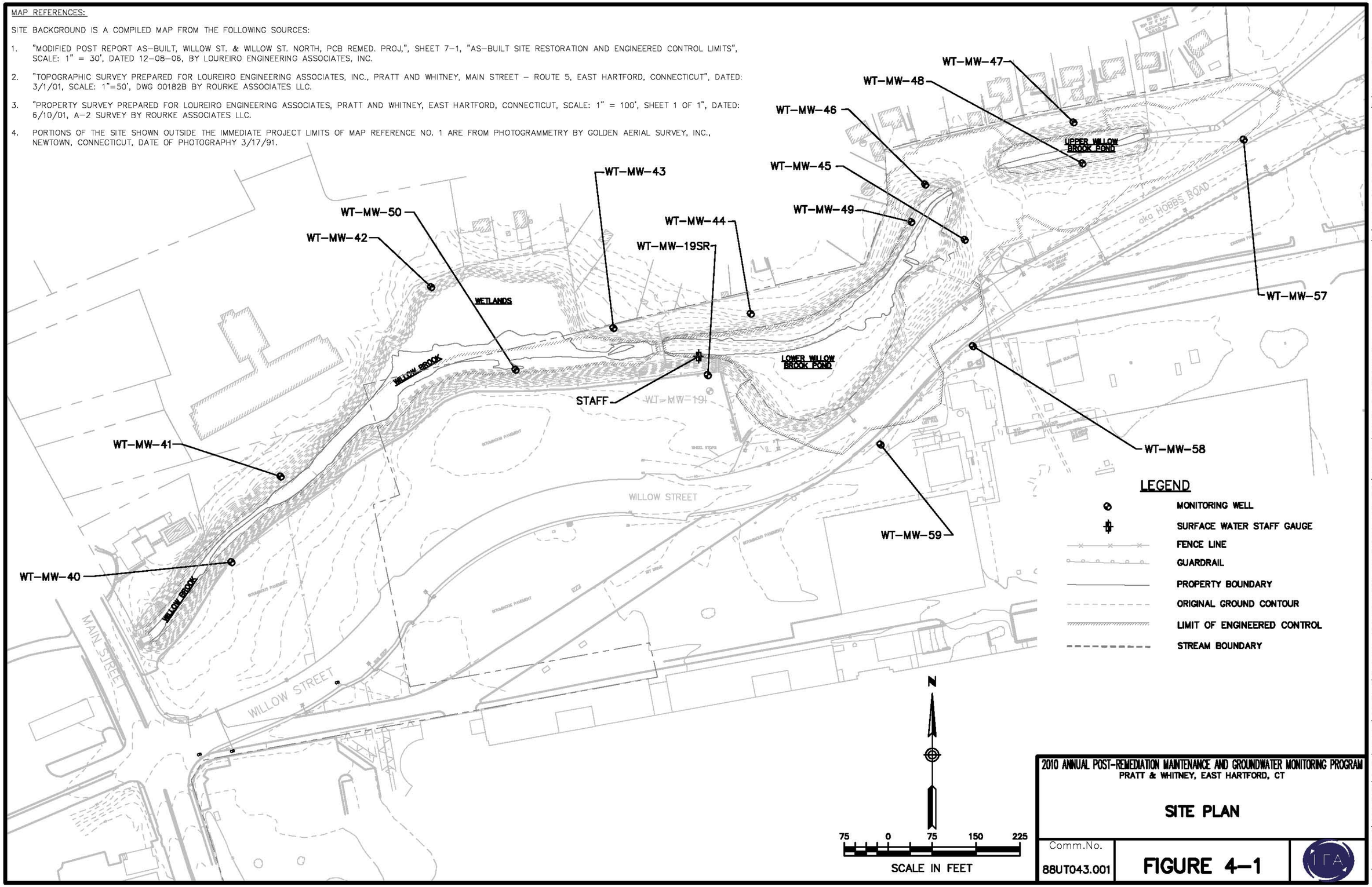
G:\AUTOCAD\PROJECTS\PWEH\WILLOW\88UT043\TASK001 GROUNDWATER MONITORING ACTIVITIES\2010 GW\88UT043-USGS.DWG Tab: 2-1 Last Saved : 11/5/2010 1:36 PM Plotted: 11/5/2010 1:37 PM

MAP REFERENCES:

SITE BACKGROUND IS A COMPILED MAP FROM THE FOLLOWING SOURCES:

1. "MODIFIED POST REPORT AS-BUILT, WILLOW ST. & WILLOW ST. NORTH, PCB REMED. PROJ,", SHEET 7-1, "AS-BUILT SITE RESTORATION AND ENGINEERED CONTROL LIMITS", SCALE: 1" = 30', DATED 12-08-06, BY LOUREIRO ENGINEERING ASSOCIATES, INC.
2. "TOPOGRAPHIC SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, INC., PRATT AND WHITNEY, MAIN STREET - ROUTE 5, EAST HARTFORD, CONNECTICUT", DATED: 3/1/01, SCALE: 1"=50', DWG 00182B BY ROURKE ASSOCIATES LLC.
3. "PROPERTY SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, PRATT AND WHITNEY, EAST HARTFORD, CONNECTICUT, SCALE: 1" = 100', SHEET 1 OF 1", DATED: 6/10/01, A-2 SURVEY BY ROURKE ASSOCIATES LLC.
4. PORTIONS OF THE SITE SHOWN OUTSIDE THE IMMEDIATE PROJECT LIMITS OF MAP REFERENCE NO. 1 ARE FROM PHOTOGRAMMETRY BY GOLDEN AERIAL SURVEY, INC., NEWTOWN, CONNECTICUT, DATE OF PHOTOGRAPHY 3/17/91.



2010 ANNUAL POST-REMEDIATION MAINTENANCE AND GROUNDWATER MONITORING PROGRAM
PRATT & WHITNEY, EAST HARTFORD, CT

SITE PLAN

Comm.No. 88UT043.001

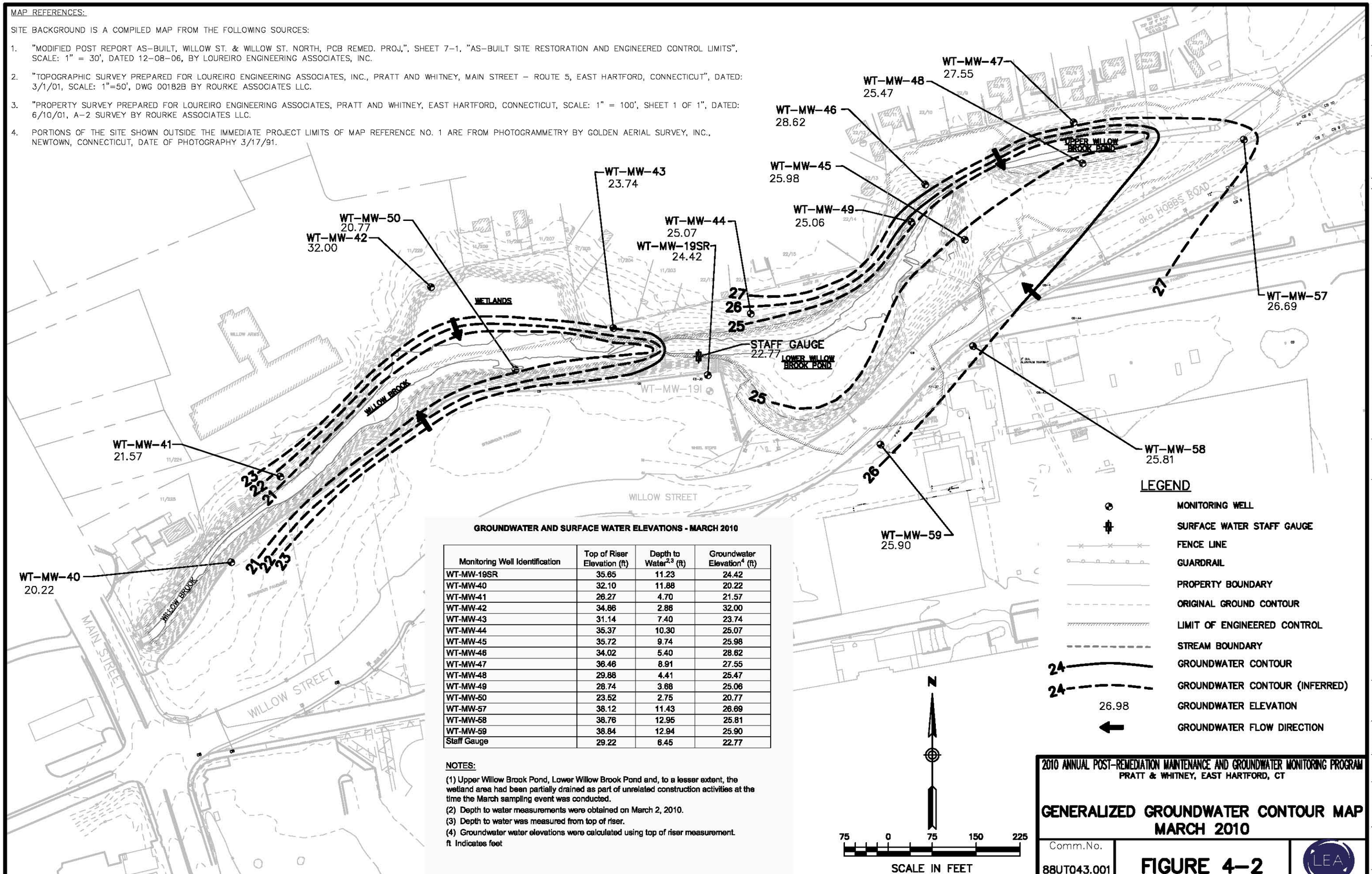
FIGURE 4-1

G:\AUTOCAD\PROJECTS\PWEH\WILLOW\88UT043\TASK001 GROUNDWATER MONITORING ACTIVITIES\2010 GW\88UT043-SITE.DWG Tab: 1 Last Saved : 11/5/2010 1:39 PM Plotted: 11/5/2010 1:39 PM

MAP REFERENCES:

SITE BACKGROUND IS A COMPILED MAP FROM THE FOLLOWING SOURCES:

1. "MODIFIED POST REPORT AS-BUILT, WILLOW ST. & WILLOW ST. NORTH, PCB REMED. PROJ.", SHEET 7-1, "AS-BUILT SITE RESTORATION AND ENGINEERED CONTROL LIMITS", SCALE: 1" = 30', DATED 12-08-06, BY LOUREIRO ENGINEERING ASSOCIATES, INC.
2. "TOPOGRAPHIC SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, INC., PRATT AND WHITNEY, MAIN STREET – ROUTE 5, EAST HARTFORD, CONNECTICUT", DATED: 3/1/01, SCALE: 1"=50', DWG 00182B BY ROURKE ASSOCIATES LLC.
3. "PROPERTY SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, PRATT AND WHITNEY, EAST HARTFORD, CONNECTICUT, SCALE: 1" = 100', SHEET 1 OF 1", DATED: 6/10/01, A-2 SURVEY BY ROURKE ASSOCIATES LLC.
4. PORTIONS OF THE SITE SHOWN OUTSIDE THE IMMEDIATE PROJECT LIMITS OF MAP REFERENCE NO. 1 ARE FROM PHOTOGRAMMETRY BY GOLDEN AERIAL SURVEY, INC., NEWTOWN, CONNECTICUT, DATE OF PHOTOGRAPHY 3/17/91.



GROUNDWATER AND SURFACE WATER ELEVATIONS - MARCH 2010

Monitoring Well Identification	Top of Riser Elevation (ft)	Depth to Water[2,3] (ft)	Groundwater Elevation[4] (ft)
WT-MW-19SR	35.65	11.23	24.42
WT-MW-40	32.10	11.88	20.22
WT-MW-41	26.27	4.70	21.57
WT-MW-42	34.86	2.86	32.00
WT-MW-43	31.14	7.40	23.74
WT-MW-44	35.37	10.30	25.07
WT-MW-45	35.72	9.74	25.98
WT-MW-46	34.02	5.40	28.62
WT-MW-47	36.46	8.91	27.55
WT-MW-48	29.88	4.41	25.47
WT-MW-49	28.74	3.68	25.06
WT-MW-50	23.52	2.75	20.77
WT-MW-57	38.12	11.43	26.69
WT-MW-58	38.76	12.95	25.81
WT-MW-59	38.84	12.94	25.90
Staff Gauge	29.22	6.45	22.77

NOTES:

(1) Upper Willow Brook Pond, Lower Willow Brook Pond and, to a lesser extent, the wetland area had been partially drained as part of unrelated construction activities at the time the March sampling event was conducted.
(2) Depth to water measurements were obtained on March 2, 2010.
(3) Depth to water was measured from top of riser.
(4) Groundwater water elevations were calculated using top of riser measurement.
ft Indicates feet

2010 ANNUAL POST-REMEDIATION MAINTENANCE AND GROUNDWATER MONITORING PROGRAM
PRATT & WHITNEY, EAST HARTFORD, CT

GENERALIZED GROUNDWATER CONTOUR MAP MARCH 2010

Comm.No. 88UT043.001

FIGURE 4-2

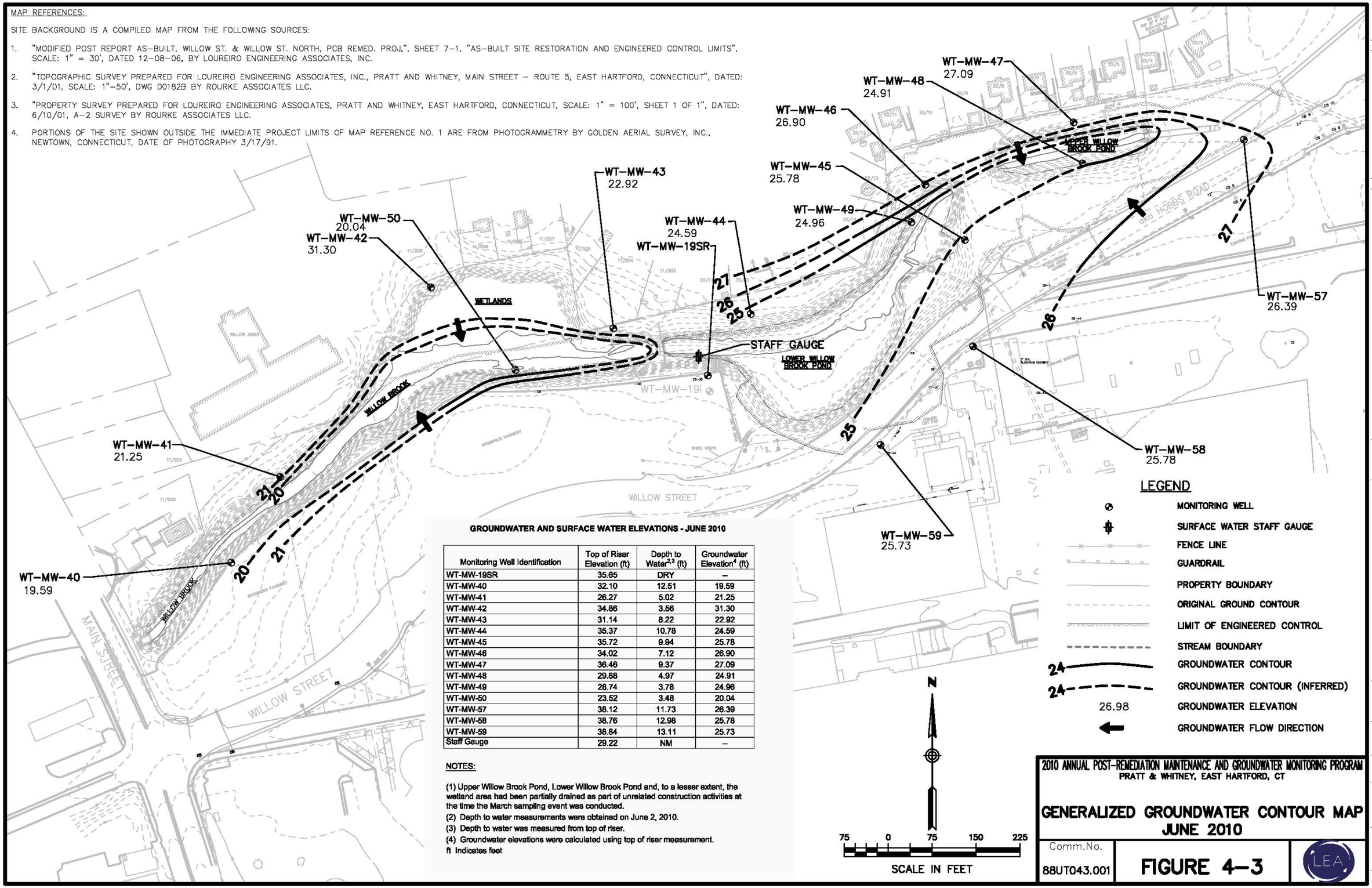
LEA

G:\AUTOCAD\PROJECTS\PWEH\WILLOW\88UT043\TASK001 GROUNDWATER MONITORING ACTIVITIES\2010 GW\88UT043.001 GW-2010_03.DWG Tab: 1 Last Saved : 11/9/2010 1:50 PM Plotted: 11/9/2010 1:50 PM

MAP REFERENCES:

SITE BACKGROUND IS A COMPILED MAP FROM THE FOLLOWING SOURCES:

1. "MODIFIED POST REPORT AS-BUILT, WILLOW ST. & WILLOW ST. NORTH, PCB REMED. PROJ.", SHEET 7-1, "AS-BUILT SITE RESTORATION AND ENGINEERED CONTROL LIMITS", SCALE: 1" = 30', DATED 12-08-06, BY LOUREIRO ENGINEERING ASSOCIATES, INC.
2. "TOPOGRAPHIC SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, INC., PRATT AND WHITNEY, MAIN STREET – ROUTE 5, EAST HARTFORD, CONNECTICUT", DATED: 3/1/01, SCALE: 1"=50', DWG 00182B BY ROURKE ASSOCIATES LLC.
3. "PROPERTY SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, PRATT AND WHITNEY, EAST HARTFORD, CONNECTICUT, SCALE: 1" = 100', SHEET 1 OF 1", DATED: 6/10/01, A-2 SURVEY BY ROURKE ASSOCIATES LLC.
4. PORTIONS OF THE SITE SHOWN OUTSIDE THE IMMEDIATE PROJECT LIMITS OF MAP REFERENCE NO. 1 ARE FROM PHOTOGRAMMETRY BY GOLDEN AERIAL SURVEY, INC., NEWTOWN, CONNECTICUT, DATE OF PHOTOGRAPHY 3/17/91.



GROUNDWATER AND SURFACE WATER ELEVATIONS - JUNE 2010

Monitoring Well Identification	Top of Riser Elevation (ft)	Depth to Water[2,3] (ft)	Groundwater Elevation[4] (ft)
WT-MW-19SR	35.65	DRY	–
WT-MW-40	32.10	12.51	19.59
WT-MW-41	26.27	5.02	21.25
WT-MW-42	34.86	3.56	31.30
WT-MW-43	31.14	8.22	22.92
WT-MW-44	35.37	10.78	24.59
WT-MW-45	35.72	9.94	25.78
WT-MW-46	34.02	7.12	26.90
WT-MW-47	36.46	9.37	27.09
WT-MW-48	29.88	4.97	24.91
WT-MW-49	28.74	3.78	24.96
WT-MW-50	23.52	3.48	20.04
WT-MW-57	38.12	11.73	26.39
WT-MW-58	38.76	12.98	25.78
WT-MW-59	38.84	13.11	25.73
Staff Gauge	29.22	NM	–

NOTES:

(1) Upper Willow Brook Pond, Lower Willow Brook Pond and, to a lesser extent, the wetland area had been partially drained as part of unrelated construction activities at the time the March sampling event was conducted.
(2) Depth to water measurements were obtained on June 2, 2010.
(3) Depth to water was measured from top of riser.
(4) Groundwater elevations were calculated using top of riser measurement.
ft Indicates feet

2010 ANNUAL POST-REMEDIATION MAINTENANCE AND GROUNDWATER MONITORING PROGRAM
PRATT & WHITNEY, EAST HARTFORD, CT

GENERALIZED GROUNDWATER CONTOUR MAP JUNE 2010

Comm.No. 88UT043.001

FIGURE 4-3

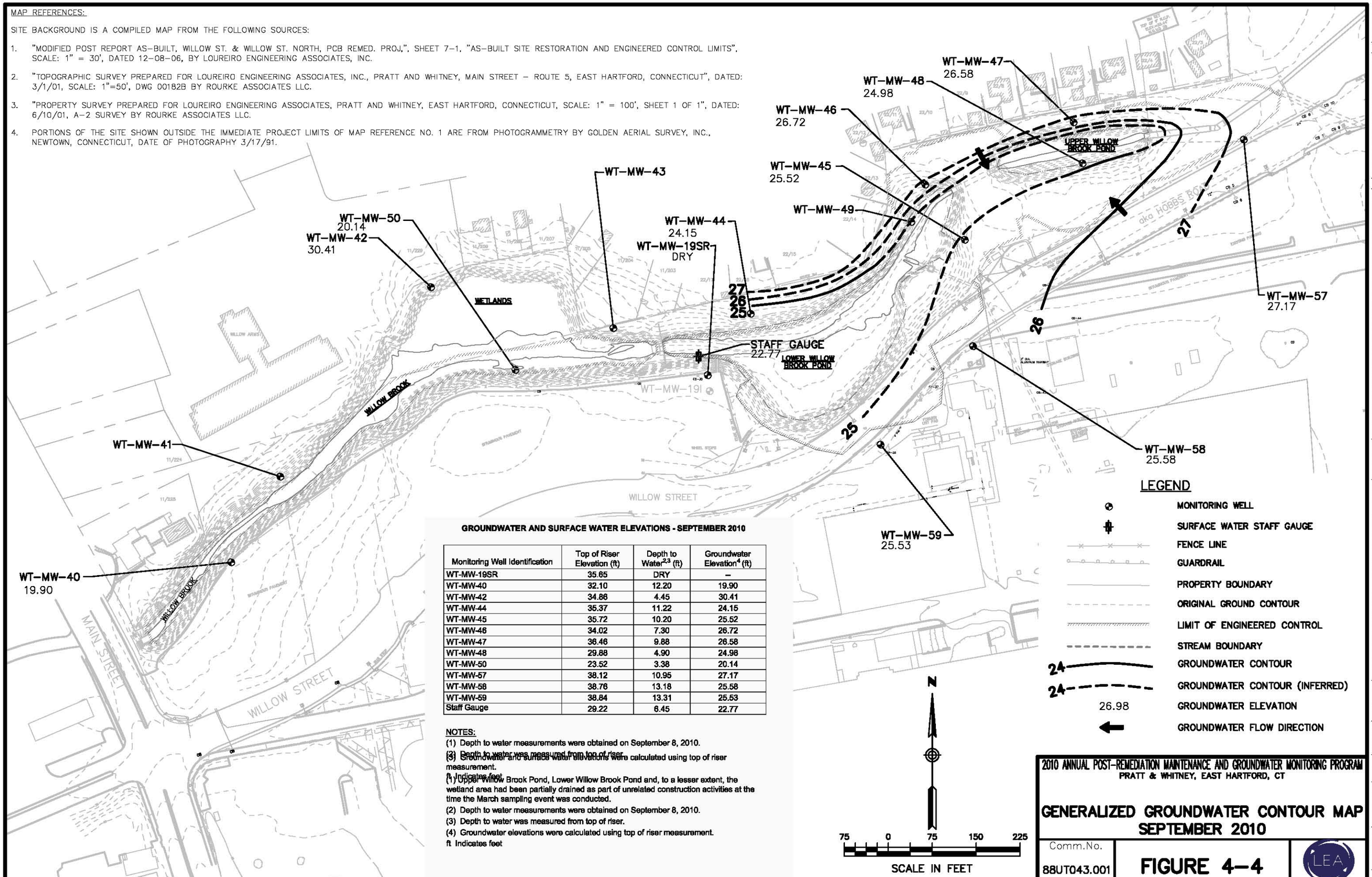
LEA

G:\AUTOCAD\PROJECTS\PWEH\WILLOW\88UT043\TASK001 GROUNDWATER MONITORING ACTIVITIES\2010 GW\88UT043.001 GW-2010_06.DWG Tab: 1 Last Saved : 11/5/2010 12:02 PM Plotted: 11/5/2010 12:10 PM

MAP REFERENCES:

SITE BACKGROUND IS A COMPILED MAP FROM THE FOLLOWING SOURCES:

1. "MODIFIED POST REPORT AS-BUILT, WILLOW ST. & WILLOW ST. NORTH, PCB REMED. PROJ.", SHEET 7-1, "AS-BUILT SITE RESTORATION AND ENGINEERED CONTROL LIMITS", SCALE: 1" = 30', DATED 12-08-06, BY LOUREIRO ENGINEERING ASSOCIATES, INC.
2. "TOPOGRAPHIC SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, INC., PRATT AND WHITNEY, MAIN STREET – ROUTE 5, EAST HARTFORD, CONNECTICUT", DATED: 3/1/01, SCALE: 1"=50', DWG 00182B BY ROURKE ASSOCIATES LLC.
3. "PROPERTY SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, PRATT AND WHITNEY, EAST HARTFORD, CONNECTICUT, SCALE: 1" = 100', SHEET 1 OF 1", DATED: 6/10/01, A-2 SURVEY BY ROURKE ASSOCIATES LLC.
4. PORTIONS OF THE SITE SHOWN OUTSIDE THE IMMEDIATE PROJECT LIMITS OF MAP REFERENCE NO. 1 ARE FROM PHOTOGRAMMETRY BY GOLDEN AERIAL SURVEY, INC., NEWTOWN, CONNECTICUT, DATE OF PHOTOGRAPHY 3/17/91.



GROUNDWATER AND SURFACE WATER ELEVATIONS - SEPTEMBER 2010

Monitoring Well Identification	Top of Riser Elevation (ft)	Depth to Water[2,3] (ft)	Groundwater Elevation[4] (ft)
WT-MW-19SR	35.65	DRY	–
WT-MW-40	32.10	12.20	19.90
WT-MW-42	34.86	4.45	30.41
WT-MW-44	35.37	11.22	24.15
WT-MW-45	35.72	10.20	25.52
WT-MW-46	34.02	7.30	26.72
WT-MW-47	36.46	9.88	26.58
WT-MW-48	29.88	4.90	24.98
WT-MW-50	23.52	3.38	20.14
WT-MW-57	38.12	10.95	27.17
WT-MW-58	38.76	13.18	25.58
WT-MW-59	38.84	13.31	25.53
Staff Gauge	29.22	6.45	22.77

NOTES:
(1) Depth to water measurements were obtained on September 8, 2010.
(2) Depth to water was measured from top of riser.
(3) Groundwater and surface water elevations were calculated using top of riser measurement.
ft Indicates feet.
(1) Upper Willow Brook Pond, Lower Willow Brook Pond and, to a lesser extent, the wetland area had been partially drained as part of unrelated construction activities at the time the March sampling event was conducted.
(2) Depth to water measurements were obtained on September 8, 2010.
(3) Depth to water was measured from top of riser.
(4) Groundwater elevations were calculated using top of riser measurement.
ft Indicates feet

2010 ANNUAL POST-REMEDIATION MAINTENANCE AND GROUNDWATER MONITORING PROGRAM
PRATT & WHITNEY, EAST HARTFORD, CT

GENERALIZED GROUNDWATER CONTOUR MAP SEPTEMBER 2010

Comm.No. 88UT043.001

FIGURE 4-4

G:\AUTOCAD\PROJECTS\PWEH\WILLOW\88UT043\TASK001 GROUNDWATER MONITORING ACTIVITIES\2010 GW\88UT043.001 GW-2010_09.DWG Tab: 1 Last Saved : 11/5/2010 12:11 PM Plotted: 11/5/2010 12:12 PM

Appendix A

Copies of Field Paperwork

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	88UT~~907.001~~ 043.001	Page 1 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/2/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Arrived at Site 800 Departed from Site 1550 Vehicle ST-14, ST-12

Odometer (Start)Re turn

Site Activities

	Soil Sampling		Geoprobe Work
✓	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	on site
Sampling for	see chain
Laboratories used	Accutest
Paperwork & Equipment left at/in	office
Site Contact	J Thompson/Mark Hoff
Contractors on Site	
Time and place to meet contractors	

Non-productive Time

	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Checked By

Robin L. McKinney

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	9 gal	728342
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 50 Precipitation — Wind -

Comments

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
1	Miscellaneous Health & Safety Items	060
160'	Tubing, ~~1/2"~~, NOS 4"	007
8'	Tubing, ~~3/8"~~, NOS silicone	008
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
3	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
3	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
3	Water Level Indicator	028
3	Water Quality Meter w/Flow Cell	070

Field Personnel R Zurkowski S Kim A Clarke

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**88UT907.001**	Page 2 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/2/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Description of Site Activities

800 R Zurkowski on site
830 A Clarke/S Kim on site w/ bottles
Contact Jeff Thompson for prejob meeting; J Thompson informs field personnel that Mark Hoff will meet us for prejob mtg at 830 am
910 CONTACTED J Thompson AGAIN.
MET Mark Hoff for prejob
925 CALIBRATED EQUIPMENT
EQUIPMENT SET UP ON FAR LOCATIONS (UPPER POND)
950 BEGIN GW SAMPLING
A CLARKE BEGINS WATER LEVEL
SK 1310 A CLARKE COMPLETES WATER LEVELS. BEGINS SAMPLING WT-MW-58
1520 ~~1315~~ COMPLETED GW SAMPLING
DISPOSED OF PURGE WATER INTO DRUM 728342
EQUIPMENT BREAKDOWN
1545 Relinquish samples to Benny fr Accutest
1550 OFFSITE

SK

Field Personnel KIM ZURKOWSKI CLARKE

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT907.001**	Page 3 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/12/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

pH Meter/Serial # 09J100085

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	925	✓	✓	✓	✓	✓	✓
Calibration Check							
Calibration Check							

02C0985AD
05E2392 AA

Turbidity Meter/Serial # 3522

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	925	✓	✓	✓	✓
Calibration Check					
Calibration Check					

3521
3520

PID Meter/Serial # 3816

	Time	Standard	Meter Reading	Zero with
Initial Calibration	925	isobutylene	100	ambient air
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			SK
Calibration Check			
Calibration Check			

Comments

Field Personnel KIM ZURKOWSKI CLARICE

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No. **88UT907.001**
Project UTC P&W Willowpond Quarterly GW Mon.
Location P&W East Hartford, East Hartford, CT
Client Pratt & Whitney Division - JTot

Date 3/2/10

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1139115	TRIP BLANK	900	BKT				
1139114	WT-MW-50	1300	GW			Dup of 1139099 1139090F	
1139114DF							

Field Personnel KIM ZOVKOWSKI CLARKE

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**88UT907.001**	Page 5 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/2/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Description of Site Activities

WT-MW-49 → DTW @ 3.68, DTB @ 7.49

WT-MW-46 → DTW @ 5.40, DTB @ 12.62

WT-MW-47 → DTW @ 8.91, DTB @ 14.35

WT-MW-57 → DTW @ 11.43, DTB @ 18.06

WT-MW-48 → DTW @ 4.41, DTB @ 7.54

WT-MW-45 → DTW @ 9.74, DTB @ 13.65

WT-MW-42 → DTW @ 2.86, DTB @ 8.75

WT-MW-43 → DTW @ 7.40, DTB @ 11.87

WT-MW-44 → DTW @ 10.30, DTB @ 13.57

WT-MW-41 → DTW @ 4.70, DTB @ 9.44

WT-MW-50 → DTW @ 2.75 DTB @ 5.21

Staff → DTW @ 6.45

WT-MW-19SR → DTW @ 11.23, DTB @ 11.85

WT-MW-58 → DTW @ 12.95, DTB @ 17.75

WT-MW-59 → DTW @ 12.94, DTB @ 17.80

WT-MW-40 → DTW @ 11.88, DTB @ 17.80

* No PID readings found during water level gauging

Field Personnel [signature] Sophia Kim Rob Zurkowski

Signature [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 6 of 10
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 10:45
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-42 Sample Number(s) 1139095 1139095uf

Initial Field Data and Measurements

Depth of Well 8.75' Reference Used TOPC
Depth to Water 2.86' PID/FID Reading NM
Height of Column 5.89' Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector Road Box / Stickup
Ground to Reference NM
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1005	2.86	300	100	0	→	→	→	→	→	→	PURGING
1025	*	↓	↓	2	9.78	388	5.72	99.9	3.31	1.94	
1035	↓	↓	↓	3	10.28	388	5.74	99.5	2.48	1.35	
1040	↓	↓	↓	3.5	10.50	388	5.74	99.8	2.55	0.64	
1045	↓	↓	↓	4	10.39	389	5.74	99.8	2.49	0.65	SAMPLE

SP

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, LLG, Meth, DI
Waste Container ID 728342

Additional Comments * COULD NOT MONITOR DUE TO WELL DIAMETER

Field Personnel

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 7 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:10
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-41 Sample Number(s) 1139098 1139098cf

Initial Field Data and Measurements

Depth of Well 9.44 Reference Used TOR
Depth to Water 4.70 PID/FID Reading —
Height of Column 4.74 Interface Yes (No) If yes, Depth — Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	~~Comment~~ DO%
10:10	4.70	300	120	START PURGING							
10:20	↓	↓	↓	1.2	11.43	878	6.73	113.4	2.05	3.21	18.8
10:30				2.4	11.00	868	6.31	127.0	1.08	2.74	9.8
10:40				3.6	10.94	869	6.30	127.3	1.05	2.46	9.6
10:50				4.8	11.12	861	6.31	127.4	0.99	1.81	9.2
11:00				6	11.06	865	6.30	127.4	1.04	1.32	9.4
11:10				7.2	11.08	863	6.30	127.6	1.02	0.86	9.5

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? liquinox, DI, Methanol on WLI
Waste Container ID 728342

Additional Comments

Field Personnel Rob Zurkowski, Sophia K, Alex K. Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 8 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:10
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-43 Sample Number(s) 1139096 ~~1139909~~ 1139096uf

Initial Field Data and Measurements

Depth of Well 11.97' Reference Used TOC
Depth to Water 7.40' PID/FID Reading NM
Height of Column 4.57' Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector Road Box / Stickup
Ground to Reference NM
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked		
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1130	7.40	300	100	0	→						PURGING
1150	*	↓	↓	2	8.84	274	6.11	129.9	4.46	1.01	
1200	↓	↓	↓	3	8.89	274	6.07	127.3	2.69	0.73	
1205	↓	↓	↓	3.5	8.85	273	6.07	125.2	2.84	0.46	
1210	↓	↓	↓	4	8.85	272	6.07	124.5	2.77	0.57	SAMPLE

SK

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, LIQ, DI, Meth, DI
Waste Container ID 728342

Additional Comments * NM DUE TO WELL DIAMETER

Field Personnel

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 9 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:00
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-50 Sample Number(s) 1139099 1139099 of P 1139114 of 1139114

Initial Field Data and Measurements

Depth of Well 5.21 Reference Used TOR

Depth to Water ~~2.88~~ ~~2.75~~ 2.75 PID/FID Reading —

Height of Column Interface Yes / No If yes, Depth — Lighter / Heavier

Well Casing Diameter 2" Material PVC

Protector Road Box / Stickup

Ground to Reference 2.5"

Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	DO% ~~Comment~~
12:00	~~2.88~~ 2.75	300	120	START	PURGING						
12:10	2.78			1.2	13.43	2320	7.38	-111.0	0.87	12.6	8.1
12:20	2.78			2.4	13.61	2314	7.21	-112.7	1.31	6.41	2.8
12:30				3.6	13.53	2568	7.15	-114.6	1.60	4.84	3.0
12:40				4.8	13.48	2541	7.14	-113.8	1.45	4.31	2.9
12:50				6	13.42	2544	7.14	-114.2	1.51	3.86	2.8
13:00				7.2	13.44	2540	7.14	-114.4	1.50	3.22	2.9

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? Liquinox, DI, Methanol on WLI

Waste Container ID 728342

Additional Comments Dup Done

Field Personnel Rob Zorkowski, Sophia K., Alex C. Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 10 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:00
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-44 Sample Number(s) 1139097 1139097ef

Initial Field Data and Measurements

Depth of Well 13.57' Reference Used top c
Depth to Water 10.30' PID/FID Reading NM
Height of Column 3.27' Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector Road Box / Stickup
Ground to Reference NM
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1330	10.30	300	100	0	→						PURGING
1350	*	↓	↓	2	11.70	376	6.43	114.8	2.63	0.69	* 376
1355	↓	↓	↓	2.5	11.72	376*	6.43	113.6	2.58	0.55	
1400				3	11.67	375	6.43	112.6	2.72	0.66	SAMPLE

SK

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, LIQ, DI, Meth, DI
Waste Container ID 728312

Additional Comments * NM DUE TO WELL DIAMETER

Field Personnel

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 11 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/12/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:25
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-59 Sample Number(s) 1139101 1139101uf

Initial Field Data and Measurements

Depth of Well 17.80 Reference Used top of pvc riser
Depth to Water 12.94 PID/FID Reading 0.0
Height of Column 4.86 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 15" Material pvc
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L.)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment DO%
1310	12.94	300	120	0	←		start purging				→
1315	13.35				12.97	1144	7.21	88.4	1.74	326	16.0
1325	13.36				13.01	1975	6.59	91.7	.87	22.4	8.3
1335	13.36				12.80	2454	6.60	81.0	.57	16.7	5.5
1345	13.38				12.91	2809	6.66	78.2	.44	11.2	4.2
1355	13.40				12.71	2947	6.71	71.1	.37	8.91	3.5
1405	13.39				12.61	2984	6.73	61.9	.38	6.21	3.7
1410	13.40				12.63	2988	6.72	60.1	.38	5.13	3.7
1415				7.8	12.56	2990	6.73	59.9	.39	4.71	3.8
1420				8.4	12.63	2992	6.73	59.8	.38	4.69	3.7
1425				9	12.63	2991	6.74	59.9	.39	4.82	3.7

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 728342

Additional Comments

Field Personnel Sylvia Kim, Robert Kurkowski *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 12 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/12/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:40
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-40 Sample Number(s) 1139100 1139100 of

Initial Field Data and Measurements

Depth of Well 17.80 Reference Used TOR
Depth to Water 11.88 PID/FID Reading —
Height of Column 5.92 Interface Yes / No If yes, Depth — Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	~~Comment~~ DO%
13:40	11.88	300	120	START PURGING							
13:50	↓	↓	↓	1.2	14.03	1624	7.44	-146.3	1.53	11.2	10.8
13:00				2.4	12.92	1526	7.29	-145.5	1.13	6.71	10.7
14:10				3.6	12.79	1562	7.27	-145.8	1.15	4.92	10.9
14:20				4.8	12.76	1541	7.26	-145.7	1.16	4.41	10.6
14:30				6	12.61	1548	7.26	-145.4	1.15	4.08	10.4
14:40				7.2	12.68	1545	7.26	-145.6	1.15	3.85	10.6

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? ligonox, DI, Methanol on WLI
Waste Container ID 728342

Additional Comments

Field Personnel Rob Zerkowski, Sophia K., Alex C. Signature

ACCUTEST Laboratories

2/2

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LEA
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860 410 3000

FACILITY INFORMATION

PROJECT NAME: WILLOW POND POST-REMEDIATION
LOCATION: P+W EAST HARTFORD
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC 8260B	CT ETPH	PCBs 8082	Metals Total RCRA 8 Metals + Cu, Ni, Zn	LAB USE ONLY
	1139095	3/2/10	1045	SK	GW	6	2				4	X	X	X		
	1139095uf		1045			1			1						X	
	1139096		1210			6	2				4	X	X	X		
	1139096uf		1210			1			1						X	
	1139097		1400			6	2				4	X	X	X		
	1139097uf		1400			1			1						X	
	1139115	3/2/10	900	SK	GW	1	1					X				

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs + PCBs + provide CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	3/2/10 1545	1. [signature]	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

ACCUTEST Laboratories

1 of 2

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB212009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Assoc.
ADDRESS: 100 Northwest Dr.
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: UTC Pty Wilkinson Quarterly GW Mon
LOCATION: Pty East Hartford, CT
PROJECT NO.: 88UT043.001
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCE	VOCs via 8260B	CT ETPH	PCBs via 8082	Total RCRA 8 metals Cr, Ni, Zn	LAB USE ONLY
	1139098	3/2/10	11:10	RJZ	GW	6	X					X	X	X	X		
	1139098uf		11:10			1			X			X				X	
	1139099		13:00			6	X					X	X	X	X		
	1139099uf		13:00			1			X			X				X	
	1139114		13:00			6	X					X	X	X	X		
	1139114uf		13:00			1			X			X				X	
	1139100		14:40			6	X					X	X	X	X		
	1139100uf		14:40	RJZ		1			X			X				X	
	1139101		14:25	AKC		6	X					X	X	X	X		
	1139101uf	3/2/10	14:25	AKC	GW	1			X			X				X	

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs and PCBs and provide CT RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	3/2/10 1545	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**88UT907.001**	Page 1 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Arrived at Site 0810 Departed from Site 1520 Vehicle ST-14, ST-12, personal

Odometer (Start)Return 60 miles

Site Activities

- [ ] Soil Sampling
- [x] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ]
- [x] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	
Sampling for	VOCs, TPH, PCBs, Metals
Laboratories used	Accutest
Paperwork & Equipment left at/in	Rob McKinney
Site Contact	Jeff Thompson
Contractors on Site	LEA
Time and place to meet contractors	

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Checked By

Robin McKinney

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	3 15 gal	742059
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 34° Precipitation snow shower Wind strong

Comments

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
1	Miscellaneous Health & Safety Items	060
160'	Tubing, ~~1/2"~~, NOS 1/4" poly	007
8'	Tubing, ~~3/8"~~, NOS Silicone	008
1	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
3	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
3	Turbidimeter	023
SR ~~1~~	VOC Analyzer, Photovac 2020 (PID)	012
5	Water Level Indicator	028
3	Water Quality Meter w/Flow Cell	070

Field Personnel Rob Sophia Kim *Signature*

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT907.001**	Page 3 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

pH Meter/Serial #

		Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	9900323AA	0900	✓	✓	✓	1000	100	100.1
Calibration Check	05E2392AA	↓	↓	↓	↓	↓	↓	99.9
Calibration Check	RR05091	↓	↓	↓	↓	↓	↓	100.0

Turbidity Meter/Serial #

		Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	3521	0930	✓	✓	✓	
Calibration Check	3520	↓	✓	✓	✓	
Calibration Check	3522	↓	✓	✓	✓	

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel [signature] Sophia Kim Rob Zurkowski

Signature [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No.	**88UT907.001**	Page 4 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1139111		0900	BKT			Trip Blank	
113912		1500	BKE			Equipment Blank	

Field Personnel [signature] Rob Zuhowski Sophia Hom

Signature [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 5 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 1105
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-47 Sample Number(s) 1139102 1139102uf

Initial Field Data and Measurements

Depth of Well NM Reference Used top of pvc riser
Depth to Water ↓ PID/FID Reading NM
Height of Column ↓ Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1/2" Material pvc
Protector Road Box / Stickup
Ground to Reference
Comments problems encountered with 1/2 water level indicator

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment DO%
1000		300	120	0			start purging				
1015	NA				9.16	372	7.34	172.4	4.09	11.3	35.3
1025					9.13	352	7.16	173.0	3.95	8.65	34.0
1035					8.88	339	6.26	192.6	3.21	5.72	27.7
1045					8.94	335	6.14	198.2	3.14	3.43	27.1
1055				6.6	8.73	332	6.01	206.3	3.07	2.39	26.4
1100				7.2	8.72	332	6.00	206.8	3.06	2.41	26.4
1105				7.8	8.76	332	6.00	206.9	3.06	1.36	26.4

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 742059

Additional Comments

Field Personnel [signature] Sophia Hinn Rob Zurkowski *Signature* [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 6 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/23/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:15
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-48 Sample Number(s) 1139103 1139103uf

Initial Field Data and Measurements

Depth of Well 7.54 Reference Used top of pvc riser
Depth to Water 4.31 PID/FID Reading NM
Height of Column 3.23 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material pvc
Protector Road Box Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment DO%
1205	4.31	300	120	0	←		start purging				→
1215	4.37				5.41	354	6.87	-135.1	.09	34.6	.8
1225	4.79				5.42	354	6.89	-135.8	.12	26.2	1.0
1235	5.16				5.44	354	6.91	-136.1	.14	18.4	1.2
1245	5.42				5.57	357	6.87	-141.7	.12	12.3	1.0
1255	5.47				5.20	383	7.01	-154.6	.11	6.23	0.9
1305	5.49			7.2	5.11	383	6.99	-154.9	.11	5.16	0.9
1310	5.50			7.8	5.15	382	7.01	-155.1	.11	4.73	0.8
1315	5.50			8.4	5.06	382	6.99	-155.1	.11	4.81	0.8

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 742059

Additional Comments

Field Personnel [illegible] Sebastian, Rob Zuchowski *Signature* [illegible]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 7 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:40
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-19SR Sample Number(s) 1139104

Initial Field Data and Measurements

Depth of Well 11.91 Reference Used top of pvc riser
Depth to Water 11.33 PID/FID Reading NM
Height of Column .58 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material pvc
Protector Road Box / Stickup
Ground to Reference _____
Comments _____

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1405	11.33	300	100	0	←		start purging				→
1408	Dry										

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 742059

Additional Comments 1408. well dry. Will attempt to collect VOC sample per Robin Mhinney's request

Field Personnel [signature] Sophia Kim Rob Zurkowski *Signature* [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 8 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:30
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-57 Sample Number(s) 1139105 1139105UF

Initial Field Data and Measurements

Depth of Well 18.10' Reference Used TOPC
Depth to Water 11.42' PID/FID Reading NM
Height of Column 6.68' Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector (Road Box) / Stickup
Ground to Reference NM
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
950	11.42	300	100	0	→			-35.9		→	PURGING
1015	12.05	↓	↓	2.5	9.53	3269	6.16	0.14	0.16	37.3	
1025	↓	↓	↓	3.5	9.51	3167	6.17	-39.3	0.21	28.5	
1040	↓	↓	↓	5	10.01	3017	6.18	-48.0	0.13	18.0	
1055	↓	↓	↓	6.5	9.99	2992	6.19	-48.8	0.11	10.4	
1105	↓	↓	↓	7.5	10.09	3132	6.17	-55.7	0.10	7.80	
1115	↓	↓	↓	8.5	10.27	3017	6.19	-55.1	0.08	4.36	
1120	↓	↓	↓	9	10.23	3032	6.19	-57.4	0.10	3.42	
1130	↓	↓	↓	9.5	10.16	3004	6.19	-58.2	0.10	3.09	SAMPLE

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID

Additional Comments

Field Personnel Sophia Kim ***Signature***

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 9 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:00
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-58 Sample Number(s) 1139106 1139106bf

Initial Field Data and Measurements

Depth of Well 17.75 Reference Used T of C
Depth to Water 12.90 PID/FID Reading NM
Height of Column 4.85 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference NM
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1220	~~300~~ 12.90	300	150	0	→						PURGING
1250	12.93		120	4.5	11.23	1273	6.50	-83.3	0.33	29.8	
1300				5.7	12.45	1252	6.47	-92.3	0.35	18.8	
1310				6.9	12.80	1248	6.48	-98.2	0.31	11.6	
1320				8.1	12.98	1249	6.49	-103.2	0.32	7.09	
1330				9.3	12.85	1250	6.50	-108.6	0.26	6.69	
1340				10.5	12.92	1249	6.50	-110.8	0.24	6.38	
1350				11.7	12.96	1250	6.50	-112.3	0.24	6.56	~~Sample~~
1400	12.93	300	120	12.9	12.99	1250	6.50	-113.7	0.23	4.63	SAMPLE

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID

Additional Comments

Field Personnel Sophia Kim *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 10 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 10:40
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-49 Sample Number(s) 1139108 1139108uf

Initial Field Data and Measurements

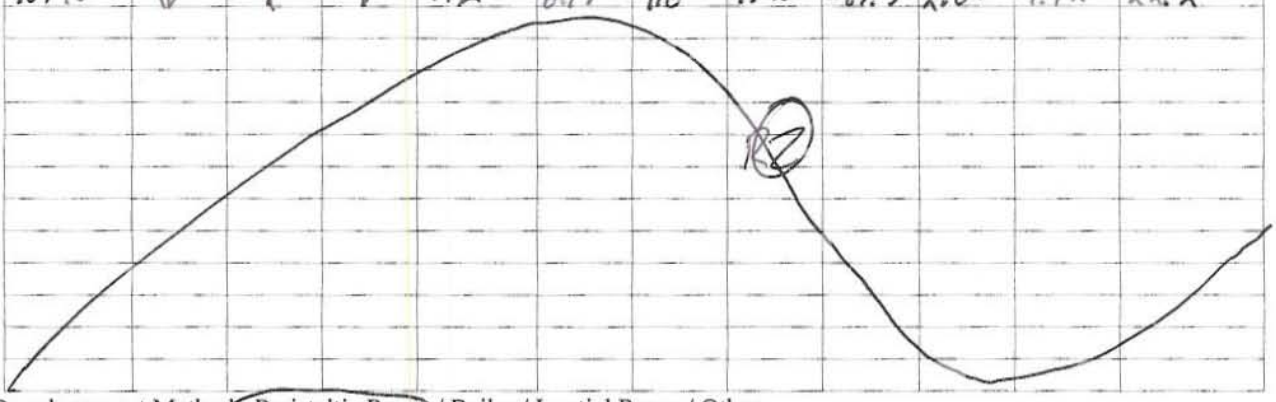
Depth of Well 7.26 Reference Used TOR
Depth to Water 3.66 PID/FID Reading —
Height of Column 3.60 Interface Yes / No If yes, Depth — Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	~~Comment~~ DO%
9:40	3.66	300	120	START PURGING							
9:50	3.71			1.2	6.34	436	8.37	-61.0	5.26	22.6	42.4
10:00	3.71			2.4	6.03	420	7.82	-67.1	3.37	11.4	27.0
10:10				3.6	6.20	417	7.42	-67.6	2.70	6.21	21.7
10:20				4.8	6.18	415	7.40	-67.2	2.89	4.88	22.1
10:30				6	6.15	418	7.40	-67.1	2.84	4.41	22.4
10:40				7.2	6.17	416	7.40	-67.3	2.87	4.12	22.2



Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes No If Yes, with what? liquinox, DI, Methanol on WLI
Waste Container ID 742059

Additional Comments

Field Personnel Roy Zurkoski, Sophia K., Alex C. Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 11 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:10
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-46 Sample Number(s) 1139109 1139109of

Initial Field Data and Measurements

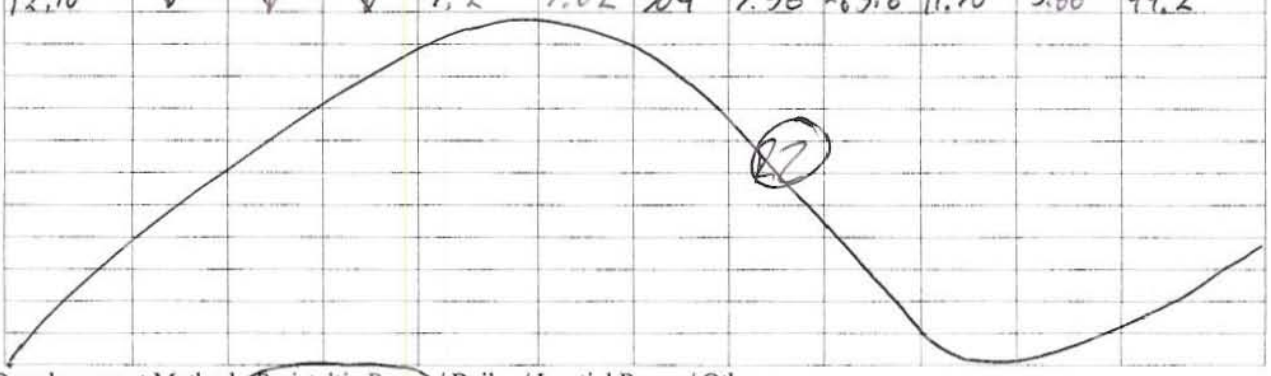
Depth of Well 12.68 Reference Used TOR
Depth to Water 6.80 PID/FID Reading —
Height of Column 5.88 Interface Yes / (No) If yes, Depth — Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	~~Comment~~ DO%
11:10	6.80	300	120	START PURGING							
11:20	6.88			1.2	7.31	313	7.48	-33.6	12.02	16.8	99.0
11:30	6.88			2.4	7.62	306	7.54	-14.6	11.55	11.2	96.8
11:40				3.6	7.82	306	7.56	-66.7	11.80	8.32	99.2
11:50				4.8	7.80	304	7.56	-64.3	11.62	6.41	99.6
12:00				6	7.83	306	7.56	-65.2	11.71	4.82	99.1
12:05				6.6	7.85	305	7.56	-65.8	11.68	4.31	99.4
12:10				7.2	7.82	304	7.56	-65.6	11.70	3.86	99.2



Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? Liquinox, DI, Methanol on WLI
Waste Container ID 742059

Additional Comments

Field Personnel Rob Zorkowski, Sophia K., Alex C. Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT907.001**	Page 12 of 12
Project	UTC P&W Willowpond Quarterly GW Mon.	Date 3/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:40
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-45 Sample Number(s) 1139110 1139110df

Initial Field Data and Measurements

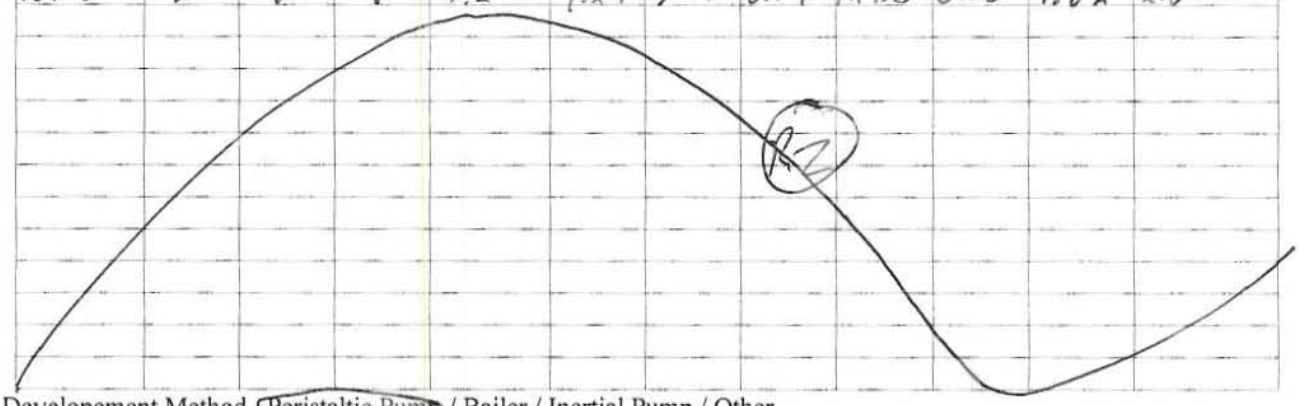
Depth of Well 13.70 Reference Used TOR
Depth to Water 9.87 PID/FID Reading —
Height of Column 3.83 Interface Yes / ~~No~~ If yes, Depth — Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L.)	Turbidity (NTU)	~~Comment~~ DO%
12:40	9.87	300	120	START PURGING							
12:50	9.94			1.2	9.89	903	7.14	-76.0	10.74	13.6	95.3
13:00	9.94			2.4	9.31	749	6.75	-127.7	0.38	8.21	3.1
13:10				3.6	9.30	743	6.79	-128.6	0.34	6.13	2.9
13:20				4.8	9.29	746	6.79	-130.8	0.36	4.11	2.4
13:30				6	9.27	745	6.79	-130.2	0.36	2.31	2.8
13:40				7.2	9.29	744	6.79	-129.5	0.35	1.62	2.5



Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? Liquinox, DI, Methanol on WLF
Waste Container ID 742059

Additional Comments

Field Personnel Roy Zurkowski, Sophia K., Alex C. Signature

ACCUTEST Laboratories

1/3

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LEA
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860 410 3000

FACILITY INFORMATION

PROJECT NAME: POST-REMEDIATION WILLOWBROOK POND GW SAMPLING
LOCATION: P+W EAST HARTFORD, CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOCs 8260B	CT ETPH	PCB 8082	Total RCRA 8 Metals + Cu, Ni, Zn	LAB USE ONLY
	1139105	3/3/10	1130	SK	GW	6	2				4	X	X	X		
	1139105UF		1130			1			1						X	
	1139106		1400			6	2				4	X	X	X		
	1139106UF	3/3/10	1400	SK	GW	1			1						X	
	~~1139107~~															
	~~1139107UF~~															

SK

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs + PCBs + provide CT RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	3-3-10	1. [signature]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

ACCUTEST Laboratories

CHAIN OF CUSTODY

3 of 3

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Assoc.
ADDRESS: 10 Northwest Dr.
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: UTC P&W Willoughpond Quarterly GW Mon.
LOCATION: P&W East Hartford 88UT043
PROJECT NO.:
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs via 8260B	CT ETPH	PCBs via 8082	Total RCRA 8 metals Cu Ni Zn								LAB USE ONLY
	1139108	3/3/10	10:40	RJZ	GW	6	X					X	X	X	X									
	1139108 uf		10:40			1			X			X				X								
	1139109		12:10			6	X					X	X	X	X									
	1139109 uf		12:10			1			X			X				X								
	1139110		13:40			6	X					X	X	X	X									
	1139110 uf	3/3/10	13:40	RJZ	GW	1			X			X				X								

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs and PCBs and provide CT RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	3-3-10	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

ACCUTEST Laboratories

2 of 3

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009.453

CLIENT INFORMATION

NAME: Loureiro Engineering Associates
ADDRESS: 100 Northwest Drive
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO:
PHONE #: 860-947-6181

FACILITY INFORMATION

PROJECT NAME: Willow Pond Post Remediation GW
LOCATION: Pratt & Whitney East Hartford
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs by 8260	PCB A8 [illegible]	CTETPH	PCBs	LAB USE ONLY
	1139102	3-3-10	1105	[illegible]	GW	6	2					4	X		X	X	
	1139102uf		1105			1			1					X			
	1139103		1315			6	2					4	X		X	X	
	1139103uf		1315			1			1					X			
	1139104		1440			2	2						X				
	1139111		0900			1	1						X				
	1139112		1500			6	2					4	X		X	X	
	1139112uf	3-3-10	1500	[illegible]		1			1					X			

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- ☑ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP lists for VOCs & PCBs & provide CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [illegible]	3-3-10	1. [illegible]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**88UT043.001**	Page 1 of 12	
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/2/10	
Location	P&W East Hartford, East Hartford, CT		
Client	Pratt & Whitney Division - JTot		

Arrived at Site 8:15 Departed from Site 18:00 Vehicle ST-15

Odometer (Start)Return 60 RT

Site Activities

	Soil Sampling		Geoprobe Work
✓	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	—
Current Location (if not complete)	—
Sampling for	See Chain
Laboratories used	Accutest
Paperwork & Equipment left at/in	office
Site Contact	Jeff Thompson
Contractors on Site	
Time and place to meet contractors	

Non-productive Time

✓	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	15 gal	743741
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 80s Precipitation — Wind light

Comments

Checked By

Robin McKenney

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
1	Decontamination Supplies	081
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
X	Miscellaneous Health & Safety Items	060
	Tubing, 1/2", NOS	007
100'	Tubing, ~~3/8"~~ 1/4, NOS	008
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
3	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
3	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
3	Water Level Indicator	028
3	Water Quality Meter w/Flow Cell (Rental)	070

Field Personnel Dennis Ryder, Paul Gelinas

Signature Nate Emmond

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**88UT043.001**	Page 2 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/2/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Description of Site Activities

8:15 On Site
went through vehicle inspection - the to waste treat for Prejob.
8:45 finished Prejob + Moved to willow Pond Parking Area
Called Security to open gate
Began Dividing equipment, Going over work Plan, Calibration ect..
9:15 Set up on wells, P. Gelinas started water levels
15:45 N. Emmons went to willgoos to collect Sample
16:15 N. Emmons back — P. Gelinas + D. Ryder finished Sampling and began packing up.
16:45 Benny onsite for Sample pickup
17:10 Benny off site. D. Ryder off Site with ST-15
N Emmons and P. Gelinas collected water levels from two Remaining wells, Dumped waste
18:00 off Site

Field Personnel Dennis Ryder
Paul Gelinas

Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No.	**88UT043.001**	Page 3 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/2/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1144950	Trip Blank	10:00	BKT	—	—	Trip Blank	

NC

Field Personnel Paul Gelinas, Dennis Ryder

Signature Nathan Emmons

Paul
~~603-[illegible]~~ 978-914-4593

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT043.001**
Project	UTC P&W Willow Pond GW Monitoring 2010
Location	P&W East Hartford, East Hartford, CT
Client	Pratt & Whitney Division - JTot

Page 4 of 12
Date 6/2/10

pH Meter/Serial # 02F0329 AG

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	8:50	4.0	7.0	10.0	1000	109	
Calibration Check		4.0	7.0	10.0	1000	109	
Calibration Check		4.0	7.0	10.0	100	109	

Turbidity Meter/Serial # 3522

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	~~3522~~ 10:00	✓	✓	✓	
Calibration Check					
Calibration Check					

PID Meter/Serial # 3296

	Time	Standard	Meter Reading	Zero with
Initial Calibration	8:45	100	100	fresh air
Calibration Check				
Calibration Check				

~~Balance/Serial #~~ NA

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel: Paul Gelings, Dennis Ryder

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MONITORING WELL INVENTORY

LEA Comm. No.	**88UT043.001**	Page 5 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/2/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Sample ID	Location ID	Time	Predicted Depth of Well	Predicted Depth to Water	Actual Depth of Well	Actual Depth to Water	PID/FID	Reference Elevation	Comments
2234978	WT-MW-50	0910			8.25	3.48	0.0		
2234979	WT-MW-40	0930			17.91	12.51	3.6		
2234980	WT-MW-43	0940			12.1	8.22	0.0		
2234981	PC ~~WT-MW-41~~	1000			11.88	10.61	0.0		UNIDENTIFIED
2234982	WT-MW-42	1015			7.31	3.56	0.0		
2234983	WT-MW-49	1030			7.52	3.78	0.0		
2234984	WT-MW-46	1045			12.68	7.12	0.0		
2234985	WT-MW-45	1105			13.67	9.94	0.0		
2234986	WT-MW-48	1115			7.71	4.97	0.0		
2234987	WT-MW-41				9.38	5.02	0.0		
2234988	WT-MW-1952				Dry				
2234989	WT-MW-44				13.98	10.78	0.0		
2234990	WT-MW-47						PC		½" CAP STUCK ON
2234991	WT-MW-58	17:00			17.83	12.98			
2234992	WT-MW-59	17:10			17.79	13.11			
2234993	WT-MW-57	13:00			18.15	11.73			
2234994									
2234995									
2234996									
2234997									
2234998									
2234999									

Field Personnel: Paul Geims, Dennis Ryder, Nate Emmons

Signature: [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 6 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:15
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-mw-44 Sample Number(s) 1144927 1144927vf

Initial Field Data and Measurements

Depth of Well 13.98 Reference Used TofR
Depth to Water 10.78 PID/FID Reading
Height of Column Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter ½" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments.

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
10:00	10.78	300	150								Purging
10:10				1.5	12.76	261	6.79	131.7	5.01	5.62	
10:20				3.0	12.80	259	6.66	140.7	4.89	4.76	
10:30			100	4.5	12.27	256	6.22	192.8	4.81	3.11	
10:40				5.5	11.30	262	6.10	227.9	4.92	2.92	
10:50				6.5	11.60	264	6.10	263.8	4.98	2.89	
10:55			150	7.25	11.63	265	6.10	273.4	4.99	2.77	
11:00				8.00	11.70	263	6.11	280.1	5.02	2.30	
11:05				8.75	11.68	264	6.11	282.4	5.02	1.97	
11:10				9.50	11.71	264	6.10	284.5	5.05	1.99	
11:15		300		10.25	11.70	262	6.11	283.8	5.05	1.98	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI + Meth on WLI
Waste Container ID 743741

Additional Comments Unable to Monitor water level due to small diam. well

Field Personnel Nate Paul Dennis Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 7 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 15:05
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-~~1957~~ 57 Sample Number(s) 1144928 1144928 uf

Initial Field Data and Measurements

Depth of Well ~~25.25~~ 18.15 Reference Used Taf R
Depth to Water ~~11.86~~ 11.73 PID/FID Reading 0.0
Height of Column Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1 1/2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
13:00	11.73	300	100								Purging
13:10	12.21			1.0	14.95	2209	6.06	-24.0	0.53	69.4	
13:30	12.30		150	3.0	15.10	2285	5.81	-22.4	0.47	48.2	
13:50	12.30			6.0	15.05	2320	5.69	-21.7	0.41	30.7	
14:10	12.30			9.0	15.00	2350	5.60	-20.0	0.34	19.4	
14:30	12.30			12.0	15.06	2355	5.60	-18.9	0.32	10.3	
14:40	12.36		100	13.5	15.16	2362	5.60	-18.2	0.36	6.31	
14:50	12.30			14.5	15.09	2362	5.59	-17.4	0.33	5.10	
14:55	12.36			15	15.10	2361	5.61	-17.5	0.30	5.02	
15:00	12.30			15.5	15.12	2361	5.62	-17.8	0.35	4.95	
15:05	12.30	300		16	15.07	2361	5.62	-17.8	0.34	4.87	
Sample											

NC

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI + Meth wipe on WLI
Waste Container ID 743741

Additional Comments

Field Personnel Paul Gelinas, Dennis Ryder

Signature Nate Emery

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 8 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:10
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-50 Sample Number(s) 1144930 + 1144930 JF

Initial Field Data and Measurements

Depth of Well 8.25 Reference Used TOR
Depth to Water 3.48 PID/FID Reading 0.0
Height of Column 4.77 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked		✓
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)c	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1210	N/M	300	100	0	22.84	4961	5.93	-168.3	0.77	13.9	
1220				1	24.90	4763	5.87	-184.2	0.28	10.3	
1230				2	24.52	4677	5.93	-187.5	0.13	7.32	
1235				2.5	25.17	4703	6.09	-173.3	0.14	6.76	
1240				3	25.23	4764	6.31	-180.8	0.15	8.14	
1245				3.5	25.04	4815	6.27	-185.8	0.11	7.83	
1250				4	24.83	4857	6.23	-186.1	0.09	6.00	
1255				4.5	24.63	4884	6.19	-184.2	0.11	5.00	
1300				5	24.76	4888	6.18	-184.5	0.12	4.54	
1305				5.5	24.83	4891	6.18	-183.9	0.12	3.17	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI + Meth on WLI
Waste Container ID 743741

Additional Comments ~~WATER AFTER INDICATED DIAMETER TO LAGS~~

SPEC COND IN (US/CM)c only

Field Personnel PAUL GELINAS Dennis Ryder Note Emmons *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Date 6/2/10
Project	UTC P&W Willow Pond GW Monitoring 2010	Sample Time 15:00
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-40 Sample Number(s) 1144931 + 1144931UF

Initial Field Data and Measurements

Depth of Well 17.91 Reference Used TOR
Depth to Water 12.51 PID/FID Reading
Height of Column 5.4 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1/2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked		✓
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)c	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1410	N/M	300	100	0	21.12	6333	5.67	-150.7	3.23	56.2	
1420	↓	↓	↓	1	19.57	6207	5.59	-150.8	0.18	10.2	
1430				2	20.04	6206	5.53	-150.9	0.15	7.34	
1435				2.5	18.79	6250	5.50	-154.2	0.20	6.14	
1440				3	14.62	6206	5.48	-150.8	0.15	5.89	
1445				3.5	18.48	6241	5.46	-156.1	0.12	4.57	
1450				4	18.42	6238	5.45	-157.5	0.11	3.16	
1455	↓	↓	↓	4.5	18.46	6240	5.45	-157.9	0.11	2.90	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI + Meth on WLI
Waste Container ID 743741

Additional Comments WATER LEVEL METER DIAMETER TO LARGE TO FIT IN 1/2" WELL.
YSI - SPEC. COND IN (US/CM)c ONLY

Field Personnel PAUL GELINAS *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 10 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6 / 2 / 10
Location	P&W East Hartford, East Hartford, CT	Sample Time 14 :50
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-41 Sample Number(s) 1144926 1144926uf

Initial Field Data and Measurements

Depth of Well 9.38 Reference Used ToR
Depth to Water 5.02 PID/FID Reading —— (01)
Height of Column 4.36 Interface Yes / (No) If yes, Depth —— (01) Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector (Road Box / Stickup)
Ground to Reference —— (01)
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)	—— (01)	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
14:10	5.02	300	110	1 —— (01)	15.04	741	6.68	149.0	1.37	3.47	Initial
14:15		300	100	1.5	14.71	738	6.58	152.0	1.00	2.73	
14:20		300	100	2	14.45	736	6.57	152.7	1.06	2.21	
14:25		300	100	2.5	14.39	734	6.55	152.9	1.10	1.37	(01)
14:30		300	100	3	14.25	734	6.56	152.9	1.07	1.88	
14:35		300	100	3.5	14.14	731	6.54	152.1	1.03	1.48	
14:40		300	100	4	13.97	730	6.53	151.8	1.02	1.55	
14:45		300	100	4.5	13.95	728	6.53	149.3	0.99	1.21	
14:50	(01)	300	100	5	13.95	728	6.54	149.8	1.03	1.67	SAMPLE

(01)

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI + Meth on WLI
Waste Container ID 743741

Additional Comments YSI - 06K1082 * Unable to continously monitor depth to water
T. meter - 3519

Field Personnel D. Ryder Nate E Paul G **Signature**

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 11 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:20
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-42 Sample Number(s) 1144925 1144925.vf

Initial Field Data and Measurements

Depth of Well 7.31 Reference Used ToR
Depth to Water 3.56 PID/FID Reading —— ⊗
Height of Column 3.75 Interface Yes (No) If yes, Depth —— ⊗ Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	x	
Collar Intact	x	
Cover Locked	x	
Other (describe)	——	on

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
10:45	7.31	300	120	1	14.09	281	6.98	116.4	2.83	6.31	Initial
10:50		300	110	1.55	14.11	282	6.89	121.3	2.31	4.31	
10:55		300	110	3.1	14.21	284	6.81	125.7	2.08	2.98	
11:00		300	110	4.6	14.22	288	6.80	131.3	1.96	2.63	⊗
11:05		300	110	6.1	14.30	295	6.75	134.1	1.92	2.31	
11:10		300	110	7.6	14.28	299	6.74	135.8	1.89	2.11	
11:15		300	110	9.1	14.29	299	6.74	137.7	1.93	2.83	
11:20	⊗	300	110	10.6	14.24	298	6.71	139.7	1.94	1.71	SAMPLE

⊗

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI + Meth on WLI
Waste Container ID 743741

Additional Comments YSI-06K1082 * unable to continously monitor depth to water
Timeler-- 3519

Field Personnel D. Ryder Nate E Paul G **Signature**

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 12 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/2/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 10:15
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-43 Sample Number(s) 1144924 1144924vf

Initial Field Data and Measurements

Depth of Well 12.10 Reference Used ToR
Depth to Water 8.22 PID/FID Reading 0.0
Height of Column 3.88 Interface Yes (No) If yes, Depth — Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector (Road Box) / Stickup
Ground to Reference NA
Comments —

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)	—	

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
9:35	8.22	300	110	1	13.67	360	7.03	60.0	4.99	5.05	Initial
9:40		300	120	1.6	13.17	308	6.68	95.3	4.23	3.95	
9:45		300	110	2.35	13.09	306	6.48	103.3	4.27	3.39	
9:50		300	110	2.90	13.16	303	6.46	102.9	4.25	3.13	
9:55		300	110	3.45	13.14	302	6.51	102.3	4.21	2.91	
10:00		300	110	4	13.09	301	6.56	101.3	4.26	2.95	
10:05		300	110	4.55	13.10	300	6.61	102.1	4.28	2.81	
10:10		300	110	5.1	13.12	301	6.67	101.9	4.31	2.33	
10:15		300	110	5.65	13.09	300	6.68	101.3	4.32	2.11	SAMPLE

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes (No) If Yes, with what?
Waste Container ID 743741

Additional Comments YSI - 06K1082 *unable to continuously monitor depth to water
Turbidimeter - 3519

Field Personnel Dennis A Ryder Nate E Paul G **Signature**

4 Ambers
2 Vials
1 nitric

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LEA
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP: Plainville CT 060062
SEND REPORT TO: Robin McKinney
PHONE #: (860) 747-6181

FACILITY INFORMATION

PROJECT NAME: P+W EH Willow Pond Groundwater
LOCATION: East Hartford CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs 8260	PCBs 8082	ETPH	Metals RCRA 8 + Cu Ni Zn								LAB USE ONLY
	1144927	6/2/10	11:15	NE	GW	6	2				4	X	X	X	X									
	1144927 uf		11:15			1			1			X				X								
	1144928		15:05			6	2				4	X	X	X	X									
	1144928 uf		15:05	NE		1			1			X				X								
	1144924		10:15	DR		6	2				4	X	X	X	X									
	1144924 uf		10:15			1			1			X				X								
	1144925		11:20			6	2				4	X	X	X	X									
	1144925 uf		11:20			1			1			X				X								
	1144926		14:50			6	2				4	X	X	X	X									
	1144926 uf		14:50	DR		1			1			X				X								
	1144950	6/2/10	10:00	NE	GW	1	1					X	X											

DATA TURNAROUND INFORMATION

- ☑ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs and PCBs. Provide CT RCP report.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Nathan Emmons	6/2/10 1700	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LEA
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: (860) 747-6181

FACILITY INFORMATION

PROJECT NAME: P+WEH Willow Pond Groundwater
LOCATION: East Hartford CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ETPH	VOCs 8260	PCBs 8082	ETPH	Metals RCRA8+Cu,Ni,Zn							LAB USE ONLY
	1144931	6/2/10	15:00	PG	GW	6	2				4	X	X	X	X								
	1144931 uf	↓	15:00	↓	↓				1							X							
	1144930	↓	13:10	↓	↓	6	2				4	X	X	X	X								
	1144930 uf	6/2/10	13:0	PG	GW				1							X							

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- ☑ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs and PCBs.
Provide CT RCP report.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Nathan Emmons	6/2/10 1700	1. [signature]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**88UT043.001**		Page 1 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010		Date 6/3/10
Location	P&W East Hartford, East Hartford, CT		
Client	Pratt & Whitney Division - JTot		

Arrived at Site 800 Departed from Site 1900 Vehicle RANGER, Personal

Odometer (Start)Return ~60 miles RT

Site Activities

	Soil Sampling		Geoprobe Work
X	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	—
Last Location ID Used	—
Current Location (if not complete)	—
Sampling for	VOCs/SVOCs/PCBs/metals
Laboratories used	Accutest
Paperwork & Equipment left at/in	Office
Site Contact	—
Contractors on Site	LEA
Time and place to meet contractors	—

Non-productive Time

X	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
X			Sample labels complete
X			Sample/cooler seals OK
X			All samples obtained
X			Chains of custody
X			All forms/logs complete
X			Site condition OK
X			Site H&S Plan on site
X			Instruments calibrated

Checked By

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	~16 gallons	743741
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 80s Precipitation Rain for ~20 min Wind some

Comments

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Decontamination Supplies	081
	Drum, Closed Top 55 Gallon	086
1	Filter, In Line	024
1	Miscellaneous Health & Safety Items	060
~45'	Tubing, 1/4", NOS	007
~90'	~~Tubing, 3/8", NOS~~ 30FT	008
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
3	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
3	Turbidimeter	023
	VOC Analyzer, Photovac 2020 (PID)	012
3	Water Level Indicator	028
3	Water Quality Meter w/Flow Cell	070

Field Personnel HEATHER GRIMM, PAUL GELINAS

Signature Heather Grimm

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**88UT043.001**	Page 2 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/3 2010
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Description of Site Activities

800 Arrive at site
Gather equipment to appropriate vehicles
Begin setup at Upper Willow Brook Pond
1140 Benny on site for pickup - Paul had left to go to office for a meeting
Heather told Benny to wait for Pampler - Benny must leave
Paul back on site for waste treatment
1741 Begining filling bottles for last well - duplicate
~~[illegible]~~ Waste Treatment, pack up vehicles
1900 Offsite

HG

Field Personnel Heather G.
Paul G.

Signature Heather Grim

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No. **88UT043.001**
Project UTC P&W Willow Pond GW Monitoring 2010
Location P&W East Hartford, East Hartford, CT
Client Pratt & Whitney Division - JTot

Page 3 of 11
Date 6/8/10

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1144940	BKE	1200	BKE	—	—	Paul G.	—
1144942	BKT	900	BKT	—	—	—	—
1144939	WT-MW-59	1741	DUP	—	—	—	—
1144936	WT-MW-59	1741	DUP	—	—	—	—

HG

Field Personnel Heather G
PAUL G

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT043.001**	Page 4 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/3/2010
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

pH Meter/Serial #

		Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	09D100420	8:00		✓	✓	✓	✓	✓
Calibration Check	06K1082 AJ	8:00		✓		✓	✓	✓
Calibration Check	02F0329 AG	8:00		✓		✓	✓	✓

Turbidity Meter/Serial # 3522

	3296	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration				✓	✓	
Calibration Check				✓	✓	
Calibration Check						

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 5 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 10:05
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-47 Sample Number(s) 1144934 + 1144934 DP

Initial Field Data and Measurements

Depth of Well 14.41 Reference Used TOR
Depth to Water 9.37 PID/FID Reading 0.0
Height of Column 5.04 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter ½" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments PG

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)	PG	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
0915	9.37	300	100	0	15.49	486	5.05	-18.2	5.85	86.4	
0925	N/M			1	14.84	447	4.83	22.5	2.54	12.3	
0935				2	14.47	434	4.83	31.3	2.65	12.0	
0940				2.5	14.71	430	4.83	33.4	2.64	6.19	
0945				3	14.68	429	4.84	38.9	2.65	4.46	
0950				3.5	14.74	427	4.83	43.8	2.53	3.28	PG
0955				4	14.76	429	4.83	44.1	2.52	2.13	
1000				4.5	14.73	428	4.84	44.8	2.53	1.17	

PG

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? _____
Waste Container ID 743741

Additional Comments

Field Personnel PAUL GELINAS *Signature* [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 6 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:02
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number UT-MW-48 Sample Number(s) 1144929 1144929uf

Initial Field Data and Measurements

Depth of Well 7.33 Reference Used TOC
Depth to Water 4.95 PID/FID Reading —
Height of Column 2.38 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference TOC
Comments —

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)	—	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
~~4.95~~ 9:00	4.95	350	120	0.0	—	Start purging		—			
~~5.5~~ 9:20	5.50		120	2.4	15.71	616	6.58	-179.6	0.61	50.2	
9:30	5.90		100	3.6	15.24	609	6.54	-172.4	0.98	48.4	
9:40	5.90		100	4.6	14.84	607	6.48	-171.8	0.43	42.3	
9:50	5.94		120	5.6	15.10	609	6.43	-172.0	0.37	26.1	
1000	6.00		120	6.8	15.06	608	6.43	-171.0	0.32	15.0	
10:10	5.90		120	8.0	15.44	614	6.47	-166.2	0.30	18.8	
1020	5.90		120	9.2	15.83	618	6.50	-171.7	0.29	15.3	
1030	5.90		120	10.4	15.82	617	6.51	-173.4	0.28	19.2	+16
1040	5.90		120	11.6	15.72	619	6.51	-174.4	0.28	14.0	
1050	5.90		120	12.8	15.54	619	6.53	-175.8	0.27	8.72	
10:55	5.90		120	13.4	15.62	616	6.54	-176.0	0.27	6.48	
11:00	5.90		120	14.0	15.66	618	6.55	-175.4	0.27	4.81	

SAMPLED

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 743741

Additional Comments

~~+16~~

Field Personnel Paul G. Heather G. *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 7 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:55
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-4G Sample Number(s) 1144935 + 1144935 UF

Initial Field Data and Measurements

Depth of Well N/M Reference Used N/M
Depth to Water PID/FID Reading
Height of Column Interface Yes (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 1/2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked		✓
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)c	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1055	N/M	300	100	0	15.00	184	4.72	26.9	4.29	20.7	
1105				1	15.56	179	4.83	37.5	3.86	15.0	
1115				2	16.16	176	4.81	43.3	4.51	7.68	
1120				2.5	14.59	174	4.81	48.1	4.18	6.79	
1125				3	14.53	173	4.81	50.9	4.00	6.24	
1130				3.5	14.62	173	4.81	54.5	4.09	5.17	
1135				4	14.61	172	4.81	56.1	3.83	4.28	
1140				4.5	14.58	171	4.80	60.3	3.90	4.77	
1145				5	14.62	171	4.86	61.1	3.90	3.24	
1150				5.5	14.59	171	4.80	61.8	3.89	2.32	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / (No) If Yes, with what?
Waste Container ID 743741

Additional Comments SPEC COND. IN (US/CM)C ONLY
WATER LEVEL INDICATOR DIAMETER TO LARGE TO GET DT WATER

Field Personnel PAUL GRLINAS **Signature**

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 8 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:10
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-49 Sample Number(s) 1144936 + 1144936UF

Initial Field Data and Measurements

Depth of Well
Depth to Water 3.76
Height of Column
Reference Used TOR
PID/FID Reading N/M
Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2"
Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments PG

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)	PG	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1100	3.76	300	100	0	18.37	324	7.14	73.2	5.87	9.35	
1110	4.21			1	18.17	347	6.48	82.8	1.69	10.0	
1120	4.45			2	17.22	358	6.61	74.2	1.69	7.83	
1125	4.63			2.5	17.24	344	6.43	79.5	1.07	7.48	
1130	4.71			3	16.94	343	6.31	76.7	0.66	6.21	
1135	4.78			3.5	17.41	345	6.54	56.8	0.99	6.39	
1140	4.81			4	17.06	341	6.55	51.6	0.86	4.24	
1145	4.81			4.5	17.10	342	6.54	43.8	0.74	4.98	
1150	4.81			5	17.12	342	6.51	40.1	0.66	3.78	
1155	4.82			5.5	17.09	343	6.52	30.4	0.46	3.18	
1200	4.82			6	17.10	343	6.52	29.8	0.48	3.24	
1205	4.82			6.5	17.14	343	6.52	29.3	0.49	2.18	

PG

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 743741

Additional Comments

Field Personnel PAUL GELINAS *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 9 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:30
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-58 Sample Number(s) 1144933 1144933us

Initial Field Data and Measurements

Depth of Well 17.57 Reference Used TOC
Depth to Water 12.95 PID/FID Reading —
Height of Column 4.62 Interface Yes / (No) If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector (Road Box) / Stickup
Ground to Reference TOC
Comments —

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	—	
Other (describe)	—	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1220	12.95	350	110	0.0		START PURGING					
1240	12.95		110	2.2	19.67	1109	6.43	-100.6	1.15	94.8	
1250	12.95		110	3.3	16.54	1101	6.23	-95.2	0.63	82.5	
1305	12.97		110	3.85	16.27	1098	6.18	-94.4	0.60	64.5	
1315	12.97		110	4.95	16.30	1108	6.16	-94.0	0.60	46.7	
1325	12.97		110	5.95	17.62	1102	6.20	-100.8	0.69	32.8	
1335	12.97		110	6.95	18.11	1106	6.18	-101.2	0.66	26.4	
1345	12.97		110	7.95	19.99	1110	6.16	-103.3	0.64	22.0	
1355	12.97		110	8.95	17.62	1108	6.09	-103.6	0.61	18.5	
1405	12.97		110	9.95	19.77	1107	6.15	-106.3	0.82	11.2	
1415	12.97		110	10.95	18.53	1124	6.11	-105.3	1.23	8.66	
1420	12.97		110	11.5	18.06	1120	6.09	-105.1	1.02	9.78	
1425	12.97		110	12.05	17.96	1120	6.08	-104.8	0.93	7.51	
1428	12.97		110	12.4	17.85	1120	6.09	-104.7	0.85	8.65	
										SAMPLED	

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / (No) If Yes, with what? _____
Waste Container ID 743741

Additional Comments

Field Personnel _____ *Signature* [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 10 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/3/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:40
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-45 Sample Number(s) 1144937 + 1144937 vf

Initial Field Data and Measurements

Depth of Well N/M Reference Used N/M
Depth to Water PID/FID Reading N/M
Height of Column Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1/2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked		✓
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1340	N/M	300	100	0	17.67	697	6.59	-91.1	3.41	6.13	
1350				1	15.94	613	6.47	-92.1	0.24	9.78	
1400				2	18.28	636	6.60	-101.1	0.23	7.21	
1405				2.5	17.55	629	6.60	-103.2	0.25	4.21	
1410				3	17.46	622	6.60	-103.4	0.18	3.28	
1415				3.5	16.90	617	6.60	-103.7	0.18	2.13	
1420				4	16.84	602	6.58	-102.6	0.15	2.49	
1425				4.5	16.81	603	6.54	-100.1	0.14	1.79	
1430				5	16.75	599	6.56	-100.7	0.16	1.16	
1435				5.5	16.81	598	6.54	-100.1	0.15	0.78	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 743741

Additional Comments

Field Personnel PAUL GELINAS Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 11 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 6/3/2010
Location	P&W East Hartford, East Hartford, CT	Sample Time 17:41
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-59 Sample Number(s) 1144932, 1144932dup, 1144939, 1144939dup

Initial Field Data and Measurements

Depth of Well 17.55 Reference Used TOC
Depth to Water 12.91 PID/FID Reading —
Height of Column 4.64 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference TOC
Comments —

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	—	
Other (describe)	✓	

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1600	12.91	350	100	0.0			START	PURGING			
1620	13.15			2.0	18.84	7156	5.24	41.3	0.68	281	
1630	13.12			3.0	18.90	7210	5.23	39.3	0.33	163	
1640	13.37			4.0	16.60	7233	5.22	41.7	0.25	78.8	
1650	13.37			5.0	16.65	7459	5.23	49.8	0.22	41.4	
1700	13.38			6.0	16.53	7497	5.24	54.1	0.21	27.3	
1710	13.38			7.0	16.58	7563	5.25	55.3	0.32	11.0	
1720	13.38			8.0	16.46	7638	5.22	57.6	0.28	10.1	
1730	13.38			9.0	16.51	7760	5.21	56.4	0.21	8.79	
1735	13.38			9.5	16.53	7781	5.21	56.7	0.25	6.01	
1740	13.38			10.0	16.55	7800	5.21	56.4	0.24	4.92	
										SAMPLED	

Developement Method ~~Peristaltic Pump~~ / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? _____
Waste Container ID 743741

Additional Comments

Field Personnel HEATHER G, PAUL G

Signature [signature]

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

1 of 4

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Associates
ADDRESS: 100 Northwest Drive
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: Willow Brook Willow Pond
LOCATION: Pratt & Whitney, East Hartford, CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs 8260B	CT ETPH	PCBs 8082	Total RCRA 8 metals							HOLD	LAB USE ONLY
.	1144929	6/3/10	1102	HG	GW	2	X					X	X											
.	1144929uf		1102	HG	GW	1			X			X				X								
.	1144929		1102	HG	GW	4						X		X	X									
.	1144933		1430	HG	GW	1						X				~~X~~ RLM							X	
.	1144933		1430	HG	GW	2	X					X	X											
.	1144933		1430	HG	GW	4						X		X	X									
.	1144932uf		1741	HG	GW	1			X			X				X								
.	1144932		1741	HG	GW	2	X					X	X											
.	1144932		1741	HG	GW	4						X		X	X									
	1144933uf		1430	HG	GW	1			X			X				X								
.	1144939uf		1741	HG	GW	1						X				X								

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs + PCBs and provide CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	6/3/10 2030	1. LEA Fridge 2030	2. [signature]	6/4/10 13:13	2. [signature]
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

2 of 4

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LOUREIRO ENGINEERING
ADDRESS: 100 NORTH WEST DR.
CITY, STATE, ZIP: PLAINVILLE CT
SEND REPORT TO: ROBIN McKINNEY
PHONE #: (860) 410-3000

FACILITY INFORMATION

PROJECT NAME: WILLOW BROOK / WILLOW POND
LOCATION: PRATT & WHITNEY, EAST HARTFORD
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOCs 8260B	CT ETPH	PCBs 8082	TOTAL RCRA 8 + Cyanide	LAB USE ONLY
	1144934	6/3/10	1005	PG	GW	4					✓		X	X		
	1144934	6/3/10	1005	PG	GW	2	X					X				
	1144934uf	6/3/10	1005	PG	GW	1			X						X	

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	6/3/10 2030	1.	2.	6/4/10 13:13	2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

3 of 4

ACCUTEST JOB #:

ACCUTEST QUOTE #: ICB212009-453

CLIENT INFORMATION

NAME: LOUREIRO ENGINEERING
ADDRESS: 100 NORTHWEST DR
CITY, STATE, ZIP: PLAINVILLE, CT
SEND REPORT TO: ROBIN McKINNEY
PHONE #: (860) 410-3000

FACILITY INFORMATION

PROJECT NAME: WILLOW BROOK / WILLOW POND
LOCATION: PRATT & WHITTNEY, EAST HARTFORD
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOCs 8260B	CT ETPH	PCBs 8082	TOTAL RCRA 8+Cu,Ni,Zn	LAB USE ONLY
	1144937	6/3/10	1440	PG	GW	4					✓		X	X		
	1144937	6/3/10	1440	PG	GW	2	✓					X				
	1144937 wf	6/3/10	1440	PG	GW	1			✓						X	
	1144936	6/3/10	1210	PG	GW	4					✓		X	X		
	1144936	6/3/10	1210	PG	GW	2	✓					X				
	1144936 wf	6/3/10	1210	PG	GW	1			✓						X	
	1144935	6/3/10	1155	PG	GW	4					✓		X	X		
	1144935	6/3/10	1155	PG	GW	2	✓					X				
	1144935 wf	6/3/10	1155	PG	GW	1			✓						X	

DATA TURNAROUND INFORMATION

☒ 14 DAYS STANDARD — APPROVED BY:
☐ 7 DAYS *RUSH*
☐ 48 HOUR EMERGENCY
☐ OTHER

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY)

COMMENTS/REMARKS

PROVIDE CT RCP analytical lists for VOCs + PCBs + provide CT RCP REPORT

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	6/3/10 0030	1.	2.	6/4/10 13:13	2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753 4 of 4

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Associates
ADDRESS: 100 Northwest Drive
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: Willow Brook / Willow Pond
LOCATION: Pratt + Whitney, East Hartford
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs 8260B	CT ETPH	PCBs 8082	Total RCRA 8+Cu,Ni,Zn								LAB USE ONLY
	1144942	6/3/10	9:00	HG	GW	2	X					X	X											
	1144939	↓	1741	HG	GW	2	X					X	X											
	1144939	↓	1741	HG	GW	4		X	HG			X		X	X									
	1144940	↓	1200	PG	GW	2	X					X	X											
	1144940	↓	1200	PG	GW	4						X		X	X									
	1144940 ut	↓	1200	PG	GW	1			X			X				X								

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs + PCBs + provide CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Heather [signature]	6/3/10 2030	1. Lab Fridge 2	2. [signature]	6/4/10 13:13	2. [signature]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**88UT043.001**		Page 1 of 4
Project	UTC P&W Willow Pond GW Monitoring 2010		Date 7/27/2010
Location	P&W East Hartford, East Hartford, CT		
Client	Pratt & Whitney Division - JTot		

Arrived at Site 815 Departed from Site 14:30 Vehicle GW VAN

Odometer (Start)Re turn

Site Activities

	Soil Sampling		Geoprobe Work
X	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	1149712
Last Location ID Used	WT-MW-43
Current Location (if not complete)	WT-MW-43
Sampling for	PCBs
Laboratories used	ACCUTEST/TEST AMERICA
Paperwork & Equipment left at/in	OFFICE
Site Contact	J. THOMPSON
Contractors on Site	H. GRIMM, B. GREER
Time and place to meet contractors	~~3DRUM~~ OFFICE

Non-productive Time

X	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
X			Sample labels complete
X			Sample/cooler seals OK
X			All samples obtained
X			Chains of custody
X			All forms/logs complete
X			Site condition OK
X			Site H&S Plan on site
X			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	~1 gallon	743741
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 80s/90s Precipitation NONE Wind slight

Comments

Checked By

Robin McKinney

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
1	Miscellaneous Health & Safety Items	060
15'	Tubing, 1/2", NOS	007
1'	~~Tubing, 3/8", NOS~~ SOFT TUBING	008
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
1	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
1	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
1	Water Level Indicator	028
1	Water Quality Meter w/Flow Cell	070

Field Personnel Heather Grimm

Signature Heather Grimm

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Date 7/27/2010

LEA Comm. No.	**88UT043.001**
Project	UTC P&W Willow Pond GW Monitoring 2010
Location	P&W East Hartford, East Hartford, CT
Client	Pratt & Whitney Division - JTot

Description of Site Activities

815 ON SITE
SIGN IN AT WASTE CHECKPOINT
SIGN IN AT 3 DRUM
CONTACT MARK HOFF FOR A PREJOB
HAVE SECURITY OPEN GATE
BILL GREER HELPS W/ EQUIPMENT
SET-UP ON WT-MW-43
1220 BENNY COLLECTS SAMPLE
1230 HEATHER BEGINS WATER LEVELS FOR DAVE - BILL / WALT HELP W/ EXTRACTION WELLS
1430 OFF SITE

Field Personnel Heather Grimm

Signature Heather Grimm

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

Date 7/27/2010

LEA Comm. No.	**88UT043.001**
Project	UTC P&W Willow Pond GW Monitoring 2010
Location	P&W East Hartford, East Hartford, CT
Client	Pratt & Whitney Division - JTot

pH Meter/Serial # 10E100237

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	730			✓	✓	✓	✓
Calibration Check							
Calibration Check							

Turbidity Meter/Serial # 3522

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration		✓	20✓		
Calibration Check					
Calibration Check					

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

HG

Comments

Field Personnel Heather Grimm

Signature Heather Grimm

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 4 of 4	
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 7/27/2010	
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:17	
Client	Pratt & Whitney Division - JTot		

Monitoring Well Number WT-MW-43 Sample Number(s) ~~1149706~~ 1149711, 1149712

Initial Field Data and Measurements

Depth of Well 12.05' Reference Used TOC
Depth to Water 8.52' PID/FID Reading —
Height of Column 3.53' Interface Yes / No If yes, Depth ____ Lighter / Heavier

Well Casing Diameter 1/2" Material PVC
Protector Road Box / Stickup
Ground to Reference TOC
Comments —

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	—	
Other (describe)	—	

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1000	8.52'	350	120	0.0	—	—	START	PURGING	—	—	
1020	*		120	2.4	17.4	393.4	6.30	89.8	5.47	1.80	
1030	*		120	3.6	17.5	390.6	6.16	96.6	5.59	1.78	
1040	*		120	4.8	17.1	393.6	6.12	101.7	5.21	1.75	
1050	*		120	6.0	17.4	393.3	6.13	104.3	5.13	1.70	
1055	*		120	6.6	16.8	394.1	6.10	96.8	4.70	1.61	
1105	*		120	7.8	17.0	394.2	6.11	106.8	4.79	1.27	
1110	*		120	8.4	17.1	394.0	6.11	107.3	4.75	1.44	HG
1115	*		120	9.0	17.2	394.2	6.11	107.5	4.70	1.28	
					HG						SAMPLED

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID

Additional Comments * 1/2" well - depth to water not taken

SAMPLE ID 1149711 to ACCUTEST, + 1149712 TO TEST AMERICA → FOR 88UT920

Field Personnel Heather Grimm *Signature* [signature]

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Loureiro Engineering
ADDRESS: 100 Northwest Dr.
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: East Hartford GW
LOCATION: P&W, East Hartford
PROJECT NO.: 88UT920
FAX #:

ANALYTICAL INFORMATION

PCBs PCB1

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	PCBs PCB1	LAB USE ONLY
	114971	7/27/10	1117	HG	GW	2						X	X	

DATA TURNAROUND INFORMATION

- ☒ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

*Provide CT RCP analytical lists for PCBs and provide CT RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Matthew Shea	7/27/10 1130	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Robin McKinney	Field Sampler: Heather Grimm	TAT Required (business days): STANDARD	Lab PM/Contact:	COC Number: 13022
Company: Loureiro Engineering Associates	Mobile/Field Number:		Lab Job Number (Lab Use Only):	Page 1 of 1
Address: 100 Northwest Dr.	E-Mail: hmgrimm@loureiro.com	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville, CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 860-747-6181	WO #: 88UT920			
Email:	Project #:	State Regulatory QC Criteria Requirements:		
Project Name/Site Location (State):	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

No. of Containers/Preservatives

Analysis (Attach list if more space is needed)

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other ICE	PCBs 8082									Comments
	1149712	7/27/10	1117	AQ	NO							X	X									* Provide CT RCP analytical lists for PCBs + provide CT RCP report *

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Heather Grimm	7/27/2010 1430	LEA	Albert Gramsky	7/27/10 1650	TACT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

LEA Comm. No.	**88UT043.001**	Page 1 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Arrived at Site 0800 Departed from Site 1615 Vehicle ST-14

Odometer (Start)Re 0 turn 60

Site Activities

- [ ] Soil Sampling
- [x] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	1152483
Last Location ID Used	WT-MW-52
Current Location (if not complete)	
Sampling for	PCBs eTPH VOCs metals
Laboratories used	Accutest
Paperwork & Equipment left at/in	LEA
Site Contact	
Contractors on Site	
Time and place to meet contractors	

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		743741
Decon Fluid		↓
PPE		
Other		

Weather Conditions

Temperature 85° Precipitation No Wind No

Comments

Checked By

Rich D'Amico

Robin McKenney

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
1	Decontamination Supplies	081
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
1	Miscellaneous Health & Safety Items	060
10'	Tubing, 1/2", NOS	007
100'	Tubing, 3/8", NOS	008
1	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
3	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
3	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
3	Water Level Indicator	028
3	Water Quality Meter w/Flow Cell	070

Field Personnel Heather Grimm Scott Brown

Rich D'Amico

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**88UT043.001**	Page 2 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Description of Site Activities

0800 Onsite Calibrate equipment, separate bottles, Trip Blank
0830 Pre-Job
0915 Security Guard opens gates
0930 Start pumping 1st well Heather off to get water tests w/ Dennis Lyder

1500 Finish wells start cleaning up, dumping waste + chains of custody
1545 Accept Onsite for Samples
1615 Offsite

A

Field Personnel	Heather Grimm Rich D'Amico	Scott Brown	**Signature**

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT043.001**	Page 3 of 11
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

pH Meter/Serial #

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	0400	✓	✓	✓	✓	✓	✓
Calibration Check	0800	✓	✓	✓	✓	✓	✓
Calibration Check							

Turbidity Meter/Serial #

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	0815	✓	✓	✓	✓
Calibration Check	0815	✓	✓	✓	✓
Calibration Check					

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration	0830	100	100	Ambient Air
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel	Heather Grimm	Scott Brown	*Signature*
	Rich D'Amico		

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No. **88UT043.001**
Project UTC P&W Willow Pond GW Monitoring 2010
Location P&W East Hartford, East Hartford, CT
Client Pratt & Whitney Division - JTot

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Date 9/8/10

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1152501		0800	TBK			Trip Blank	
1152500	WT-MW-50	1450	DUP			Duplicate	

Field Personnel Heather Grimm
Rich D'Amico

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 5 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 10:30
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-47 Sample Number(s) 1152480 1152480F

Initial Field Data and Measurements

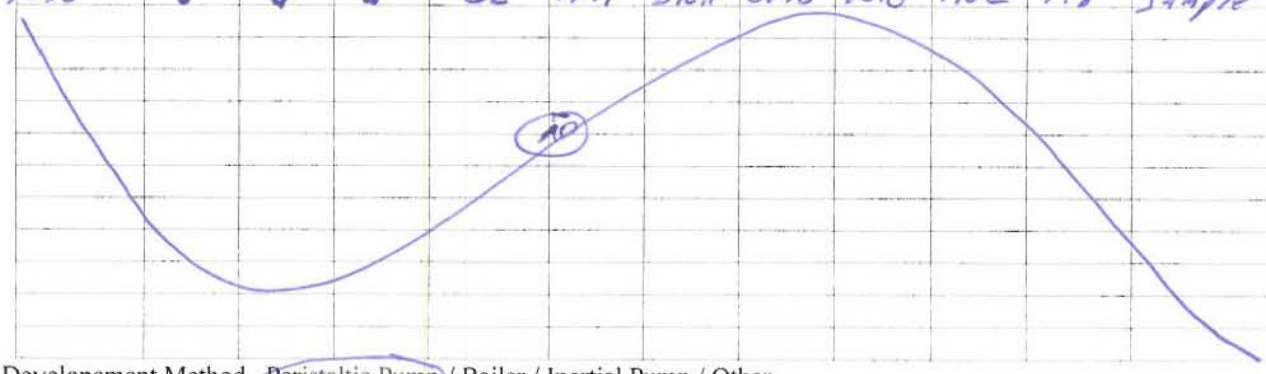
Depth of Well 14.35' Reference Used TOC
Depth to Water 9.88' PID/FID Reading 0.0
Height of Column 4.47' Interface N/A ~~Yes / No~~ If yes, Depth Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure		✓
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
0930	9.88'	350	100	0							Initial
0935	9.91'				17.6	397.5	5.74	59.5	2.20	20.4	
0945	9.92'				17.8	396.4	5.51	64.8	1.54	17.9	
0955					17.9	393.1	5.46	84.2	1.10	2.2	
1005					18.0	393.2	5.45	90.1	1.08	3.4	
1015					18.1	392.1	5.45	92.7	1.05	2.9	
1025					18.0	391.4	5.45	94.2	1.01	2.1	
1030				6L	17.9	390.1	5.46	95.0	1.02	1.8	Sample



Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID 743741

Additional Comments

Field Personnel Heather Grimm, Rich D'Amico — Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 6 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:10
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW 42 Sample Number(s) 1152487 1152487UF

Initial Field Data and Measurements

Depth of Well 10.93 Reference Used TOC
Depth to Water 4.45 PID/FID Reading 0.0
Height of Column 6.48 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 0.5" Material PVC
Protector Road Box / Stickup
Ground to Reference TOC
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
10:30	–	300	100	←		Start Purge			→		
10:40	–	300	100	1.0	18.6	442.1	6.94	59.3	3.77	8.42	
10:45	–	300	100	2.0	18.4	434.3	6.78	65.9	3.80	7.15	
10:50	–	300	100	3.6	18.3	426.9	6.62	74.2	3.84	5.93	
10:53	–	300	100	4.0	18.5	411.6	6.48	79.9	3.90	5.10	
10:56	–	300	100	5.0	18.6	402.5	6.39	86.5	3.95	4.26	
11:03	–	300	100	5.3	18.5	397.2	6.32	91.3	3.99	4.03	
11:06	–	300	100	5.6	18.4	390.1	6.26	97.2	4.05	3.72	
11:10	–	300	100	6.0	18.2	385.6	6.20	102.5	4.12	2.44	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 745741

Additional Comments not able to check depth of water due to diameter of well.

Field Personnel Heather Grimm Scott Brown *Signature* SB Brown
Rich D'Amico

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 7 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 11:45
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-46 Sample Number(s) 1152481 1152481F

Initial Field Data and Measurements

Depth of Well 17.66' Reference Used TOR
Depth to Water 7.86' PID/FID Reading 0.0
Height of Column 4.80' Interface NA ~~Yes / No~~ ~~If yes, Depth~~ ~~Lighter / Heavier~~

Well Casing Diameter 0.5" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1100	7.86	350	100	0							Initial
1105	7.88	↓	↓	↓	20.8	293.5	5.85	15.0	3.36	45.8	↓
1115	7.90	↓	↓	↓	18.1	267.5	5.65	75.5	4.18	17.6	↓
1125	↓	↓	↓	↓	18.5	267.9	5.64	81.2	4.01	5.3	↓
1135	↓	↓	↓	↓	18.4	268.4	5.64	84.9	3.98	4.1	↓
1140	↓	↓	↓	↓	18.4	268.3	5.64	85.3	3.97	3.8	↓
1145	↓	↓	↓	4.5L	18.4	268.5	5.64	85.5	3.97	3.2	Sample

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID 743741

Additional Comments

Field Personnel Heather Grimm, Rich D'Amico, Scott Brown

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 8 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:50
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-111 Sample Number(s) 1152488 1152488uf

Initial Field Data and Measurements

Depth of Well 13.48 Reference Used TOR
Depth to Water 11.21 PID/FID Reading
Height of Column 2.27 Interface Yes / No If yes, Depth NA Lighter / Heavier

Well Casing Diameter .5" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (mV ~~SU~~)	ORP (mV ~~Eh~~)	DO (mg/L)	Turbidity (NTU)	Comment
1150	11.21	350	100	←	START		PUMPING				→
1200	NT		100	1	16.5	323.7	6.14	102.2	0.52	1.96	
1210			100	2	16.2	326.6	6.13	102.7	0.63	1.74	
1220			100	3	16.2	328.0	6.13	103.3	0.66	1.21	
1230			100	4	16.3	330.7	6.14	103.1	0.77	.73	
1235			100	4.5	16.5	331.5	6.14	103.3	0.79	.64	
~~1240~~			100	5	16.4	331.7	6.14	103.3	0.80	.49	
1245			100	5.5	16.3	331.6	6.14	103.4	0.80	.41	
1250	NT	350	100	6	16.4	331.7	6.14	103.3	0.80	.40	SAMPLE

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes No If Yes, with what?
Waste Container ID 743741

Additional Comments

*unable to take water levels during purge due to size of well
YSI # 10E100237

Field Personnel Heather Grimm, Rich D'Amico, Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 9 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 13:15
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-48 Sample Number(s) 1152482 1152482ot

Initial Field Data and Measurements

Depth of Well 7.59' Reference Used TOR
Depth to Water 4.89' PID/FID Reading 0.0
Height of Column 2.70' Interface NA ~~Yes / No~~ ~~If yes, Depth~~ Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)	✓	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1215	4.89	350	100	0							Initial
1220	4.91				22.4	716	6.41	-222.7	2.65	35.1	
1230					23.2	715	6.59	-220.1	1.85	22.9	
1240					23.9	714	6.68	-231.2	1.15	10.1	
1250					24.0	714	6.68	-235.1	0.40	6.7	
1300					24.0	713	6.69	-237.2	0.09	4.9	
1305					24.2	714	6.69	-238.1	0.03	2.7	
1310					24.1	713	6.69	-238.2	0.04	1.8	
1315				6L	24.1	713	6.69	-238.2	0.03	2.1	Sample

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID 743741

Additional Comments

Field Personnel Heather Grimm, Rich D'Amico, Scott Trunk **Signature**

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 10 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 14:35
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-57 Sample Number(s) 1152483 1152483D

Initial Field Data and Measurements

Depth of Well 18.05' Reference Used TOR
Depth to Water 10.95' PID/FID Reading 0.0
Height of Column 7.10' Interface N/A ~~Yes / No~~ ~~If yes, Depth~~ Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1535	10.95'	350	100								Initial
1540	10.99				21.0	1372	6.46	-155.2	0.08	41.8	
1550	11.01				21.3	1361	6.31	-110.1	0.12	24.2	
1400					21.6	1353	6.20	-108.7	0.14	12.8	
1410					21.7	1350	6.15	-106.4	0.16	6.3	
1420					21.9	1345	6.15	-105.8	0.18	4.2	
1430					21.8	1343	6.15	-104.9	0.17	3.1	
1435				6L	22.0	1344	6.15	-105.1	0.16	2.9	Sample

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID 743741

Additional Comments

Field Personnel Heather Grimm, Rich D'Amico — Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 11 of 14
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 1450
Client	Pratt & Whitney Division - JTot	1152500 1152500UA

Monitoring Well Number WT-MW-50 Sample Number(s) 1152489 1152489UA

Initial Field Data and Measurements

Depth of Well 5.18 Reference Used OR
Depth to Water 3.5 PID/FID Reading —
Height of Column 1.68 Wet Interface Yes / No If yes, Depth NA Lighter / Heavier
Well Casing Diameter 2 Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1405	3.5	350	100	← START PUMPING →							
1415	3.53		100	1	22.9	4371	6.96	-168.4	0.29	9.74	
1425	3.53		100	2	22.4	4392	6.94	-167.6	0.23	5.94	
1435	3.53		100	3	22.8	4474	6.90	-165.6	0.15	4.73	
1440	3.53		100	3.5	22.9	4469	6.91	-165.5	0.15	4.02	
1445	3.53		100	4	23.0	4470	6.91	-165.3	0.15	3.61	
1450	3.53	350	100	4.5	22.8	4470	6.91	-165.5	0.15	2.81	SAMPLE

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what?
Waste Container ID 743741

Additional Comments YSI # 10E100237

Field Personnel Heather Grimm Keith Volkert *Signature*
Rich D'Amico

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**88UT043.001**	Page 12 of 12
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/8/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Description of Site Activities

Waterlevels:

	DTW	DTB	
- WT-MW-19SR	~~11.73~~ dry	~~11.95~~ ~~25.25~~	One bolt lodged in, other loose
WT-MW-40	NM	NM	Missing bolts - sitting water
• WT-MW-42	4.45	10.93	
- WT-MW-44	11.22	13.60	Only 1 functioning bolt - can't get in well
WT-MW-46	7.30	12.64	
• WT-MW-47	9.88	14.35	
WT-MW-48	4.90	7.54	
* WT-MW-50	3.38	5.20	
WT-MW-57	~~NM~~ 10.95	~~NM~~ 18.05	Sitting water in well; loose bolt
WT-MW-58	13.18	17.75	Both bolts stuck
WT-MW-59	13.31	17.65	
• WT-MW-41	Not able to open		
• WT-MW-43	Not able to open		
WT-MW-45	10.20	13.67	One bolt stuck, one missing
* WT-MW-49	4.05	7.45	
Staff Gauge	6.45	NA	

* Surface water elevations

Field Personnel	Heather Grimm Rich D'Amico	S. Braun K. Volkert	*Signature*

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: Robin Robinson
ADDRESS: LEA 100 Northwest Drive
CITY: Plainville STATE: CT ZIP: 06062
SEND REPORT TO:
PHONE #:

FACILITY INFORMATION

PROJECT NAME: UTC P&W Willow Road
LOCATION: P&W East Hartford, CT
PROJECT NO.: 880T043.001
FAX #:

ANALYTICAL INFORMATION

MA 97608 / CT PH / NJ 8097 / NH 1117 / NY 11418

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	Other	MA 97608	CT PH	NJ 8097	NH 1117							LAB USE ONLY
	1157501	9/9/10	0800	RD	GW	1	X					X	X										
	1157480		1030			6	X				X	X	X	X	X	X	RLM						
	1157480uF		↓				X				X	X	X	X	X	X							
	1157481		1145				X				X	X	X	X	X	X	RLM						
	1157481uF		↓				X				X	X	X	X	X	X							
	1157482		1315				X				X	X	X	X	X	X	RLM						
	1157482uF		↓				X				X	X	X	X	X	X							
	1157483		1435				X				X	X	X	X	X	X	RLM						
	1157483uF		↓				X				X	X	X	X	X	X							
						20																	

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs + PCBs + provide CT RCP report w/ job # KB2/2009-453

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	9/9/10 1530	1.	2.		2.
3.		3.	4.		4.
5.		5.			

SEAL #: PRESERVE WHERE APPLICABLE ☐ ON ICE ☐ TEMPERATURE ____ C

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KT32/2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Assoc.
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860.747.6181

FACILITY INFORMATION

PROJECT NAME: PtW Willow Pond GW
LOCATION: East Hartford CT
PROJECT NO.: 88UT043
FAX #: 860.747.8822

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE		VOC 8260	CT STPIT	PCB 8082	Total RCRA 8 Metals Cu, Ni, Zn								LAB USE ONLY
	1152488	9/8/10	1250	KW	GW	6	2				4		X	X	X									
	1152488uf		1250			1			1							X								
	1152489		1450			6	2				4		X	X	X									
	1152489uf		1450			1			1							X								
	1152500		1450			6	2				4		X	X	X									
	1152500uf		1450	KW		1			1							X								
	1152487		1110	SB		6	2				4		X	X	X									
	1152487uf	9/8/10	1110	SB	GW	1			1							X								

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- ☑ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER _____

APPROVED BY: _____

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☑ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

Provide CT RCP for VOC + PCB
CT RCP "Report"

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	15:45	1. [signature]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**88UT043.001**		Page 1 of 90
Project	UTC P&W Willow Pond GW Monitoring 2010		Date 9/9/10
Location	P&W East Hartford, East Hartford, CT		
Client	Pratt & Whitney Division - JTot		

Arrived at Site 800 Departed from Site 1820 Vehicle # Personal Van (ST-14)

Odometer (Start)Return 140 miles RT

Site Activities

	Soil Sampling	Geoprobe Work
✓	Groundwater Sampling	Concrete Coring
	Surface Water Sampling	Construction
	Vapor/Air Sampling	Waste Management
	Concrete Sampling	
	Other Sampling	Inspection
	Other Sampling	Site Walk Over
		Surveying
	Well Development	Other (Describe)

Current Project Information

Last Sample Number Used	—
Last Location ID Used	—
Current Location (if not complete)	—
Sampling for	VOCs, SVOC, TPH, metals
Laboratories used	Accutest
Paperwork & Equipment left at/in	Office
Site Contact	J. Thompson
Contractors on Site	LEA
Time and place to meet contractors	—

Non-productive Time

✓	None	Weather
	Equipment Breakdown	Missing Equipment
	Late	Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	~42 L / 11 gal.	743741 ← about 3/4 full
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 70s Precipitation — Wind Some

Comments

Checked By

Robin McKinney

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Decontamination Supplies	081
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
1	Miscellaneous Health & Safety Items	060
~90'	Tubing, 1/4", NOS	007
5'	Tubing, 3/8", NOS	008
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
2	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
2	Turbidimeter	023
	VOC Analyzer, Photovac 2020 (PID)	012
2	Water Level Indicator	028
2	Water Quality Meter w/Flow Cell	070

Field Personnel Heather Grimm, Rich D'Amico, Keith Vakeit

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**88UT043.001**	Page 2 of 4
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/9/10
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

Description of Site Activities

800 - ON SITE - Rich meets w/ J. Thompson to review the F+H groundwater sampling
- Divide equipment / Rich + Keith drive over to check out F+H area
- Heather + Keith begin sampling at Willow Brook / Pond.

1340 - After finishing (~1340) Heather + Keith head to F+H building to finish up groundwater sampling there

1520 Offsite

Field Personnel: Heather Grimm, Rich D'Amico, K Volkert

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

Page 3 of 9
Date 9/9/10

LEA Comm. No. **88UT043.001**
Project UTC P&W Willow Pond GW Monitoring 2010
Location P&W East Hartford, East Hartford, CT
Client Pratt & Whitney Division - JTot

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1152497	PE samples	945	PE	—	—	—	—
1152496	Equipment Blank	1330	BKE	—	—	—	—
1152495	Trip Blank	900	BKT	—	—	—	—

HG

Field Personnel Heather Grimm
Rich D'Amico

A. Volkert

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**88UT043.001**		Page 4 of 8
Project	UTC P&W Willow Pond GW Monitoring 2010		Date 9/9/10
Location	P&W East Hartford, East Hartford, CT		
Client	Pratt & Whitney Division - JTot		

pH Meter/Serial # Y50

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration			✓		✓	✓	✓
Calibration Check							
Calibration Check							

Turbidity Meter/Serial # 900

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration		✓	✓		
Calibration Check					
Calibration Check					

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel: Heather Grimm, Rich D'Amico — Keith V.

Signature: Heather Grimm

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
PERFORMANCE SAMPLE

LEA Comm. No.	**88UT043.001**	Page 5 of 9
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/9/2010
Location	P&W East Hartford, East Hartford, CT	
Client	Pratt & Whitney Division - JTot	

LEA Sample ID 1152497
PCBs - 945

ERA A Waters Company USA 800-372-0122 EUROPE 44 (0) 161 946 2777
Loureiro Engineering
PCB's
Unpreserved
Sample ID # 0820-10-06.2

LEA Sample ID 1152497ut
Metals -945

ERA A Waters Company USA 800-372-0122 EUROPE 44 (0) 161 946 2777
Loureiro Engineering
Metals
Preserved w/HNO3
Sample ID # 0820-10-06.3

LEA Sample ID 1152497
VOCs -945

ERA A Waters Company USA 800-372-0122 EUROPE 44 (0) 161 946 2777
Loureiro Engineering
VOC's
Preserved w/ HCl
Sample ID # 0820-10-06.1

LEA Sample ID

LEA Sample ID

LEA Sample ID

HG

Field Personnel	Heather Grimm Rich D'Amico	Keith V.	Signature Heather Grimm

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 6 of 90
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/9/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 12:36
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-ND Sample Number(s) 1152485 1152485uf

Initial Field Data and Measurements

Depth of Well 17.75' Reference Used TOC
Depth to Water 12.20' PID/FID Reading
Height of Column 5.55 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1/2" Material PVC
Protector Road Box / Stickup
Ground to Reference TOC
Comments —

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)	—	

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1150	12.20	350	200	0.0	—	START PURGING				—	
1210	*	↓	↓	4.0	19.4	7582	7.12	-173.2	0.48	1.04	
1220	*			6.0	19.4	7580	7.03	-142.8	0.14	0.59	
1230	*			8.0	19.5	7579	7.02	-159.7	0.13	2.88	
1235	*			9.0	19.6	7580	7.02	-162.5	0.12	3.08	
											SAMPLED

HG

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? 743741
Waste Container ID

Additional Comments * NM due to 1/2" diameter - needs bolts

Field Personnel Heather Grimm K. Volkert
Rich D'Amico

Signature Heather Grimm

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 7 of 9
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 9/9/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 10:55
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-5S Sample Number(s) 1152486 1152486UA

Initial Field Data and Measurements

Depth of Well 17.50 Reference Used TOR
Depth to Water 13.35 PID/FID Reading —
Height of Column 4.15 Interface Yes / No If yes, Depth NA Lighter / Heavier

Well Casing Diameter 1.5 Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	—	
Collar Intact	—	
Cover Locked	—	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP ~~(Eh)~~ mV	DO (mg/L)	Turbidity (NTU)	Comment
945	13.35	350	100	← START PUMPING →							
1000	13.36		100	1.5	19.9	10003	6.56	22.2	0.34	83.5	
1020	13.36		100	3.5	19.8	10190	6.54	36.1	0.31	13.6	
1030	13.36		100	4.5	20.1	10102	6.55	40.0	0.30	5.99	
1040	13.36		100	5.5	20.3	10037	6.55	43.2	0.29	4.09	
1045	13.36		100	6	20.3	10038	6.54	42.4	0.43	3.81	
1050	13.36		100	6.5	20.4	10034	6.54	41.9	0.42	3.76	
1055	13.36	350	100	7	20.2	10035	6.55	42.0	0.42	2.89	SAMPLE

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? 743741
Waste Container ID

Additional Comments YSI # 10E100237

Field Personnel Heather Grimm Keith Volkert *Signature*
Rich D'Amico

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**88UT043.001**	Page 8 of 9
Project	UTC P&W Willow Pond GW Monitoring 2010	Date 5/5/10
Location	P&W East Hartford, East Hartford, CT	Sample Time 1300
Client	Pratt & Whitney Division - JTot	

Monitoring Well Number WT-MW-58 Sample Number(s) 1152490 11524900 t

Initial Field Data and Measurements

Depth of Well 17.35 Reference Used IUR
Depth to Water 13.17 PID/FID Reading
Height of Column 4.18 Interface Yes / No If yes, Depth n/a Lighter / Heavier

Well Casing Diameter 1.5" Material pvc
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Comment
1130	13.17	350	100	← START PUMPING →							
1140	13.17		100	1	20.6	2288	6.30	-21.9	0.36	177	
1200	13.17		100	3	20.0	2095	6.36	-49.8	0.16	32.9	
1220	13.17		100	5	19.9	1997	6.38	-59.8	0.14	21.1	
1230	13.17		100	6	20.1	1963	6.40	-60.5	0.29	12.9	
1240	13.17		100	7	20.0	1949	6.40	-62.2	0.18	5.98	
1245	13.17		100	7.5	20.0	1943	6.40	-62.1	0.18	5.03	
1250	13.17		100	8	19.9	1944	6.40	-62.0	0.17	4.62	
1255	13.17		100	8.5	20.1	1943	6.40	-61.9	0.17	3.97	
1300	13.17	350	100	9	20.0	1943	6.40	-62.1	0.18	3.02	SAMPLE

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? 743741
Waste Container ID

Additional Comments YSI # 10E100237

Field Personnel Heather Grimm Keith Volkert
Rich D'Amico

Signature

United Technologies/Pratt & Whitney
Post Remediation Maintenance and Monitoring Program
Willow Brook and Willow Brook Pond

Weather Conditions: Cloudy
Inspection Date: 9/9/10
Inspection Time: 1200

Inspector: Keith Volkert
Reviewed By: Robin McKinney

INSPECTION POINT	DESCRIPTION	GOOD	FAIR	POOR
1) Signs of erosion	Check for gullies of more than 2 inches in depth.	✓		
2) Signs of settling	Look for ponding and for settling of soil of more than 3 inches over a 5 sq. foot area.	X		
3) Loss of vegetative cover	Check for loss of vegetation cover in any area greater than 5 square feet.	X		
4) Undesirable growth	Check for growth that is in excess of ½ inch in diameter (woody vegetation) and taller than 2 feet.		X	
5) Signs of ponding and run on	Look for areas of more than 5 square feet of standing water or areas where surface water is running onto cap.	X		
6) Condition of fencing and gates	Check perimeter fence to make sure it is not damaged (no holes greater than 4-inches in diameter), gates are operable, and locks are in place.	X		
7) Condition of rip-rap in Willow Brook stream channel	Observe entire length of stream channel. Verify that rip-rap has not been displaced.	X		
8) Condition of stone layer in Willow Brook	Perform probing of bottom of Willow Brook Ponds at 5 locations in upper pond and 15 locations within lower pond. Verify refusal on stone layer at all locations.	X		
9) Burrowing animals	Verify no holes larger than 2 inches in diameter in cap.	X		
10) Monitoring well network	Check concrete collar protective casing, locks, legible well identification.	X		
	1.Condition of lock	X		
	2.Visible ID of wells			X
	3.Ponding or infiltration of surface water	X		
	4.Condition of concrete collar	X		
	5.Condition of steel casing	X		

Report all deficiencies to the designated representative of Pratt & Whitney
List all deficiencies, the corrective measures taken, and the date corrective measures were completed:

1) Willow Brook area needs to be mowed.

Corrective Action:

2)

Corrective Action:

3)

Corrective Action:

4)

Corrective Action:

1 of 2

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2 12101-453

CLIENT INFORMATION

NAME: Loureiro Engineering Associates, Inc.
ADDRESS: 100 Northwest Dr.
CITY: Plainville STATE: CT ZIP: 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: Willow Brook / Willow Pond
LOCATION: Pratt + Whitney, East Hartford, CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs 8260B	CT ETPH	PCBs 8082	Total RCRA 8 + Cu, Ni, Zn	HOLD							LAB USE ONLY
	1152495	9/9/10	900	HG	GW	1	X					X	X											
	1152496		1330			6	X					X	X	X	X									
	1152496uf		1330			1			X			X				X								
	1152497		945			4	X					X	X	X	X									
	1152497uf		945			1			X			X				X								
	1152484		1022			6						X	~~X~~	~~X~~	~~X~~		X	(RM)						
	1152484uf		1022			1			X			X				~~X~~	X							
	1152485		1236			6						X	X	X	X									
	1152485uf	9/9/10	1236	HG	GW	1			X			X				X								

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

* Provide CTRCP analytical lists for VOCs and PCBs and provide RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.		1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

2 of 2

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LSA
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860.747.6181

FACILITY INFORMATION

PROJECT NAME: UTC PW Willow Pond GW East Hartford CT
LOCATION: 88UT013
PROJECT NO.:
FAX #: 860.747.8822

ANALYTICAL INFORMATION

VOC 8260 | PCB 8082 | CT ETPH | TOTAL LEAD

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	VOC 8260	PCB 8082	CT ETPH	TOTAL LEAD	LAB USE ONLY
:	1152486	9/9/10	1055	KW	GW	6	2				4	X	X	X		
:	1152486 uf	↓	1055	↓	↓	1			1						X	
:	1152490	↓	1300	↓	↓	6	2				4	X	X	X		
:	1152490 uf	9/9/10	1300	KW	GW	1			1						X	

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

CT RCP analytical for VOC + PCBs and CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	9/9/10	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

Appendix B

Copies of Laboratory Reports (provided on CD-ROM)

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

03/17/10

Technical Report for

Loureiro Eng. Associates

UTC:P&W Willow Pond Quarterly GW Monitoring

88UT043.001

Accutest Job Number: M89610

Sampling Date: 03/03/10

Report to:

rlmckinney@loureiro.com

ATTN: Distribution6

Total number of pages in report: **105**

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Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

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Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

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Accutest LabLink@10:21 17-Mar-2010

Sample Summary

Loureiro Eng. Associates

Job No: M89610

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M89610-1	03/03/10	11:30	SK	03/03/10	AQ	Ground Water	1139105
M89610-2	03/03/10	11:30	SK	03/03/10	AQ	Ground Water	1139105UF
M89610-3	03/03/10	14:00	SK	03/03/10	AQ	Ground Water	1139106
M89610-4	03/03/10	14:00	SK	03/03/10	AQ	Ground Water	1139106UF
M89610-5	03/03/10	11:05	SK	03/03/10	AQ	Ground Water	1139102
M89610-6	03/03/10	11:05	SK	03/03/10	AQ	Ground Water	1139102UF
M89610-7	03/03/10	13:15	SK	03/03/10	AQ	Ground Water	1139103
M89610-8	03/03/10	13:15	SK	03/03/10	AQ	Ground Water	1139103UF
M89610-9	03/03/10	14:40	SK	03/03/10	AQ	Ground Water	1139104
M89610-10	03/03/10	09:00	SK	03/03/10	AQ	Ground Water	1139111
M89610-11	03/03/10	15:00	SK	03/03/10	AQ	Ground Water	1139112
M89610-12	03/03/10	15:00	SK	03/03/10	AQ	Ground Water	1139112UF
M89610-13	03/03/10	10:40	SK	03/03/10	AQ	Ground Water	1139108

Accutest LabLink@10:21 17-Mar-2010

Sample Summary
(continued)

Loureiro Eng. Associates

Job No: M89610

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M89610-14	03/03/10	10:40	SK	03/03/10	AQ	Ground Water	1139108UF
M89610-15	03/03/10	12:10	SK	03/03/10	AQ	Ground Water	1139109
M89610-16	03/03/10	12:10	SK	03/03/10	AQ	Ground Water	1139109UF
M89610-17	03/03/10	13:40	SK	03/03/10	AQ	Ground Water	1139110
M89610-18	03/03/10	13:40	SK	03/03/10	AQ	Ground Water	1139110UF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Loureiro Eng. Associates	**Job No**	M89610
Site:	UTC:P&W Willow Pond Quarterly GW Monitoring	**Report Date**	3/17/2010 9:03:37 AM

18 Sample(s) were collected on 03/03/2010 and were received at Accutest on 03/03/2010 properly preserved, at 0.9 Deg. C and intact. These Samples received an Accutest job number of M89610. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSR482

- All samples were analyzed within the recommended method holding time.
- Sample(s) M89610-17MS, M89610-17MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- BS/BSD Recovery(s) for Dichlorodifluoromethane are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, Bromoform are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Bromoform are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Continuing calibration check standard fortert-butylbenzene, Dichlorodifluoromethane, naphthalene, 1,2,3-trichlorobenzene exceed 30% Difference. This check standard met RCP criteria.

Extractables by GC By Method CT-ETPH 7/06

Matrix AQ **Batch ID:** OP20825

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89727-1MS, M89727-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP20796

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89685-6MS, M89685-6MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix AQ	**Batch ID:** MP14889

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89610-16DUP, M89610-16MS, M89610-16SDL, M89610-16DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Chromium, Silver are outside control limits for sample MP14889-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Chromium, Copper, Zinc are outside control limits for sample MP14889-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix AQ	**Batch ID:** MP14894

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89593-2DUP, M89593-2MS were used as the QC samples for metals.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M89610).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1139105		
Lab Sample ID:	M89610-1	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12877.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.3	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139105		
Lab Sample ID:	M89610-1	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	3.0	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	6.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139105		
Lab Sample ID:	M89610-1	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139105		
Lab Sample ID:	M89610-1	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62808.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	80%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139105		
Lab Sample ID:	M89610-1	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29091.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		30-150%
877-09-8	Tetrachloro-m-xylene	78%		30-150%
2051-24-3	Decachlorobiphenyl	67%		30-150%
2051-24-3	Decachlorobiphenyl	67%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139105UF		
Lab Sample ID:	M89610-2	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	474	200	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [2]	SW846 7471A [4]
Nickel	122	40	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11524
(2) Instrument QC Batch: MA11527
(3) Prep QC Batch: MP14889
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139106		
Lab Sample ID:	M89610-3	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12878.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	1.7	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.9	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139106		
Lab Sample ID:	M89610-3	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	12.1	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	4.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	3.2	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139106		
Lab Sample ID:	M89610-3	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	112%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139106		
Lab Sample ID:	M89610-3	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62810.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.362	0.081	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	99%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139106		
Lab Sample ID:	M89610-3	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29092.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		30-150%
877-09-8	Tetrachloro-m-xylene	85%		30-150%
2051-24-3	Decachlorobiphenyl	77%		30-150%
2051-24-3	Decachlorobiphenyl	78%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139106UF		
Lab Sample ID:	M89610-4	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	227	200	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [2]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11524
(2) Instrument QC Batch: MA11527
(3) Prep QC Batch: MP14889
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139102		
Lab Sample ID:	M89610-5	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12879.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139102		
Lab Sample ID:	M89610-5	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139102		
Lab Sample ID:	M89610-5	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	113%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139102		
Lab Sample ID:	M89610-5	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62812.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.0908	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	71%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139102		
Lab Sample ID:	M89610-5	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29093.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		30-150%
877-09-8	Tetrachloro-m-xylene	76%		30-150%
2051-24-3	Decachlorobiphenyl	70%		30-150%
2051-24-3	Decachlorobiphenyl	70%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139102UF		
Lab Sample ID:	M89610-6	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [2]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11524
(2) Instrument QC Batch: MA11527
(3) Prep QC Batch: MP14889
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139103		
Lab Sample ID:	M89610-7	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12880.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139103		
Lab Sample ID:	M89610-7	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139103		
Lab Sample ID:	M89610-7	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139103		
Lab Sample ID:	M89610-7	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62814.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.0809	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	61%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139103		
Lab Sample ID:	M89610-7	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29094.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		30-150%
877-09-8	Tetrachloro-m-xylene	77%		30-150%
2051-24-3	Decachlorobiphenyl	53%		30-150%
2051-24-3	Decachlorobiphenyl	53%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139103UF		
Lab Sample ID:	M89610-8	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.8	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [2]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11524
(2) Instrument QC Batch: MA11527
(3) Prep QC Batch: MP14889
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139104		
Lab Sample ID:	M89610-9	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12881.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139104		
Lab Sample ID:	M89610-9	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	7.6	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	1.3	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	128%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139104		
Lab Sample ID:	M89610-9	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	122%		70-130%
460-00-4	4-Bromofluorobenzene	122%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139111		
Lab Sample ID:	M89610-10	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12882.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139111		
Lab Sample ID:	M89610-10	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139111		
Lab Sample ID:	M89610-10	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139112		
Lab Sample ID:	M89610-11	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12883.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139112		
Lab Sample ID:	M89610-11	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139112		
Lab Sample ID:	M89610-11	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	115%		70-130%
460-00-4	4-Bromofluorobenzene	113%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139112		
Lab Sample ID:	M89610-11	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62815.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	73%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139112		
Lab Sample ID:	M89610-11	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29095.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		30-150%
877-09-8	Tetrachloro-m-xylene	84%		30-150%
2051-24-3	Decachlorobiphenyl	45%		30-150%
2051-24-3	Decachlorobiphenyl	45%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139112UF		
Lab Sample ID:	M89610-12	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [2]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11524
(2) Instrument QC Batch: MA11527
(3) Prep QC Batch: MP14889
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139108		
Lab Sample ID:	M89610-13	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12884.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139108		
Lab Sample ID:	M89610-13	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139108		
Lab Sample ID:	M89610-13	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	114%		70-130%
460-00-4	4-Bromofluorobenzene	115%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139108		
Lab Sample ID:	M89610-13	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62817.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	103%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139108		
Lab Sample ID:	M89610-13	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29096.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		30-150%
877-09-8	Tetrachloro-m-xylene	76%		30-150%
2051-24-3	Decachlorobiphenyl	70%		30-150%
2051-24-3	Decachlorobiphenyl	70%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139108UF		
Lab Sample ID:	M89610-14	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [2]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11524
(2) Instrument QC Batch: MA11527
(3) Prep QC Batch: MP14889
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139109		
Lab Sample ID:	M89610-15	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12885.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139109		
Lab Sample ID:	M89610-15	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139109		
Lab Sample ID:	M89610-15	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	118%		70-130%
460-00-4	4-Bromofluorobenzene	116%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139109		
Lab Sample ID:	M89610-15	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62818.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	77%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139109		
Lab Sample ID:	M89610-15	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29097.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		30-150%
877-09-8	Tetrachloro-m-xylene	80%		30-150%
2051-24-3	Decachlorobiphenyl	79%		30-150%
2051-24-3	Decachlorobiphenyl	79%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139109UF		
Lab Sample ID:	M89610-16	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [2]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11524
(2) Instrument QC Batch: MA11527
(3) Prep QC Batch: MP14889
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139110		
Lab Sample ID:	M89610-17	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12886.D	1	03/05/10	AT	n/a	n/a	MSR482
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139110		
Lab Sample ID:	M89610-17	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	130%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139110		
Lab Sample ID:	M89610-17	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	119%		70-130%
460-00-4	4-Bromofluorobenzene	118%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139110		
Lab Sample ID:	M89610-17	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62819.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.353	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	81%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139110		
Lab Sample ID:	M89610-17	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29098.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		30-150%
877-09-8	Tetrachloro-m-xylene	74%		30-150%
2051-24-3	Decachlorobiphenyl	56%		30-150%
2051-24-3	Decachlorobiphenyl	56%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139110UF		
Lab Sample ID:	M89610-18	**Date Sampled:**	03/03/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [2]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/05/10	03/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11524
(2) Instrument QC Batch: MA11527
(3) Prep QC Batch: MP14889
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (CT)
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

Parameter Certification Exceptions

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Aroclor 1262	37324-23-5	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD
Aroclor 1268	11100-14-4	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD

ACCUTEST Laboratories

1/3

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M89610
ACCUTEST QUOTE #: KB 2/2009-453

CLIENT INFORMATION

NAME: LEA
ADDRESS: 100 Northwest Dr
CITY: Plainville STATE: CT ZIP: 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860 410 3000

FACILITY INFORMATION

PROJECT NAME: POST-REMEDIATION WILLOWBROOK POND GW SAMPLING
LOCATION: P+W EAST HARTFORD, CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOCs 8260B	CT ETPH	PCB 8082	Total RCRA 8 Metals + Cu, Ni, Zn	LAB USE ONLY
-1	1139105	3/3/10	1130	SK	GW	6	2				4	X	X	X		
-2	1139105UF		1130			1			1						X	
-3	1139106		1400			6	2				4	X	X	X		
-4	1139106UF	3/3/10	1400	SK	GW	1			1						X	
	~~1139107~~ ~~1139107UF~~ SK															
																16AA, 6B, 1J6

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs + PCBs + provide CT RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY/SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	3-3-10	1. [signature]	2. B. C	3-3-10 8:45	2. B. C
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ✓ TEMPERATURE 0.9°C

4.2 4

M89610: Chain of Custody
Page 1 of 4

ACCUTEST Laboratories

2 of 3

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M89610
ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Associates
ADDRESS: 100 Northwest Drive
CITY: Plainville STATE: CT ZIP: 06062
SEND REPORT TO:
PHONE #: 860-947-6181

FACILITY INFORMATION

PROJECT NAME: Willow Pond Post Remediation GW
LOCATION: Pratt & Whitney East Hartford
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs by 8260	RCP A Sulfate & Cu, N, Zn	CTETPH	PCBs	LAB USE ONLY
-5	1139102	3-3-10	1105	[signature]	GW	6	2					4	X		X	X	
-6	1139102uf		1105			1			1					X			
-7	1139103		1315			6	2					4	X		X	X	
-8	1139103uf		1315			1			1					X			
-9	1139104		1440			2	2						X				
-10	1139111		0900			1	1						X				
-11	1139112		1500			6	2					4	X		X	X	
-12	1139112uf	3-3-10	1500	[signature]		1			1					X			

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS RUSH
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP lists for VOCs & PCBs & provide CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	3-3-10 15:30	1. [signature]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

4.2

4

M89610: Chain of Custody
Page 2 of 4

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

3 of 3

ACCUTEST JOB #: M89610
ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Assoc.
ADDRESS: 100 Northwest Dr.
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: UTC P+W Willowpond Quarterly GW Mon.
LOCATION: P+W East Hartford
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs via 8260B	CT ETPH	PCBs via 8082	Total RCRA 8 Metals cu, Ni, Zn	LAB USE ONLY
-13	1139108	3/3/10	10:40	RJZ	GW	6	X					X	X	X	X		
-14	1139108 uf	↓	10:40	↓	↓	1			X			X				X	
-15	1139109		12:10			6	X					X	X	X	X		
-16	1139109 uf		12:10			1			X			X				X	
-17	1139110	↓	13:40	↓	↓	6	X					X	X	X	X		
-18	1139110 uf	3/3/10	13:40	RJZ	GW	1			X			X				X	

RZ

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs and PCBs and provide CT RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	3-3-10 13:12	1. [signature]	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

4.2

4

M89610: Chain of Custody
Page 3 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M89610 **Client:** LEA **Immediate Client Services Action Required:** No

Date / Time Received: 3/3/2010 6:45:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: PW EAST HARTFORD **Airbill #'s:** N/A

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Infared gun	
3. Cooler media:	Ice (bag)	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	
2. Trip Blank listed on COC:	☑	☐	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume rec'd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Loureiro Eng. Associates**

Project Location: **UTC:P&W Willow Pond Quarterly GW Monitoring** **Project Number:** **88UT043.001**

Sampling Date(s): **3/3/2010**

Laboratory Sample ID(s): M89610-1, M89610-2, M89610-3, M89610-4, M89610-5, M89610-6, M89610-7, M89610-8, M89610-9, M89610-10, M89610-11, M89610-12, M89610-13, M89610-14, M89610-15, M89610-16, M89610-17, M89610-18

Methods: CT-ETPH 7/06, SW846 6010B, SW846 7470A, SW846 8082, SW846 8260B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Lab Director

Printed Name: Reza Tand Date: 3/17/2010
Accutest New England

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M89610

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M89610-1 1139105	Collected: 03-MAR-10 11:30 By: SK		Received: 03-MAR-10 By: JB			
M89610-1	SW846 8260B	05-MAR-10 18:21	AT			V8260RCP
M89610-1	SW846 8082	07-MAR-10 13:46	SL	05-MAR-10	AJ	P8082RCP
M89610-1	CT-ETPH 7/06	15-MAR-10 17:41	WZ	10-MAR-10	BJ	BCTTPH
M89610-2 1139105UF	Collected: 03-MAR-10 11:30 By: SK		Received: 03-MAR-10 By: JB			
M89610-2	SW846 6010B	08-MAR-10 12:26	DA	05-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
M89610-2	SW846 7470A	09-MAR-10 15:09	MA	09-MAR-10	MA	HG
M89610-3 1139106	Collected: 03-MAR-10 14:00 By: SK		Received: 03-MAR-10 By: JB			
M89610-3	SW846 8260B	05-MAR-10 18:48	AT			V8260RCP
M89610-3	SW846 8082	07-MAR-10 14:26	SL	05-MAR-10	AJ	P8082RCP
M89610-3	CT-ETPH 7/06	15-MAR-10 18:24	WZ	10-MAR-10	BJ	BCTTPH
M89610-4 1139106UF	Collected: 03-MAR-10 14:00 By: SK		Received: 03-MAR-10 By: JB			
M89610-4	SW846 6010B	08-MAR-10 12:30	DA	05-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
M89610-4	SW846 7470A	09-MAR-10 15:12	MA	09-MAR-10	MA	HG
M89610-5 1139102	Collected: 03-MAR-10 11:05 By: SK		Received: 03-MAR-10 By: JB			
M89610-5	SW846 8260B	05-MAR-10 19:15	AT			V8260RCP
M89610-5	SW846 8082	07-MAR-10 15:05	SL	05-MAR-10	AJ	P8082RCP
M89610-5	CT-ETPH 7/06	15-MAR-10 19:01	WZ	10-MAR-10	BJ	BCTTPH
M89610-6 1139102UF	Collected: 03-MAR-10 11:05 By: SK		Received: 03-MAR-10 By: JB			
M89610-6	SW846 6010B	08-MAR-10 12:52	DA	05-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M89610

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M89610-6	SW846 7470A	09-MAR-10 15:14	MA	09-MAR-10	MA	HG
M89610-7 1139103	Collected: 03-MAR-10 13:15 By: SK		Received: 03-MAR-10 By: JB			
M89610-7	SW846 8260B	05-MAR-10 19:42	AT			V8260RCP
M89610-7	SW846 8082	07-MAR-10 15:45	SL	05-MAR-10	AJ	P8082RCP
M89610-7	CT-ETPH 7/06	15-MAR-10 19:44	WZ	10-MAR-10	BJ	BCTTPH
M89610-8 1139103UF	Collected: 03-MAR-10 13:15 By: SK		Received: 03-MAR-10 By: JB			
M89610-8	SW846 6010B	08-MAR-10 12:56	DA	05-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89610-8	SW846 7470A	09-MAR-10 15:17	MA	09-MAR-10	MA	HG
M89610-9 1139104	Collected: 03-MAR-10 14:40 By: SK		Received: 03-MAR-10 By: JB			
M89610-9	SW846 8260B	05-MAR-10 20:09	AT			V8260RCP
M89610-10 1139111	Collected: 03-MAR-10 09:00 By: SK		Received: 03-MAR-10 By: JB			
M89610-10	SW846 8260B	05-MAR-10 20:37	AT			V8260RCP
M89610-11 1139112	Collected: 03-MAR-10 15:00 By: SK		Received: 03-MAR-10 By: JB			
M89610-11	SW846 8260B	05-MAR-10 21:04	AT			V8260RCP
M89610-11	SW846 8082	07-MAR-10 16:25	SL	05-MAR-10	AJ	P8082RCP
M89610-11	CT-ETPH 7/06	15-MAR-10 20:20	WZ	10-MAR-10	BJ	BCTTPH
M89610-12 1139112UF	Collected: 03-MAR-10 15:00 By: SK		Received: 03-MAR-10 By: JB			
M89610-12	SW846 6010B	08-MAR-10 13:00	DA	05-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89610-12	SW846 7470A	09-MAR-10 15:19	MA	09-MAR-10	MA	HG

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M89610

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M89610-13	Collected: 03-MAR-10 10:40 By: SK		Received: 03-MAR-10 By: JB			
1139108						
M89610-13	SW846 8260B	05-MAR-10 21:31	AT			V8260RCP
M89610-13	SW846 8082	07-MAR-10 17:05	SL	05-MAR-10	AJ	P8082RCP
M89610-13	CT-ETPH 7/06	15-MAR-10 21:39	WZ	10-MAR-10	BJ	BCTTPH
M89610-14	Collected: 03-MAR-10 10:40 By: SK		Received: 03-MAR-10 By: JB			
1139108UF						
M89610-14	SW846 6010B	08-MAR-10 13:04	DA	05-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89610-14	SW846 7470A	09-MAR-10 15:27	MA	09-MAR-10	MA	HG
M89610-15	Collected: 03-MAR-10 12:10 By: SK		Received: 03-MAR-10 By: JB			
1139109						
M89610-15	SW846 8260B	05-MAR-10 21:58	AT			V8260RCP
M89610-15	SW846 8082	07-MAR-10 17:45	SL	05-MAR-10	AJ	P8082RCP
M89610-15	CT-ETPH 7/06	15-MAR-10 22:23	WZ	10-MAR-10	BJ	BCTTPH
M89610-16	Collected: 03-MAR-10 12:10 By: SK		Received: 03-MAR-10 By: JB			
1139109UF						
M89610-16	SW846 6010B	08-MAR-10 12:07	DA	05-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89610-16	SW846 7470A	09-MAR-10 15:29	MA	09-MAR-10	MA	HG
M89610-17	Collected: 03-MAR-10 13:40 By: SK		Received: 03-MAR-10 By: JB			
1139110						
M89610-17	SW846 8260B	05-MAR-10 22:26	AT			V8260RCP
M89610-17	SW846 8082	07-MAR-10 18:25	SL	05-MAR-10	AJ	P8082RCP
M89610-17	CT-ETPH 7/06	15-MAR-10 22:59	WZ	10-MAR-10	BJ	BCTTPH
M89610-18	Collected: 03-MAR-10 13:40 By: SK		Received: 03-MAR-10 By: JB			
1139110UF						

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M89610

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M89610-18	SW846 6010B	08-MAR-10 13:08	DA	05-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
M89610-18	SW846 7470A	09-MAR-10 15:32	MA	09-MAR-10	MA	HG

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR482-MB	R12867.D	1	03/05/10	AT	n/a	n/a	MSR482

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89610-1, M89610-3, M89610-5, M89610-7, M89610-9, M89610-10, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	

Method Blank Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR482-MB	R12867.D	1	03/05/10	AT	n/a	n/a	MSR482

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89610-1, M89610-3, M89610-5, M89610-7, M89610-9, M89610-10, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR482-MB	R12867.D	1	03/05/10	AT	n/a	n/a	MSR482

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89610-1, M89610-3, M89610-5, M89610-7, M89610-9, M89610-10, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	116%	70-130%
2037-26-5	Toluene-D8	114%	70-130%
460-00-4	4-Bromofluorobenzene	112%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR482-BS	R12864.D	1	03/05/10	AT	n/a	n/a	MSR482
MSR482-BSD	R12865.D	1	03/05/10	AT	n/a	n/a	MSR482

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89610-1, M89610-3, M89610-5, M89610-7, M89610-9, M89610-10, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	59.7	119	55.3	111	8	70-130/25
107-13-1	Acrylonitrile	250	285	114	273	109	4	70-130/25
71-43-2	Benzene	50	53.1	106	48.1	96	10	70-130/25
108-86-1	Bromobenzene	50	51.0	102	47.6	95	7	70-130/25
75-27-4	Bromodichloromethane	50	53.3	107	48.5	97	9	70-130/25
75-25-2	Bromoform	50	42.4	85	39.8	80	6	70-130/25
74-83-9	Bromomethane	50	49.6	99	44.6	89	11	70-130/25
78-93-3	2-Butanone (MEK)	50	56.4	113	51.7	103	9	70-130/25
104-51-8	n-Butylbenzene	50	53.4	107	50.9	102	5	70-130/25
135-98-8	sec-Butylbenzene	50	48.9	98	47.0	94	4	70-130/25
98-06-6	tert-Butylbenzene	50	48.0	96	45.5	91	5	70-130/25
75-15-0	Carbon disulfide	50	53.8	108	50.2	100	7	70-130/25
56-23-5	Carbon tetrachloride	50	54.4	109	49.6	99	9	70-130/25
108-90-7	Chlorobenzene	50	48.2	96	44.6	89	8	70-130/25
75-00-3	Chloroethane	50	53.7	107	50.9	102	5	70-130/25
67-66-3	Chloroform	50	55.7	111	51.3	103	8	70-130/25
74-87-3	Chloromethane	50	52.2	104	46.2	92	12	70-130/25
95-49-8	o-Chlorotoluene	50	51.3	103	47.8	96	7	70-130/25
106-43-4	p-Chlorotoluene	50	50.9	102	47.4	95	7	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	44.6	89	41.8	84	6	70-130/25
124-48-1	Dibromochloromethane	50	48.9	98	45.5	91	7	70-130/25
106-93-4	1,2-Dibromoethane	50	48.1	96	45.2	90	6	70-130/25
95-50-1	1,2-Dichlorobenzene	50	48.3	97	45.5	91	6	70-130/25
541-73-1	1,3-Dichlorobenzene	50	49.1	98	45.6	91	7	70-130/25
106-46-7	1,4-Dichlorobenzene	50	49.1	98	46.0	92	7	70-130/25
75-71-8	Dichlorodifluoromethane	50	33.8	68* [a]	30.9	62* [a]	9	70-130/25
75-34-3	1,1-Dichloroethane	50	56.1	112	51.8	104	8	70-130/25
107-06-2	1,2-Dichloroethane	50	52.7	105	48.4	97	9	70-130/25
75-35-4	1,1-Dichloroethene	50	52.8	106	48.1	96	9	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	52.0	104	48.8	98	6	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	51.4	103	47.4	95	8	70-130/25
78-87-5	1,2-Dichloropropane	50	53.6	107	49.6	99	8	70-130/25
142-28-9	1,3-Dichloropropane	50	49.7	99	46.8	94	6	70-130/25
594-20-7	2,2-Dichloropropane	50	57.7	115	52.3	105	10	70-130/25
563-58-6	1,1-Dichloropropene	50	53.0	106	48.3	97	9	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	54.5	109	50.2	100	8	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR482-BS	R12864.D	1	03/05/10	AT	n/a	n/a	MSR482
MSR482-BSD	R12865.D	1	03/05/10	AT	n/a	n/a	MSR482

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89610-1, M89610-3, M89610-5, M89610-7, M89610-9, M89610-10, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	50.7	101	46.8	94	8	70-130/25
100-41-4	Ethylbenzene	50	50.0	100	46.3	93	8	70-130/25
76-13-1	Freon 113	50	59.1	118	53.3	107	10	70-130/25
87-68-3	Hexachlorobutadiene	50	48.8	98	45.2	90	8	70-130/25
591-78-6	2-Hexanone	50	54.1	108	51.4	103	5	70-130/25
98-82-8	Isopropylbenzene	50	51.3	103	48.2	96	6	70-130/25
99-87-6	p-Isopropyltoluene	50	50.3	101	47.9	96	5	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	52.4	105	48.9	98	7	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	54.9	110	52.4	105	5	70-130/25
74-95-3	Methylene bromide	50	52.8	106	49.4	99	7	70-130/25
75-09-2	Methylene chloride	50	52.6	105	49.0	98	7	70-130/25
91-20-3	Naphthalene	50	46.6	93	45.4	91	3	70-130/25
103-65-1	n-Propylbenzene	50	50.6	101	47.2	94	7	70-130/25
100-42-5	Styrene	50	48.6	97	45.5	91	7	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	48.6	97	45.4	91	7	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	54.3	109	52.1	104	4	70-130/25
127-18-4	Tetrachloroethene	50	48.1	96	44.5	89	8	70-130/25
109-99-9	Tetrahydrofuran	50	57.1	114	56.1	112	2	70-130/25
108-88-3	Toluene	50	53.0	106	48.7	97	8	70-130/25
110-57-6	Trans-1,4-Dichloro-2-Butene	50	48.7	97	44.5	89	9	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	45.8	92	44.7	89	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	46.3	93	43.8	88	6	70-130/25
71-55-6	1,1,1-Trichloroethane	50	54.0	108	50.4	101	7	70-130/25
79-00-5	1,1,2-Trichloroethane	50	52.5	105	48.7	97	8	70-130/25
79-01-6	Trichloroethene	50	52.0	104	48.2	96	8	70-130/25
75-69-4	Trichlorofluoromethane	50	53.5	107	49.9	100	7	70-130/25
96-18-4	1,2,3-Trichloropropane	50	52.9	106	50.3	101	5	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	50.4	101	47.1	94	7	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	50.5	101	47.5	95	6	70-130/25
75-01-4	Vinyl chloride	50	52.8	106	48.0	96	10	70-130/25
	m,p-Xylene	100	101	101	93.5	94	8	70-130/25
95-47-6	o-Xylene	50	50.5	101	46.7	93	8	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR482-BS	R12864.D	1	03/05/10	AT	n/a	n/a	MSR482
MSR482-BSD	R12865.D	1	03/05/10	AT	n/a	n/a	MSR482

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89610-1, M89610-3, M89610-5, M89610-7, M89610-9, M89610-10, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	121%	115%	70-130%
2037-26-5	Toluene-D8	115%	106%	70-130%
460-00-4	4-Bromofluorobenzene	115%	107%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M89610-17MS	R12888.D	5	03/05/10	AT	n/a	n/a	MSR482
M89610-17MSD	R12889.D	5	03/05/10	AT	n/a	n/a	MSR482
M89610-17	R12886.D	1	03/05/10	AT	n/a	n/a	MSR482

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89610-1, M89610-3, M89610-5, M89610-7, M89610-9, M89610-10, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	M89610-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	254	102	268	107	5	70-130/30
107-13-1	Acrylonitrile	ND		1250	1360	109	1320	106	3	70-130/30
71-43-2	Benzene	ND		250	265	106	274	110	3	70-130/30
108-86-1	Bromobenzene	ND		250	255	102	263	105	3	70-130/30
75-27-4	Bromodichloromethane	ND		250	250	100	257	103	3	70-130/30
75-25-2	Bromoform	ND		250	155	62* [a]	158	63* [a]	2	70-130/30
74-83-9	Bromomethane	ND		250	245	98	248	99	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	245	98	247	99	1	70-130/30
104-51-8	n-Butylbenzene	ND		250	236	94	268	107	13	70-130/30
135-98-8	sec-Butylbenzene	ND		250	219	88	254	102	15	70-130/30
98-06-6	tert-Butylbenzene	ND		250	219	88	254	102	15	70-130/30
75-15-0	Carbon disulfide	ND		250	250	100	268	107	7	70-130/30
56-23-5	Carbon tetrachloride	ND		250	260	104	273	109	5	70-130/30
108-90-7	Chlorobenzene	ND		250	233	93	242	97	4	70-130/30
75-00-3	Chloroethane	ND		250	288	115	292	117	1	70-130/30
67-66-3	Chloroform	ND		250	292	117	297	119	2	70-130/30
74-87-3	Chloromethane	ND		250	291	116	302	121	4	70-130/30
95-49-8	o-Chlorotoluene	ND		250	257	103	267	107	4	70-130/30
106-43-4	p-Chlorotoluene	ND		250	254	102	265	106	4	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	209	84	217	87	4	70-130/30
124-48-1	Dibromochloromethane	ND		250	200	80	205	82	2	70-130/30
106-93-4	1,2-Dibromoethane	ND		250	234	94	239	96	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	237	95	250	100	5	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	241	96	252	101	4	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	243	97	254	102	4	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	185	74	191	76	3	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	294	118	302	121	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	270	108	275	110	2	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	273	109	282	113	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	267	107	274	110	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	263	105	272	109	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	270	108	279	112	3	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	246	98	250	100	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	223	89	222	89	0	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	272	109	280	112	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	254	102	266	106	5	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M89610-17MS	R12888.D	5	03/05/10	AT	n/a	n/a	MSR482
M89610-17MSD	R12889.D	5	03/05/10	AT	n/a	n/a	MSR482
M89610-17	R12886.D	1	03/05/10	AT	n/a	n/a	MSR482

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89610-1, M89610-3, M89610-5, M89610-7, M89610-9, M89610-10, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	M89610-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	231	92	240	96	4	70-130/30
100-41-4	Ethylbenzene	ND		250	243	97	252	101	4	70-130/30
76-13-1	Freon 113	ND		250	310	124	321	128	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	221	88	240	96	8	70-130/30
591-78-6	2-Hexanone	ND		250	242	97	237	95	2	70-130/30
98-82-8	Isopropylbenzene	ND		250	254	102	270	108	6	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	226	90	257	103	13	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	265	106	268	107	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	279	112	285	114	2	70-130/30
74-95-3	Methylene bromide	ND		250	261	104	271	108	4	70-130/30
75-09-2	Methylene chloride	ND		250	274	110	277	111	1	70-130/30
91-20-3	Naphthalene	ND		250	176	70	224	90	24	70-130/30
103-65-1	n-Propylbenzene	ND		250	243	97	265	106	9	70-130/30
100-42-5	Styrene	ND		250	220	88	233	93	6	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	234	94	240	96	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	278	111	275	110	1	70-130/30
127-18-4	Tetrachloroethene	ND		250	229	92	238	95	4	70-130/30
109-99-9	Tetrahydrofuran	ND		250	289	116	286	114	1	70-130/30
108-88-3	Toluene	ND		250	264	106	271	108	3	70-130/30
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		250	187	75	195	78	4	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	171	68* [a]	222	89	26	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	215	86	228	91	6	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	286	114	290	116	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	260	104	265	106	2	70-130/30
79-01-6	Trichloroethene	ND		250	261	104	278	111	6	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	290	116	298	119	3	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	252	101	252	101	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	234	94	259	104	10	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	244	98	262	105	7	70-130/30
75-01-4	Vinyl chloride	ND		250	283	113	292	117	3	70-130/30
	m,p-Xylene	ND		500	483	97	505	101	4	70-130/30
95-47-6	o-Xylene	ND		250	240	96	252	101	5	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M89610-17MS	R12888.D	5	03/05/10	AT	n/a	n/a	MSR482
M89610-17MSD	R12889.D	5	03/05/10	AT	n/a	n/a	MSR482
M89610-17	R12886.D	1	03/05/10	AT	n/a	n/a	MSR482

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89610-1, M89610-3, M89610-5, M89610-7, M89610-9, M89610-10, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Surrogate Recoveries	MS	MSD	M89610-17	Limits
1868-53-7	Dibromofluoromethane	129%	130%	130%	70-130%
2037-26-5	Toluene-D8	117%	121%	119%	70-130%
460-00-4	4-Bromofluorobenzene	118%	122%	118%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Volatile Internal Standard Area Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Check Std:	MSR482-CC475	**Injection Date:**	03/05/10
Lab File ID:	R12863.D	**Injection Time:**	12:00
Instrument ID:	GCMSR	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	113004	9.13	202240	10.00	132334	13.26	88733	15.82	61769	6.70
Upper Limit [a]	226008	9.63	404480	10.50	264668	13.76	177466	16.32	123538	7.20
Lower Limit [b]	56502	8.63	101120	9.50	66167	12.76	44367	15.32	30885	6.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSR482-BS	102130	9.13	180189	10.00	118954	13.25	87164	15.82	58011	6.70
MSR482-BSD	111195	9.13	198730	10.00	129687	13.26	94671	15.82	63424	6.70
MSR482-MB	103376	9.13	181478	10.00	115642	13.26	83355	15.82	57841	6.69
ZZZZZZ	101963	9.13	180863	10.00	115903	13.26	83034	15.82	57367	6.70
ZZZZZZ	101089	9.13	176103	10.00	110632	13.26	80112	15.82	57481	6.69
ZZZZZZ	98977	9.13	174595	10.00	110242	13.26	78558	15.82	57648	6.69
ZZZZZZ	105611	9.13	183641	10.00	115303	13.26	81922	15.82	62190	6.69
ZZZZZZ	104126	9.13	185350	10.00	117643	13.26	83268	15.82	61185	6.70
ZZZZZZ	103591	9.13	181638	10.00	114894	13.26	82861	15.82	63176	6.70
ZZZZZZ	93788	9.13	166508	10.00	106147	13.26	76156	15.82	55806	6.69
ZZZZZZ	96956	9.13	172402	10.00	107889	13.26	76890	15.82	54713	6.69
M89610-1	94117	9.13	167973	10.00	108020	13.26	76938	15.82	55818	6.69
M89610-3	91796	9.13	165490	10.00	107296	13.26	74215	15.82	55253	6.70
M89610-5	91654	9.13	161840	10.00	105636	13.26	74676	15.82	51323	6.69
M89610-7	92416	9.13	165038	10.00	105941	13.26	75253	15.82	52705	6.69
M89610-9	85272	9.13	149617	10.00	98477	13.26	67784	15.82	53192	6.69
M89610-10	91743	9.13	165440	10.00	105773	13.26	73440	15.82	50512	6.69
M89610-11	85921	9.13	156446	10.00	102086	13.26	70844	15.82	48023	6.69
M89610-13	88244	9.13	157539	10.00	101704	13.26	71091	15.82	48884	6.69
M89610-15	86408	9.13	153421	10.00	97597	13.26	69931	15.82	47011	6.69
M89610-17	82056	9.13	149350	10.00	95632	13.26	67568	15.82	45951	6.69
ZZZZZZ	81776	9.13	148498	10.00	95976	13.26	66164	15.82	45498	6.69
M89610-17MS	86690	9.13	158106	10.00	106187	13.25	74522	15.82	46331	6.70
M89610-17MSD	90430	9.13	162437	10.00	109858	13.25	77439	15.82	48187	6.70

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M89610-1	R12877.D	118.0	110.0	109.0
M89610-3	R12878.D	119.0	112.0	111.0
M89610-5	R12879.D	118.0	113.0	111.0
M89610-7	R12880.D	117.0	109.0	109.0
M89610-9	R12881.D	128.0	122.0	122.0
M89610-10	R12882.D	115.0	109.0	111.0
M89610-11	R12883.D	124.0	115.0	113.0
M89610-13	R12884.D	120.0	114.0	115.0
M89610-15	R12885.D	122.0	118.0	116.0
M89610-17	R12886.D	130.0	119.0	118.0
M89610-17MS	R12888.D	129.0	117.0	118.0
M89610-17MSD	R12889.D	130.0	121.0	122.0
MSR482-BS	R12864.D	121.0	115.0	115.0
MSR482-BSD	R12865.D	115.0	106.0	107.0
MSR482-MB	R12867.D	116.0	114.0	112.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20825-MB	PO62798.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M89610-1, M89610-3, M89610-5, M89610-7, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	69%	50-149%

Method Blank Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20796-MB	BB29076.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000

The QC reported here applies to the following samples: **Method:** SW846 8082

M89610-1, M89610-3, M89610-5, M89610-7, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	74%	30-150%
877-09-8	Tetrachloro-m-xylene	69%	30-150%
2051-24-3	Decachlorobiphenyl	42%	30-150%
2051-24-3	Decachlorobiphenyl	42%	30-150%

Blank Spike Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20825-BS	PO62800.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M89610-1, M89610-3, M89610-5, M89610-7, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	CT-DRO (C9-C36)	0.7	0.521	74	60-120

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	71%	50-149%

Blank Spike Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20796-BS	BB29077.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000

The QC reported here applies to the following samples: **Method:** SW846 8082

M89610-1, M89610-3, M89610-5, M89610-7, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	1.8	90	40-140
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	2	1.8	90	40-140
37324-23-5	Aroclor 1262		ND		40-140
11100-14-4	Aroclor 1268		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	82%	30-150%
877-09-8	Tetrachloro-m-xylene	77%	30-150%
2051-24-3	Decachlorobiphenyl	46%	30-150%
2051-24-3	Decachlorobiphenyl	46%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20825-MS	PO62802.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
OP20825-MSD	PO62804.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583
M89727-1	PO62806.D	1	03/15/10	WZ	03/10/10	OP20825	GPO3583

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M89610-1, M89610-3, M89610-5, M89610-7, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	M89727-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.393		0.707	1.11	101	1.07	96	4	50-129/26

CAS No.	Surrogate Recoveries	MS	MSD	M89727-1	Limits
3386-33-2	1-Chlorooctadecane	79%	81%	85%	50-149%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20796-MS	BB29078.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
OP20796-MSD	BB29080.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
M89685-6	BB29081.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000

The QC reported here applies to the following samples: **Method:** SW846 8082

M89610-1, M89610-3, M89610-5, M89610-7, M89610-11, M89610-13, M89610-15, M89610-17

CAS No.	Compound	M89685-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2	1.9	95	1.7	85	11	40-140/50
11104-28-2	Aroclor 1221	ND			ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND			ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND			ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND			ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	ND			ND		ND		nc	40-140/50
11096-82-5	Aroclor 1260	ND		2	1.8	90	1.7	85	6	40-140/50
37324-23-5	Aroclor 1262	ND			ND		ND		nc	40-140/50
11100-14-4	Aroclor 1268	ND			ND		ND		nc	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M89685-6	Limits
877-09-8	Tetrachloro-m-xylene	89%	81%	88%	30-150%
877-09-8	Tetrachloro-m-xylene	83%	76%	81%	30-150%
2051-24-3	Decachlorobiphenyl	48%	48%	54%	30-150%
2051-24-3	Decachlorobiphenyl	48%	48%	54%	30-150%

Semivolatile Surrogate Recovery Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: CT-ETPH 7/06 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
M89610-1	PO62808.D	80.0
M89610-3	PO62810.D	99.0
M89610-5	PO62812.D	71.0
M89610-7	PO62814.D	61.0
M89610-11	PO62815.D	73.0
M89610-13	PO62817.D	103.0
M89610-15	PO62818.D	77.0
M89610-17	PO62819.D	81.0
OP20825-BS	PO62800.D	71.0
OP20825-MB	PO62798.D	69.0
OP20825-MS	PO62802.D	79.0
OP20825-MSD	PO62804.D	81.0

Surrogate Compounds	Recovery Limits
S1 = 1-Chlorooctadecane	50-149%

(a) Recovery from GC signal #1

Semivolatile Surrogate Recovery Summary

Job Number: M89610
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8082 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
M89610-1	BB29091.D	87.0	78.0	67.0	67.0
M89610-3	BB29092.D	101.0	85.0	77.0	78.0
M89610-5	BB29093.D	81.0	76.0	70.0	70.0
M89610-7	BB29094.D	81.0	77.0	53.0	53.0
M89610-11	BB29095.D	89.0	84.0	45.0	45.0
M89610-13	BB29096.D	80.0	76.0	70.0	70.0
M89610-15	BB29097.D	85.0	80.0	79.0	79.0
M89610-17	BB29098.D	78.0	74.0	56.0	56.0
OP20796-BS	BB29077.D	82.0	77.0	46.0	46.0
OP20796-MB	BB29076.D	74.0	69.0	42.0	42.0
OP20796-MS	BB29078.D	89.0	83.0	48.0	48.0
OP20796-MSD	BB29080.D	81.0	76.0	48.0	48.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14889
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/05/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	7	14		
Antimony	6.0	.79	1.2		
Arsenic	10	.57	1.9	-0.10	<10
Barium	200	2	3.7	0.80	<200
Beryllium	4.0	.15	.2		
Boron	100	1.2	1.5		
Cadmium	4.0	.12	.12	0.20	<4.0
Calcium	5000	15	39		
Chromium	10	.42	.5	0.0	<10
Cobalt	50	.17	.3		
Copper	25	.81	.8	0.30	<25
Gold	50	.97	1.7		
Iron	100	2.8	4.1		
Lead	5.0	.57	1.5	0.20	<5.0
Magnesium	5000	25	32		
Manganese	15	.12	.9		
Molybdenum	100	.24	.6		
Nickel	40	.12	.3	-0.20	<40
Palladium	50	1.2	2.5		
Platinum	50	4.4	7		
Potassium	5000	29	30		
Selenium	10	1.3	1.7	0.60	<10
Silicon	100	2.1	7.2		
Silver	5.0	.49	.5	-0.10	<5.0
Sodium	5000	27	31		
Strontium	10	.06	.3		
Thallium	10	.56	.7		
Tin	100	.31	.4		
Titanium	50	.4	.5		
Tungsten	100	3.4	12		
Vanadium	30	.63	1.1		
Zinc	20	.72	2	0.90	<20

Associated samples MP14889: M89610-2, M89610-4, M89610-6, M89610-8, M89610-12, M89610-14, M89610-16, M89610-18

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14889
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.1

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14889
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Metal	M89610-16 Original	MS	Spikelot MPICP	% Rec	QC Limits	M89610-16 Original	DUP	RPD	QC Limits
Prep Date:				03/05/10				03/05/10	
Aluminum									
Antimony	anr								
Arsenic	0.0	532	500	106.4	75-125	0.0	0.0	NC	0-20
Barium	64.5	2160	2000	104.8	75-125	64.5	64.9	0.6	0-20
Beryllium	anr								
Boron									
Cadmium	0.0	531	500	106.2	75-125	0.0	0.0	NC	0-20
Calcium									
Chromium	0.80	506	500	101.0	75-125	0.80	1.1	31.6 (a)	0-20
Cobalt									
Copper	2.7	503	500	100.1	75-125	2.7	2.7	0.0	0-20
Gold									
Iron									
Lead	0.0	1010	1000	101.0	75-125	0.0	0.0	NC	0-20
Magnesium									
Manganese									
Molybdenum									
Nickel	0.0	505	500	101.0	75-125	0.0	0.0	NC	0-20
Palladium									
Platinum									
Potassium									
Selenium	0.0	526	500	105.2	75-125	0.0	0.0	NC	0-20
Silicon									
Silver	0.0	202	200	101.0	75-125	0.0	0.70	200.0(a)	0-20
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	1.9	505	500	100.6	75-125	1.9	2.2	14.6	0-20

Associated samples MP14889: M89610-2, M89610-4, M89610-6, M89610-8, M89610-12, M89610-14, M89610-16, M89610-18

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14889 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14889
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			03/05/10					03/05/10	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	anr								
Arsenic	529	500	105.8	80-120	522	500	104.4	1.3	20
Barium	2100	2000	105.0	80-120	2050	2000	102.5	2.4	20
Beryllium	anr								
Boron									
Cadmium	527	500	105.4	80-120	518	500	103.6	1.7	20
Calcium									
Chromium	508	500	101.6	80-120	503	500	100.6	1.0	20
Cobalt									
Copper	501	500	100.2	80-120	502	500	100.4	0.2	20
Gold									
Iron									
Lead	1010	1000	101.0	80-120	1000	1000	100.0	1.0	20
Magnesium									
Manganese									
Molybdenum									
Nickel	507	500	101.4	80-120	500	500	100.0	1.4	20
Palladium									
Platinum									
Potassium									
Selenium	525	500	105.0	80-120	519	500	103.8	1.1	20
Silicon									
Silver	202	200	101.0	80-120	203	200	101.5	0.5	20
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	510	500	102.0	80-120	501	500	100.2	1.8	20

Associated samples MP14889: M89610-2, M89610-4, M89610-6, M89610-8, M89610-12, M89610-14, M89610-16, M89610-18

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14889
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.3

7

SERIAL DILUTION RESULTS SUMMARY

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14889
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/05/10

Metal	M89610-16 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	64.5	69.9	8.4	0-10
Beryllium	anr			
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	0.800	0.00	100.0(a)	0-10
Cobalt				
Copper	2.70	0.00	100.0(a)	0-10
Gold				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Palladium				
Platinum				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	1.90	7.00	268.4(a)	0-10

Associated samples MP14889: M89610-2, M89610-4, M89610-6, M89610-8, M89610-12, M89610-14, M89610-16, M89610-18

SERIAL DILUTION RESULTS SUMMARY

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14889
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14894
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/09/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.035	.048	-0.0080	<0.20

Associated samples MP14894: M89610-2, M89610-4, M89610-6, M89610-8, M89610-12, M89610-14, M89610-16, M89610-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14894
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/09/10 03/09/10

Metal	M89593-2 Original	MS	Spikelot HGRWS1	% Rec	QC Limits	M89593-2 Original	DUP	RPD	QC Limits
Mercury	0.0	3.0	3	100.0	75-125	0.0	0.0	NC	0-20

Associated samples MP14894: M89610-2, M89610-4, M89610-6, M89610-8, M89610-12, M89610-14, M89610-16, M89610-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M89610
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14894
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/09/10 03/09/10

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	2.9	3	96.7	80-120	2.9	3	96.7	0.0	20

Associated samples MP14894: M89610-2, M89610-4, M89610-6, M89610-8, M89610-12, M89610-14, M89610-16, M89610-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

03/17/10

Technical Report for

Loureiro Eng. Associates

UTC:P&W Willow Pond Quarterly GW Monitoring

88UT043.001

Accutest Job Number: M89593

Sampling Date: 03/02/10

Report to:

rlmckinney@loureiro.com

ATTN: Distribution6

Total number of pages in report: **100**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

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Accutest LabLink@13:24 17-Mar-2010

Sample Summary

Loureiro Eng. Associates

Job No: M89593

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M89593-1	03/02/10	11:10	RJZ	03/03/10	AQ	Ground Water	1139098
M89593-2	03/02/10	11:10	RJZ	03/03/10	AQ	Ground Water	1139098UF
M89593-3	03/02/10	13:00	RJZ	03/03/10	AQ	Ground Water	1139099
M89593-4	03/02/10	13:00	RJZ	03/03/10	AQ	Ground Water	1139099UF
M89593-5	03/02/10	13:00	RJZ	03/03/10	AQ	Ground Water	1139114
M89593-6	03/02/10	13:00	RJZ	03/03/10	AQ	Ground Water	1139114UF
M89593-7	03/02/10	14:40	RJZ	03/03/10	AQ	Ground Water	1139100
M89593-8	03/02/10	14:40	RJZ	03/03/10	AQ	Ground Water	1139100UF
M89593-9	03/02/10	14:25	RJZ	03/03/10	AQ	Ground Water	1139101
M89593-10	03/02/10	14:25	RJZ	03/03/10	AQ	Ground Water	1139101UF
M89593-11	03/02/10	10:45	RJZ	03/03/10	AQ	Ground Water	1139095
M89593-12	03/02/10	10:45	RJZ	03/03/10	AQ	Ground Water	1139095UF
M89593-13	03/02/10	12:10	RJZ	03/03/10	AQ	Ground Water	1139096

Sample Summary
(continued)

Loureiro Eng. Associates

Job No: M89593

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M89593-14	03/02/10	12:10	RJZ	03/03/10	AQ	Ground Water	1139096UF
M89593-15	03/02/10	14:00	RJZ	03/03/10	AQ	Ground Water	1139097
M89593-16	03/02/10	14:00	RJZ	03/03/10	AQ	Ground Water	1139097UF
M89593-17	03/02/10	09:00	RJZ	03/03/10	AQ	Ground Water	1139115

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Loureiro Eng. Associates	**Job No**	M89593
Site:	UTC:P&W Willow Pond Quarterly GW Monitoring	**Report Date**	3/17/2010 9:20:44 AM

17 Sample(s) were collected on 03/02/2010 and were received at Accutest on 03/03/2010 properly preserved, at 1.3 Deg. C and intact. These Samples received an Accutest job number of M89593. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSR480

- All samples were analyzed within the recommended method holding time.
- Sample(s) M89588-2MS, M89588-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- BS/BSD Recovery(s) for Dichlorodifluoromethane are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, Bromoform, cis-1,2-Dichloroethene, Hexachlorobutadiene, Trans-1,4-Dichloro-2-Butene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Bromoform, Trans-1,4-Dichloro-2-Butene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 1,2,3-Trichlorobenzene, Hexachlorobutadiene are outside control limits for sample M89588-2MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- M89588-2MS/MSD for Dichlorodifluoromethane: Outside control limits. Blank Spike meets program technical requirements.
- Continuing calibration check standard for Dichlorodifluoromethane, 1,2,3-trichlorobenzene naphthalene exceed 30% Difference. This check standard met RCP criteria.

Extractables by GC By Method CT-ETPH 7/06

Matrix AQ **Batch ID:** OP20794

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89226-5MS, M89226-5MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP20796

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89685-6MS, M89685-6MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix AQ	**Batch ID:** MP14880

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89589-7DUP, M89589-7MS, M89589-7SDL, M89589-7DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Chromium, Nickel, Silver are outside control limits for sample MP14880-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Barium, Chromium, Copper are outside control limits for sample MP14880-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- M89593-8 for Zinc: Elevated RL due to dilution required for matrix interference.
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix AQ	**Batch ID:** MP14894

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89593-2DUP, M89593-2MS were used as the QC samples for metals.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M89593).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1139098		
Lab Sample ID:	M89593-1	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12822.D	1	03/04/10	AT	n/a	n/a	MSR480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139098		
Lab Sample ID:	M89593-1	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139098		
Lab Sample ID:	M89593-1	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	114%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139098		
Lab Sample ID:	M89593-1	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62738.D	1	03/12/10	WZ	03/05/10	OP20794	GPO3581
Run #2							

	Initial Volume	Final Volume
Run #1	10000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.0080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	94%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139098		
Lab Sample ID:	M89593-1	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29082.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		30-150%
877-09-8	Tetrachloro-m-xylene	75%		30-150%
2051-24-3	Decachlorobiphenyl	75%		30-150%
2051-24-3	Decachlorobiphenyl	75%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139098UF		
Lab Sample ID:	M89593-2	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [1]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11527
(2) Instrument QC Batch: MA11536
(3) Prep QC Batch: MP14880
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139099		
Lab Sample ID:	M89593-3	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12823.D	1	03/04/10	AT	n/a	n/a	MSR480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	0.52	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	39.6	1.0	ug/l	
107-06-2	1,2-Dichloroethane	1.8	1.0	ug/l	
75-35-4	1,1-Dichloroethene	41.3	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	49.6	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139099		
Lab Sample ID:	M89593-3	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	6.9	1.0	ug/l	
109-99-9	Tetrahydrofuran	18.7	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	24.0	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	92.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	35.9	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139099		
Lab Sample ID:	M89593-3	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139099		
Lab Sample ID:	M89593-3	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62739.D	1	03/12/10	WZ	03/05/10	OP20794	GPO3581
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.107	0.082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	63%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139099		
Lab Sample ID:	M89593-3	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29083.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		30-150%
877-09-8	Tetrachloro-m-xylene	73%		30-150%
2051-24-3	Decachlorobiphenyl	55%		30-150%
2051-24-3	Decachlorobiphenyl	55%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139099UF		
Lab Sample ID:	M89593-4	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6.9	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	361	200	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [1]	SW846 7471A [4]
Nickel	57.5	40	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11527
(2) Instrument QC Batch: MA11536
(3) Prep QC Batch: MP14880
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139114		
Lab Sample ID:	M89593-5	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12824.D	1	03/04/10	AT	n/a	n/a	MSR480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	0.54	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	44.1	1.0	ug/l	
107-06-2	1,2-Dichloroethane	1.9	1.0	ug/l	
75-35-4	1,1-Dichloroethene	40.3	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	50.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.2	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139114		
Lab Sample ID:	M89593-5	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	6.4	1.0	ug/l	
109-99-9	Tetrahydrofuran	17.6	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	22.5	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	89.5	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	40.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139114		
Lab Sample ID:	M89593-5	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139114		
Lab Sample ID:	M89593-5	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62740.D	1	03/12/10	WZ	03/05/10	OP20794	GPO3581
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.100	0.082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	71%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139114		
Lab Sample ID:	M89593-5	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29084.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		30-150%
877-09-8	Tetrachloro-m-xylene	77%		30-150%
2051-24-3	Decachlorobiphenyl	57%		30-150%
2051-24-3	Decachlorobiphenyl	57%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139114UF		
Lab Sample ID:	M89593-6	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6.5	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	356	200	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [1]	SW846 7471A [4]
Nickel	56.4	40	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11527
(2) Instrument QC Batch: MA11536
(3) Prep QC Batch: MP14880
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139100		
Lab Sample ID:	M89593-7	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12825.D	1	03/04/10	AT	n/a	n/a	MSR480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	21.7	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	4.7	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	16.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.9	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139100		
Lab Sample ID:	M89593-7	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.3	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	4.5	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	17.9	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139100		
Lab Sample ID:	M89593-7	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	113%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139100		
Lab Sample ID:	M89593-7	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62741.D	1	03/12/10	WZ	03/05/10	OP20794	GPO3581
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	77%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139100		
Lab Sample ID:	M89593-7	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29085.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		30-150%
877-09-8	Tetrachloro-m-xylene	77%		30-150%
2051-24-3	Decachlorobiphenyl	73%		30-150%
2051-24-3	Decachlorobiphenyl	73%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139100UF		
Lab Sample ID:	M89593-8	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	454	200	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [1]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc [a]	< 40	40	ug/l	2	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11527
(2) Instrument QC Batch: MA11536
(3) Prep QC Batch: MP14880
(4) Prep QC Batch: MP14894

(a) Elevated RL due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139101		
Lab Sample ID:	M89593-9	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12826.D	1	03/04/10	AT	n/a	n/a	MSR480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	15.1	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.6	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139101		
Lab Sample ID:	M89593-9	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	1.9	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	5.2	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	10.2	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139101		
Lab Sample ID:	M89593-9	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139101		
Lab Sample ID:	M89593-9	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62742.D	1	03/12/10	WZ	03/05/10	OP20794	GPO3581
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.599	0.082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	69%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139101		
Lab Sample ID:	M89593-9	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29086.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		30-150%
877-09-8	Tetrachloro-m-xylene	63%		30-150%
2051-24-3	Decachlorobiphenyl	61%		30-150%
2051-24-3	Decachlorobiphenyl	62%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139101UF		
Lab Sample ID:	M89593-10	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	177	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	235	25	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [1]	SW846 7471A [4]
Nickel	2900	40	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	21.2	20	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11527
(2) Instrument QC Batch: MA11536
(3) Prep QC Batch: MP14880
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139095		
Lab Sample ID:	M89593-11	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12827.D	1	03/04/10	AT	n/a	n/a	MSR480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139095		
Lab Sample ID:	M89593-11	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139095		
Lab Sample ID:	M89593-11	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139095		
Lab Sample ID:	M89593-11	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62743.D	1	03/12/10	WZ	03/05/10	OP20794	GPO3581
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.084	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	77%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139095		
Lab Sample ID:	M89593-11	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29087.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		30-150%
877-09-8	Tetrachloro-m-xylene	75%		30-150%
2051-24-3	Decachlorobiphenyl	77%		30-150%
2051-24-3	Decachlorobiphenyl	75%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139095UF		
Lab Sample ID:	M89593-12	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [1]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11527
(2) Instrument QC Batch: MA11536
(3) Prep QC Batch: MP14880
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139096		
Lab Sample ID:	M89593-13	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12828.D	1	03/04/10	AT	n/a	n/a	MSR480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139096		
Lab Sample ID:	M89593-13	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139096		
Lab Sample ID:	M89593-13	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	114%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139096		
Lab Sample ID:	M89593-13	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62744.D	1	03/12/10	WZ	03/05/10	OP20794	GPO3581
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.207	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	80%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139096		
Lab Sample ID:	M89593-13	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29088.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		30-150%
877-09-8	Tetrachloro-m-xylene	81%		30-150%
2051-24-3	Decachlorobiphenyl	83%		30-150%
2051-24-3	Decachlorobiphenyl	82%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139096UF		
Lab Sample ID:	M89593-14	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [1]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11527
(2) Instrument QC Batch: MA11536
(3) Prep QC Batch: MP14880
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139097		
Lab Sample ID:	M89593-15	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12829.D	1	03/04/10	AT	n/a	n/a	MSR480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139097		
Lab Sample ID:	M89593-15	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139097		
Lab Sample ID:	M89593-15	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139097		
Lab Sample ID:	M89593-15	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PO62745.D	1	03/12/10	WZ	03/05/10	OP20794	GPO3581
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.084	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	93%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139097		
Lab Sample ID:	M89593-15	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB29089.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		30-150%
877-09-8	Tetrachloro-m-xylene	84%		30-150%
2051-24-3	Decachlorobiphenyl	73%		30-150%
2051-24-3	Decachlorobiphenyl	72%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139097UF		
Lab Sample ID:	M89593-16	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	03/09/10	03/09/10	MA	SW846 7470A [1]	SW846 7471A [4]
Nickel	< 40	40	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/10	03/11/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11527
(2) Instrument QC Batch: MA11536
(3) Prep QC Batch: MP14880
(4) Prep QC Batch: MP14894

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1139115		
Lab Sample ID:	M89593-17	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R12830.D	1	03/04/10	AT	n/a	n/a	MSR480
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139115		
Lab Sample ID:	M89593-17	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1139115		
Lab Sample ID:	M89593-17	**Date Sampled:**	03/02/10
Matrix:	AQ - Ground Water	**Date Received:**	03/03/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (CT)
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

Parameter Certification Exceptions

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Aroclor 1262	37324-23-5	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD
Aroclor 1268	11100-14-4	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD

ACCUTEST Laboratories

1 of 2

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M89593
ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Assoc.
ADDRESS: 100 Northwest Dr.
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: UTC Pty Willowpond Quarterly GW Mon
LOCATION: Pty East Hartford, CT
PROJECT NO.: 88UT043.001
FAX #:

ANALYTICAL INFORMATION

VOCs via 8260B; CT ETPH; PCBs via 8082; Total RCRA 8 Metals Cr, Ni, Zn

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs via 8260B	CT ETPH	PCBs via 8082	Total RCRA 8 Metals Cr, Ni, Zn	LAB USE ONLY
-1	1139098	3/2/10	11:10	RJZ	GW	6	X					X	X	X	X		
-2	1139098uf		11:10			1			X			X				X	
-3	1139099		13:00			6	X					X	X	X	X		
-4	1139099uf		13:00			1			X			X				X	
-5	1139114		13:00			6	X					X	X	X	X		
-6	1139114uf		13:00			1			X			X				X	
-7	1139100		14:40			6	X					X	X	X	X		
-8	1139100uf		14:40	RJZ		1			X			X				X	
-9	1139101		14:25	AKC		6	X					X	X	X	X		
-10	1139101uf	3/2/10	14:25	AKC	GW	1			X			X				X	18D, GA, 154

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs and PCBs and provide CT RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	3/2/10 1545	1.	2.	3-2-10	2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 1.3 C

4.2 4

M89593: Chain of Custody
Page 1 of 3

ACCUTEST Laboratories

2/2

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M89593
ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LEA
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860 410 3000

FACILITY INFORMATION

PROJECT NAME: WILLOW POND POST-REMEDIATION
LOCATION: P+W EAST HARTFORD
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC 8260B	CT ETPH	PCBs 8082	Metals Total RCRA 8 Metals + Cu, Zn	LAB USE ONLY
-11	1139095	3/2/10	1045	SK	GW	6	2				4	X	X	X		
-12	1139095uf		1045			1			1						X	
-13	1139096		1210			6	2				4	X	X	X		
-14	1139096uf		1210			1			1						X	
-15	1139097		1400			6	2				4	X	X	X		
-16	1139097uf		1400			1			1						X	
-17	1139115	3/2/10	900	SK	GW	1	1					X				

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs + PCBs + provide CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	3/2/10 1545	1.	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

4.2

4

M89593: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M89593 **Client:** LEA **Immediate Client Services Action Required:** No

Date / Time Received: 3/3/2010 6:00:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: UTC PW **Airbill #'s:** N/A

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	
2. Trip Blank listed on COC:	☑		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume rec'd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

M89593: Chain of Custody
Page 3 of 3

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Loureiro Eng. Associates**

Project Location: **UTC:P&W Willow Pond Quarterly GW Monitoring** **Project Number:** **88UT043.001**

Sampling Date(s): **3/2/2010**

Laboratory Sample ID(s): M89593-1, M89593-2, M89593-3, M89593-4, M89593-5, M89593-6, M89593-7, M89593-8, M89593-9, M89593-10, M89593-11, M89593-12, M89593-13, M89593-14, M89593-15, M89593-16, M89593-17

Methods: CT-ETPH 7/06, SW846 6010B, SW846 7470A, SW846 8082, 8260B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Lab Director

Printed Name: Reza Tand Date: 3/17/2010
Accutest New England

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M89593

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M89593-1 1139098	Collected: 02-MAR-10 11:10 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-1	SW846 8260B	04-MAR-10 15:36	AT			V8260RCP
M89593-1	SW846 8082	07-MAR-10 04:44	SL	05-MAR-10	AJ	P8082RCP
M89593-1	CT-ETPH 7/06	12-MAR-10 09:00	WZ	05-MAR-10	DG	BCTTPH
M89593-2 1139098UF	Collected: 02-MAR-10 11:10 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-2	SW846 7470A	09-MAR-10 14:44	MA	09-MAR-10	MA	HG
M89593-2	SW846 6010B	11-MAR-10 14:47	DA	04-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89593-3 1139099	Collected: 02-MAR-10 13:00 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-3	SW846 8260B	04-MAR-10 16:03	AT			V8260RCP
M89593-3	SW846 8082	07-MAR-10 05:24	SL	05-MAR-10	AJ	P8082RCP
M89593-3	CT-ETPH 7/06	12-MAR-10 09:40	WZ	05-MAR-10	DG	BCTTPH
M89593-4 1139099UF	Collected: 02-MAR-10 13:00 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-4	SW846 7470A	09-MAR-10 14:46	MA	09-MAR-10	MA	HG
M89593-4	SW846 6010B	11-MAR-10 14:51	DA	04-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89593-5 1139114	Collected: 02-MAR-10 13:00 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-5	SW846 8260B	04-MAR-10 16:33	AT			V8260RCP
M89593-5	SW846 8082	07-MAR-10 06:04	SL	05-MAR-10	AJ	P8082RCP
M89593-5	CT-ETPH 7/06	12-MAR-10 10:16	WZ	05-MAR-10	DG	BCTTPH
M89593-6 1139114UF	Collected: 02-MAR-10 13:00 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-6	SW846 7470A	09-MAR-10 14:49	MA	09-MAR-10	MA	HG

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M89593

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M89593-6	SW846 6010B	11-MAR-10 14:56	DA	04-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89593-7 1139100	Collected: 02-MAR-10 14:40 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-7	SW846 8260B	04-MAR-10 17:00	AT			V8260RCP
M89593-7	SW846 8082	07-MAR-10 06:44	SL	05-MAR-10	AJ	P8082RCP
M89593-7	CT-ETPH 7/06	12-MAR-10 10:59	WZ	05-MAR-10	DG	BCTTPH
M89593-8 1139100UF	Collected: 02-MAR-10 14:40 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-8	SW846 7470A	09-MAR-10 14:56	MA	09-MAR-10	MA	HG
M89593-8	SW846 6010B	11-MAR-10 15:00	DA	04-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE
M89593-8	SW846 6010B	11-MAR-10 15:32	DA	04-MAR-10	EM	ZN
M89593-9 1139101	Collected: 02-MAR-10 14:25 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-9	SW846 8260B	04-MAR-10 17:28	AT			V8260RCP
M89593-9	SW846 8082	07-MAR-10 07:24	SL	05-MAR-10	AJ	P8082RCP
M89593-9	CT-ETPH 7/06	12-MAR-10 11:35	WZ	05-MAR-10	DG	BCTTPH
M89593-10 1139101UF	Collected: 02-MAR-10 14:25 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-10	SW846 7470A	09-MAR-10 14:59	MA	09-MAR-10	MA	HG
M89593-10	SW846 6010B	11-MAR-10 15:05	DA	04-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89593-11 1139095	Collected: 02-MAR-10 10:45 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-11	SW846 8260B	04-MAR-10 17:55	AT			V8260RCP
M89593-11	SW846 8082	07-MAR-10 08:03	SL	05-MAR-10	AJ	P8082RCP
M89593-11	CT-ETPH 7/06	12-MAR-10 12:18	WZ	05-MAR-10	DG	BCTTPH

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M89593

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M89593-12 1139095UF	Collected: 02-MAR-10 10:45 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-12	SW846 7470A	09-MAR-10 15:02	MA	09-MAR-10	MA	HG
M89593-12	SW846 6010B	11-MAR-10 15:09	DA	04-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89593-13 1139096	Collected: 02-MAR-10 12:10 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-13	SW846 8260B	04-MAR-10 18:22	AT			V8260RCP
M89593-13	SW846 8082	07-MAR-10 11:06	SL	05-MAR-10	AJ	P8082RCP
M89593-13	CT-ETPH 7/06	12-MAR-10 12:54	WZ	05-MAR-10	DG	BCTTPH
M89593-14 1139096UF	Collected: 02-MAR-10 12:10 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-14	SW846 7470A	09-MAR-10 15:04	MA	09-MAR-10	MA	HG
M89593-14	SW846 6010B	11-MAR-10 15:14	DA	04-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89593-15 1139097	Collected: 02-MAR-10 14:00 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-15	SW846 8260B	04-MAR-10 18:49	AT			V8260RCP
M89593-15	SW846 8082	07-MAR-10 11:46	SL	05-MAR-10	AJ	P8082RCP
M89593-15	CT-ETPH 7/06	12-MAR-10 13:30	WZ	05-MAR-10	DG	BCTTPH
M89593-16 1139097UF	Collected: 02-MAR-10 14:00 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-16	SW846 7470A	09-MAR-10 15:07	MA	09-MAR-10	MA	HG
M89593-16	SW846 6010B	11-MAR-10 15:18	DA	04-MAR-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M89593-17 1139115	Collected: 02-MAR-10 09:00 By: RJZ		Received: 03-MAR-10 By: JB			
M89593-17	SW846 8260B	04-MAR-10 19:17	AT			V8260RCP

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR480-MB	R12813.D	1	03/04/10	AT	n/a	n/a	MSR480

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15, M89593-17

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	

Method Blank Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR480-MB	R12813.D	1	03/04/10	AT	n/a	n/a	MSR480

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15, M89593-17

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR480-MB	R12813.D	1	03/04/10	AT	n/a	n/a	MSR480

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15, M89593-17

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR480-BS	R12810.D	1	03/04/10	AT	n/a	n/a	MSR480
MSR480-BSD	R12811.D	1	03/04/10	AT	n/a	n/a	MSR480

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15, M89593-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	50.0	100	49.3	99	1	70-130/25
107-13-1	Acrylonitrile	250	233	93	229	92	2	70-130/25
71-43-2	Benzene	50	46.4	93	44.4	89	4	70-130/25
108-86-1	Bromobenzene	50	45.4	91	44.9	90	1	70-130/25
75-27-4	Bromodichloromethane	50	46.4	93	44.3	89	5	70-130/25
75-25-2	Bromoform	50	38.7	77	38.0	76	2	70-130/25
74-83-9	Bromomethane	50	39.1	78	37.6	75	4	70-130/25
78-93-3	2-Butanone (MEK)	50	41.7	83	40.8	82	2	70-130/25
104-51-8	n-Butylbenzene	50	49.6	99	47.9	96	3	70-130/25
135-98-8	sec-Butylbenzene	50	46.8	94	45.6	91	3	70-130/25
98-06-6	tert-Butylbenzene	50	46.0	92	44.7	89	3	70-130/25
75-15-0	Carbon disulfide	50	47.1	94	44.1	88	7	70-130/25
56-23-5	Carbon tetrachloride	50	48.5	97	46.3	93	5	70-130/25
108-90-7	Chlorobenzene	50	43.4	87	41.7	83	4	70-130/25
75-00-3	Chloroethane	50	46.4	93	43.9	88	6	70-130/25
67-66-3	Chloroform	50	47.4	95	44.7	89	6	70-130/25
74-87-3	Chloromethane	50	44.6	89	41.4	83	7	70-130/25
95-49-8	o-Chlorotoluene	50	46.1	92	44.3	89	4	70-130/25
106-43-4	p-Chlorotoluene	50	46.2	92	44.3	89	4	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	39.3	79	39.1	78	1	70-130/25
124-48-1	Dibromochloromethane	50	44.8	90	42.6	85	5	70-130/25
106-93-4	1,2-Dibromoethane	50	42.6	85	41.7	83	2	70-130/25
95-50-1	1,2-Dichlorobenzene	50	44.3	89	42.6	85	4	70-130/25
541-73-1	1,3-Dichlorobenzene	50	45.1	90	43.0	86	5	70-130/25
106-46-7	1,4-Dichlorobenzene	50	44.7	89	43.0	86	4	70-130/25
75-71-8	Dichlorodifluoromethane	50	29.8	60* [a]	27.3	55* [a]	9	70-130/25
75-34-3	1,1-Dichloroethane	50	47.8	96	45.6	91	5	70-130/25
107-06-2	1,2-Dichloroethane	50	45.8	92	44.2	88	4	70-130/25
75-35-4	1,1-Dichloroethene	50	45.6	91	43.0	86	6	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	44.9	90	43.0	86	4	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	44.0	88	42.1	84	4	70-130/25
78-87-5	1,2-Dichloropropane	50	47.3	95	45.4	91	4	70-130/25
142-28-9	1,3-Dichloropropane	50	44.6	89	43.2	86	3	70-130/25
594-20-7	2,2-Dichloropropane	50	50.4	101	47.0	94	7	70-130/25
563-58-6	1,1-Dichloropropene	50	47.9	96	45.4	91	5	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	48.4	97	46.7	93	4	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR480-BS	R12810.D	1	03/04/10	AT	n/a	n/a	MSR480
MSR480-BSD	R12811.D	1	03/04/10	AT	n/a	n/a	MSR480

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15, M89593-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	44.9	90	43.2	86	4	70-130/25
100-41-4	Ethylbenzene	50	45.4	91	43.0	86	5	70-130/25
76-13-1	Freon 113	50	52.1	104	49.2	98	6	70-130/25
87-68-3	Hexachlorobutadiene	50	45.2	90	43.0	86	5	70-130/25
591-78-6	2-Hexanone	50	43.7	87	39.9	80	9	70-130/25
98-82-8	Isopropylbenzene	50	47.2	94	45.6	91	3	70-130/25
99-87-6	p-Isopropyltoluene	50	47.4	95	46.5	93	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	44.6	89	43.2	86	3	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	46.5	93	46.2	92	1	70-130/25
74-95-3	Methylene bromide	50	45.8	92	44.9	90	2	70-130/25
75-09-2	Methylene chloride	50	44.5	89	42.9	86	4	70-130/25
91-20-3	Naphthalene	50	40.4	81	40.5	81	0	70-130/25
103-65-1	n-Propylbenzene	50	47.1	94	45.1	90	4	70-130/25
100-42-5	Styrene	50	43.6	87	41.6	83	5	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	44.2	88	41.6	83	6	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	47.2	94	46.4	93	2	70-130/25
127-18-4	Tetrachloroethene	50	43.9	88	41.9	84	5	70-130/25
109-99-9	Tetrahydrofuran	50	48.2	96	47.5	95	1	70-130/25
108-88-3	Toluene	50	46.9	94	45.6	91	3	70-130/25
110-57-6	Trans-1,4-Dichloro-2-Butene	50	41.6	83	40.4	81	3	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	41.9	84	41.4	83	1	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	42.2	84	41.8	84	1	70-130/25
71-55-6	1,1,1-Trichloroethane	50	47.9	96	45.2	90	6	70-130/25
79-00-5	1,1,2-Trichloroethane	50	45.4	91	44.5	89	2	70-130/25
79-01-6	Trichloroethene	50	47.4	95	43.7	87	8	70-130/25
75-69-4	Trichlorofluoromethane	50	47.3	95	44.5	89	6	70-130/25
96-18-4	1,2,3-Trichloropropane	50	46.2	92	45.5	91	2	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	46.8	94	45.2	90	3	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	46.9	94	45.1	90	4	70-130/25
75-01-4	Vinyl chloride	50	44.5	89	42.5	85	5	70-130/25
	m,p-Xylene	100	91.1	91	86.8	87	5	70-130/25
95-47-6	o-Xylene	50	45.2	90	43.2	86	5	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSR480-BS	R12810.D	1	03/04/10	AT	n/a	n/a	MSR480
MSR480-BSD	R12811.D	1	03/04/10	AT	n/a	n/a	MSR480

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15, M89593-17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	108%	107%	70-130%
2037-26-5	Toluene-D8	105%	105%	70-130%
460-00-4	4-Bromofluorobenzene	107%	106%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M89588-2MS	R12834.D	1	03/04/10	AT	n/a	n/a	MSR480
M89588-2MSD	R12835.D	1	03/04/10	AT	n/a	n/a	MSR480
M89588-2	R12816.D	1	03/04/10	AT	n/a	n/a	MSR480

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15, M89593-17

CAS No.	Compound	M89588-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	37.7	75	44.2	88	16	70-130/30
107-13-1	Acrylonitrile	ND		250	204	82	225	90	10	70-130/30
71-43-2	Benzene	ND		50	47.0	94	50.4	101	7	70-130/30
108-86-1	Bromobenzene	ND		50	47.8	96	51.3	103	7	70-130/30
75-27-4	Bromodichloromethane	ND		50	43.0	86	46.7	93	8	70-130/30
75-25-2	Bromoform	ND		50	32.2	64* [a]	34.2	68* [a]	6	70-130/30
74-83-9	Bromomethane	ND		50	41.4	83	43.9	88	6	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	37.7	75	41.7	83	10	70-130/30
104-51-8	n-Butylbenzene	ND		50	35.1	70	47.4	95	30	70-130/30
135-98-8	sec-Butylbenzene	ND		50	37.4	75	44.8	90	18	70-130/30
98-06-6	tert-Butylbenzene	ND		50	37.7	75	44.5	89	17	70-130/30
75-15-0	Carbon disulfide	ND		50	41.9	84	45.8	92	9	70-130/30
56-23-5	Carbon tetrachloride	ND		50	45.6	91	48.8	98	7	70-130/30
108-90-7	Chlorobenzene	ND		50	44.7	89	47.7	95	6	70-130/30
75-00-3	Chloroethane	ND		50	45.6	91	49.9	100	9	70-130/30
67-66-3	Chloroform	ND		50	45.7	91	49.0	98	7	70-130/30
74-87-3	Chloromethane	ND		50	47.2	94	51.0	102	8	70-130/30
95-49-8	o-Chlorotoluene	ND		50	47.1	94	49.9	100	6	70-130/30
106-43-4	p-Chlorotoluene	ND		50	46.2	92	49.0	98	6	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	37.0	74	40.8	82	10	70-130/30
124-48-1	Dibromochloromethane	ND		50	40.5	81	42.7	85	5	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	43.7	87	47.1	94	7	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	44.4	89	47.5	95	7	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	44.9	90	48.1	96	7	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	44.0	88	47.7	95	8	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	30.2	60* [b]	30.0	60* [b]	1	70-130/30
75-34-3	1,1-Dichloroethane	2.0		50	48.0	92	52.0	100	8	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	43.2	86	47.1	94	9	70-130/30
75-35-4	1,1-Dichloroethene	0.66		50	45.4	89	50.1	99	10	70-130/30
156-59-2	cis-1,2-Dichloroethene	93.0		50	127	68* [a]	136	86	7	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	45.4	91	48.2	96	6	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	46.3	93	49.8	100	7	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	44.1	88	47.8	96	8	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	39.4	79	42.7	85	8	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	46.7	93	50.2	100	7	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	44.7	89	48.4	97	8	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M89588-2MS	R12834.D	1	03/04/10	AT	n/a	n/a	MSR480
M89588-2MSD	R12835.D	1	03/04/10	AT	n/a	n/a	MSR480
M89588-2	R12816.D	1	03/04/10	AT	n/a	n/a	MSR480

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15, M89593-17

CAS No.	Compound	M89588-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		50	39.9	80	43.8	88	9	70-130/30
100-41-4	Ethylbenzene	ND		50	45.4	91	48.8	98	7	70-130/30
76-13-1	Freon 113	ND		50	49.5	99	53.1	106	7	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	33.5	67* [a]	45.7	91	31* [c]	70-130/30
591-78-6	2-Hexanone	ND		50	43.5	87	47.4	95	9	70-130/30
98-82-8	Isopropylbenzene	ND		50	47.7	95	50.9	102	6	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	36.4	73	45.1	90	21	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	44.2	88	47.6	95	7	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	44.3	89	48.9	98	10	70-130/30
74-95-3	Methylene bromide	ND		50	44.6	89	48.4	97	8	70-130/30
75-09-2	Methylene chloride	ND		50	44.5	89	48.5	97	9	70-130/30
91-20-3	Naphthalene	ND		50	38.9	78	47.0	94	19	70-130/30
103-65-1	n-Propylbenzene	ND		50	44.6	89	48.1	96	8	70-130/30
100-42-5	Styrene	ND		50	36.8	74	38.9	78	6	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	43.7	87	47.5	95	8	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	47.9	96	51.1	102	6	70-130/30
127-18-4	Tetrachloroethene	ND		50	45.9	92	48.6	97	6	70-130/30
109-99-9	Tetrahydrofuran	ND		50	42.1	84	46.4	93	10	70-130/30
108-88-3	Toluene	ND		50	47.9	96	50.2	100	5	70-130/30
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		50	28.9	58* [a]	31.1	62* [a]	7	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	28.3	57* [a]	43.8	88	43* [c]	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	35.2	70	45.9	92	26	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	45.9	92	49.4	99	7	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	44.8	90	48.7	97	8	70-130/30
79-01-6	Trichloroethene	ND		50	46.9	94	50.5	101	7	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	45.1	90	48.3	97	7	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	42.9	86	45.8	92	7	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	40.7	81	43.6	87	7	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	39.4	79	41.9	84	6	70-130/30
75-01-4	Vinyl chloride	99.6		50	136	73	146	93	7	70-130/30
	m,p-Xylene	ND		100	90.4	90	96.7	97	7	70-130/30
95-47-6	o-Xylene	ND		50	44.9	90	48.0	96	7	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M89588-2MS	R12834.D	1	03/04/10	AT	n/a	n/a	MSR480
M89588-2MSD	R12835.D	1	03/04/10	AT	n/a	n/a	MSR480
M89588-2	R12816.D	1	03/04/10	AT	n/a	n/a	MSR480

The QC reported here applies to the following samples: **Method:** SW846 8260B

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15, M89593-17

CAS No.	Surrogate Recoveries	MS	MSD	M89588-2	Limits
1868-53-7	Dibromofluoromethane	100%	108%	112%	70-130%
2037-26-5	Toluene-D8	99%	106%	113%	70-130%
460-00-4	4-Bromofluorobenzene	106%	110%	113%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Blank Spike meets program technical requirements.
(c) High RPD due to possible matrix interference and/or sample non-homogeneity.

Volatile Internal Standard Area Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Check Std:	MSR480-CC475	**Injection Date:**	03/04/10
Lab File ID:	R12809.D	**Injection Time:**	09:41
Instrument ID:	GCMSR	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	116076	9.13	203511	10.00	134188	13.26	97758	15.82	62052	6.70
Upper Limit [a]	232152	9.63	407022	10.50	268376	13.76	195516	16.32	124104	7.20
Lower Limit [b]	58038	8.63	101756	9.50	67094	12.76	48879	15.32	31026	6.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSR480-BS	121090	9.13	211535	10.00	137234	13.26	100789	15.82	62813	6.69
MSR480-BSD	127973	9.13	220676	10.00	143915	13.26	103892	15.82	66120	6.69
MSR480-MB	125456	9.13	216727	10.00	135079	13.26	97945	15.82	64536	6.69
ZZZZZZ	113014	9.13	198855	10.00	124861	13.26	90562	15.82	57802	6.70
ZZZZZZ	113368	9.13	193870	10.00	121389	13.26	87919	15.82	61021	6.70
M89588-2	106336	9.13	183358	10.00	115174	13.26	84264	15.82	57144	6.69
ZZZZZZ	108331	9.13	191746	10.00	119626	13.26	87679	15.82	62242	6.70
ZZZZZZ	105831	9.13	186263	10.00	116536	13.26	84307	15.82	57871	6.69
ZZZZZZ	106370	9.13	183153	10.00	116294	13.26	83964	15.82	57305	6.69
ZZZZZZ	102334	9.13	183716	10.00	114531	13.26	83091	15.82	57842	6.70
ZZZZZZ	104373	9.13	181944	10.00	114946	13.26	82387	15.82	59045	6.70
M89593-1	99883	9.13	176750	10.00	108484	13.26	80302	15.82	56642	6.70
M89593-3	101856	9.13	179418	10.00	112414	13.26	80579	15.82	62394	6.69
M89593-5	104245	9.13	180981	10.00	115137	13.26	81522	15.82	60480	6.70
M89593-7	99218	9.13	172818	10.00	110144	13.26	80221	15.82	56876	6.69
M89593-9	100132	9.13	179357	10.00	113986	13.26	80501	15.82	60328	6.70
M89593-11	105301	9.13	183236	10.00	116895	13.26	82224	15.82	51099	6.70
M89593-13	94075	9.13	168090	10.00	106132	13.26	76009	15.82	46027	6.70
M89593-15	104734	9.13	184539	10.00	117994	13.26	85524	15.82	49220	6.69
M89593-17	102344	9.13	180693	10.00	114646	13.26	82907	15.82	51364	6.70
ZZZZZZ	95698	9.13	169721	10.00	107222	13.26	77439	15.82	49089	6.70
M89588-2MS	143063	9.13	243378	10.00	153021	13.26	109347	15.82	62747	6.70
M89588-2MSD	133480	9.13	227634	10.00	144392	13.26	105254	15.82	63202	6.70

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M89593-1	R12822.D	113.0	114.0	110.0
M89593-3	R12823.D	112.0	109.0	111.0
M89593-5	R12824.D	111.0	111.0	110.0
M89593-7	R12825.D	115.0	113.0	110.0
M89593-9	R12826.D	115.0	110.0	109.0
M89593-11	R12827.D	108.0	105.0	104.0
M89593-13	R12828.D	118.0	114.0	111.0
M89593-15	R12829.D	107.0	105.0	101.0
M89593-17	R12830.D	109.0	106.0	104.0
M89588-2MS	R12834.D	100.0	99.0	106.0
M89588-2MSD	R12835.D	108.0	106.0	110.0
MSR480-BS	R12810.D	108.0	105.0	107.0
MSR480-BSD	R12811.D	107.0	105.0	106.0
MSR480-MB	R12813.D	101.0	104.0	103.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20794-MB	PO62695.D	1	03/10/10	WZ	03/05/10	OP20794	GPO3579

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	66%	50-149%

Method Blank Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20796-MB	BB29076.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000

The QC reported here applies to the following samples: **Method:** SW846 8082

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	74%	30-150%
877-09-8	Tetrachloro-m-xylene	69%	30-150%
2051-24-3	Decachlorobiphenyl	42%	30-150%
2051-24-3	Decachlorobiphenyl	42%	30-150%

Blank Spike Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20794-BS	PO62696.D	1	03/10/10	WZ	03/05/10	OP20794	GPO3579

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	CT-DRO (C9-C36)	0.7	0.657	94	60-120

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	77%	50-149%

Blank Spike Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20796-BS	BB29077.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000

The QC reported here applies to the following samples: **Method:** SW846 8082

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	1.8	90	40-140
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	2	1.8	90	40-140
37324-23-5	Aroclor 1262		ND		40-140
11100-14-4	Aroclor 1268		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	82%	30-150%
877-09-8	Tetrachloro-m-xylene	77%	30-150%
2051-24-3	Decachlorobiphenyl	46%	30-150%
2051-24-3	Decachlorobiphenyl	46%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20794-MS	PO62697.D	1	03/10/10	WZ	03/05/10	OP20794	GPO3579
OP20794-MSD	PO62698.D	1	03/10/10	WZ	03/05/10	OP20794	GPO3579
M89226-5	PO62699.D	1	03/10/10	WZ	03/05/10	OP20794	GPO3579

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15

CAS No.	Compound	M89226-5 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	ND		0.7	0.638	91	0.776	111	20	50-129/26

CAS No.	Surrogate Recoveries	MS	MSD	M89226-5	Limits
3386-33-2	1-Chlorooctadecane	72%	76%	78%	50-149%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP20796-MS	BB29078.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
OP20796-MSD	BB29080.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000
M89685-6	BB29081.D	1	03/07/10	SL	03/05/10	OP20796	GBB2000

The QC reported here applies to the following samples: **Method:** SW846 8082

M89593-1, M89593-3, M89593-5, M89593-7, M89593-9, M89593-11, M89593-13, M89593-15

CAS No.	Compound	M89685-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2	1.9	95	1.7	85	11	40-140/50
11104-28-2	Aroclor 1221	ND			ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND			ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND			ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND			ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	ND			ND		ND		nc	40-140/50
11096-82-5	Aroclor 1260	ND		2	1.8	90	1.7	85	6	40-140/50
37324-23-5	Aroclor 1262	ND			ND		ND		nc	40-140/50
11100-14-4	Aroclor 1268	ND			ND		ND		nc	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M89685-6	Limits
877-09-8	Tetrachloro-m-xylene	89%	81%	88%	30-150%
877-09-8	Tetrachloro-m-xylene	83%	76%	81%	30-150%
2051-24-3	Decachlorobiphenyl	48%	48%	54%	30-150%
2051-24-3	Decachlorobiphenyl	48%	48%	54%	30-150%

Semivolatile Surrogate Recovery Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: CT-ETPH 7/06 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
M89593-1	PO62738.D	94.0
M89593-3	PO62739.D	63.0
M89593-5	PO62740.D	71.0
M89593-7	PO62741.D	77.0
M89593-9	PO62742.D	69.0
M89593-11	PO62743.D	77.0
M89593-13	PO62744.D	80.0
M89593-15	PO62745.D	93.0
OP20794-BS	PO62696.D	77.0
OP20794-MB	PO62695.D	66.0
OP20794-MS	PO62697.D	72.0
OP20794-MSD	PO62698.D	76.0

Surrogate Compounds	Recovery Limits
S1 = 1-Chlorooctadecane	50-149%

(a) Recovery from GC signal #1

Semivolatile Surrogate Recovery Summary

Job Number: M89593
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8082 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
M89593-1	BB29082.D	82.0	75.0	75.0	75.0
M89593-3	BB29083.D	78.0	73.0	55.0	55.0
M89593-5	BB29084.D	83.0	77.0	57.0	57.0
M89593-7	BB29085.D	83.0	77.0	73.0	73.0
M89593-9	BB29086.D	73.0	63.0	61.0	62.0
M89593-11	BB29087.D	79.0	75.0	77.0	75.0
M89593-13	BB29088.D	90.0	81.0	83.0	82.0
M89593-15	BB29089.D	95.0	84.0	73.0	72.0
OP20796-BS	BB29077.D	82.0	77.0	46.0	46.0
OP20796-MB	BB29076.D	74.0	69.0	42.0	42.0
OP20796-MS	BB29078.D	89.0	83.0	48.0	48.0
OP20796-MSD	BB29080.D	81.0	76.0	48.0	48.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14880
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/04/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	7	14		
Antimony	6.0	.79	1.2		
Arsenic	10	.57	1.9	-0.70	<10
Barium	200	2	3.7	1.0	<200
Beryllium	4.0	.15	.2		
Boron	100	1.2	1.5		
Cadmium	4.0	.12	.12	0.0	<4.0
Calcium	5000	15	39		
Chromium	10	.42	.5	0.0	<10
Cobalt	50	.17	.3		
Copper	25	.81	.8	2.2	<25
Gold	50	.97	1.7		
Iron	100	2.8	4.1		
Lead	5.0	.57	1.5	-0.80	<5.0
Magnesium	5000	25	32		
Manganese	15	.12	.9		
Molybdenum	100	.24	.6		
Nickel	40	.12	.3	-0.10	<40
Palladium	50	1.2	2.5		
Platinum	50	4.4	7		
Potassium	5000	29	30		
Selenium	10	1.3	1.7	0.20	<10
Silicon	100	2.1	7.2		
Silver	5.0	.49	.5	0.10	<5.0
Sodium	5000	27	31		
Strontium	10	.06	.3		
Thallium	10	.56	.7		
Tin	100	.31	.4		
Titanium	50	.4	.5		
Tungsten	100	3.4	12		
Vanadium	30	.63	1.1		
Zinc	20	.72	2	0.60	<20

Associated samples MP14880: M89593-2, M89593-4, M89593-6, M89593-8, M89593-10, M89593-12, M89593-14, M89593-16

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14880
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.1

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14880
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:				03/04/10				03/04/10	
Metal	M89589-7 Original	MS	Spikelot MPICP	% Rec	QC Limits	M89589-7 Original	DUP	RPD	QC Limits
Aluminum									
Antimony									
Arsenic	0.0	524	500	104.8	75-125	0.0	0.0	NC	0-20
Barium	86.3	2000	2000	95.7	75-125	86.3	85.2	1.3	0-20
Beryllium									
Boron									
Cadmium	0.0	513	500	102.6	75-125	0.0	0.0	NC	0-20
Calcium	anr								
Chromium	1.2	479	500	95.6	75-125	1.2	0.0	200.0(a)	0-20
Cobalt									
Copper	4.0	512	500	101.6	75-125	4.0	4.0	0.0	0-20
Gold									
Iron	anr								
Lead	0.0	989	1000	98.9	75-125	0.0	0.0	NC	0-20
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	1.0	500	500	99.8	75-125	1.0	0.60	50.0 (a)	0-20
Palladium									
Platinum									
Potassium									
Selenium	0.0	516	500	103.2	75-125	0.0	0.0	NC	0-20
Silicon									
Silver	0.0	203	200	101.5	75-125	0.0	0.50	200.0(a)	0-20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc	18.8	515	500	99.2	75-125	18.8	19.0	1.1	0-20

Associated samples MP14880: M89593-2, M89593-4, M89593-6, M89593-8, M89593-10, M89593-12, M89593-14, M89593-16

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14880 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14880
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			03/04/10					03/04/10	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	525	500	105.0	80-120	520	500	104.0	1.0	20
Barium	1920	2000	96.0	80-120	1880	2000	94.0	2.1	20
Beryllium									
Boron									
Cadmium	513	500	102.6	80-120	510	500	102.0	0.6	20
Calcium	anr								
Chromium	472	500	94.4	80-120	470	500	94.0	0.4	20
Cobalt									
Copper	505	500	101.0	80-120	503	500	100.6	0.4	20
Gold									
Iron	anr								
Lead	992	1000	99.2	80-120	995	1000	99.5	0.3	20
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	503	500	100.6	80-120	499	500	99.8	0.8	20
Palladium									
Platinum									
Potassium									
Selenium	522	500	104.4	80-120	521	500	104.2	0.2	20
Silicon									
Silver	204	200	102.0	80-120	203	200	101.5	0.5	20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc	499	500	99.8	80-120	494	500	98.8	1.0	20

Associated samples MP14880: M89593-2, M89593-4, M89593-6, M89593-8, M89593-10, M89593-12, M89593-14, M89593-16

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14880
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.3

7

SERIAL DILUTION RESULTS SUMMARY

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14880
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/04/10

Metal	M89589-7 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	86.3	95.0	10.1 (a)	0-10
Beryllium				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	1.20	2.20	83.3 (a)	0-10
Cobalt				
Copper	4.00	12.6	215.0(a)	0-10
Gold				
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	1.00	1.10	10.0	0-10
Palladium				
Platinum				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	18.8	19.3	2.7	0-10

Associated samples MP14880: M89593-2, M89593-4, M89593-6, M89593-8, M89593-10, M89593-12, M89593-14, M89593-16

SERIAL DILUTION RESULTS SUMMARY

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14880
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

7.1.4

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14894
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/09/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.035	.048	-0.0080	<0.20

Associated samples MP14894: M89593-2, M89593-4, M89593-6, M89593-8, M89593-10, M89593-12, M89593-14, M89593-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14894
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/09/10 03/09/10

Metal	M89593-2 Original	MS	Spikelot HGRWS1	% Rec	QC Limits	M89593-2 Original	DUP	RPD	QC Limits
Mercury	0.0	3.0	3	100.0	75-125	0.0	0.0	NC	0-20

Associated samples MP14894: M89593-2, M89593-4, M89593-6, M89593-8, M89593-10, M89593-12, M89593-14, M89593-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M89593
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP14894
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/09/10 03/09/10

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	2.9	3	96.7	80-120	2.9	3	96.7	0.0	20

Associated samples MP14894: M89593-2, M89593-4, M89593-6, M89593-8, M89593-10, M89593-12, M89593-14, M89593-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

06/23/10

Technical Report for

Loureiro Eng. Associates

UTC:P&W Willow Pond Quarterly GW Monitoring

88UT043.001

Accutest Job Number: M91867

Sampling Date: 06/02/10

Report to:

rlmckinney@loureiro.com

ATTN: Distribution6

Total number of pages in report: **106**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Accutest LabLink@16:47 23-Jun-2010

Sample Summary

Loureiro Eng. Associates

Job No: M91867

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M91867-1	06/02/10	11:15	NE	06/02/10	AQ	Ground Water	1144927
M91867-2	06/02/10	11:15	NE	06/02/10	AQ	Ground Water	1144927UF
M91867-3	06/02/10	15:05	NE	06/02/10	AQ	Ground Water	1144928
M91867-4	06/02/10	15:05	NE	06/02/10	AQ	Ground Water	1144928UF
M91867-5	06/02/10	10:15	DR	06/02/10	AQ	Ground Water	1144924
M91867-6	06/02/10	10:15	DR	06/02/10	AQ	Ground Water	1144924UF
M91867-7	06/02/10	11:20	DR	06/02/10	AQ	Ground Water	1144925
M91867-8	06/02/10	11:20	DR	06/02/10	AQ	Ground Water	1144925UF
M91867-9	06/02/10	14:50	DR	06/02/10	AQ	Ground Water	1144926
M91867-10	06/02/10	14:50	DR	06/02/10	AQ	Ground Water	1144926UF
M91867-11	06/02/10	10:00	NE	06/02/10	AQ	Ground Water	1144950
M91867-12	06/02/10	15:00	PG	06/02/10	AQ	Ground Water	1144931
M91867-13	06/02/10	15:00	PG	06/02/10	AQ	Ground Water	1144931UF

Accutest LabLink@16:47 23-Jun-2010

Sample Summary
(continued)

Loureiro Eng. Associates

Job No: M91867

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M91867-14	06/02/10	13:10	PG	06/02/10	AQ	Ground Water	1144930
M91867-15	06/02/10	13:10	PG	06/02/10	AQ	Ground Water	1144930UF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Loureiro Eng. Associates	**Job No**	M91867
Site:	UTC:P&W Willow Pond Quarterly GW Monitoring	**Report Date**	6/23/2010 4:26:13 PM

15 Sample(s) were collected on 06/02/2010 and were received at Accutest on 06/02/2010 properly preserved, at 2.2 Deg. C and intact. These Samples received an Accutest job number of M91867. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSL1369

- All samples were analyzed within the recommended method holding time.
- Sample(s) M91867-1MS, M91867-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- MS/MSD Recovery(s) for Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MS/MSD Recovery(s) for Acrylonitrile are outside control limits. Associated samples are non-detect for this compound.
- MSL1369-BS/BSD for 2-Butanone (MEK), Acrylonitrile: Outside control limits. Associated samples are non-detect for this compound.
- Initial calibration verification standard MSL1368-ICV1368 for 2-butanone exceed 35% Difference.
- Initial calibration standard (batch MSL1368) for bromomethane, 1,1,1-trichloroethane is employed quadratic regression.
- M91867-14: Confirmation run.

Matrix AQ **Batch ID:** MSL1370

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M92076-1MS, M92076-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Acrylonitrile, Dichlorodifluoromethane are outside control limits. Associated samples are non-detect for this compound.
- Matrix Spike Recovery(s) for Acetone, Bromomethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- M92076-1MS/MSD for Acrylonitrile, Dichlorodifluoromethane: Outside control limits. Associated samples are non-detect for this compound.
- M91867-14 for 4-Bromofluorobenzene: Outside control limits due to possible matrix interference. Confirmed by reanalysis.
- MSL1370-BSD for Acrylonitrile: Outside control limits. Associated samples are non-detect for this compound.
- Continuing calibration check standard MSL1370-CC1368 for dichlorodifluoromethane exceed 30% Difference. This check standard met RCP criteria.

Extractables by GC By Method CT-ETPH 7/06

Matrix AQ	Batch ID: OP21573

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M92049-6MS, M92049-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8082

Matrix AQ	Batch ID: OP21574

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M92049-5MS, M92049-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ	Batch ID: MP15374

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M91867-2DUP, M91867-2MS, M91867-2SDL, M91867-2DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Selenium, Silver are outside control limits for sample MP15374-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Barium are outside control limits for sample MP15374-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix AQ	Batch ID: MP15391

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M91867-6DUP, M91867-6MS were used as the QC samples for metals.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91867).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1144927		
Lab Sample ID:	M91867-1	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L41789.D	1	06/11/10	AMY	n/a	n/a	MSL1369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144927		
Lab Sample ID:	M91867-1	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144927		
Lab Sample ID:	M91867-1	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144927		
Lab Sample ID:	M91867-1	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41009.D	1	06/18/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.143	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	91%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144927		
Lab Sample ID:	M91867-1	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58097.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.31	ug/l	
11104-28-2	Aroclor 1221	ND	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.31	ug/l	
12672-29-6	Aroclor 1248	ND	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.31	ug/l	
11096-82-5	Aroclor 1260	ND	0.31	ug/l	
37324-23-5	Aroclor 1262	ND	0.31	ug/l	
11100-14-4	Aroclor 1268	ND	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		30-150%
877-09-8	Tetrachloro-m-xylene	66%		30-150%
2051-24-3	Decachlorobiphenyl	73%		30-150%
2051-24-3	Decachlorobiphenyl	73%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144927UF		
Lab Sample ID:	M91867-2	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11869
(3) Prep QC Batch: MP15374
(4) Prep QC Batch: MP15391

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144928		
Lab Sample ID:	M91867-3	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L41790.D	1	06/11/10	AMY	n/a	n/a	MSL1369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144928		
Lab Sample ID:	M91867-3	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	2.6	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	7.5	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144928		
Lab Sample ID:	M91867-3	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144928		
Lab Sample ID:	M91867-3	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41011.D	1	06/18/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.179	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	54%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144928		
Lab Sample ID:	M91867-3	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58098.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.31	ug/l	
11104-28-2	Aroclor 1221	ND	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.31	ug/l	
12672-29-6	Aroclor 1248	ND	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.31	ug/l	
11096-82-5	Aroclor 1260	ND	0.31	ug/l	
37324-23-5	Aroclor 1262	ND	0.31	ug/l	
11100-14-4	Aroclor 1268	ND	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		30-150%
877-09-8	Tetrachloro-m-xylene	85%		30-150%
2051-24-3	Decachlorobiphenyl	73%		30-150%
2051-24-3	Decachlorobiphenyl	73%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144928UF		
Lab Sample ID:	M91867-4	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	252	200	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [4]
Nickel	85.3	40	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11869
(3) Prep QC Batch: MP15374
(4) Prep QC Batch: MP15391

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144924		
Lab Sample ID:	M91867-5	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L41791.D	1	06/11/10	AMY	n/a	n/a	MSL1369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144924		
Lab Sample ID:	M91867-5	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144924		
Lab Sample ID:	M91867-5	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144924		
Lab Sample ID:	M91867-5	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41015.D	1	06/18/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.117	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	79%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144924		
Lab Sample ID:	M91867-5	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58099.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.31	ug/l	
11104-28-2	Aroclor 1221	ND	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.31	ug/l	
12672-29-6	Aroclor 1248	ND	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.31	ug/l	
11096-82-5	Aroclor 1260	0.31	0.31	ug/l	
37324-23-5	Aroclor 1262	ND	0.31	ug/l	
11100-14-4	Aroclor 1268	ND	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		30-150%
877-09-8	Tetrachloro-m-xylene	94%		30-150%
2051-24-3	Decachlorobiphenyl	94%		30-150%
2051-24-3	Decachlorobiphenyl	94%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144924UF		
Lab Sample ID:	M91867-6	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11869
(3) Prep QC Batch: MP15374
(4) Prep QC Batch: MP15391

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144925		
Lab Sample ID:	M91867-7	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L41792.D	1	06/11/10	AMY	n/a	n/a	MSL1369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144925		
Lab Sample ID:	M91867-7	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144925		
Lab Sample ID:	M91867-7	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144925		
Lab Sample ID:	M91867-7	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41017.D	1	06/18/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.117	0.082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	73%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144925		
Lab Sample ID:	M91867-7	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58100.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.31	ug/l	
11104-28-2	Aroclor 1221	ND	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.31	ug/l	
12672-29-6	Aroclor 1248	ND	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.31	ug/l	
11096-82-5	Aroclor 1260	ND	0.31	ug/l	
37324-23-5	Aroclor 1262	ND	0.31	ug/l	
11100-14-4	Aroclor 1268	ND	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		30-150%
877-09-8	Tetrachloro-m-xylene	84%		30-150%
2051-24-3	Decachlorobiphenyl	85%		30-150%
2051-24-3	Decachlorobiphenyl	87%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144925UF		
Lab Sample ID:	M91867-8	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11869
(3) Prep QC Batch: MP15374
(4) Prep QC Batch: MP15391

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144926		
Lab Sample ID:	M91867-9	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L41819.D	1	06/12/10	AMY	n/a	n/a	MSL1370
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144926		
Lab Sample ID:	M91867-9	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144926		
Lab Sample ID:	M91867-9	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144926		
Lab Sample ID:	M91867-9	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41019.D	1	06/18/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	76%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144926		
Lab Sample ID:	M91867-9	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58101.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.31	ug/l	
11104-28-2	Aroclor 1221	ND	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.31	ug/l	
12672-29-6	Aroclor 1248	ND	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.31	ug/l	
11096-82-5	Aroclor 1260	ND	0.31	ug/l	
37324-23-5	Aroclor 1262	ND	0.31	ug/l	
11100-14-4	Aroclor 1268	ND	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		30-150%
877-09-8	Tetrachloro-m-xylene	92%		30-150%
2051-24-3	Decachlorobiphenyl	92%		30-150%
2051-24-3	Decachlorobiphenyl	93%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144926UF		
Lab Sample ID:	M91867-10	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11869
(3) Prep QC Batch: MP15374
(4) Prep QC Batch: MP15391

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144950		
Lab Sample ID:	M91867-11	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L41820.D	1	06/12/10	AMY	n/a	n/a	MSL1370
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144950		
Lab Sample ID:	M91867-11	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144950		
Lab Sample ID:	M91867-11	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144931		
Lab Sample ID:	M91867-12	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L41821.D	1	06/12/10	AMY	n/a	n/a	MSL1370
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	22.4	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	2.3	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	27.8	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.2	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144931		
Lab Sample ID:	M91867-12	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	30.1	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144931		
Lab Sample ID:	M91867-12	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144931		
Lab Sample ID:	M91867-12	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41021.D	1	06/18/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.195	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	76%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144931		
Lab Sample ID:	M91867-12	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58102.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.31	ug/l	
11104-28-2	Aroclor 1221	ND	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.31	ug/l	
12672-29-6	Aroclor 1248	ND	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.31	ug/l	
11096-82-5	Aroclor 1260	ND	0.31	ug/l	
37324-23-5	Aroclor 1262	ND	0.31	ug/l	
11100-14-4	Aroclor 1268	ND	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		30-150%
877-09-8	Tetrachloro-m-xylene	94%		30-150%
2051-24-3	Decachlorobiphenyl	91%		30-150%
2051-24-3	Decachlorobiphenyl	92%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144931UF		
Lab Sample ID:	M91867-13	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	412	200	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11869
(3) Prep QC Batch: MP15374
(4) Prep QC Batch: MP15391

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144930		
Lab Sample ID:	M91867-14	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L41797.D	1	06/11/10	AMY	n/a	n/a	MSL1369
Run #2	L41828.D	2	06/12/10	AMY	n/a	n/a	MSL1370

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND [b]	10	ug/l	
107-13-1	Acrylonitrile	ND [b]	50	ug/l	
71-43-2	Benzene	ND [b]	1.0	ug/l	
108-86-1	Bromobenzene	ND [b]	10	ug/l	
75-27-4	Bromodichloromethane	ND [b]	2.0	ug/l	
75-25-2	Bromoform	ND [b]	2.0	ug/l	
74-83-9	Bromomethane	ND [b]	4.0	ug/l	
78-93-3	2-Butanone (MEK)	ND [b]	10	ug/l	
104-51-8	n-Butylbenzene	ND [b]	10	ug/l	
135-98-8	sec-Butylbenzene	ND [b]	10	ug/l	
98-06-6	tert-Butylbenzene	ND [b]	10	ug/l	
75-15-0	Carbon disulfide	ND [b]	10	ug/l	
56-23-5	Carbon tetrachloride	ND [b]	2.0	ug/l	
108-90-7	Chlorobenzene	ND [b]	2.0	ug/l	
75-00-3	Chloroethane	ND [b]	4.0	ug/l	
67-66-3	Chloroform	4.6 [b]	2.0	ug/l	
74-87-3	Chloromethane	ND [b]	4.0	ug/l	
95-49-8	o-Chlorotoluene	ND [b]	10	ug/l	
106-43-4	p-Chlorotoluene	ND [b]	10	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND [b]	10	ug/l	
124-48-1	Dibromochloromethane	ND [b]	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND [b]	4.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	2.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND [b]	2.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND [b]	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND [b]	4.0	ug/l	
75-34-3	1,1-Dichloroethane	39.0 [b]	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND [b]	2.0	ug/l	
75-35-4	1,1-Dichloroethene	329 [b]	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	219 [b]	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	10.0 [b]	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND [b]	4.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144930		
Lab Sample ID:	M91867-14	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND [b]	10	ug/l	
594-20-7	2,2-Dichloropropane	ND [b]	10	ug/l	
563-58-6	1,1-Dichloropropene	ND [b]	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND [b]	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND [b]	1.0	ug/l	
100-41-4	Ethylbenzene	ND [b]	2.0	ug/l	
76-13-1	Freon 113	ND [b]	10	ug/l	
87-68-3	Hexachlorobutadiene	ND [b]	10	ug/l	
591-78-6	2-Hexanone	ND [b]	10	ug/l	
98-82-8	Isopropylbenzene	ND [b]	10	ug/l	
99-87-6	p-Isopropyltoluene	ND [b]	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.4 [b]	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND [b]	10	ug/l	
74-95-3	Methylene bromide	ND [b]	10	ug/l	
75-09-2	Methylene chloride	ND [b]	4.0	ug/l	
91-20-3	Naphthalene	ND [b]	10	ug/l	
103-65-1	n-Propylbenzene	ND [b]	10	ug/l	
100-42-5	Styrene	ND [b]	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND [b]	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND [b]	2.0	ug/l	
127-18-4	Tetrachloroethene	80.3 [b]	2.0	ug/l	
109-99-9	Tetrahydrofuran	28.3 [b]	20	ug/l	
108-88-3	Toluene	ND [b]	2.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND [b]	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND [b]	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND [b]	10	ug/l	
71-55-6	1,1,1-Trichloroethane	177 [b]	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND [b]	2.0	ug/l	
79-01-6	Trichloroethene	712 [b]	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND [b]	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND [b]	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND [b]	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND [b]	10	ug/l	
75-01-4	Vinyl chloride	58.0 [b]	2.0	ug/l	
	m,p-Xylene	2.7 [b]	2.0	ug/l	
95-47-6	o-Xylene	ND [b]	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	125%	70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144930		
Lab Sample ID:	M91867-14	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%	125%	70-130%
460-00-4	4-Bromofluorobenzene	105%	133% [c]	70-130%

(a) Confirmation run.
(b) Result is from Run# 2
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144930		
Lab Sample ID:	M91867-14	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41023.D	1	06/18/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.305	0.084	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	74%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144930		
Lab Sample ID:	M91867-14	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58103.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.31	ug/l	
11104-28-2	Aroclor 1221	ND	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.31	ug/l	
12672-29-6	Aroclor 1248	ND	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.31	ug/l	
11096-82-5	Aroclor 1260	ND	0.31	ug/l	
37324-23-5	Aroclor 1262	ND	0.31	ug/l	
11100-14-4	Aroclor 1268	ND	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		30-150%
877-09-8	Tetrachloro-m-xylene	67%		30-150%
2051-24-3	Decachlorobiphenyl	87%		30-150%
2051-24-3	Decachlorobiphenyl	88%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144930UF		
Lab Sample ID:	M91867-15	**Date Sampled:**	06/02/10
Matrix:	AQ - Ground Water	**Date Received:**	06/02/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.5	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Barium	341	200	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/04/10	06/07/10	DA	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11869
(3) Prep QC Batch: MP15374
(4) Prep QC Batch: MP15391

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (CT)
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

Parameter Certification Exceptions

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Aroclor 1262	37324-23-5	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD
Aroclor 1268	11100-14-4	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M91867
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: LEA
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP: Plainville CT 060062
SEND REPORT TO: Robin McKinney
PHONE #: (860) 747-6181

FACILITY INFORMATION

PROJECT NAME: P+W EH Willow Pond Groundwater
LOCATION: East Hartford CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs	PCBs	ETPH	Metals RCRA 8+Cu Ni Zn								LAB USE ONLY
-1	1144927	6/2/10	11:15	NE	GW	4	2			2		X	X	X	X									
-2	1144927 uf		11:15			1			1			X				X								
-3	1144928		15:05			4	2			2		X	X	X	X									
-4	1144928 uf		15:05	NE		1			1			X				X								
-5	1144924		10:15	DR		4	2			2		X	X	X	X									
-6	1144924 uf		10:15			1			1			X				X								
-7	1144925		11:20			4	2			2		X	X	X	X									
-8	1144925 uf		11:20			1			1			X				X								
-9	1144926		14:50			4	2			2		X	X	X	X									
-10	1144926 uf		14:50	DR		1			1			X				X								
-11	1144950	6/2/10	10:00	NE	GW	1	1					X	X											

DATA TURNAROUND INFORMATION

- ☑ 14 DAYS STANDARD — APPROVED BY:
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

5B4, 6F, 16C

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Nathan Emmons	6/2/10 1700	1.	2. B.C.	6-2-10 18:15	2. B.C.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 2.2 C

M91867: Chain of Custody
Page 1 of 5

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M91867
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: LEA
ADDRESS: 100 Northwest Dr
CITY, STATE ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: (860) 747-6181

FACILITY INFORMATION

PROJECT NAME: P+WEH Willow Pond Groundwater
LOCATION: East Hartford CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	SOE	VOCs	PCBs	ETPH	Metals RCRA8+CuNiZn	LAB USE ONLY
-12	1144931	6/2/10	15:00	PG	GW	6	2				4	X	X	X	X		
-13	1144931 uf	↓	15:00	↓	↓	1			1							X	
-14	1144930	↓	13:10	↓	↓	6	2				4	X	X	X	X		
-15	1144930 uf	6/2/10	13:0	PG	GW	1			1							X	

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- ☑ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Nathan Emmons	6/2/10 1700	1. [signature]	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

4.2
4

M91867: Chain of Custody
Page 2 of 5

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M91867
ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LEA
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP:
SEND REPORT TO: Robin McKinney
PHONE #:

FACILITY INFORMATION

PROJECT NAME: [illegible]
LOCATION: 88UT043
PROJECT NO.:
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs 8260	PCBs 8082	ETPH	Metals [illegible]	LAB USE ONLY
-1	[illegible]	6/10/10	11:15	NE	GW	6	2				4		X	X	X		
-2	1144927 uf		11:15			1			1							X	
-3	1144928		15:05			6	2				4		X	X	X		
-4	[illegible]		15:05	NE		1			1			X				X	
-5	[illegible]		10:15	DR		6	2				4		X	X	X		
-6	1144924 uf		10:15									X				X	
-7	[illegible]		11:20			6	2				4	X	X	X	X		
-8	1144925 uf		[illegible]			1			1							X	
-9	1144926		[illegible]			6	2				4	X	X	X	X		
-10	1144926 uf		11:50	DR		1			1							X	
-11	1144950	6/2/10	10:[illegible]			1	1					X	X				

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs and PCBs. Provide CT RCP report.

5B, 6F, 16C

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [illegible]	6/2/10 1700	1. [illegible]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE C

4.2

4

M91867: Chain of Custody
Page 3 of 5

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M91867
ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LEA
ADDRESS: [illegible] Dr
CITY, STATE ZIP: Plainville CT 06[illegible]
SEND REPORT TO: [illegible] McKinney
PHONE #: (860) 747-6151

FACILITY INFORMATION

PROJECT NAME: [illegible]
LOCATION: 88UT043
PROJECT NO.:
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	[illegible]	VOCs 8260	PCBs 8082	TPH	Metals RCRA 8 (Cu, Zn)							LAB USE ONLY
-12	1144931	6/2/10	15:00	PG	GW	6	2				4	X	X	X	X								
-13	[illegible]		[illegible]													X							
-14	[illegible]		[illegible]			6							X	X	X								
-15	1144930 UP	6/2/10	13:0	PG	GW				1							X							

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- ☑ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs and PCBs
Provide CT RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [illegible]	17:00	1. [illegible]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE C

4.2
4

M91867: Chain of Custody
Page 4 of 5

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M91867 **Client:** LEA **Immediate Client Services Action Required:** No

Date / Time Received: 6/2/2010 6:15:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: PWEH WILLOW POND **Airbill #'s:** N/A

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservation	Y or N	N/A
1. Trip Blank present / cooler:	☑ ☐	
2. Trip Blank listed on COC:	☑ ☐	
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☑ ☐	☐

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume rec'd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Loureiro Eng. Associates**

Project Location: **UTC:P&W Willow Pond Quarterly GW Monitoring** **Project Number:** **88UT043.001**

Sampling Date(s): **6/2/2010**

Laboratory Sample ID(s): M91867-1, M91867-2, M91867-3, M91867-4, M91867-5, M91867-6, M91867-7, M91867-8, M91867-9, M91867-10, M91867-11, M91867-12, M91867-13, M91867-14, M91867-15

Methods: CT-ETPH 7/06, SW846 6010B, SW846 7470A, SW846 8082, SW846 8260B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Lab Director

Printed Name: Reza Tand Date: 6/23/2010
Accutest New England

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M91867

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91867-1 1144927	Collected: 02-JUN-10 11:15 By: NE		Received: 02-JUN-10 By: JB			
M91867-1	SW846 8260B	11-JUN-10 14:24	AMY			V8260RCP
M91867-1	SW846 8082	18-JUN-10 00:58	CZ	09-JUN-10	MEW	P8082RCP
M91867-1	CT-ETPH 7/06	18-JUN-10 18:52	KD	09-JUN-10	BJ	BCTTPH
M91867-2 1144927UF	Collected: 02-JUN-10 11:15 By: NE		Received: 02-JUN-10 By: JB			
M91867-2	SW846 6010B	07-JUN-10 12:40	DA	04-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
M91867-2	SW846 7470A	07-JUN-10 14:50	MA	07-JUN-10	MA	HG
M91867-3 1144928	Collected: 02-JUN-10 15:05 By: NE		Received: 02-JUN-10 By: JB			
M91867-3	SW846 8260B	11-JUN-10 14:53	AMY			V8260RCP
M91867-3	SW846 8082	18-JUN-10 01:12	CZ	09-JUN-10	MEW	P8082RCP
M91867-3	CT-ETPH 7/06	18-JUN-10 19:31	KD	09-JUN-10	BJ	BCTTPH
M91867-4 1144928UF	Collected: 02-JUN-10 15:05 By: NE		Received: 02-JUN-10 By: JB			
M91867-4	SW846 6010B	07-JUN-10 12:53	DA	04-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN
M91867-4	SW846 7470A	07-JUN-10 14:53	MA	07-JUN-10	MA	HG
M91867-5 1144924	Collected: 02-JUN-10 10:15 By: DR		Received: 02-JUN-10 By: JB			
M91867-5	SW846 8260B	11-JUN-10 15:21	AMY			V8260RCP
M91867-5	SW846 8082	18-JUN-10 01:34	CZ	09-JUN-10	MEW	P8082RCP
M91867-5	CT-ETPH 7/06	18-JUN-10 20:50	KD	09-JUN-10	BJ	BCTTPH
M91867-6 1144924UF	Collected: 02-JUN-10 10:15 By: DR		Received: 02-JUN-10 By: JB			
M91867-6	SW846 6010B	07-JUN-10 13:13	DA	04-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE,ZN

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M91867

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91867-6	SW846 7470A	07-JUN-10 14:30	MA	07-JUN-10	MA	HG
M91867-7 1144925	Collected: 02-JUN-10 11:20 By: DR		Received: 02-JUN-10 By: JB			
M91867-7	SW846 8260B	11-JUN-10 15:50	AMY			V8260RCP
M91867-7	SW846 8082	18-JUN-10 01:48	CZ	09-JUN-10	MEW	P8082RCP
M91867-7	CT-ETPH 7/06	18-JUN-10 21:30	KD	09-JUN-10	BJ	BCTTPH
M91867-8 1144925UF	Collected: 02-JUN-10 11:20 By: DR		Received: 02-JUN-10 By: JB			
M91867-8	SW846 6010B	07-JUN-10 13:17	DA	04-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91867-8	SW846 7470A	07-JUN-10 14:55	MA	07-JUN-10	MA	HG
M91867-9 1144926	Collected: 02-JUN-10 14:50 By: DR		Received: 02-JUN-10 By: JB			
M91867-9	SW846 8260B	12-JUN-10 18:24	AMY			V8260RCP
M91867-9	SW846 8082	18-JUN-10 02:10	CZ	09-JUN-10	MEW	P8082RCP
M91867-9	CT-ETPH 7/06	18-JUN-10 22:10	KD	09-JUN-10	BJ	BCTTPH
M91867-10 1144926UF	Collected: 02-JUN-10 14:50 By: DR		Received: 02-JUN-10 By: JB			
M91867-10	SW846 6010B	07-JUN-10 13:22	DA	04-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91867-10	SW846 7470A	07-JUN-10 14:58	MA	07-JUN-10	MA	HG
M91867-11 1144950	Collected: 02-JUN-10 10:00 By: NE		Received: 02-JUN-10 By: JB			
M91867-11	SW846 8260B	12-JUN-10 18:52	AMY			V8260RCP
M91867-12 1144931	Collected: 02-JUN-10 15:00 By: PG		Received: 02-JUN-10 By: JB			
M91867-12	SW846 8260B	12-JUN-10 19:20	AMY			V8260RCP
M91867-12	SW846 8082	18-JUN-10 02:24	CZ	09-JUN-10	MEW	P8082RCP

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M91867

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91867-12	CT-ETPH 7/06	18-JUN-10 22:49	KD	09-JUN-10	BJ	BCTTPH
M91867-13 1144931UF	Collected: 02-JUN-10 15:00 By: PG		Received: 02-JUN-10 By: JB			
M91867-13	SW846 6010B	07-JUN-10 13:26	DA	04-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91867-13	SW846 7470A	07-JUN-10 15:00	MA	07-JUN-10	MA	HG
M91867-14 1144930	Collected: 02-JUN-10 13:10 By: PG		Received: 02-JUN-10 By: JB			
M91867-14	SW846 8260B	11-JUN-10 18:13	AMY			V8260RCP
M91867-14	SW846 8260B	12-JUN-10 22:38	AMY			V8260RCP
M91867-14	SW846 8082	18-JUN-10 02:39	CZ	09-JUN-10	MEW	P8082RCP
M91867-14	CT-ETPH 7/06	18-JUN-10 23:29	KD	09-JUN-10	BJ	BCTTPH
M91867-15 1144930UF	Collected: 02-JUN-10 13:10 By: PG		Received: 02-JUN-10 By: JB			
M91867-15	SW846 6010B	07-JUN-10 13:31	DA	04-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91867-15	SW846 7470A	07-JUN-10 15:03	MA	07-JUN-10	MA	HG

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1369-MB	L41788.D	1	06/11/10	AMY	n/a	n/a	MSL1369

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-1, M91867-3, M91867-5, M91867-7

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	

Method Blank Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1369-MB	L41788.D	1	06/11/10	AMY	n/a	n/a	MSL1369

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-1, M91867-3, M91867-5, M91867-7

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1369-MB	L41788.D	1	06/11/10	AMY	n/a	n/a	MSL1369

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-1, M91867-3, M91867-5, M91867-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	105%	70-130%

Method Blank Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1370-MB	L41816.D	1	06/12/10	AMY	n/a	n/a	MSL1370

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-9, M91867-11, M91867-12, M91867-14

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	

Method Blank Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1370-MB	L41816.D	1	06/12/10	AMY	n/a	n/a	MSL1370

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-9, M91867-11, M91867-12, M91867-14

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1370-MB	L41816.D	1	06/12/10	AMY	n/a	n/a	MSL1370

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-9, M91867-11, M91867-12, M91867-14

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	108%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1369-BS	L41785.D	1	06/11/10	AMY	n/a	n/a	MSL1369
MSL1369-BSD	L41786.D	1	06/11/10	AMY	n/a	n/a	MSL1369

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-1, M91867-3, M91867-5, M91867-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	52.6	105	56.8	114	8	70-130/25
107-13-1	Acrylonitrile	50	266	532* [a]	284	568* [a]	7	70-130/25
71-43-2	Benzene	50	54.4	109	56.9	114	4	70-130/25
108-86-1	Bromobenzene	50	50.0	100	50.9	102	2	70-130/25
75-27-4	Bromodichloromethane	50	53.3	107	55.1	110	3	70-130/25
75-25-2	Bromoform	50	48.9	98	50.4	101	3	70-130/25
74-83-9	Bromomethane	50	44.3	89	47.8	96	8	70-130/25
78-93-3	2-Butanone (MEK)	50	67.2	134* [a]	70.2	140* [a]	4	70-130/25
104-51-8	n-Butylbenzene	50	55.4	111	56.7	113	2	70-130/25
135-98-8	sec-Butylbenzene	50	55.0	110	55.7	111	1	70-130/25
98-06-6	tert-Butylbenzene	50	53.9	108	55.7	111	3	70-130/25
75-15-0	Carbon disulfide	50	51.3	103	54.4	109	6	70-130/25
56-23-5	Carbon tetrachloride	50	58.8	118	61.4	123	4	70-130/25
108-90-7	Chlorobenzene	50	48.5	97	50.6	101	4	70-130/25
75-00-3	Chloroethane	50	52.3	105	55.3	111	6	70-130/25
67-66-3	Chloroform	50	53.3	107	56.0	112	5	70-130/25
74-87-3	Chloromethane	50	48.4	97	50.5	101	4	70-130/25
95-49-8	o-Chlorotoluene	50	51.4	103	52.1	104	1	70-130/25
106-43-4	p-Chlorotoluene	50	54.0	108	54.8	110	1	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	52.4	105	54.7	109	4	70-130/25
124-48-1	Dibromochloromethane	50	49.8	100	51.1	102	3	70-130/25
106-93-4	1,2-Dibromoethane	50	48.5	97	50.0	100	3	70-130/25
95-50-1	1,2-Dichlorobenzene	50	52.2	104	52.4	105	0	70-130/25
541-73-1	1,3-Dichlorobenzene	50	52.3	105	52.8	106	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	50.7	101	50.9	102	0	70-130/25
75-71-8	Dichlorodifluoromethane	50	42.8	86	44.6	89	4	70-130/25
75-34-3	1,1-Dichloroethane	50	51.0	102	53.6	107	5	70-130/25
107-06-2	1,2-Dichloroethane	50	56.9	114	57.4	115	1	70-130/25
75-35-4	1,1-Dichloroethene	50	48.8	98	50.6	101	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	53.5	107	55.3	111	3	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	46.7	93	48.7	97	4	70-130/25
78-87-5	1,2-Dichloropropane	50	51.3	103	53.5	107	4	70-130/25
142-28-9	1,3-Dichloropropane	50	50.6	101	53.1	106	5	70-130/25
594-20-7	2,2-Dichloropropane	50	61.1	122	62.7	125	3	70-130/25
563-58-6	1,1-Dichloropropene	50	55.0	110	57.0	114	4	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	56.7	113	59.1	118	4	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1369-BS	L41785.D	1	06/11/10	AMY	n/a	n/a	MSL1369
MSL1369-BSD	L41786.D	1	06/11/10	AMY	n/a	n/a	MSL1369

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-1, M91867-3, M91867-5, M91867-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	61.9	124	64.6	129	4	70-130/25
100-41-4	Ethylbenzene	50	52.6	105	55.9	112	6	70-130/25
76-13-1	Freon 113	50	58.6	117	59.5	119	2	70-130/25
87-68-3	Hexachlorobutadiene	50	51.2	102	52.1	104	2	70-130/25
591-78-6	2-Hexanone	50	58.4	117	63.9	128	9	70-130/25
98-82-8	Isopropylbenzene	50	59.4	119	61.0	122	3	70-130/25
99-87-6	p-Isopropyltoluene	50	55.3	111	56.4	113	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	57.2	114	59.5	119	4	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	55.9	112	62.1	124	11	70-130/25
74-95-3	Methylene bromide	50	59.7	119	60.8	122	2	70-130/25
75-09-2	Methylene chloride	50	46.4	93	49.5	99	6	70-130/25
91-20-3	Naphthalene	50	46.5	93	48.8	98	5	70-130/25
103-65-1	n-Propylbenzene	50	54.5	109	54.9	110	1	70-130/25
100-42-5	Styrene	50	52.7	105	54.5	109	3	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	50.5	101	52.4	105	4	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	49.7	99	50.6	101	2	70-130/25
127-18-4	Tetrachloroethene	50	49.3	99	51.9	104	5	70-130/25
109-99-9	Tetrahydrofuran	50	50.6	101	54.5	109	7	70-130/25
108-88-3	Toluene	50	52.5	105	54.1	108	3	70-130/25
110-57-6	Trans-1,4-Dichloro-2-Butene	50	55.5	111	57.2	114	3	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	48.2	96	49.2	98	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	47.7	95	49.0	98	3	70-130/25
71-55-6	1,1,1-Trichloroethane	50	59.0	118	62.0	124	5	70-130/25
79-00-5	1,1,2-Trichloroethane	50	52.2	104	54.6	109	4	70-130/25
79-01-6	Trichloroethene	50	53.5	107	55.0	110	3	70-130/25
75-69-4	Trichlorofluoromethane	50	57.9	116	61.5	123	6	70-130/25
96-18-4	1,2,3-Trichloropropane	50	47.3	95	49.1	98	4	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	52.1	104	53.3	107	2	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	52.9	106	54.3	109	3	70-130/25
75-01-4	Vinyl chloride	50	42.8	86	44.1	88	3	70-130/25
	m,p-Xylene	100	107	107	112	112	5	70-130/25
95-47-6	o-Xylene	50	51.0	102	54.0	108	6	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1369-BS	L41785.D	1	06/11/10	AMY	n/a	n/a	MSL1369
MSL1369-BSD	L41786.D	1	06/11/10	AMY	n/a	n/a	MSL1369

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-1, M91867-3, M91867-5, M91867-7

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	99%	70-130%
2037-26-5	Toluene-D8	101%	104%	70-130%
460-00-4	4-Bromofluorobenzene	102%	99%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1370-BS	L41813.D	1	06/12/10	AMY	n/a	n/a	MSL1370
MSL1370-BSD	L41814.D	1	06/12/10	AMY	n/a	n/a	MSL1370

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-9, M91867-11, M91867-12, M91867-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	50.7	101	50.7	101	0	70-130/25
107-13-1	Acrylonitrile	50	295	590* [a]	310	620* [a]	5	70-130/25
71-43-2	Benzene	50	55.5	111	54.7	109	1	70-130/25
108-86-1	Bromobenzene	50	49.8	100	49.0	98	2	70-130/25
75-27-4	Bromodichloromethane	50	56.9	114	56.9	114	0	70-130/25
75-25-2	Bromoform	50	50.8	102	50.9	102	0	70-130/25
74-83-9	Bromomethane	50	42.1	84	42.9	86	2	70-130/25
78-93-3	2-Butanone (MEK)	50	58.7	117	54.8	110	7	70-130/25
104-51-8	n-Butylbenzene	50	57.0	114	54.8	110	4	70-130/25
135-98-8	sec-Butylbenzene	50	54.5	109	53.3	107	2	70-130/25
98-06-6	tert-Butylbenzene	50	56.4	113	54.4	109	4	70-130/25
75-15-0	Carbon disulfide	50	53.3	107	50.9	102	5	70-130/25
56-23-5	Carbon tetrachloride	50	62.3	125	58.9	118	6	70-130/25
108-90-7	Chlorobenzene	50	47.9	96	47.9	96	0	70-130/25
75-00-3	Chloroethane	50	54.6	109	53.9	108	1	70-130/25
67-66-3	Chloroform	50	54.9	110	53.2	106	3	70-130/25
74-87-3	Chloromethane	50	56.4	113	55.4	111	2	70-130/25
95-49-8	o-Chlorotoluene	50	52.3	105	51.0	102	3	70-130/25
106-43-4	p-Chlorotoluene	50	53.3	107	51.9	104	3	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	56.7	113	57.6	115	2	70-130/25
124-48-1	Dibromochloromethane	50	50.2	100	50.1	100	0	70-130/25
106-93-4	1,2-Dibromoethane	50	47.8	96	47.9	96	0	70-130/25
95-50-1	1,2-Dichlorobenzene	50	51.7	103	50.2	100	3	70-130/25
541-73-1	1,3-Dichlorobenzene	50	51.3	103	50.8	102	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	49.8	100	49.6	99	0	70-130/25
75-71-8	Dichlorodifluoromethane	50	66.0	132* [a]	61.5	123	7	70-130/25
75-34-3	1,1-Dichloroethane	50	51.5	103	51.4	103	0	70-130/25
107-06-2	1,2-Dichloroethane	50	57.5	115	57.2	114	1	70-130/25
75-35-4	1,1-Dichloroethene	50	51.5	103	50.5	101	2	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	53.8	108	52.2	104	3	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	49.8	100	49.1	98	1	70-130/25
78-87-5	1,2-Dichloropropane	50	53.5	107	51.4	103	4	70-130/25
142-28-9	1,3-Dichloropropane	50	50.7	101	52.1	104	3	70-130/25
594-20-7	2,2-Dichloropropane	50	64.3	129	58.0	116	10	70-130/25
563-58-6	1,1-Dichloropropene	50	57.8	116	55.2	110	5	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	55.9	112	54.5	109	3	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1370-BS	L41813.D	1	06/12/10	AMY	n/a	n/a	MSL1370
MSL1370-BSD	L41814.D	1	06/12/10	AMY	n/a	n/a	MSL1370

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-9, M91867-11, M91867-12, M91867-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	55.5	111	54.2	108	2	70-130/25
100-41-4	Ethylbenzene	50	53.2	106	52.7	105	1	70-130/25
76-13-1	Freon 113	50	63.0	126	58.9	118	7	70-130/25
87-68-3	Hexachlorobutadiene	50	50.5	101	49.0	98	3	70-130/25
591-78-6	2-Hexanone	50	55.7	111	55.6	111	0	70-130/25
98-82-8	Isopropylbenzene	50	53.2	106	51.6	103	3	70-130/25
99-87-6	p-Isopropyltoluene	50	55.7	111	54.2	108	3	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	59.5	119	55.7	111	7	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	61.7	123	61.8	124	0	70-130/25
74-95-3	Methylene bromide	50	59.0	118	58.1	116	2	70-130/25
75-09-2	Methylene chloride	50	49.2	98	49.0	98	0	70-130/25
91-20-3	Naphthalene	50	50.6	101	50.5	101	0	70-130/25
103-65-1	n-Propylbenzene	50	54.9	110	53.4	107	3	70-130/25
100-42-5	Styrene	50	51.7	103	52.4	105	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	49.4	99	48.6	97	2	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	49.8	100	49.9	100	0	70-130/25
127-18-4	Tetrachloroethene	50	50.7	101	49.7	99	2	70-130/25
109-99-9	Tetrahydrofuran	50	55.0	110	55.6	111	1	70-130/25
108-88-3	Toluene	50	53.0	106	51.1	102	4	70-130/25
110-57-6	Trans-1,4-Dichloro-2-Butene	50	57.1	114	52.3	105	9	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	49.2	98	48.2	96	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	48.5	97	48.0	96	1	70-130/25
71-55-6	1,1,1-Trichloroethane	50	61.5	123	59.0	118	4	70-130/25
79-00-5	1,1,2-Trichloroethane	50	53.9	108	53.9	108	0	70-130/25
79-01-6	Trichloroethene	50	55.6	111	53.3	107	4	70-130/25
75-69-4	Trichlorofluoromethane	50	61.1	122	58.6	117	4	70-130/25
96-18-4	1,2,3-Trichloropropane	50	54.6	109	52.6	105	4	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	53.2	106	51.8	104	3	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	53.9	108	52.4	105	3	70-130/25
75-01-4	Vinyl chloride	50	55.5	111	52.1	104	6	70-130/25
	m,p-Xylene	100	105	105	107	107	2	70-130/25
95-47-6	o-Xylene	50	52.4	105	51.8	104	1	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1370-BS	L41813.D	1	06/12/10	AMY	n/a	n/a	MSL1370
MSL1370-BSD	L41814.D	1	06/12/10	AMY	n/a	n/a	MSL1370

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-9, M91867-11, M91867-12, M91867-14

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	96%	70-130%
2037-26-5	Toluene-D8	103%	103%	70-130%
460-00-4	4-Bromofluorobenzene	100%	98%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M91867-1MS	L41808.D	5	06/11/10	AMY	n/a	n/a	MSL1369
M91867-1MSD	L41809.D	5	06/11/10	AMY	n/a	n/a	MSL1369
M91867-1	L41789.D	1	06/11/10	AMY	n/a	n/a	MSL1369

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-1, M91867-3, M91867-5, M91867-7

CAS No.	Compound	M91867-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	159	64* [a]	159	64* [a]	0	70-130/30
107-13-1	Acrylonitrile	ND		250	1370	548* [b]	1380	552* [b]	1	70-130/30
71-43-2	Benzene	ND		250	273	109	263	105	4	70-130/30
108-86-1	Bromobenzene	ND		250	243	97	245	98	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	273	109	257	103	6	70-130/30
75-25-2	Bromoform	ND		250	236	94	233	93	1	70-130/30
74-83-9	Bromomethane	ND		250	203	81	214	86	5	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	210	84	203	81	3	70-130/30
104-51-8	n-Butylbenzene	ND		250	267	107	264	106	1	70-130/30
135-98-8	sec-Butylbenzene	ND		250	267	107	266	106	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	275	110	268	107	3	70-130/30
75-15-0	Carbon disulfide	ND		250	257	103	245	98	5	70-130/30
56-23-5	Carbon tetrachloride	ND		250	304	122	281	112	8	70-130/30
108-90-7	Chlorobenzene	ND		250	239	96	233	93	3	70-130/30
75-00-3	Chloroethane	ND		250	273	109	250	100	9	70-130/30
67-66-3	Chloroform	0.97		250	274	109	255	102	7	70-130/30
74-87-3	Chloromethane	ND		250	228	91	225	90	1	70-130/30
95-49-8	o-Chlorotoluene	ND		250	255	102	248	99	3	70-130/30
106-43-4	p-Chlorotoluene	ND		250	265	106	266	106	0	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	243	97	259	104	6	70-130/30
124-48-1	Dibromochloromethane	ND		250	246	98	235	94	5	70-130/30
106-93-4	1,2-Dibromoethane	ND		250	239	96	231	92	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	257	103	254	102	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	255	102	255	102	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	245	98	243	97	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	215	86	199	80	8	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	250	100	241	96	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	288	115	280	112	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	251	100	228	91	10	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	259	104	258	103	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	231	92	220	88	5	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	253	101	252	101	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	245	98	251	100	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	295	118	260	104	13	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	281	112	268	107	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	282	113	270	108	4	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M91867-1MS	L41808.D	5	06/11/10	AMY	n/a	n/a	MSL1369
M91867-1MSD	L41809.D	5	06/11/10	AMY	n/a	n/a	MSL1369
M91867-1	L41789.D	1	06/11/10	AMY	n/a	n/a	MSL1369

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-1, M91867-3, M91867-5, M91867-7

CAS No.	Compound	M91867-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	309	124	293	117	5	70-130/30
100-41-4	Ethylbenzene	ND		250	263	105	255	102	3	70-130/30
76-13-1	Freon 113	ND		250	295	118	272	109	8	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	243	97	233	93	4	70-130/30
591-78-6	2-Hexanone	ND		250	204	82	217	87	6	70-130/30
98-82-8	Isopropylbenzene	ND		250	295	118	286	114	3	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	267	107	269	108	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	278	111	255	102	9	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	260	104	263	105	1	70-130/30
74-95-3	Methylene bromide	ND		250	306	122	284	114	7	70-130/30
75-09-2	Methylene chloride	ND		250	238	95	224	90	6	70-130/30
91-20-3	Naphthalene	ND		250	222	89	234	94	5	70-130/30
103-65-1	n-Propylbenzene	ND		250	264	106	260	104	2	70-130/30
100-42-5	Styrene	ND		250	259	104	248	99	4	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	253	101	243	97	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	241	96	247	99	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	244	98	242	97	1	70-130/30
109-99-9	Tetrahydrofuran	ND		250	254	102	237	95	7	70-130/30
108-88-3	Toluene	ND		250	265	106	248	99	7	70-130/30
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		250	277	111	252	101	9	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	224	90	235	94	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	226	90	231	92	2	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	301	120	280	112	7	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	266	106	253	101	5	70-130/30
79-01-6	Trichloroethene	ND		250	276	110	251	100	9	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	298	119	278	111	7	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	234	94	230	92	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	258	103	253	101	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	267	107	262	105	2	70-130/30
75-01-4	Vinyl chloride	ND		250	222	89	207	83	7	70-130/30
	m,p-Xylene	ND		500	526	105	507	101	4	70-130/30
95-47-6	o-Xylene	ND		250	254	102	249	100	2	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M91867-1MS	L41808.D	5	06/11/10	AMY	n/a	n/a	MSL1369
M91867-1MSD	L41809.D	5	06/11/10	AMY	n/a	n/a	MSL1369
M91867-1	L41789.D	1	06/11/10	AMY	n/a	n/a	MSL1369

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-1, M91867-3, M91867-5, M91867-7

CAS No.	Surrogate Recoveries	MS	MSD	M91867-1	Limits
1868-53-7	Dibromofluoromethane	99%	96%	104%	70-130%
2037-26-5	Toluene-D8	103%	100%	101%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	107%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Associated samples are non-detect for this compound.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M92076-1MS	L41837.D	5	06/13/10	AMY	n/a	n/a	MSL1370
M92076-1MSD	L41838.D	5	06/13/10	AMY	n/a	n/a	MSL1370
M92076-1	L41823.D	1	06/12/10	AMY	n/a	n/a	MSL1370

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-9, M91867-11, M91867-12, M91867-14

CAS No.	Compound	M92076-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	156	62* [a]	159	64* [a]	2	70-130/30
107-13-1	Acrylonitrile	ND		250	1380	552* [b]	1430	572* [b]	4	70-130/30
71-43-2	Benzene	ND		250	279	112	282	113	1	70-130/30
108-86-1	Bromobenzene	ND		250	266	106	268	107	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	230	92	244	98	6	70-130/30
75-25-2	Bromoform	ND		250	245	98	252	101	3	70-130/30
74-83-9	Bromomethane	ND		250	163	65* [a]	196	78	18	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	216	86	226	90	5	70-130/30
104-51-8	n-Butylbenzene	ND		250	266	106	265	106	0	70-130/30
135-98-8	sec-Butylbenzene	ND		250	277	111	274	110	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	259	104	258	103	0	70-130/30
75-15-0	Carbon disulfide	ND		250	263	105	257	103	2	70-130/30
56-23-5	Carbon tetrachloride	ND		250	249	100	252	101	1	70-130/30
108-90-7	Chlorobenzene	ND		250	263	105	268	107	2	70-130/30
75-00-3	Chloroethane	ND		250	277	111	271	108	2	70-130/30
67-66-3	Chloroform	ND		250	242	97	236	94	3	70-130/30
74-87-3	Chloromethane	ND		250	196	78	192	77	2	70-130/30
95-49-8	o-Chlorotoluene	ND		250	263	105	265	106	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	274	110	269	108	2	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	241	96	250	100	4	70-130/30
124-48-1	Dibromochloromethane	ND		250	252	101	259	104	3	70-130/30
106-93-4	1,2-Dibromoethane	ND		250	261	104	269	108	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	266	106	269	108	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	269	108	266	106	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	259	104	257	103	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	164	66* [b]	158	63* [b]	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	245	98	234	94	5	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	226	90	232	93	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	255	102	249	100	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	268	107	265	106	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	242	97	237	95	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	255	102	259	104	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	264	106	270	108	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	200	80	193	77	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	265	106	265	106	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	260	104	264	106	2	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M92076-1MS	L41837.D	5	06/13/10	AMY	n/a	n/a	MSL1370
M92076-1MSD	L41838.D	5	06/13/10	AMY	n/a	n/a	MSL1370
M92076-1	L41823.D	1	06/12/10	AMY	n/a	n/a	MSL1370

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-9, M91867-11, M91867-12, M91867-14

CAS No.	Compound	M92076-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	262	105	269	108	3	70-130/30
100-41-4	Ethylbenzene	ND		250	285	114	285	114	0	70-130/30
76-13-1	Freon 113	ND		250	285	114	262	105	8	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	234	94	233	93	0	70-130/30
591-78-6	2-Hexanone	ND		250	203	81	225	90	10	70-130/30
98-82-8	Isopropylbenzene	ND		250	314	126	310	124	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	275	110	274	110	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	249	100	240	96	4	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	242	97	256	102	6	70-130/30
74-95-3	Methylene bromide	ND		250	273	109	276	110	1	70-130/30
75-09-2	Methylene chloride	ND		250	240	96	241	96	0	70-130/30
91-20-3	Naphthalene	ND		250	251	100	254	102	1	70-130/30
103-65-1	n-Propylbenzene	ND		250	277	111	275	110	1	70-130/30
100-42-5	Styrene	ND		250	274	110	277	111	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	256	102	263	105	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	274	110	275	110	0	70-130/30
127-18-4	Tetrachloroethene	ND		250	270	108	272	109	1	70-130/30
109-99-9	Tetrahydrofuran	ND		250	235	94	241	96	3	70-130/30
108-88-3	Toluene	ND		250	266	106	262	105	2	70-130/30
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		250	218	87	218	87	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	235	94	239	96	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	239	96	241	96	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	250	100	246	98	2	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	265	106	270	108	2	70-130/30
79-01-6	Trichloroethene	ND		250	260	104	262	105	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	243	97	238	95	2	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	241	96	236	94	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	270	108	267	107	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	276	110	273	109	1	70-130/30
75-01-4	Vinyl chloride	ND		250	203	81	202	81	0	70-130/30
	m,p-Xylene	ND		500	581	116	584	117	1	70-130/30
95-47-6	o-Xylene	ND		250	276	110	278	111	1	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M92076-1MS	L41837.D	5	06/13/10	AMY	n/a	n/a	MSL1370
M92076-1MSD	L41838.D	5	06/13/10	AMY	n/a	n/a	MSL1370
M92076-1	L41823.D	1	06/12/10	AMY	n/a	n/a	MSL1370

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91867-9, M91867-11, M91867-12, M91867-14

CAS No.	Surrogate Recoveries	MS	MSD	M92076-1	Limits
1868-53-7	Dibromofluoromethane	90%	90%	105%	70-130%
2037-26-5	Toluene-D8	98%	100%	103%	70-130%
460-00-4	4-Bromofluorobenzene	97%	101%	105%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Associated samples are non-detect for this compound.

Volatile Internal Standard Area Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Check Std:	MSL1369-CC1368	**Injection Date:**	06/11/10
Lab File ID:	L41784.D	**Injection Time:**	12:02
Instrument ID:	GCMSL	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	127595	8.21	175882	9.04	107784	12.28	99509	14.84	45475	5.82
Upper Limit [a]	255190	8.71	351764	9.54	215568	12.78	199018	15.34	90950	6.32
Lower Limit [b]	63798	7.71	87941	8.54	53892	11.78	49755	14.34	22738	5.32

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL1369-BS	125694	8.21	178077	9.04	109701	12.28	97839	14.84	41405	5.82
MSL1369-BSD	127559	8.21	179604	9.04	110856	12.28	101986	14.84	45347	5.81
MSL1369-MB	123538	8.21	174959	9.04	99259	12.29	82948	14.85	40594	5.82
M91867-1	120138	8.21	167224	9.04	97655	12.29	80256	14.85	42537	5.82
M91867-3	118604	8.21	169013	9.04	96318	12.29	82433	14.85	44586	5.82
M91867-5	117964	8.21	166040	9.04	97431	12.29	79725	14.85	40565	5.81
M91867-7	117086	8.21	163303	9.04	94424	12.29	77036	14.85	41487	5.81
ZZZZZZ	118856	8.21	172911	9.04	109632	12.28	110639	14.84	30679	5.81
M91867-14 [c]	117116	8.21	160384	9.04	95015	12.29	78654	14.84	41976	5.82
ZZZZZZ	116244	8.21	164917	9.04	95705	12.29	87396	14.84	49659	5.82
ZZZZZZ	98527	8.21	136690	9.04	81382	12.29	72711	14.84	40211	5.82
ZZZZZZ	114450	8.21	157824	9.04	93413	12.29	77074	14.84	45008	5.82
ZZZZZZ	115619	8.21	161316	9.04	94835	12.29	79454	14.84	44256	5.82
ZZZZZZ	116166	8.21	164467	9.04	94572	12.29	88488	14.84	33652	5.82
ZZZZZZ	126179	8.21	176356	9.04	100078	12.29	82718	14.84	39319	5.82
ZZZZZZ	116706	8.21	163815	9.04	98675	12.29	100264	14.84	42039	5.81
ZZZZZZ	175324	8.21	244744	9.04	134557	12.29	115930	14.84	53565	5.81
ZZZZZZ	163588	8.21	229463	9.04	124501	12.29	103477	14.84	54946	5.82
ZZZZZZ	134067	8.21	185501	9.04	105857	12.29	86247	14.85	47411	5.82
M91867-1MS	119478	8.21	166970	9.04	105334	12.28	94067	14.84	41506	5.82
M91867-1MSD	122355	8.21	170541	9.04	105558	12.28	92822	14.84	39404	5.82

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run.

Volatile Internal Standard Area Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Check Std: MSL1370-CC1368 **Injection Date:** 06/12/10
Lab File ID: L41813.D **Injection Time:** 15:35
Instrument ID: GCMSL **Method:** SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	120428	8.21	166610	9.04	105447	12.28	94190	14.84	44876	5.82
Upper Limit [a]	240856	8.71	333220	9.54	210894	12.78	188380	15.34	89752	6.32
Lower Limit [b]	60214	7.71	83305	8.54	52724	11.78	47095	14.34	22438	5.32

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL1370-BSD	121219	8.21	166155	9.04	103548	12.28	94522	14.84	41434	5.82
MSL1370-MB	117480	8.21	167009	9.04	96103	12.29	78325	14.85	39809	5.82
ZZZZZZ	116475	8.21	162821	9.04	95329	12.29	78795	14.84	39525	5.82
ZZZZZZ	113905	8.21	160122	9.04	94158	12.29	77417	14.85	36683	5.82
M91867-9	116898	8.21	161664	9.04	95356	12.29	79944	14.85	36254	5.82
M91867-11	112774	8.21	155968	9.04	93800	12.29	76584	14.85	34884	5.82
M91867-12	113721	8.21	157742	9.04	92985	12.29	74052	14.85	38267	5.82
ZZZZZZ	111344	8.21	154781	9.04	92427	12.29	74453	14.85	39248	5.82
M92076-1	107790	8.21	150569	9.04	90102	12.29	73206	14.84	41448	5.82
ZZZZZZ	110933	8.21	152228	9.04	89517	12.29	73429	14.85	41298	5.82
ZZZZZZ	109328	8.21	151879	9.04	91216	12.29	78090	14.84	42870	5.82
ZZZZZZ	111218	8.21	154140	9.04	95482	12.29	94494	14.84	44908	5.82
M91867-14	97842	8.21	131782	9.04	78007	12.29	64106	14.85	43261	5.82
ZZZZZZ	112608	8.21	154659	9.04	93919	12.28	91234	14.84	51479	5.82
ZZZZZZ	121086	8.21	169034	9.04	103042	12.29	108222	14.84	42289	5.82
ZZZZZZ	192390	8.21	275221	9.04	158577	12.29	150887	14.84	57859	5.82
ZZZZZZ	239928	8.21	339363*	9.04	185132	12.29	168356	14.84	68330	5.81
ZZZZZZ	253515*	8.21	352576*	9.04	186542	12.28	174819	14.84	81088	5.82
M92076-1MS	221296	8.21	310253	9.04	175110	12.28	150632	14.84	69333	5.81
M92076-1MSD	212098	8.21	288297	9.04	163184	12.28	144362	14.84	66234	5.82

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M91867-1	L41789.D	104.0	101.0	107.0
M91867-3	L41790.D	102.0	100.0	101.0
M91867-5	L41791.D	103.0	99.0	104.0
M91867-7	L41792.D	101.0	100.0	106.0
M91867-9	L41819.D	103.0	101.0	101.0
M91867-11	L41820.D	103.0	103.0	106.0
M91867-12	L41821.D	101.0	100.0	104.0
M91867-14	L41797.D	99.0	102.0	105.0
M91867-14	L41828.D	125.0	125.0	133.0* [a]
M91867-1MS	L41808.D	99.0	103.0	102.0
M91867-1MSD	L41809.D	96.0	100.0	101.0
M92076-1MS	L41837.D	90.0	98.0	97.0
M92076-1MSD	L41838.D	90.0	100.0	101.0
MSL1369-BS	L41785.D	99.0	101.0	102.0
MSL1369-BSD	L41786.D	99.0	104.0	99.0
MSL1369-MB	L41788.D	104.0	100.0	105.0
MSL1370-BS	L41813.D	97.0	103.0	100.0
MSL1370-BSD	L41814.D	96.0	103.0	98.0
MSL1370-MB	L41816.D	104.0	100.0	108.0

Surrogate Compounds		Recovery Limits
S1 =	Dibromofluoromethane	70-130%
S2 =	Toluene-D8	70-130%
S3 =	4-Bromofluorobenzene	70-130%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21573-MB	BC40933.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M91867-1, M91867-3, M91867-5, M91867-7, M91867-9, M91867-12, M91867-14

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	93%	50-149%

Method Blank Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21574-MB	YZ57905.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470

The QC reported here applies to the following samples: **Method:** SW846 8082

M91867-1, M91867-3, M91867-5, M91867-7, M91867-9, M91867-12, M91867-14

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	71%	30-150%
877-09-8	Tetrachloro-m-xylene	56%	30-150%
2051-24-3	Decachlorobiphenyl	48%	30-150%
2051-24-3	Decachlorobiphenyl	48%	30-150%

Blank Spike Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21573-BS	BC40935.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M91867-1, M91867-3, M91867-5, M91867-7, M91867-9, M91867-12, M91867-14

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	CT-DRO (C9-C36)	0.7	0.605	86	60-120

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	90%	50-149%

Blank Spike Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21574-BS	YZ57907.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470

The QC reported here applies to the following samples: **Method:** SW846 8082

M91867-1, M91867-3, M91867-5, M91867-7, M91867-9, M91867-12, M91867-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	2.0	100	40-140
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	2	1.9	95	40-140
37324-23-5	Aroclor 1262		ND		40-140
11100-14-4	Aroclor 1268		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	83%	30-150%
877-09-8	Tetrachloro-m-xylene	79%	30-150%
2051-24-3	Decachlorobiphenyl	62%	30-150%
2051-24-3	Decachlorobiphenyl	61%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21573-MS	BC40937.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043
OP21573-MSD	BC40939.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043
M92049-6	BC40941.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M91867-1, M91867-3, M91867-5, M91867-7, M91867-9, M91867-12, M91867-14

CAS No.	Compound	M92049-6 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	ND		0.7	0.492	70	0.491	70	0	50-129/26

CAS No.	Surrogate Recoveries	MS	MSD	M92049-6	Limits
3386-33-2	1-Chlorooctadecane	92%	100%	86%	50-149%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21574-MS	YZ57908.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470
OP21574-MSD	YZ57909.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470
M92049-5	YZ57910.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470

The QC reported here applies to the following samples: **Method:** SW846 8082

M91867-1, M91867-3, M91867-5, M91867-7, M91867-9, M91867-12, M91867-14

CAS No.	Compound	M92049-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2	2.1	105	2.2	110	5	40-140/50
11104-28-2	Aroclor 1221	ND			ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND			ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND			ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND			ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	ND			ND		ND		nc	40-140/50
11096-82-5	Aroclor 1260	ND		2	2.0	100	2.1	105	5	40-140/50
37324-23-5	Aroclor 1262	ND			ND		ND		nc	40-140/50
11100-14-4	Aroclor 1268	ND			ND		ND		nc	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M92049-5	Limits
877-09-8	Tetrachloro-m-xylene	84%	83%	84%	30-150%
877-09-8	Tetrachloro-m-xylene	68%	62%	76%	30-150%
2051-24-3	Decachlorobiphenyl	64%	65%	68%	30-150%
2051-24-3	Decachlorobiphenyl	63%	66%	68%	30-150%

Semivolatile Surrogate Recovery Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: CT-ETPH 7/06 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
M91867-1	BC41009.D	91.0
M91867-3	BC41011.D	54.0
M91867-5	BC41015.D	79.0
M91867-7	BC41017.D	73.0
M91867-9	BC41019.D	76.0
M91867-12	BC41021.D	76.0
M91867-14	BC41023.D	74.0
OP21573-BS	BC40935.D	90.0
OP21573-MB	BC40933.D	93.0
OP21573-MS	BC40937.D	92.0
OP21573-MSD	BC40939.D	100.0

Surrogate Compounds	Recovery Limits
S1 = 1-Chlorooctadecane	50-149%

(a) Recovery from GC signal #1

Semivolatile Surrogate Recovery Summary

Job Number: M91867
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8082 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
M91867-1	YZ58097.D	75.0	66.0	73.0	73.0
M91867-3	YZ58098.D	83.0	85.0	73.0	73.0
M91867-5	YZ58099.D	92.0	94.0	94.0	94.0
M91867-7	YZ58100.D	81.0	84.0	85.0	87.0
M91867-9	YZ58101.D	90.0	92.0	92.0	93.0
M91867-12	YZ58102.D	91.0	94.0	91.0	92.0
M91867-14	YZ58103.D	86.0	67.0	87.0	88.0
OP21574-BS	YZ57907.D	83.0	79.0	62.0	61.0
OP21574-MB	YZ57905.D	71.0	56.0	48.0	48.0
OP21574-MS	YZ57908.D	84.0	68.0	64.0	63.0
OP21574-MSD	YZ57909.D	83.0	62.0	65.0	66.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15374
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/04/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	7	14		
Antimony	6.0	.79	1.2		
Arsenic	10	.57	1.9	-1.0	<10
Barium	200	2	3.7	1.8	<200
Beryllium	4.0	.15	.2		
Boron	100	1.2	1.5		
Cadmium	4.0	.12	.12	-0.30	<4.0
Calcium	5000	15	39		
Chromium	10	.42	.5	0.30	<10
Cobalt	50	.17	.3		
Copper	25	.81	.8	-0.40	<25
Gold	50	.97	1.7		
Iron	100	2.8	4.1		
Lead	5.0	.57	1.5	-0.60	<5.0
Magnesium	5000	25	32		
Manganese	15	.12	.9		
Molybdenum	100	.24	.6		
Nickel	40	.12	.3	-0.70	<40
Palladium	50	1.2	2.5		
Platinum	50	4.4	7		
Potassium	5000	29	30		
Selenium	10	1.3	1.7	0.80	<10
Silicon	100	2.1	7.2		
Silver	5.0	.49	.5	0.10	<5.0
Sodium	5000	27	31		
Strontium	10	.06	.3		
Thallium	10	.56	.7		
Tin	100	.31	.4		
Titanium	50	.4	.5		
Tungsten	100	3.4	12		
Vanadium	30	.63	1.1		
Zinc	20	.72	2	-0.10	<20

Associated samples MP15374: M91867-2, M91867-4, M91867-6, M91867-8, M91867-10, M91867-13, M91867-15

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15374
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.1

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15374
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Metal	M91867-2 Original	MS	Spikelot MPICP	% Rec	QC Limits	M91867-2 Original	DUP	RPD	QC Limits
Prep Date:				06/04/10				06/04/10	
Aluminum									
Antimony									
Arsenic	0.0	503	500	100.6	75-125	0.0	0.0	NC	0-20
Barium	15.2	2120	2000	105.2	75-125	15.2	14.8	2.7	0-20
Beryllium									
Boron									
Cadmium	0.0	508	500	101.6	75-125	0.0	0.0	NC	0-20
Calcium									
Chromium	0.0	514	500	102.8	75-125	0.0	0.0	NC	0-20
Cobalt									
Copper	0.0	495	500	99.0	75-125	0.0	0.0	NC	0-20
Gold									
Iron									
Lead	0.0	974	1000	97.4	75-125	0.0	0.0	NC	0-20
Magnesium									
Manganese									
Molybdenum									
Nickel	0.0	491	500	98.2	75-125	0.0	0.0	NC	0-20
Palladium									
Platinum									
Potassium									
Selenium	0.0	490	500	98.0	75-125	0.0	1.8	200.0(a)	0-20
Silicon									
Silver	0.0	203	200	101.5	75-125	0.0	0.70	200.0(a)	0-20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc	12.2	513	500	100.2	75-125	12.2	12.3	0.8	0-20

Associated samples MP15374: M91867-2, M91867-4, M91867-6, M91867-8, M91867-10, M91867-13, M91867-15

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15374 | Methods: SW846 6010B
Matrix Type: AQUEOUS | Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15374
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			06/04/10					06/04/10	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	499	500	99.8	80-120	498	500	99.6	0.2	20
Barium	2160	2000	108.0	80-120	2020	2000	101.0	6.7	20
Beryllium									
Boron									
Cadmium	508	500	101.6	80-120	500	500	100.0	1.6	20
Calcium									
Chromium	507	500	101.4	80-120	499	500	99.8	1.6	20
Cobalt									
Copper	486	500	97.2	80-120	493	500	98.6	1.4	20
Gold									
Iron									
Lead	974	1000	97.4	80-120	971	1000	97.1	0.3	20
Magnesium									
Manganese									
Molybdenum									
Nickel	491	500	98.2	80-120	490	500	98.0	0.2	20
Palladium									
Platinum									
Potassium									
Selenium	490	500	98.0	80-120	496	500	99.2	1.2	20
Silicon									
Silver	201	200	100.5	80-120	203	200	101.5	1.0	20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc	498	500	99.6	80-120	496	500	99.2	0.4	20

Associated samples MP15374: M91867-2, M91867-4, M91867-6, M91867-8, M91867-10, M91867-13, M91867-15

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15374
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.3

7

SERIAL DILUTION RESULTS SUMMARY

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15374
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/04/10

Metal	M91867-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	15.2	22.6	48.7 (a)	0-10
Beryllium				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper	0.00	0.00	NC	0-10
Gold				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Palladium				
Platinum				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	12.2	12.7	4.1	0-10

Associated samples MP15374: M91867-2, M91867-4, M91867-6, M91867-8, M91867-10, M91867-13, M91867-15

SERIAL DILUTION RESULTS SUMMARY

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15374
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

7.1.4

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15391
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/07/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.022	.048	-0.036	<0.20

Associated samples MP15391: M91867-2, M91867-4, M91867-6, M91867-8, M91867-10, M91867-13, M91867-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15391
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/07/10 06/07/10

Metal	M91867-6 Original	MS	Spikelot HGRWS1	% Rec	QC Limits	M91867-6 Original	DUP	RPD	QC Limits
Mercury	0.0	3.1	3	103.3	75-125	0.0	0.0	NC	0-20

Associated samples MP15391: M91867-2, M91867-4, M91867-6, M91867-8, M91867-10, M91867-13, M91867-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91867
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15391
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/07/10 06/07/10

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	2.8	3	93.3	80-120	3.1	3	103.3	10.2	20

Associated samples MP15391: M91867-2, M91867-4, M91867-6, M91867-8, M91867-10, M91867-13, M91867-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.3

7

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

06/23/10

Technical Report for

Loureiro Eng. Associates

UTC:P&W Willow Pond Quarterly GW Monitoring

88UT043.001

Accutest Job Number: M91951

Sampling Date: 06/03/10

Report to:

rlmckinney@loureiro.com

ATTN: Distribution6

Total number of pages in report: **123**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Accutest LabLink@12:33 23-Jun-2010

Sample Summary

Loureiro Eng. Associates

Job No: M91951

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M91951-1	06/03/10	11:02	HG	06/04/10	AQ	Ground Water	1144929
M91951-1A	06/03/10	11:02	HG	06/04/10	AQ	Ground Water	1144929UF
M91951-2	06/03/10	14:30	HG	06/04/10	AQ	Ground Water	1144933
M91951-3	06/03/10	17:41	HG	06/04/10	AQ	Ground Water	1144932UF
M91951-4	06/03/10	17:41	HG	06/04/10	AQ	Ground Water	1144932
M91951-5	06/03/10	14:30	HG	06/04/10	AQ	Ground Water	1144933UF
M91951-6	06/03/10	17:41	HG	06/04/10	AQ	Ground Water	1144939UF
M91951-7	06/03/10	10:05	HG	06/04/10	AQ	Ground Water	1144934
M91951-7A	06/03/10	10:05	HG	06/04/10	AQ	Ground Water	1144934UF
M91951-8	06/03/10	14:40	HG	06/04/10	AQ	Ground Water	1144937
M91951-8A	06/03/10	14:40	HG	06/04/10	AQ	Ground Water	1144937UF
M91951-9	06/03/10	12:10	HG	06/04/10	AQ	Ground Water	1144936
M91951-9A	06/03/10	12:10	HG	06/04/10	AQ	Ground Water	1144936UF

Accutest LabLink@12:33 23-Jun-2010

Sample Summary
(continued)

Loureiro Eng. Associates

Job No: M91951

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M91951-10	06/03/10	11:55	HG	06/04/10	AQ	Ground Water	1144935
M91951-10A	06/03/10	11:55	HG	06/04/10	AQ	Ground Water	1144935UF
M91951-11	06/03/10	09:00	HG	06/04/10	AQ	Ground Water	1144942
M91951-12	06/03/10	17:41	HG	06/04/10	AQ	Ground Water	1144939
M91951-13	06/03/10	12:00	HG	06/04/10	AQ	Ground Water	1144940
M91951-14	06/03/10	12:00	HG	06/04/10	AQ	Ground Water	1144940UF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Loureiro Eng. Associates **Job No** M91951

Site: UTC:P&W Willow Pond Quarterly GW Monitoring **Report Date** 6/23/2010 12:06:42 PM

19 Sample(s) were collected on 06/03/2010 and were received at Accutest on 06/04/2010 properly preserved, at 2.5 Deg. C and intact. These Samples received an Accutest job number of M91951. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSE1949

- All samples were analyzed within the recommended method holding time.
- Sample(s) M91934-12MS, M91934-12MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Tetrahydrofuran are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 2-Hexanone, Acetone, n-Propylbenzene, o-Chlorotoluene, Trans-1,4-Dichloro-2-Butene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 2-Hexanone, Acetone, n-Propylbenzene, o-Chlorotoluene, Trans-1,4-Dichloro-2-Butene, Tetrahydrofuran are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MS/MSD Recovery(s) for 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Ethylbenzene, m,p-Xylene, o-Xylene, Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Tetrahydrofuran are outside control limits for sample M91934-12MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- M91934-12MS/MSD for Acrylonitrile: Outside control limits. Associated samples are non-detect for this compound.
- MSE1949-BS/BSD for Acrylonitrile: Outside control limits. Associated samples are non-detect for this compound.
- Continuing calibration check standard MSE1949-CC1937 for 2,2-dichloropropane, Tetrahydrofuran, Trans-1,4-Dichloro-2-Butene exceed 30% Difference. This check standard met RCP criteria.
- Initial calibration verification standard MSE1937-ICV1937 for acetone exceed 35% Difference
- Initial calibration standard MSE1937-ICC1937 for naphthalene, 1,2,3-trichlorobenzene is employed quadratic regression.
- MSE1949-BS/BSD for 2,2-Dichloropropane: Outside control limits. Blank Spike meets program technical requirements.

Matrix AQ **Batch ID:** MSE1950

- All samples were analyzed within the recommended method holding time.
- Sample(s) M92239-1MS, M92239-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Acrylonitrile, 1,2,3-Trichlorobenzene, 2-Butanone (MEK), 2-Hexanone, Acetone, Tetrachloroethene, Tetrahydrofuran, Trans-1,4-Dichloro-2-Butene are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 1,2,3-Trichloropropane, 1,2-Dibromo-3-chloropropane, 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone, Trans-1,4-Dichloro-2-Butene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichloropropane, 1,2-Dibromo-3-chloropropane, 4-Methyl-2-pentanone (MIBK), Acetone, Trans-1,4-Dichloro-2-Butene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- M92239-1BS/BSD for Acrylonitrile: Outside control limits. Associated samples are non-detect for this compound.
- Blank Spike Duplicate Recovery(s) for Acrylonitrile, 1,2,3-Trichlorobenzene, 2-Butanone (MEK), 2-Hexanone, Acetone, Trans-1,4-Dichloro-2-Butene are outside control limits. Blank Spike meets program technical requirements.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ	**Batch ID:** MSE1950

- M92239-1MS/MSD for Acrylonitrile: Outside control limits. Associated samples are non-detect for this compound.
- Continuing calibration check standard MSE1950-CC1937 for Tetrahydrofuran, Trans-1,4-Dichloro-2-Butene, 1,2,3-trichloropropane exceed 30% Difference. This check standard met RCP criteria.

Extractables by GC By Method CT-ETPH 7/06

Matrix AQ	**Batch ID:** OP21573

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M92049-6MS, M92049-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8082

Matrix AQ	**Batch ID:** OP21574

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M92049-5MS, M92049-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ	**Batch ID:** MP15401

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M91951-3DUP, M91951-3MS, M91951-3SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium, Selenium are outside control limits for sample MP15401-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix AQ	**Batch ID:** MP15391

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M91867-6DUP, M91867-6MS were used as the QC samples for metals.

Matrix AQ	**Batch ID:** MP15407

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M91951-8AMS, M91951-8ADUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Mercury are outside control limits for sample MP15407-D1. RPD acceptable due to low duplicate and sample concentrations.
- Only selected metals requested.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91951).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1144929		
Lab Sample ID:	M91951-1	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45761.D	1	06/17/10	DFT	n/a	n/a	MSE1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144929		
Lab Sample ID:	M91951-1	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144929		
Lab Sample ID:	M91951-1	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	81%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144929		
Lab Sample ID:	M91951-1	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41025.D	1	06/19/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.352	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	61%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144929		
Lab Sample ID:	M91951-1	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58105.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		30-150%
877-09-8	Tetrachloro-m-xylene	68%		30-150%
2051-24-3	Decachlorobiphenyl	60%		30-150%
2051-24-3	Decachlorobiphenyl	61%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144929UF		
Lab Sample ID:	M91951-1A	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	8.7	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11875
(3) Prep QC Batch: MP15391
(4) Prep QC Batch: MP15401

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144933		
Lab Sample ID:	M91951-2	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45762.D	1	06/17/10	DFT	n/a	n/a	MSE1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144933		
Lab Sample ID:	M91951-2	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	38.3	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	8.8	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	2.2	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144933		
Lab Sample ID:	M91951-2	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		70-130%
460-00-4	4-Bromofluorobenzene	79%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144933		
Lab Sample ID:	M91951-2	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41027.D	1	06/19/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.459	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	83%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144933		
Lab Sample ID:	M91951-2	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58107.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		30-150%
877-09-8	Tetrachloro-m-xylene	85%		30-150%
2051-24-3	Decachlorobiphenyl	80%		30-150%
2051-24-3	Decachlorobiphenyl	81%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144932UF		
Lab Sample ID:	M91951-3	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	191	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	269	25	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	2580	40	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11875
(3) Prep QC Batch: MP15391
(4) Prep QC Batch: MP15401

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144932		
Lab Sample ID:	M91951-4	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45763.D	1	06/17/10	DFT	n/a	n/a	MSE1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	9.6	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144932		
Lab Sample ID:	M91951-4	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	5.5	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	4.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	6.1	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144932		
Lab Sample ID:	M91951-4	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	81%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144932		
Lab Sample ID:	M91951-4	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41029.D	1	06/19/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	1.03	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	78%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144932		
Lab Sample ID:	M91951-4	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58108.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.31	ug/l	
11104-28-2	Aroclor 1221	ND	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.31	ug/l	
12672-29-6	Aroclor 1248	ND	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.31	ug/l	
11096-82-5	Aroclor 1260	ND	0.31	ug/l	
37324-23-5	Aroclor 1262	ND	0.31	ug/l	
11100-14-4	Aroclor 1268	ND	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		30-150%
877-09-8	Tetrachloro-m-xylene	74%		30-150%
2051-24-3	Decachlorobiphenyl	62%		30-150%
2051-24-3	Decachlorobiphenyl	63%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144933UF		
Lab Sample ID:	M91951-5	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11875
(3) Prep QC Batch: MP15391
(4) Prep QC Batch: MP15401

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144939UF		
Lab Sample ID:	M91951-6	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	195	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	271	25	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	2630	40	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11875
(3) Prep QC Batch: MP15391
(4) Prep QC Batch: MP15401

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144934		
Lab Sample ID:	M91951-7	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45764.D	1	06/17/10	DFT	n/a	n/a	MSE1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144934		
Lab Sample ID:	M91951-7	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144934		
Lab Sample ID:	M91951-7	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	78%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144934		
Lab Sample ID:	M91951-7	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41031.D	1	06/19/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.128	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	66%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144934		
Lab Sample ID:	M91951-7	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58109.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		30-150%
877-09-8	Tetrachloro-m-xylene	77%		30-150%
2051-24-3	Decachlorobiphenyl	66%		30-150%
2051-24-3	Decachlorobiphenyl	67%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144934UF		
Lab Sample ID:	M91951-7A	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	06/07/10	06/07/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA11867
(2) Instrument QC Batch: MA11875
(3) Prep QC Batch: MP15391
(4) Prep QC Batch: MP15401

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144937		
Lab Sample ID:	M91951-8	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45765.D	1	06/17/10	DFT	n/a	n/a	MSE1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144937		
Lab Sample ID:	M91951-8	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144937		
Lab Sample ID:	M91951-8	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	81%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144937		
Lab Sample ID:	M91951-8	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41033.D	1	06/19/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.442	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	71%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144937		
Lab Sample ID:	M91951-8	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58110.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		30-150%
877-09-8	Tetrachloro-m-xylene	88%		30-150%
2051-24-3	Decachlorobiphenyl	72%		30-150%
2051-24-3	Decachlorobiphenyl	73%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144937UF		
Lab Sample ID:	M91951-8A	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/09/10	06/09/10	MA	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11875
(2) Instrument QC Batch: MA11878
(3) Prep QC Batch: MP15401
(4) Prep QC Batch: MP15407

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144936		
Lab Sample ID:	M91951-9	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45766.D	1	06/17/10	DFT	n/a	n/a	MSE1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144936		
Lab Sample ID:	M91951-9	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144936		
Lab Sample ID:	M91951-9	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	79%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144936		
Lab Sample ID:	M91951-9	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41037.D	1	06/19/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.422	0.082	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	82%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144936		
Lab Sample ID:	M91951-9	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58111.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		30-150%
877-09-8	Tetrachloro-m-xylene	85%		30-150%
2051-24-3	Decachlorobiphenyl	72%		30-150%
2051-24-3	Decachlorobiphenyl	72%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144936UF		
Lab Sample ID:	M91951-9A	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/09/10	06/09/10	MA	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11875
(2) Instrument QC Batch: MA11878
(3) Prep QC Batch: MP15401
(4) Prep QC Batch: MP15407

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144935		
Lab Sample ID:	M91951-10	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45767.D	1	06/17/10	DFT	n/a	n/a	MSE1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144935		
Lab Sample ID:	M91951-10	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144935		
Lab Sample ID:	M91951-10	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	79%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144935		
Lab Sample ID:	M91951-10	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41039.D	1	06/19/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.0981	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	73%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144935		
Lab Sample ID:	M91951-10	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58112.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		30-150%
877-09-8	Tetrachloro-m-xylene	93%		30-150%
2051-24-3	Decachlorobiphenyl	85%		30-150%
2051-24-3	Decachlorobiphenyl	86%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144935UF		
Lab Sample ID:	M91951-10A	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/09/10	06/09/10	MA	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11875
(2) Instrument QC Batch: MA11878
(3) Prep QC Batch: MP15401
(4) Prep QC Batch: MP15407

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1144942		
Lab Sample ID:	M91951-11	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45768.D	1	06/17/10	DFT	n/a	n/a	MSE1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144942		
Lab Sample ID:	M91951-11	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144942		
Lab Sample ID:	M91951-11	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	78%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144939		
Lab Sample ID:	M91951-12	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45769.D	1	06/17/10	DFT	n/a	n/a	MSE1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	10	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144939		
Lab Sample ID:	M91951-12	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	5.4	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	4.0	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	5.6	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144939		
Lab Sample ID:	M91951-12	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	78%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144939		
Lab Sample ID:	M91951-12	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41041.D	1	06/19/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	1.02	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	96%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144939		
Lab Sample ID:	M91951-12	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58113.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.28	ug/l	
11104-28-2	Aroclor 1221	ND	0.28	ug/l	
11141-16-5	Aroclor 1232	ND	0.28	ug/l	
53469-21-9	Aroclor 1242	ND	0.28	ug/l	
12672-29-6	Aroclor 1248	ND	0.28	ug/l	
11097-69-1	Aroclor 1254	ND	0.28	ug/l	
11096-82-5	Aroclor 1260	ND	0.28	ug/l	
37324-23-5	Aroclor 1262	ND	0.28	ug/l	
11100-14-4	Aroclor 1268	ND	0.28	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		30-150%
877-09-8	Tetrachloro-m-xylene	84%		30-150%
2051-24-3	Decachlorobiphenyl	67%		30-150%
2051-24-3	Decachlorobiphenyl	67%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144940		
Lab Sample ID:	M91951-13	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E45778.D	1	06/17/10	DFT	n/a	n/a	MSE1950
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144940		
Lab Sample ID:	M91951-13	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144940		
Lab Sample ID:	M91951-13	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	77%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144940		
Lab Sample ID:	M91951-13	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC41043.D	1	06/19/10	KD	06/09/10	OP21573	GBC2045
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	50%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144940		
Lab Sample ID:	M91951-13	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ58114.D	1	06/18/10	CZ	06/09/10	OP21574	GYZ2478
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.31	ug/l	
11104-28-2	Aroclor 1221	ND	0.31	ug/l	
11141-16-5	Aroclor 1232	ND	0.31	ug/l	
53469-21-9	Aroclor 1242	ND	0.31	ug/l	
12672-29-6	Aroclor 1248	ND	0.31	ug/l	
11097-69-1	Aroclor 1254	ND	0.31	ug/l	
11096-82-5	Aroclor 1260	ND	0.31	ug/l	
37324-23-5	Aroclor 1262	ND	0.31	ug/l	
11100-14-4	Aroclor 1268	ND	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		30-150%
877-09-8	Tetrachloro-m-xylene	91%		30-150%
2051-24-3	Decachlorobiphenyl	55%		30-150%
2051-24-3	Decachlorobiphenyl	55%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1144940UF		
Lab Sample ID:	M91951-14	**Date Sampled:**	06/03/10
Matrix:	AQ - Ground Water	**Date Received:**	06/04/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/09/10	06/09/10	MA	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/08/10	06/08/10	DA	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11875
(2) Instrument QC Batch: MA11878
(3) Prep QC Batch: MP15401
(4) Prep QC Batch: MP15407

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (CT)
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

Parameter Certification Exceptions

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Aroclor 1262	37324-23-5	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD
Aroclor 1268	11100-14-4	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

1 of 4

ACCUTEST JOB #: M91951
ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Associates
ADDRESS: 100 Northwest Drive
CITY: Plainville STATE: CT ZIP: 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: Willow Brook Willow Pond
LOCATION: Pratt & Whitney, East Hartford, CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	KS	VOCs 8260B	CT ETPH	PCBs 8082	Total RCRA 8 metals	HOLD	LAB USE ONLY
	1144929	6/3/10	1102	HG	GW	3	X					X	X					
-1	1144929		1102	HG	GW	1			X			X				X		
	1144929		1102	HG	GW	4						X		X	X			
	1144933		1430	HG	GW	1						X				X	X	
-2	1144933		1430	HG	GW	2	X					X	X					
	1144933		1430	HG	GW	4						X		X	X			
-3	1144932uf		1741	HG	GW	1			X			X				X		
	1144932		1741	HG	GW	2	X					X	X					
-4	1144932		1741	HG	GW	4						X		X	X			
-5	1144933uf		1430	HG	GW	1			X			X				X		
-6	1144939uf		1741	HG	GW	1						X				X		

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

Loc: 19A, 6F, 5E6

COMMENTS/REMARKS

Provide CT LCP analytical lists for VOCs + PCBs and provide CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	6/3/10 2030	1. LEA Fridge 2030	2. Dan Hyman	6/4/10 13:13	2. [signature]
3. [signature]	6/3-10 1900	3. [signature]	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 2.5 C

4.2

4

M91951: Chain of Custody
Page 1 of 5

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

2 of 4

ACCUTEST JOB #: M91951
ACCUTEST QUOTE #: KB2 2009-453

CLIENT INFORMATION

NAME: LOUREIRO ENGINEERING
ADDRESS: 100 NORTH WEST DR.
CITY, STATE, ZIP: PLAINVILLE CT
SEND REPORT TO: ROBIN McKINNEY
PHONE #: (860) 410-3000

FACILITY INFORMATION

PROJECT NAME: WILLOW BROOK / WILLOW POND
LOCATION: PRATT & WHITNEY, EAST HARTFORD
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOCs 8260B	CT ETPH	PCBs 8082	TOTAL RCRA 8 + Cu, Ni, Zn	LAB USE ONLY
1	1144934	6/3/10	1005	RG	GW	4					✓		X	X		
-2	1144934	6/3/10	1005	RG	GW	2						X				
3	1144934	6/3/10	1005	RG	GW	1									X	

DATA TURNAROUND INFORMATION

- [X] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	6/3/10 2030	1.	2.	6/4/10 13:13	2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

4.2 4

M91951: Chain of Custody
Page 2 of 5

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

3 of 4

ACCUTEST JOB #: M91951
ACCUTEST QUOTE #: ICB2/2009-453

CLIENT INFORMATION

NAME: COUREIRO ENGINEERING
ADDRESS: 100 NORTHWEST DR
CITY, STATE, ZIP: PLAINVILLE, CT
SEND REPORT TO: ROBIN McKINNEY
PHONE #: (860) 410-3020

FACILITY INFORMATION

PROJECT NAME: WILLOW BROOK / WILLOW POND
LOCATION: PRATT & WHITTNEY, EAST HARTFORD
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

VOCs 8260B; CT ETPH; PCBs 8082; TOTAL RCRA 8 + Cu, Ni, Zn

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOCs 8260B	CT ETPH	PCBs 8082	TOTAL RCRA 8 + Cu, Ni, Zn	LAB USE ONLY
	1144937	6/3/10	1440	PG	GW	4					✓		X	X		
-8	1144937	6/3/10	1440	PG	GW	2	✓					X				
	1144937	6/3/10	1440	PG	GW	1			✓						X	
	1144936	6/3/10	1210	PG	GW	4					✓		X	X		
-9	1144936	6/3/10	1210	PG	GW	2	✓					X				
	1144936	6/3/10	1210	PG	GW	1			✓						X	
	1144935	6/3/10	1155	PG	GW	4					✓		X	X		
-10	1144935	6/3/10	1155	PG	GW	2	✓					X				
	1144935	6/3/10	1155	PG	GW	1			✓						X	

DATA TURNAROUND INFORMATION

☒ 14 DAYS STANDARD — APPROVED BY:
☐ 7 DAYS *RUSH*
☐ 48 HOUR EMERGENCY
☐ OTHER

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY)

COMMENTS/REMARKS

PROVIDE CT RCP analytical lists for VOCs + PCBs + provide CT RCP REPORT

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	6/3/10 2030	1.	2.	6/4/10 13:13	2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3. B.C	6-4-10	3. B.C	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐	TEMPERATURE ____ C
5.		5.			

4.2
4

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

4 of 4

ACCUTEST JOB #: M91951
ACCUTEST QUOTE #: KBL2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Associates
ADDRESS: 100 Northwest Drive
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: Willow Brook / Willow Pond
LOCATION: Pratt & Whitney East Hartford
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

VOCs 8260B; CT ETPH; PCBs 8082; Total RCRA 8 + Cu, Ni, Zn

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC	VOCs 8260B	CT ETPH	PCBs 8082	Total RCRA 8 + Cu, Ni, Zn	LAB USE ONLY
-11	1144942	6/3/10	9:00	HG	GW	2	X					X	X				
	C1144939		1741	HG	GW	2	X					X	X				
-12	1144939		1741	HG	GW	4		X	X			X		X	X		
	C1144940		1200	PG	GW	2	X					X	X				
-13	1144940		1200	PG	GW	4						X		X	X		
-14	1144940 uf		1200	PG	GW	1			X			X				X	

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs + PCBs + provide CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Heather [illegible]	6/3/10 2030	1. LEA Fridge 2	2. Nan [illegible]	6/4/10 13:13	2. [illegible]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M91951 **Client:** LEA **Immediate Client Services Action Required:** No

Date / Time Received: 6/4/2010 7:00:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: **Airbill #'s:**

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservation	Y or N	N/A
1. Trip Blank present / cooler:	☐ ☐	
2. Trip Blank listed on COC:	☐ ☐	
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☐ ☐	☑

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume rec'd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Loureiro Eng. Associates**

Project Location: **UTC:P&W Willow Pond Quarterly GW Monitoring** **Project Number:** **88UT043.001**

Sampling Date(s): **6/3/2010**

Laboratory Sample ID(s): M91951-1, M91951-2, M91951-3, M91951-4, M91951-5, M91951-6, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12, M91951-13, M91951-14, M91951-1A, M91951-2A, M91951-7A, M91951-8A, M91951-9A, M91951-10A

Methods: CT-ETPH 7/06, SW846 6010B, SW846 7470A, SW846 8082, SW846 8260B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Lab Director

Printed Name: Reza Tand Date: 6/23/2010
Accutest New England

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M91951

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91951-1 1144929	Collected: 03-JUN-10 11:02 By: HG		Received: 04-JUN-10 By: SAP			
M91951-1	SW846 8260B	17-JUN-10 06:52	DFT			V8260RCP
M91951-1	SW846 8082	18-JUN-10 03:15	CZ	09-JUN-10	MEW	P8082RCP
M91951-1	CT-ETPH 7/06	19-JUN-10 00:09	KD	09-JUN-10	BJ	BCTTPH
M91951-2 1144933	Collected: 03-JUN-10 14:30 By: HG		Received: 04-JUN-10 By: SAP			
M91951-2	SW846 8260B	17-JUN-10 07:21	DFT			V8260RCP
M91951-2	SW846 8082	18-JUN-10 03:51	CZ	09-JUN-10	MEW	P8082RCP
M91951-2	CT-ETPH 7/06	19-JUN-10 00:49	KD	09-JUN-10	BJ	BCTTPH
M91951-3 1144932UF	Collected: 03-JUN-10 17:41 By: HG		Received: 04-JUN-10 By: SAP			
M91951-3	SW846 7470A	07-JUN-10 15:12	MA	07-JUN-10	MA	HG
M91951-3	SW846 6010B	08-JUN-10 18:41	DA	08-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91951-4 1144932	Collected: 03-JUN-10 17:41 By: HG		Received: 04-JUN-10 By: SAP			
M91951-4	SW846 8260B	17-JUN-10 07:50	DFT			V8260RCP
M91951-4	SW846 8082	18-JUN-10 04:13	CZ	09-JUN-10	MEW	P8082RCP
M91951-4	CT-ETPH 7/06	19-JUN-10 01:29	KD	09-JUN-10	BJ	BCTTPH
M91951-5 1144933UF	Collected: 03-JUN-10 14:30 By: HG		Received: 04-JUN-10 By: SAP			
M91951-5	SW846 7470A	07-JUN-10 15:15	MA	07-JUN-10	MA	HG
M91951-5	SW846 6010B	08-JUN-10 19:20	DA	08-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91951-6 1144939UF	Collected: 03-JUN-10 17:41 By: HG		Received: 04-JUN-10 By: SAP			
M91951-6	SW846 7470A	07-JUN-10 15:18	MA	07-JUN-10	MA	HG

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M91951

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91951-6	SW846 6010B	08-JUN-10 19:25	DA	08-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91951-7 1144934	Collected: 03-JUN-10 10:05 By: HG		Received: 04-JUN-10 By: SAP			
M91951-7	SW846 8260B	17-JUN-10 08:19	DFT			V8260RCP
M91951-7	SW846 8082	18-JUN-10 08:57	CZ	09-JUN-10	MEW	P8082RCP
M91951-7	CT-ETPH 7/06	19-JUN-10 02:08	KD	09-JUN-10	BJ	BCTTPH
M91951-8 1144937	Collected: 03-JUN-10 14:40 By: HG		Received: 04-JUN-10 By: SAP			
M91951-8	SW846 8260B	17-JUN-10 08:48	DFT			V8260RCP
M91951-8	SW846 8082	18-JUN-10 09:11	CZ	09-JUN-10	MEW	P8082RCP
M91951-8	CT-ETPH 7/06	19-JUN-10 02:48	KD	09-JUN-10	BJ	BCTTPH
M91951-9 1144936	Collected: 03-JUN-10 12:10 By: HG		Received: 04-JUN-10 By: SAP			
M91951-9	SW846 8260B	17-JUN-10 09:16	DFT			V8260RCP
M91951-9	SW846 8082	18-JUN-10 09:33	CZ	09-JUN-10	MEW	P8082RCP
M91951-9	CT-ETPH 7/06	19-JUN-10 04:07	KD	09-JUN-10	BJ	BCTTPH
M91951-10 1144935	Collected: 03-JUN-10 11:55 By: HG		Received: 04-JUN-10 By: SAP			
M91951-10	SW846 8260B	17-JUN-10 09:46	DFT			V8260RCP
M91951-10	SW846 8082	18-JUN-10 09:49	CZ	09-JUN-10	MEW	P8082RCP
M91951-10	CT-ETPH 7/06	19-JUN-10 04:46	KD	09-JUN-10	BJ	BCTTPH
M91951-11 1144942	Collected: 03-JUN-10 09:00 By: HG		Received: 04-JUN-10 By: SAP			
M91951-11	SW846 8260B	17-JUN-10 10:09	DFT			V8260RCP
M91951-12 1144939	Collected: 03-JUN-10 17:41 By: HG		Received: 04-JUN-10 By: SAP			
M91951-12	SW846 8260B	17-JUN-10 10:39	DFT			V8260RCP

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M91951

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91951-12	SW846 8082	18-JUN-10 10:03	CZ	09-JUN-10	MEW	P8082RCP
M91951-12	CT-ETPH 7/06	19-JUN-10 05:26	KD	09-JUN-10	BJ	BCTTPH
M91951-13	Collected: 03-JUN-10 12:00 By: HG		Received: 04-JUN-10 By: SAP			
1144940						
M91951-13	SW846 8260B	17-JUN-10 15:21	DFT			V8260RCP
M91951-13	SW846 8082	18-JUN-10 10:22	CZ	09-JUN-10	MEW	P8082RCP
M91951-13	CT-ETPH 7/06	19-JUN-10 06:05	KD	09-JUN-10	BJ	BCTTPH
M91951-14	Collected: 03-JUN-10 12:00 By: HG		Received: 04-JUN-10 By: SAP			
1144940UF						
M91951-14	SW846 6010B	08-JUN-10 19:12	DA	08-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91951-14	SW846 7470A	09-JUN-10 14:04	MA	09-JUN-10	MA	HG
M91951-1A	Collected: 03-JUN-10 11:02 By: HG		Received: 04-JUN-10 By: SAP			
1144929UF						
M91951-1A	SW846 7470A	07-JUN-10 15:05	MA	07-JUN-10	MA	HG
M91951-1A	SW846 6010B	08-JUN-10 19:16	DA	08-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91951-7A	Collected: 03-JUN-10 10:05 By: HG		Received: 04-JUN-10 By: SAP			
1144934UF						
M91951-7A	SW846 7470A	07-JUN-10 15:20	MA	07-JUN-10	MA	HG
M91951-7A	SW846 6010B	08-JUN-10 19:29	DA	08-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91951-8A	Collected: 03-JUN-10 14:40 By: HG		Received: 04-JUN-10 By: SAP			
1144937UF						
M91951-8A	SW846 6010B	08-JUN-10 19:34	DA	08-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91951-8A	SW846 7470A	09-JUN-10 13:50	MA	09-JUN-10	MA	HG

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M91951

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91951-9A Collected: 03-JUN-10 12:10 By: HG Received: 04-JUN-10 By: SAP 1144936UF						
M91951-9A	SW846 6010B	08-JUN-10 19:38	DA	08-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91951-9A	SW846 7470A	09-JUN-10 13:53	MA	09-JUN-10	MA	HG
M91951-10A Collected: 03-JUN-10 11:55 By: HG Received: 04-JUN-10 By: SAP 1144935UF						
M91951-10A	SW846 6010B	08-JUN-10 19:07	DA	08-JUN-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M91951-10A	SW846 7470A	09-JUN-10 13:55	MA	09-JUN-10	MA	HG

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1949-MB	E45750.D	1	06/17/10	DFT	n/a	n/a	MSE1949

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	

Method Blank Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1949-MB	E45750.D	1	06/17/10	DFT	n/a	n/a	MSE1949

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1949-MB	E45750.D	1	06/17/10	DFT	n/a	n/a	MSE1949

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	88%	70-130%
2037-26-5	Toluene-D8	95%	70-130%
460-00-4	4-Bromofluorobenzene	80%	70-130%

Method Blank Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1950-MB	E45776.D	1	06/17/10	DFT	n/a	n/a	MSE1950

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-13

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	

Method Blank Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1950-MB	E45776.D	1	06/17/10	DFT	n/a	n/a	MSE1950

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-13

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1950-MB	E45776.D	1	06/17/10	DFT	n/a	n/a	MSE1950

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-13

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	88%	70-130%
2037-26-5	Toluene-D8	94%	70-130%
460-00-4	4-Bromofluorobenzene	79%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1949-BS	E45747.D	1	06/17/10	DFT	n/a	n/a	MSE1949
MSE1949-BSD	E45748.D	1	06/17/10	DFT	n/a	n/a	MSE1949

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	47.9	96	43.7	87	9	70-130/25
107-13-1	Acrylonitrile	50	219	438* [a]	219	438* [a]	0	70-130/25
71-43-2	Benzene	50	49.9	100	50.6	101	1	70-130/25
108-86-1	Bromobenzene	50	52.6	105	53.7	107	2	70-130/25
75-27-4	Bromodichloromethane	50	43.9	88	44.7	89	2	70-130/25
75-25-2	Bromoform	50	52.4	105	51.9	104	1	70-130/25
74-83-9	Bromomethane	50	50.1	100	50.7	101	1	70-130/25
78-93-3	2-Butanone (MEK)	50	47.3	95	45.6	91	4	70-130/25
104-51-8	n-Butylbenzene	50	49.6	99	51.4	103	4	70-130/25
135-98-8	sec-Butylbenzene	50	51.7	103	53.5	107	3	70-130/25
98-06-6	tert-Butylbenzene	50	47.2	94	48.6	97	3	70-130/25
75-15-0	Carbon disulfide	50	49.7	99	51.6	103	4	70-130/25
56-23-5	Carbon tetrachloride	50	47.9	96	49.7	99	4	70-130/25
108-90-7	Chlorobenzene	50	58.7	117	58.0	116	1	70-130/25
75-00-3	Chloroethane	50	47.7	95	47.6	95	0	70-130/25
67-66-3	Chloroform	50	45.2	90	46.9	94	4	70-130/25
74-87-3	Chloromethane	50	41.6	83	42.2	84	1	70-130/25
95-49-8	o-Chlorotoluene	50	46.5	93	47.5	95	2	70-130/25
106-43-4	p-Chlorotoluene	50	48.3	97	48.7	97	1	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	38.7	77	43.0	86	11	70-130/25
124-48-1	Dibromochloromethane	50	48.8	98	49.3	99	1	70-130/25
106-93-4	1,2-Dibromoethane	50	55.4	111	55.9	112	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	54.5	109	55.9	112	3	70-130/25
541-73-1	1,3-Dichlorobenzene	50	52.6	105	53.9	108	2	70-130/25
106-46-7	1,4-Dichlorobenzene	50	53.4	107	55.9	112	5	70-130/25
75-71-8	Dichlorodifluoromethane	50	39.2	78	38.1	76	3	70-130/25
75-34-3	1,1-Dichloroethane	50	45.1	90	46.2	92	2	70-130/25
107-06-2	1,2-Dichloroethane	50	41.8	84	43.0	86	3	70-130/25
75-35-4	1,1-Dichloroethene	50	48.4	97	49.9	100	3	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	47.4	95	47.7	95	1	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	45.0	90	46.6	93	3	70-130/25
78-87-5	1,2-Dichloropropane	50	49.0	98	49.7	99	1	70-130/25
142-28-9	1,3-Dichloropropane	50	48.2	96	48.6	97	1	70-130/25
594-20-7	2,2-Dichloropropane	50	34.1	68* [b]	34.6	69* [b]	1	70-130/25
563-58-6	1,1-Dichloropropene	50	50.0	100	51.1	102	2	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	48.3	97	49.4	99	2	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1949-BS	E45747.D	1	06/17/10	DFT	n/a	n/a	MSE1949
MSE1949-BSD	E45748.D	1	06/17/10	DFT	n/a	n/a	MSE1949

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	50.1	100	50.0	100	0	70-130/25
100-41-4	Ethylbenzene	50	55.1	110	55.8	112	1	70-130/25
76-13-1	Freon 113	50	51.3	103	52.2	104	2	70-130/25
87-68-3	Hexachlorobutadiene	50	54.9	110	53.1	106	3	70-130/25
591-78-6	2-Hexanone	50	42.0	84	44.2	88	5	70-130/25
98-82-8	Isopropylbenzene	50	57.2	114	59.1	118	3	70-130/25
99-87-6	p-Isopropyltoluene	50	52.0	104	53.7	107	3	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	40.2	80	41.6	83	3	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	37.3	75	36.5	73	2	70-130/25
74-95-3	Methylene bromide	50	48.6	97	48.1	96	1	70-130/25
75-09-2	Methylene chloride	50	46.7	93	46.6	93	0	70-130/25
91-20-3	Naphthalene	50	55.8	112	56.4	113	1	70-130/25
103-65-1	n-Propylbenzene	50	48.5	97	49.9	100	3	70-130/25
100-42-5	Styrene	50	54.8	110	55.4	111	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	58.1	116	59.7	119	3	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	41.2	82	41.6	83	1	70-130/25
127-18-4	Tetrachloroethene	50	60.3	121	60.0	120	0	70-130/25
109-99-9	Tetrahydrofuran	50	32.4	65* [b]	35.3	71	9	70-130/25
108-88-3	Toluene	50	52.1	104	53.6	107	3	70-130/25
110-57-6	Trans-1,4-Dichloro-2-Butene	50	35.5	71	35.1	70	1	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	63.1	126	64.5	129	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	56.8	114	57.1	114	1	70-130/25
71-55-6	1,1,1-Trichloroethane	50	45.3	91	47.8	96	5	70-130/25
79-00-5	1,1,2-Trichloroethane	50	49.6	99	49.8	100	0	70-130/25
79-01-6	Trichloroethene	50	52.2	104	54.2	108	4	70-130/25
75-69-4	Trichlorofluoromethane	50	48.5	97	49.4	99	2	70-130/25
96-18-4	1,2,3-Trichloropropane	50	37.9	76	39.0	78	3	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	47.0	94	47.8	96	2	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	48.2	96	49.8	100	3	70-130/25
75-01-4	Vinyl chloride	50	39.2	78	39.8	80	2	70-130/25
	m,p-Xylene	100	114	114	115	115	1	70-130/25
95-47-6	o-Xylene	50	57.8	116	58.7	117	2	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1949-BS	E45747.D	1	06/17/10	DFT	n/a	n/a	MSE1949
MSE1949-BSD	E45748.D	1	06/17/10	DFT	n/a	n/a	MSE1949

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	85%	86%	70-130%
2037-26-5	Toluene-D8	95%	92%	70-130%
460-00-4	4-Bromofluorobenzene	83%	84%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1950-BS	E45773.D	1	06/17/10	DFT	n/a	n/a	MSE1950
MSE1950-BSD	E45774.D	1	06/17/10	DFT	n/a	n/a	MSE1950

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	75.6	151* [a]	76.7	153* [a]	1	70-130/25
107-13-1	Acrylonitrile	50	229	458* [b]	223	446* [b]	3	70-130/25
71-43-2	Benzene	50	53.0	106	51.7	103	2	70-130/25
108-86-1	Bromobenzene	50	53.4	107	54.0	108	1	70-130/25
75-27-4	Bromodichloromethane	50	45.4	91	45.4	91	0	70-130/25
75-25-2	Bromoform	50	53.0	106	53.8	108	1	70-130/25
74-83-9	Bromomethane	50	51.7	103	52.0	104	1	70-130/25
78-93-3	2-Butanone (MEK)	50	69.4	139* [a]	68.2	136* [a]	2	70-130/25
104-51-8	n-Butylbenzene	50	52.5	105	51.5	103	2	70-130/25
135-98-8	sec-Butylbenzene	50	54.2	108	53.8	108	1	70-130/25
98-06-6	tert-Butylbenzene	50	47.6	95	48.1	96	1	70-130/25
75-15-0	Carbon disulfide	50	53.6	107	52.6	105	2	70-130/25
56-23-5	Carbon tetrachloride	50	50.2	100	49.3	99	2	70-130/25
108-90-7	Chlorobenzene	50	62.0	124	61.6	123	1	70-130/25
75-00-3	Chloroethane	50	47.7	95	48.4	97	1	70-130/25
67-66-3	Chloroform	50	46.2	92	46.7	93	1	70-130/25
74-87-3	Chloromethane	50	41.9	84	42.2	84	1	70-130/25
95-49-8	o-Chlorotoluene	50	46.7	93	47.2	94	1	70-130/25
106-43-4	p-Chlorotoluene	50	48.8	98	49.1	98	1	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	38.9	78	39.6	79	2	70-130/25
124-48-1	Dibromochloromethane	50	50.8	102	50.8	102	0	70-130/25
106-93-4	1,2-Dibromoethane	50	57.9	116	58.2	116	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	55.6	111	55.7	111	0	70-130/25
541-73-1	1,3-Dichlorobenzene	50	55.5	111	54.8	110	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	55.6	111	54.6	109	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	43.3	87	43.3	87	0	70-130/25
75-34-3	1,1-Dichloroethane	50	46.0	92	45.6	91	1	70-130/25
107-06-2	1,2-Dichloroethane	50	42.0	84	42.0	84	0	70-130/25
75-35-4	1,1-Dichloroethene	50	51.6	103	50.5	101	2	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	48.4	97	49.2	98	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	48.8	98	48.2	96	1	70-130/25
78-87-5	1,2-Dichloropropane	50	50.7	101	50.3	101	1	70-130/25
142-28-9	1,3-Dichloropropane	50	50.3	101	49.1	98	2	70-130/25
594-20-7	2,2-Dichloropropane	50	47.0	94	46.8	94	0	70-130/25
563-58-6	1,1-Dichloropropene	50	52.8	106	51.6	103	2	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	52.4	105	52.6	105	0	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1950-BS	E45773.D	1	06/17/10	DFT	n/a	n/a	MSE1950
MSE1950-BSD	E45774.D	1	06/17/10	DFT	n/a	n/a	MSE1950

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	52.1	104	52.6	105	1	70-130/25
100-41-4	Ethylbenzene	50	57.6	115	57.8	116	0	70-130/25
76-13-1	Freon 113	50	55.1	110	55.0	110	0	70-130/25
87-68-3	Hexachlorobutadiene	50	56.7	113	56.5	113	0	70-130/25
591-78-6	2-Hexanone	50	70.7	141* [a]	69.4	139* [a]	2	70-130/25
98-82-8	Isopropylbenzene	50	58.2	116	58.5	117	1	70-130/25
99-87-6	p-Isopropyltoluene	50	54.6	109	52.7	105	4	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	40.7	81	41.1	82	1	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	39.9	80	39.4	79	1	70-130/25
74-95-3	Methylene bromide	50	50.4	101	50.2	100	0	70-130/25
75-09-2	Methylene chloride	50	48.1	96	48.9	98	2	70-130/25
91-20-3	Naphthalene	50	56.7	113	59.0	118	4	70-130/25
103-65-1	n-Propylbenzene	50	50.0	100	49.7	99	1	70-130/25
100-42-5	Styrene	50	57.7	115	57.3	115	1	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	61.3	123	60.8	122	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	42.7	85	44.6	89	4	70-130/25
127-18-4	Tetrachloroethene	50	66.0	132* [a]	63.2	126	4	70-130/25
109-99-9	Tetrahydrofuran	50	33.2	66* [a]	35.5	71	7	70-130/25
108-88-3	Toluene	50	55.6	111	54.5	109	2	70-130/25
110-57-6	Trans-1,4-Dichloro-2-Butene	50	30.1	60* [a]	31.0	62* [a]	3	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	66.0	132* [a]	67.2	134* [a]	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	58.3	117	60.5	121	4	70-130/25
71-55-6	1,1,1-Trichloroethane	50	47.6	95	46.7	93	2	70-130/25
79-00-5	1,1,2-Trichloroethane	50	52.1	104	52.6	105	1	70-130/25
79-01-6	Trichloroethene	50	55.4	111	53.9	108	3	70-130/25
75-69-4	Trichlorofluoromethane	50	49.9	100	49.3	99	1	70-130/25
96-18-4	1,2,3-Trichloropropane	50	35.3	71	36.9	74	4	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	48.2	96	48.3	97	0	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	49.3	99	49.7	99	1	70-130/25
75-01-4	Vinyl chloride	50	41.0	82	40.5	81	1	70-130/25
	m,p-Xylene	100	120	120	119	119	1	70-130/25
95-47-6	o-Xylene	50	60.1	120	60.1	120	0	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE1950-BS	E45773.D	1	06/17/10	DFT	n/a	n/a	MSE1950
MSE1950-BSD	E45774.D	1	06/17/10	DFT	n/a	n/a	MSE1950

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-13

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	83%	85%	70-130%
2037-26-5	Toluene-D8	93%	91%	70-130%
460-00-4	4-Bromofluorobenzene	81%	80%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M91934-12MS	E45752.D	20	06/17/10	DFT	n/a	n/a	MSE1949
M91934-12MSD	E45753.D	20	06/17/10	DFT	n/a	n/a	MSE1949
M91934-12	E45751.D	20	06/17/10	DFT	n/a	n/a	MSE1949
M91934-12	E45770.D	50	06/17/10	DFT	n/a	n/a	MSE1949

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12

CAS No.	Compound	M91934-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1000	1760	176* [a]	1830	183* [a]	4	70-130/30
107-13-1	Acrylonitrile	ND		1000	3920	392* [b]	4180	418* [b]	6	70-130/30
71-43-2	Benzene	209		1000	1230	102	1230	102	0	70-130/30
108-86-1	Bromobenzene	ND		1000	1100	110	1050	105	5	70-130/30
75-27-4	Bromodichloromethane	ND		1000	885	89	940	94	6	70-130/30
75-25-2	Bromoform	ND		1000	806	81	799	80	1	70-130/30
74-83-9	Bromomethane	ND		1000	885	89	934	93	5	70-130/30
78-93-3	2-Butanone (MEK)	ND		1000	789	79	858	86	8	70-130/30
104-51-8	n-Butylbenzene	ND		1000	1200	120	1190	119	1	70-130/30
135-98-8	sec-Butylbenzene	135		1000	1150	102	1150	102	0	70-130/30
98-06-6	tert-Butylbenzene	ND		1000	993	99	1010	101	2	70-130/30
75-15-0	Carbon disulfide	ND		1000	1010	101	981	98	3	70-130/30
56-23-5	Carbon tetrachloride	ND		1000	983	98	1030	103	5	70-130/30
108-90-7	Chlorobenzene	ND		1000	1160	116	1120	112	4	70-130/30
75-00-3	Chloroethane	ND		1000	956	96	994	99	4	70-130/30
67-66-3	Chloroform	ND		1000	941	94	953	95	1	70-130/30
74-87-3	Chloromethane	ND		1000	889	89	921	92	4	70-130/30
95-49-8	o-Chlorotoluene	ND		1000	1570	157* [a]	1710	171* [a]	9	70-130/30
106-43-4	p-Chlorotoluene	ND		1000	1050	105	1060	106	1	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		1000	844	84	877	88	4	70-130/30
124-48-1	Dibromochloromethane	ND		1000	858	86	844	84	2	70-130/30
106-93-4	1,2-Dibromoethane	ND		1000	1090	109	1070	107	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		1000	1090	109	1070	107	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		1000	1090	109	1050	105	4	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		1000	1060	106	1060	106	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		1000	947	95	1020	102	7	70-130/30
75-34-3	1,1-Dichloroethane	ND		1000	937	94	950	95	1	70-130/30
107-06-2	1,2-Dichloroethane	ND		1000	856	86	903	90	5	70-130/30
75-35-4	1,1-Dichloroethene	ND		1000	1050	105	1020	102	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		1000	979	98	976	98	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		1000	982	98	962	96	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		1000	1030	103	1010	101	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		1000	1080	108	1060	106	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		1000	743	74	743	74	0	70-130/30
563-58-6	1,1-Dichloropropene	ND		1000	1060	106	1050	105	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		1000	913	91	928	93	2	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M91934-12MS	E45752.D	20	06/17/10	DFT	n/a	n/a	MSE1949
M91934-12MSD	E45753.D	20	06/17/10	DFT	n/a	n/a	MSE1949
M91934-12	E45751.D	20	06/17/10	DFT	n/a	n/a	MSE1949
M91934-12	E45770.D	50	06/17/10	DFT	n/a	n/a	MSE1949

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12

CAS No.	Compound	M91934-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		1000	838	84	865	87	3	70-130/30
100-41-4	Ethylbenzene	6330		1000	5780	-55* [c]	5790	-54* [c]	0	70-130/30
76-13-1	Freon 113	ND		1000	1020	102	1040	104	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		1000	964	96	957	96	1	70-130/30
591-78-6	2-Hexanone	ND		1000	605	61* [a]	611	61* [a]	1	70-130/30
98-82-8	Isopropylbenzene	562		1000	1450	89	1460	90	1	70-130/30
99-87-6	p-Isopropyltoluene	67.4		1000	1080	101	1090	102	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		1000	878	88	922	92	5	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1000	744	74	803	80	8	70-130/30
74-95-3	Methylene bromide	ND		1000	994	99	1010	101	2	70-130/30
75-09-2	Methylene chloride	ND		1000	976	98	971	97	1	70-130/30
91-20-3	Naphthalene	885		1000	1610	73	1580	70	2	70-130/30
103-65-1	n-Propylbenzene	1580		1000	1990	41* [a]	1980	40* [a]	1	70-130/30
100-42-5	Styrene	ND		1000	836	84	827	83	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		1000	1120	112	1110	111	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	949	95	968	97	2	70-130/30
127-18-4	Tetrachloroethene	ND		1000	1200	120	1160	116	3	70-130/30
109-99-9	Tetrahydrofuran	ND		1000	1040	104	1890	189* [a]	58* [d]	70-130/30
108-88-3	Toluene	7890		1000	8100	21* [c]	8120	23* [c]	0	70-130/30
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		1000	389	39* [a]	366	37* [a]	6	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		1000	1240	124	1180	118	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		1000	1050	105	1000	100	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		1000	964	96	990	99	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		1000	1030	103	1030	103	0	70-130/30
79-01-6	Trichloroethene	ND		1000	1040	104	1050	105	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		1000	946	95	960	96	1	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		1000	727	73	754	75	4	70-130/30
95-63-6	1,2,4-Trimethylbenzene	4730 [e]		1000	6130	-238* [c]	6280	-223* [c]	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	2610		1000	2540	-7* [c]	2560	-5* [c]	1	70-130/30
75-01-4	Vinyl chloride	ND		1000	990	99	1030	103	4	70-130/30
	m,p-Xylene	19400	E	2000	16300	-155* [c]	16500	-145* [c]	1	70-130/30
95-47-6	o-Xylene	6230		1000	5710	-52* [c]	5640	-59* [c]	1	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M91934-12MS	E45752.D	20	06/17/10	DFT	n/a	n/a	MSE1949
M91934-12MSD	E45753.D	20	06/17/10	DFT	n/a	n/a	MSE1949
M91934-12	E45751.D	20	06/17/10	DFT	n/a	n/a	MSE1949
M91934-12	E45770.D	50	06/17/10	DFT	n/a	n/a	MSE1949

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-11, M91951-12

CAS No.	Surrogate Recoveries	MS	MSD	M91934-12	M91934-12	Limits
1868-53-7	Dibromofluoromethane	84%	85%	87%	87%	70-130%
2037-26-5	Toluene-D8	92%	94%	94%	93%	70-130%
460-00-4	4-Bromofluorobenzene	87%	89%	84%	79%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Associated samples are non-detect for this compound.
(c) Outside control limits due to high level in sample relative to spike amount.
(d) High RPD due to possible matrix interference and/or sample non-homogeneity.
(e) Result is from Run #2.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M92239-1MS	E45788.D	10	06/17/10	DFT	n/a	n/a	MSE1950
M92239-1MSD	E45789.D	10	06/17/10	DFT	n/a	n/a	MSE1950
M92239-1	E45779.D	1	06/17/10	DFT	n/a	n/a	MSE1950
M92239-1	E45790.D	50	06/17/10	DFT	n/a	n/a	MSE1950

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-13

CAS No.	Compound	M92239-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	389		500	605	43* [a]	656	53* [a]	8	70-130/30
107-13-1	Acrylonitrile	ND		500	2050	410* [b]	2020	404* [b]	1	70-130/30
71-43-2	Benzene	ND		500	486	97	474	95	3	70-130/30
108-86-1	Bromobenzene	ND		500	479	96	475	95	1	70-130/30
75-27-4	Bromodichloromethane	ND		500	432	86	413	83	4	70-130/30
75-25-2	Bromoform	ND		500	448	90	468	94	4	70-130/30
74-83-9	Bromomethane	ND		500	440	88	432	86	2	70-130/30
78-93-3	2-Butanone (MEK)	2350 [c]		500	3050	70	3070	74	1	70-130/30
104-51-8	n-Butylbenzene	ND		500	480	96	464	93	3	70-130/30
135-98-8	sec-Butylbenzene	ND		500	485	97	475	95	2	70-130/30
98-06-6	tert-Butylbenzene	ND		500	418	84	406	81	3	70-130/30
75-15-0	Carbon disulfide	ND		500	385	77	383	77	1	70-130/30
56-23-5	Carbon tetrachloride	ND		500	470	94	441	88	6	70-130/30
108-90-7	Chlorobenzene	ND		500	578	116	570	114	1	70-130/30
75-00-3	Chloroethane	ND		500	438	88	421	84	4	70-130/30
67-66-3	Chloroform	ND		500	441	88	419	84	5	70-130/30
74-87-3	Chloromethane	ND		500	415	83	418	84	1	70-130/30
95-49-8	o-Chlorotoluene	ND		500	415	83	406	81	2	70-130/30
106-43-4	p-Chlorotoluene	ND		500	424	85	414	83	2	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	343	69* [a]	329	66* [a]	4	70-130/30
124-48-1	Dibromochloromethane	ND		500	448	90	442	88	1	70-130/30
106-93-4	1,2-Dibromoethane	ND		500	534	107	533	107	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		500	515	103	502	100	3	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		500	503	101	485	97	4	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		500	510	102	502	100	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		500	450	90	427	85	5	70-130/30
75-34-3	1,1-Dichloroethane	0.66		500	438	87	420	84	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		500	401	80	380	76	5	70-130/30
75-35-4	1,1-Dichloroethene	ND		500	507	101	484	97	5	70-130/30
156-59-2	cis-1,2-Dichloroethene	14.7		500	486	94	475	92	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		500	469	94	458	92	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		500	474	95	455	91	4	70-130/30
142-28-9	1,3-Dichloropropane	ND		500	480	96	470	94	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		500	440	88	405	81	8	70-130/30
563-58-6	1,1-Dichloropropene	ND		500	469	94	448	90	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		500	421	84	426	85	1	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M92239-1MS	E45788.D	10	06/17/10	DFT	n/a	n/a	MSE1950
M92239-1MSD	E45789.D	10	06/17/10	DFT	n/a	n/a	MSE1950
M92239-1	E45779.D	1	06/17/10	DFT	n/a	n/a	MSE1950
M92239-1	E45790.D	50	06/17/10	DFT	n/a	n/a	MSE1950

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-13

CAS No.	Compound	M92239-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		500	380	76	391	78	3	70-130/30
100-41-4	Ethylbenzene	ND		500	536	107	518	104	3	70-130/30
76-13-1	Freon 113	ND		500	534	107	502	100	6	70-130/30
87-68-3	Hexachlorobutadiene	ND		500	532	106	494	99	7	70-130/30
591-78-6	2-Hexanone	ND		500	346	69* [a]	366	73	6	70-130/30
98-82-8	Isopropylbenzene	ND		500	457	91	442	88	3	70-130/30
99-87-6	p-Isopropyltoluene	ND		500	488	98	476	95	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		500	371	74	373	75	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	331	66* [a]	344	69* [a]	4	70-130/30
74-95-3	Methylene bromide	ND		500	477	95	471	94	1	70-130/30
75-09-2	Methylene chloride	ND		500	468	94	454	91	3	70-130/30
91-20-3	Naphthalene	ND		500	529	106	489	98	8	70-130/30
103-65-1	n-Propylbenzene	ND		500	444	89	432	86	3	70-130/30
100-42-5	Styrene	ND		500	529	106	521	104	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		500	571	114	551	110	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	395	79	397	79	1	70-130/30
127-18-4	Tetrachloroethene	66.0		500	663	119	645	116	3	70-130/30
109-99-9	Tetrahydrofuran	5210	E	500	5560	70	5610	80	1	70-130/30
108-88-3	Toluene	ND		500	521	104	500	100	4	70-130/30
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		500	231	46* [a]	262	52* [a]	13	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		500	637	127	569	114	11	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		500	553	111	528	106	5	70-130/30
71-55-6	1,1,1-Trichloroethane	3.9		500	459	91	421	83	9	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		500	481	96	479	96	0	70-130/30
79-01-6	Trichloroethene	22.0		500	537	103	499	95	7	70-130/30
75-69-4	Trichlorofluoromethane	ND		500	454	91	426	85	6	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		500	326	65* [a]	334	67* [a]	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		500	431	86	429	86	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		500	438	88	427	85	3	70-130/30
75-01-4	Vinyl chloride	ND		500	442	88	421	84	5	70-130/30
	m,p-Xylene	ND		1000	1130	113	1100	110	3	70-130/30
95-47-6	o-Xylene	ND		500	570	114	561	112	2	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M92239-1MS	E45788.D	10	06/17/10	DFT	n/a	n/a	MSE1950
M92239-1MSD	E45789.D	10	06/17/10	DFT	n/a	n/a	MSE1950
M92239-1	E45779.D	1	06/17/10	DFT	n/a	n/a	MSE1950
M92239-1	E45790.D	50	06/17/10	DFT	n/a	n/a	MSE1950

The QC reported here applies to the following samples: **Method:** SW846 8260B

M91951-13

CAS No.	Surrogate Recoveries	MS	MSD	M92239-1	M92239-1	Limits
1868-53-7	Dibromofluoromethane	87%	84%	87%	84%	70-130%
2037-26-5	Toluene-D8	95%	92%	93%	95%	70-130%
460-00-4	4-Bromofluorobenzene	77%	78%	77%	77%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Associated samples are non-detect for this compound.
(c) Result is from Run #2.

Volatile Internal Standard Area Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Check Std:	MSE1949-CC1937	**Injection Date:**	06/16/10
Lab File ID:	E45746.D	**Injection Time:**	23:53
Instrument ID:	GCMSE	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	138493	9.19	205975	10.06	92232	13.32	89150	15.88	37318	6.71
Upper Limit [a]	276986	9.69	411950	10.56	184464	13.82	178300	16.38	74636	7.21
Lower Limit [b]	69247	8.69	102988	9.56	46116	12.82	44575	15.38	18659	6.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSE1949-BS	141641	9.18	211451	10.06	93396	13.31	90996	15.87	37848	6.70
MSE1949-BSD	143393	9.19	215013	10.06	94170	13.32	90953	15.87	39239	6.71
MSE1949-MB	136635	9.19	201080	10.07	87658	13.32	93693	15.88	37377	6.71
M91934-12	136958	9.19	206536	10.07	89234	13.32	87436	15.88	38939	6.71
M91934-12MS	147844	9.19	221644	10.06	97975	13.32	87030	15.87	41286	6.71
M91934-12MSD	137126	9.19	203803	10.07	91296	13.32	80916	15.88	43151	6.71
ZZZZZZ	121971	9.19	183948	10.07	82152	13.32	81935	15.88	38903	6.71
ZZZZZZ	136342	9.19	198407	10.07	87994	13.32	94212	15.88	38953	6.71
ZZZZZZ	146361	9.20	206566	10.06	88155	13.32	95078	15.87	40734	6.72
ZZZZZZ	136158	9.19	200006	10.07	82735	13.33	90810	15.88	38611	6.71
ZZZZZZ	136422	9.19	201197	10.07	83829	13.32	91204	15.88	39877	6.72
ZZZZZZ	133122	9.19	194977	10.07	83850	13.32	88769	15.88	38709	6.71
ZZZZZZ	133335	9.20	194362	10.07	86367	13.32	88205	15.88	38875	6.72
M91951-1	136299	9.19	195725	10.07	84636	13.32	89470	15.88	41700	6.71
M91951-2	132933	9.19	194017	10.07	84481	13.33	89458	15.88	38693	6.72
M91951-4	132956	9.19	196731	10.07	84908	13.32	90142	15.88	43289	6.71
M91951-7	132750	9.19	195070	10.07	85468	13.32	91390	15.88	34186	6.72
M91951-8	134196	9.19	199987	10.07	85216	13.33	89192	15.88	36397	6.71
M91951-9	130833	9.19	196706	10.07	84543	13.32	91202	15.88	34940	6.71
M91951-10	132900	9.19	197625	10.07	84325	13.32	93002	15.88	31771	6.71
M91951-11	133873	9.20	197068	10.07	83065	13.32	92491	15.88	34007	6.71
M91951-12	134416	9.19	197213	10.07	83692	13.33	93245	15.88	42969	6.71
M91934-12	136797	9.19	205153	10.07	87734	13.33	95198	15.88	34144	6.71

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Check Std:	MSE1950-CC1937	**Injection Date:**	06/17/10
Lab File ID:	E45772.D	**Injection Time:**	12:22
Instrument ID:	GCMSE	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	138277	9.19	207469	10.07	90658	13.33	93967	15.87	36797	6.72
Upper Limit [a]	276554	9.69	414938	10.57	181316	13.83	187934	16.37	73594	7.22
Lower Limit [b]	69139	8.69	103735	9.57	45329	12.83	46984	15.37	18399	6.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSE1950-BS	147403	9.19	216076	10.07	96254	13.33	97354	15.87	39755	6.71
MSE1950-BSD	143366	9.19	214427	10.06	94563	13.33	95412	15.87	39771	6.71
MSE1950-MB	139326	9.19	206949	10.06	88433	13.33	96033	15.88	39494	6.71
ZZZZZZ	136663	9.18	201960	10.06	85854	13.32	94267	15.88	32848	6.70
M91951-13	140161	9.19	206744	10.06	87269	13.32	97446	15.87	36892	6.71
M92239-1	139132	9.18	203168	10.06	86122	13.32	94432	15.87	34387	6.71
ZZZZZZ	135031	9.18	198674	10.06	83502	13.31	96085	15.87	36605	6.70
ZZZZZZ	138643	9.18	204800	10.06	86459	13.31	97087	15.87	38122	6.70
ZZZZZZ	136453	9.19	200796	10.06	84186	13.32	94368	15.87	35621	6.71
ZZZZZZ	134431	9.19	201113	10.06	83243	13.32	96050	15.87	36460	6.71
ZZZZZZ	138416	9.19	202850	10.06	85045	13.32	94675	15.87	36324	6.71
ZZZZZZ	132779	9.19	198024	10.05	83414	13.31	94693	15.87	36901	6.70
ZZZZZZ	135211	9.18	201630	10.06	84353	13.31	94108	15.87	33845	6.70
M92239-1MS	139133	9.18	205832	10.05	91333	13.31	98691	15.86	35797	6.70
M92239-1MSD	144894	9.18	214859	10.06	95171	13.32	102837	15.87	40234	6.70
M92239-1	145306	9.18	212994	10.06	87978	13.31	99784	15.87	38676	6.70
ZZZZZZ	139911	9.18	204693	10.05	86125	13.31	96853	15.87	38107	6.70
ZZZZZZ	142227	9.18	201941	10.05	85855	13.31	96025	15.86	39268	6.70
ZZZZZZ	138186	9.17	204413	10.05	87034	13.31	97809	15.86	37743	6.70
ZZZZZZ	156510	9.18	227088	10.05	97097	13.31	98882	15.87	41976	6.69
ZZZZZZ	142183	9.18	205525	10.05	89119	13.31	86073	15.86	48106	6.69
ZZZZZZ	116863	9.17	172092	10.05	76489	13.31	83992	15.86	47695	6.70

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M91951-1	E45761.D	87.0	93.0	81.0
M91951-2	E45762.D	88.0	92.0	79.0
M91951-4	E45763.D	91.0	95.0	81.0
M91951-7	E45764.D	88.0	96.0	78.0
M91951-8	E45765.D	88.0	90.0	81.0
M91951-9	E45766.D	90.0	91.0	79.0
M91951-10	E45767.D	89.0	93.0	79.0
M91951-11	E45768.D	88.0	95.0	78.0
M91951-12	E45769.D	89.0	97.0	78.0
M91951-13	E45778.D	85.0	94.0	77.0
M91934-12MS	E45752.D	84.0	92.0	87.0
M91934-12MSD	E45753.D	85.0	94.0	89.0
M92239-1MS	E45788.D	87.0	95.0	77.0
M92239-1MSD	E45789.D	84.0	92.0	78.0
MSE1949-BS	E45747.D	85.0	95.0	83.0
MSE1949-BSD	E45748.D	86.0	92.0	84.0
MSE1949-MB	E45750.D	88.0	95.0	80.0
MSE1950-BS	E45773.D	83.0	93.0	81.0
MSE1950-BSD	E45774.D	85.0	91.0	80.0
MSE1950-MB	E45776.D	88.0	94.0	79.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21573-MB	BC40933.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-12, M91951-13

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	93%	50-149%

Method Blank Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21574-MB	YZ57905.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470

The QC reported here applies to the following samples: **Method:** SW846 8082

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-12, M91951-13

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	71%	30-150%
877-09-8	Tetrachloro-m-xylene	56%	30-150%
2051-24-3	Decachlorobiphenyl	48%	30-150%
2051-24-3	Decachlorobiphenyl	48%	30-150%

Blank Spike Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21573-BS	BC40935.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-12, M91951-13

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	CT-DRO (C9-C36)	0.7	0.605	86	60-120

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	90%	50-149%

Blank Spike Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21574-BS	YZ57907.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470

The QC reported here applies to the following samples: **Method:** SW846 8082

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-12, M91951-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	2.0	100	40-140
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	2	1.9	95	40-140
37324-23-5	Aroclor 1262		ND		40-140
11100-14-4	Aroclor 1268		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	83%	30-150%
877-09-8	Tetrachloro-m-xylene	79%	30-150%
2051-24-3	Decachlorobiphenyl	62%	30-150%
2051-24-3	Decachlorobiphenyl	61%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21573-MS	BC40937.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043
OP21573-MSD	BC40939.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043
M92049-6	BC40941.D	1	06/17/10	KD	06/09/10	OP21573	GBC2043

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-12, M91951-13

CAS No.	Compound	M92049-6 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	ND		0.7	0.492	70	0.491	70	0	50-129/26

CAS No.	Surrogate Recoveries	MS	MSD	M92049-6	Limits
3386-33-2	1-Chlorooctadecane	92%	100%	86%	50-149%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21574-MS	YZ57908.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470
OP21574-MSD	YZ57909.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470
M92049-5	YZ57910.D	1	06/10/10	CZ	06/09/10	OP21574	GYZ2470

The QC reported here applies to the following samples: **Method:** SW846 8082

M91951-1, M91951-2, M91951-4, M91951-7, M91951-8, M91951-9, M91951-10, M91951-12, M91951-13

CAS No.	Compound	M92049-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2	2.1	105	2.2	110	5	40-140/50
11104-28-2	Aroclor 1221	ND			ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND			ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND			ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND			ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	ND			ND		ND		nc	40-140/50
11096-82-5	Aroclor 1260	ND		2	2.0	100	2.1	105	5	40-140/50
37324-23-5	Aroclor 1262	ND			ND		ND		nc	40-140/50
11100-14-4	Aroclor 1268	ND			ND		ND		nc	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M92049-5	Limits
877-09-8	Tetrachloro-m-xylene	84%	83%	84%	30-150%
877-09-8	Tetrachloro-m-xylene	68%	62%	76%	30-150%
2051-24-3	Decachlorobiphenyl	64%	65%	68%	30-150%
2051-24-3	Decachlorobiphenyl	63%	66%	68%	30-150%

Semivolatile Surrogate Recovery Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: CT-ETPH 7/06 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
M91951-1	BC41025.D	61.0
M91951-2	BC41027.D	83.0
M91951-4	BC41029.D	78.0
M91951-7	BC41031.D	66.0
M91951-8	BC41033.D	71.0
M91951-9	BC41037.D	82.0
M91951-10	BC41039.D	73.0
M91951-12	BC41041.D	96.0
M91951-13	BC41043.D	50.0
OP21573-BS	BC40935.D	90.0
OP21573-MB	BC40933.D	93.0
OP21573-MS	BC40937.D	92.0
OP21573-MSD	BC40939.D	100.0

Surrogate Compounds	Recovery Limits
S1 = 1-Chlorooctadecane	50-149%

(a) Recovery from GC signal #1

Semivolatile Surrogate Recovery Summary

Job Number: M91951
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8082 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
M91951-1	YZ58105.D	67.0	68.0	60.0	61.0
M91951-2	YZ58107.D	83.0	85.0	80.0	81.0
M91951-4	YZ58108.D	81.0	74.0	62.0	63.0
M91951-7	YZ58109.D	72.0	77.0	66.0	67.0
M91951-8	YZ58110.D	85.0	88.0	72.0	73.0
M91951-9	YZ58111.D	86.0	85.0	72.0	72.0
M91951-10	YZ58112.D	91.0	93.0	85.0	86.0
M91951-12	YZ58113.D	90.0	84.0	67.0	67.0
M91951-13	YZ58114.D	90.0	91.0	55.0	55.0
OP21574-BS	YZ57907.D	83.0	79.0	62.0	61.0
OP21574-MB	YZ57905.D	71.0	56.0	48.0	48.0
OP21574-MS	YZ57908.D	84.0	68.0	64.0	63.0
OP21574-MSD	YZ57909.D	83.0	62.0	65.0	66.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15391
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/07/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.022	.048	-0.036	<0.20

Associated samples MP15391: M91951-3, M91951-5, M91951-6, M91951-1A, M91951-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15391
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/07/10 06/07/10

Metal	M91867-6 Original	MS	Spikelot HGRWS1	% Rec	QC Limits	M91867-6 Original	DUP	RPD	QC Limits
Mercury	0.0	3.1	3	103.3	75-125	0.0	0.0	NC	0-20

Associated samples MP15391: M91951-3, M91951-5, M91951-6, M91951-1A, M91951-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15391
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/07/10 06/07/10

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	2.8	3	93.3	80-120	3.1	3	103.3	10.2	20

Associated samples MP15391: M91951-3, M91951-5, M91951-6, M91951-1A, M91951-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.3

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15401
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/08/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	7	14		
Antimony	6.0	.79	1.2		
Arsenic	10	.57	1.9	-0.20	<10
Barium	200	2	3.7	-0.30	<200
Beryllium	4.0	.15	.2		
Boron	100	1.2	1.5		
Cadmium	4.0	.12	.12	0.0	<4.0
Calcium	5000	15	39		
Chromium	10	.42	.5	-0.30	<10
Cobalt	50	.17	.3		
Copper	25	.81	.8	1.3	<25
Gold	50	.97	1.7		
Iron	100	2.8	4.1		
Lead	5.0	.57	1.5	-1.2	<5.0
Magnesium	5000	25	32		
Manganese	15	.12	.9		
Molybdenum	100	.24	.6		
Nickel	40	.12	.3	0.40	<40
Palladium	50	1.2	2.5		
Platinum	50	4.4	7		
Potassium	5000	29	30		
Selenium	10	1.3	1.7	1.5	<10
Silicon	100	2.1	7.2		
Silver	5.0	.49	.5	-0.40	<5.0
Sodium	5000	27	31		
Strontium	10	.06	.3		
Thallium	10	.56	.7		
Tin	100	.31	.4		
Titanium	50	.4	.5		
Tungsten	100	3.4	12		
Vanadium	30	.63	1.1		
Zinc	20	.72	2	0.30	<20

Associated samples MP15401: M91951-3, M91951-5, M91951-6, M91951-14, M91951-1A, M91951-7A, M91951-8A, M91951-9A, M91951-10A

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15401
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15401
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Metal	M91951-3 Original	MS	Spikelot MPICP	% Rec	QC Limits	M91951-3 Original	DUP	RPD	QC Limits
Prep Date:				06/08/10				06/08/10	
Aluminum									
Antimony									
Arsenic	0.0	565	500	113.0	75-125	0.0	0.0	NC	0-20
Barium	94.3	2240	2000	107.3	75-125	94.3	95.8	1.6	0-20
Beryllium									
Boron									
Cadmium	191	757	500	113.2	75-125	191	193	1.0	0-20
Calcium									
Chromium	7.6	515	500	101.5	75-125	7.6	7.5	1.3	0-20
Cobalt									
Copper	269	832	500	112.6	75-125	269	273	1.5	0-20
Gold									
Iron									
Lead	0.0	986	1000	98.6	75-125	0.0	0.0	NC	0-20
Magnesium									
Manganese									
Molybdenum									
Nickel	2580	3110	500	106.0	75-125	2580	2620	1.5	0-20
Palladium									
Platinum									
Potassium									
Selenium	6.1	557	500	110.2	75-125	6.1	5.9	3.3	0-20
Silicon									
Silver	0.0	229	200	114.5	75-125	0.0	0.0	NC	0-20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc	0.0	514	500	102.8	75-125	0.0	0.0	NC	0-20

Associated samples MP15401: M91951-3, M91951-5, M91951-6, M91951-14, M91951-1A, M91951-7A, M91951-8A, M91951-9A, M91951-10A

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15401
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

7.2.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15401
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			06/08/10					06/08/10	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	484	500	96.8	80-120	525	500	105.0	8.1	20
Barium	2100	2000	105.0	80-120	2130	2000	106.5	1.4	20
Beryllium									
Boron									
Cadmium	553	500	110.6	80-120	528	500	105.6	4.6	20
Calcium									
Chromium	513	500	102.6	80-120	518	500	103.6	1.0	20
Cobalt									
Copper	517	500	103.4	80-120	532	500	106.4	2.9	20
Gold									
Iron									
Lead	1060	1000	106.0	80-120	1020	1000	102.0	3.8	20
Magnesium									
Manganese									
Molybdenum									
Nickel	539	500	107.8	80-120	516	500	103.2	4.4	20
Palladium									
Platinum									
Potassium									
Selenium	490	500	98.0	80-120	515	500	103.0	5.0	20
Silicon									
Silver	209	200	104.5	80-120	213	200	106.5	1.9	20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc	546	500	109.2	80-120	518	500	103.6	5.3	20

Associated samples MP15401: M91951-3, M91951-5, M91951-6, M91951-14, M91951-1A, M91951-7A, M91951-8A, M91951-9A, M91951-10A

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15401
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15401
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/08/10

Metal	M91951-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	94.3	94.4	0.1	0-10
Beryllium				
Boron				
Cadmium	191	183	4.1	0-10
Calcium				
Chromium	7.60	6.50	14.5 (a)	0-10
Cobalt				
Copper	269	254	5.4	0-10
Gold				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	2580	2610	1.0	0-10
Palladium				
Platinum				
Potassium				
Selenium	6.10	7.00	14.8 (a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	0.00	0.00	NC	0-10

Associated samples MP15401: M91951-3, M91951-5, M91951-6, M91951-14, M91951-1A, M91951-7A, M91951-8A, M91951-9A, M91951-10A

SERIAL DILUTION RESULTS SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15401
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15407
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/09/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.022	.048	0.028	<0.20

Associated samples MP15407: M91951-14, M91951-8A, M91951-9A, M91951-10A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.3.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15407 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/09/10 06/09/10

Metal	M91951-8A Original	MS	Spikelot HGRWS1	% Rec	QC Limits	M91951-8A Original	DUP	RPD	QC Limits
Mercury	0.032	2.8	3	92.3	75-125	0.032	0.0	200.0(a)	0-20

Associated samples MP15407: M91951-14, M91951-8A, M91951-9A, M91951-10A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91951
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15407
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/09/10 06/09/10

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	3.0	3	100.0	80-120	2.8	3	93.3	6.9	20

Associated samples MP15407: M91951-14, M91951-8A, M91951-9A, M91951-10A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

ANALYTICAL REPORT

Job Number: 220-12855-3

Job Description: UTC-PWEH Building A

For:
Loureiro Engineering Associates, P.C.
100 Northwest Drive
Plainville, CT 06062

Attention: Ms. Robin L McKinney

Approved for release.
Cheryl Cascella
Data Review Analyst I
8/19/2010 2:03 PM

Designee for
Jill M Duhancik
Customer Service Manager
jill.duhancik@testamericainc.com
08/19/2010

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**TestAmerica Connecticut**	***Client:***	**LEA**
Project Location:	**UTC PWEH Building A**	***Project Number:***	**220-12855-3**
Laboratory Sample ID (s):	**27**	***Sampling Date (s):***	**7/27/10**
RCP Method:	**8082**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes
1A	Were the method specified preservation and holding time requirements met?	Yes
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes
3	Were samples received at an appropriate temperature (<6°C)?	Yes
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes
	b) Were these reporting limits met? (Refer to Report Narrative)	Yes
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Doreen Nemeth Position: Quality Assurance Manager

Printed Name: **Doreen Nemeth** Date: August 19, 2010

The certification form has been electronically signed and approved.

Updated November 2007

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THE LEADER IN ENVIRONMENTAL TESTING

CTDEP PH-0497

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CASE NARRATIVE

Client: Loureiro Engineering Associates, P.C.

Project: UTC-PWEH Building A

Report Number: 220-12855-3

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

As per the State of Connecticut Reasonable Confidence Protocol (CTRCP), a Laboratory Analysis QA/QC Certification Form has been provided with this report.

See the attached template for CTRSR Exceedances.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/27/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 1.5C and 5.4C.

All analyses listed in this report comply with the UTC, Analytical Minimum Standards for Laboratories- June 2008, Rev 4'.

All other samples were received in good condition within temperature requirements.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample 220-12855-27 was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The sample was prepared on 07/28/2010 and analyzed on 08/04/2010.

The RCP has been followed for PCB-8082 analysis by reporting the higher of the two results for dual column analysis of PCB's by Method 8082 for analytes having less than 40% RPD between the two columns. This is in opposition to the UTC Minimum Standards requirements.

No difficulties were encountered during the polychlorinated biphenyls (PCBs) analysis.

All quality control parameters were within the acceptance limits.

CTDEP RCP/RSR Laboratory Detection Limit Exceedances

CTRCP - Aqueous Volatile Low Detection Limit Exceedances

The following Connecticut Reasonable Confidence Protocol (CTRCP) aqueous Volatile method 8260 low detection limits could not be achieved using routine laboratory reporting limits (RLs): Acrylonitrile, Bromomethane, Chloroethane, Dichlorodifluoromethane, Hexachlorobutadiene, Methylene chloride.

Connecticut Remediation Standard Exceedances

The following Connecticut Remediation Standard Regulations (CTRSRs) detection limits could not be achieved using routine laboratory reporting limits (RLs):

Volatiles 8260

Groundwater / Surface Water – GWPC Volatile Organic Compounds: Acrolein*, Acrylonitrile, 1,4-Dichlorobutene, Ethylene dibromide, Hexachlorobutadiene**

Groundwater / Surface Water – Proposed RES GWVC Volatile Organic Compound: Ethylene dibromide.

Soil GB PMC: Acrolein*

* Note that Acrolein is not an analyte required under the CTRCP 8260 Analyte List, Table 1B
** Note that Hexachlorobutadiene is also a SVOA CTRCP target compound. The CTRSR limit for this compound can be achieved by the 8270 SemiVolatile SIM method.

SemiVolatile 8270

Groundwater / Surface Water – GWPC SemiVolatile Organic Compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Pentachloronitrobenzene, Pyridine, 1,2,4,5-Tetrachlorobenzene.

Groundwater / Surface Water – SWPC SemiVolatile Organic Compounds: Dibenzo(a,h)anthracene, Hexachlorobenzene, Phenanthrene.

Soil GA/GAA PMC: 2,4-Dinitrophenol

Soil GB PMC: Pyridine, Pentachloronitrobenzene

Pesticide 8081

Groundwater / Surface Water – GWPC Pesticides: Aldrin, BHC-beta, Chlordane, Dieldrin

Groundwater / Surface Water – SWPC Pesticides: Chlordane, Toxaphene.

PCB 8082

Soil GA/GAA PMC and GB PMC (TCLP Only): Total PCBs

128 Long Hill Cross Road Shelton, CT 06484 tel 203.929.8140 fax 203.929.8142 www.testamericainc.com

Metals 6010

Ground / Surface Water – GWPC: Antimony, Arsenic, Beryllium, Thallium

Groundwater / Surface Water – SWPC: Arsenic, Beryllium, Lead

Soil GA/GAA PMC (TCLP only): Antimony, Arsenic, Beryllium, Thallium

All other Connecticut Remediation Standard Regulation (CTRSRs) can be achieved by TestAmerica Connecticut. Elevated detection limits may occur as a result of sample specific dilutions, matrix interference, or dry weight correction for soil samples.

Client: Loureiro Engineering Associates, P.C. Job Number: 220-12855-3

Laboratory Chronicle

Lab ID: 220-12855-27 **Client ID: 1149712**

Sample Date/Time: 07/27/2010 11:17 Received Date/Time: 07/27/2010 18:53

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	220-12855-A-27-A		220-41271	220-40993	07/28/2010 10:36	1	TAL CT	GHP
A:8082	220-12855-A-27-A		220-41271	220-40993	08/04/2010 13:15	1	TAL CT	TP

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	MB 220-40993/1-A		220-41271	220-40993	07/28/2010 10:36	1	TAL CT	GHP
A:8082	MB 220-40993/1-A		220-41271	220-40993	08/04/2010 11:02	1	TAL CT	TP

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	LCS 220-40993/2-A		220-41271	220-40993	07/28/2010 10:36	1	TAL CT	GHP
A:8082	LCS 220-40993/2-A		220-41271	220-40993	08/04/2010 11:21	1	TAL CT	TP

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	LCSD 220-40993/3-A		220-41271	220-40993	07/28/2010 10:36	1	TAL CT	GHP
A:8082	LCSD 220-40993/3-A		220-41271	220-40993	08/04/2010 11:40	1	TAL CT	TP

Lab References:

TAL CT = TestAmerica Connecticut

METHOD SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-12855-3

Description	Lab Location	Method	Preparation Method
Matrix Water			
Polychlorinated Biphenyls (PCBs) by GC	TAL CT	SW846 8082	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CT		SW846 3510C

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-12855-3

Method	Analyst	Analyst ID
SW846 8082	Puccino, Tracy	TP

SAMPLE SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-12855-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-12855-27	1149712	Water	07/27/2010 1117	07/27/2010 1853

SAMPLE RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-12855-3

Client Sample ID: **1149712**

Lab Sample ID: 220-12855-27 Date Sampled: 07/27/2010 1117
Client Matrix: Water Date Received: 07/27/2010 1853

8082 Polychlorinated Biphenyls (PCBs) by GC

Method:	8082	Analysis Batch: 220-41271		Instrument ID:	GC9
Preparation:	3510C	Prep Batch: 220-40993		Initial Weight/Volume:	940 mL
Dilution:	1.0			Final Weight/Volume:	10.00 mL
Date Analyzed:	08/04/2010 1315			Injection Volume:	1 uL
Date Prepared:	07/28/2010 1036			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
PCB-1016	ND		0.53
PCB-1221	ND		0.53
PCB-1232	ND		0.53
PCB-1242	ND		0.53
PCB-1248	ND		0.53
PCB-1254	ND		0.53
PCB-1260	ND		0.53
PCB-1262	ND		0.53
PCB-1268	ND		0.53

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	95		30 - 150
DCB Decachlorobiphenyl	93		30 - 150

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-12855-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 220-40993					
LCS 220-40993/2-A	Lab Control Sample	T	Water	3510C	
LCSD 220-40993/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 220-40993/1-A	Method Blank	T	Water	3510C	
220-12855-27	1149712	T	Water	3510C	
Analysis Batch:220-41271					
LCS 220-40993/2-A	Lab Control Sample	T	Water	8082	220-40993
LCSD 220-40993/3-A	Lab Control Sample Duplicate	T	Water	8082	220-40993
MB 220-40993/1-A	Method Blank	T	Water	8082	220-40993
220-12855-27	1149712	T	Water	8082	220-40993

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-12855-3

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by GC

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX2 %Rec	DCB2 %Rec
220-12855-27	1149712	95	93
MB 220-40993/1-A		84	71
LCS 220-40993/2-A		84	59
LCSD 220-40993/3-A		81	58

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	30-150
DCB = DCB Decachlorobiphenyl	30-150

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-12855-3

Method Blank - Batch: 220-40993

Method: 8082
Preparation: 3510C

Lab Sample ID: MB 220-40993/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/04/2010 1102
Date Prepared: 07/28/2010 1036

Analysis Batch: 220-41271
Prep Batch: 220-40993
Units: ug/L

Instrument ID: GC9
Lab File ID: D9080058.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.00 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1242	ND		0.50
PCB-1248	ND		0.50
PCB-1254	ND		0.50
PCB-1260	ND		0.50
PCB-1262	ND		0.50
PCB-1268	ND		0.50

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	84	30 - 150
DCB Decachlorobiphenyl	71	30 - 150

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-12855-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 220-40993

Method: 8082
Preparation: 3510C

LCS Lab Sample ID: LCS 220-40993/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/04/2010 1121
Date Prepared: 07/28/2010 1036

Analysis Batch: 220-41271
Prep Batch: 220-40993
Units: ug/L

Instrument ID: GC9
Lab File ID: D9080059.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.00 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 220-40993/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/04/2010 1140
Date Prepared: 07/28/2010 1036

Analysis Batch: 220-41271
Prep Batch: 220-40993
Units: ug/L

Instrument ID: GC9
Lab File ID: D9080060.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.00 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
PCB-1016	87	84	40 - 140	3	50		
PCB-1260	80	80	40 - 140	0	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	84	81	30 - 150
DCB Decachlorobiphenyl	59	58	30 - 150

Login Sample Receipt Check List

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-12855-3

Login Number: 12855
Creator: Teixeira, Maria L
List Number: 1

List Source: TestAmerica Connecticut

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.4C/1.5C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-12855-3

Client Sample ID: **1149712**

Lab Sample ID: 220-12855-27

Client Matrix: Water

Date Sampled: 07/27/2010 1117

Date Received: 07/27/2010 1853

8082 Polychlorinated Biphenyls (PCBs) by GC

Method:	8082	Analysis Batch: 220-41271		Instrument ID:	GC9
Preparation:	3510C	Prep Batch: 220-40993		Initial Weight/Volume:	940 mL
Dilution:	1.0			Final Weight/Volume:	10.00 mL
Date Analyzed:	08/04/2010 1315			Injection Volume:	1 uL
Date Prepared:	07/28/2010 1036			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.53	U	0.053	0.53
PCB-1221	0.53	U	0.053	0.53
PCB-1232	0.53	U	0.053	0.53
PCB-1242	0.53	U	0.053	0.53
PCB-1248	0.53	U	0.053	0.53
PCB-1254	0.53	U	0.087	0.53
PCB-1260	0.53	U	0.087	0.53
PCB-1262	0.53	U	0.087	0.53
PCB-1268	0.53	U	0.087	0.53

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	95		30 - 150
DCB Decachlorobiphenyl	93		30 - 150

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

08/17/10

Technical Report for

Loureiro Eng. Associates

Pratt & Whitney, East Hartford

TASK #MI197

Accutest Job Number: M93188

Sampling Date: 07/27/10

Report to:

LEA

rlmckinney@loureiro.com

ATTN: Robin McKinney

Total number of pages in report: **16**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

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Test results relate only to samples analyzed.

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Sample Summary

Loureiro Eng. Associates

Job No: M93188

Pratt & Whitney, East Hartford
Project No: TASK #MI197

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M93188-1	07/27/10	11:17	HG	07/27/10	AQ	Ground Water	1149711

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Loureiro Eng. Associates	**Job No**	M93188
Site:	Pratt & Whitney, East Hartford	**Report Date**	8/17/2010 4:54:09 PM

1 Sample(s) were collected on 07/27/2010 and were received at Accutest on 07/27/2010 properly preserved, at 2.3 Deg. C and intact. These Samples received an Accutest job number of M93188. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP22157

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M93142-14MS, M93142-14MSD were used as the QC samples indicated.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M93188).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1149711		
Lab Sample ID:	M93188-1	**Date Sampled:**	07/27/10
Matrix:	AQ - Ground Water	**Date Received:**	07/27/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	Pratt & Whitney, East Hartford		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF79256.D	1	08/03/10	SL	07/31/10	OP22157	GEF3536
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.27	ug/l	
11104-28-2	Aroclor 1221	ND	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.27	ug/l	
53469-21-9	Aroclor 1242	ND	0.27	ug/l	
12672-29-6	Aroclor 1248	ND	0.27	ug/l	
11097-69-1	Aroclor 1254	ND	0.27	ug/l	
11096-82-5	Aroclor 1260	ND	0.27	ug/l	
37324-23-5	Aroclor 1262	ND	0.27	ug/l	
11100-14-4	Aroclor 1268	ND	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		30-150%
877-09-8	Tetrachloro-m-xylene	96%		30-150%
2051-24-3	Decachlorobiphenyl	91%		30-150%
2051-24-3	Decachlorobiphenyl	81%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (CT)
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

Parameter Certification Exceptions

Job Number: M93188
Account: LEA Loureiro Eng. Associates
Project: Pratt & Whitney, East Hartford

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Aroclor 1262	37324-23-5	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD
Aroclor 1268	11100-14-4	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M93188
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Loureiro Engineering
ADDRESS: 100 Northwest Dr.
CITY: Plainville STATE: CT ZIP: 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: East Hartford GW
LOCATION: P+W, East Hartford
PROJECT NO.: 88UT920
FAX #:

ANALYTICAL INFORMATION

PCBs 8082

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	PCBs 8082	LAB USE ONLY
-1	1149711	7/27/10	1117	HG	GW	2						X	X	
														19EE

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

*Provide CT RCP analytical lists for PCBs and provide CT RCP report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	7/27/10 1230	1. [signature]	2. B.C	7-27-10 17:45	2. B.C
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ✓ TEMPERATURE 23 C

4.2 4

M93188: Chain of Custody
Page 1 of 1

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Loureiro Eng. Associates**

Project Location: **Pratt & Whitney, East Hartford** **Project Number:** **88UT920**

Sampling Date(s): **7/27/2010**

Laboratory Sample ID(s): M93188-1

Methods: SW846 8082

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☑ No ☐
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☐ No ☑
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☑ No ☐
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Lab Director

Printed Name: Reza Tand Date: 8/17/2010
Accutest New England

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M93188

Pratt & Whitney, East Hartford
Project No: TASK #MI197

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M93188-1 1149711	Collected: 27-JUL-10 11:17 By: HG		Received: 27-JUL-10 By: JB			
M93188-1	SW846 8082	03-AUG-10 16:50	SL	31-JUL-10	AJ	P8082RCP

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M93188
Account: LEA Loureiro Eng. Associates
Project: Pratt & Whitney, East Hartford

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22157-MB	EF79241.D	1	08/03/10	SL	07/31/10	OP22157	GEF3536

The QC reported here applies to the following samples: **Method:** SW846 8082

M93188-1

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	93%	30-150%
877-09-8	Tetrachloro-m-xylene	93%	30-150%
2051-24-3	Decachlorobiphenyl	74%	30-150%
2051-24-3	Decachlorobiphenyl	67%	30-150%

Blank Spike Summary

Job Number: M93188
Account: LEA Loureiro Eng. Associates
Project: Pratt & Whitney, East Hartford

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22157-BS	EF79242.D	1	08/03/10	SL	07/31/10	OP22157	GEF3536

The QC reported here applies to the following samples: **Method:** SW846 8082

M93188-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	2.3	115	40-140
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	2	2.4	120	40-140
37324-23-5	Aroclor 1262		ND		40-140
11100-14-4	Aroclor 1268		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	92%	30-150%
877-09-8	Tetrachloro-m-xylene	94%	30-150%
2051-24-3	Decachlorobiphenyl	75%	30-150%
2051-24-3	Decachlorobiphenyl	66%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M93188
Account: LEA Loureiro Eng. Associates
Project: Pratt & Whitney, East Hartford

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22157-MS	EF79243.D	1	08/03/10	SL	07/31/10	OP22157	GEF3536
OP22157-MSD	EF79244.D	1	08/03/10	SL	07/31/10	OP22157	GEF3536
M93142-14	EF79245.D	1	08/03/10	SL	07/31/10	OP22157	GEF3536

The QC reported here applies to the following samples: **Method:** SW846 8082

M93188-1

CAS No.	Compound	M93142-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2	2.4	120	2.5	125	4	40-140/50
11104-28-2	Aroclor 1221	ND			ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND			ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND			ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND			ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	ND			ND		ND		nc	40-140/50
11096-82-5	Aroclor 1260	ND		2	2.3	115	2.4	120	4	40-140/50
37324-23-5	Aroclor 1262	ND			ND		ND		nc	40-140/50
11100-14-4	Aroclor 1268	ND			ND		ND		nc	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M93142-14	Limits
877-09-8	Tetrachloro-m-xylene	101%	109%	114%	30-150%
877-09-8	Tetrachloro-m-xylene	99%	107%	112%	30-150%
2051-24-3	Decachlorobiphenyl	73%	81%	74%	30-150%
2051-24-3	Decachlorobiphenyl	65%	72%	66%	30-150%

Semivolatile Surrogate Recovery Summary

Job Number: M93188
Account: LEA Loureiro Eng. Associates
Project: Pratt & Whitney, East Hartford

Method: SW846 8082 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
M93188-1	EF79256.D	103.0	96.0	91.0	81.0
OP22157-BS	EF79242.D	92.0	94.0	75.0	66.0
OP22157-MB	EF79241.D	93.0	93.0	74.0	67.0
OP22157-MS	EF79243.D	101.0	99.0	73.0	65.0
OP22157-MSD	EF79244.D	109.0	107.0	81.0	72.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

New England ACCUTEST LABORATORIES

10/06/10

Technical Report for

Loureiro Eng. Associates

UTC:P&W Willow Pond Quarterly GW Monitoring

88UT043.001

Accutest Job Number: M94105

Sampling Date: 09/08/10

Report to:

LEA

rlmckinney@loureiro.com

ATTN: Robin McKinney

Total number of pages in report: **112**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

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Accutest Laboratories

Sample Summary

Loureiro Eng. Associates

Job No: M94105

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M94105-1	09/08/10	12:50	KV	09/08/10	AQ	Ground Water	1152488
M94105-2	09/08/10	12:50	KV	09/08/10	AQ	Ground Water	1152488UF
M94105-3	09/08/10	14:50	KV	09/08/10	AQ	Ground Water	1152489
M94105-4	09/08/10	14:50	KV	09/08/10	AQ	Ground Water	1152489UF
M94105-5	09/08/10	14:50	KV	09/08/10	AQ	Ground Water	1152500
M94105-6	09/08/10	14:50	KV	09/08/10	AQ	Ground Water	1152500UF
M94105-7	09/08/10	11:10	SB	09/08/10	AQ	Ground Water	1152487
M94105-8	09/08/10	11:10	SB	09/08/10	AQ	Ground Water	1152487UF
M94105-9	09/08/10	08:00	RJD	09/08/10	AQ	Trip Blank Water	1152501
M94105-10	09/08/10	10:30	RJD	09/08/10	AQ	Ground Water	1152480
M94105-11	09/08/10	10:30	RJD	09/08/10	AQ	Ground Water	1152480UF
M94105-12	09/08/10	11:45	RJD	09/08/10	AQ	Ground Water	1152481
M94105-13	09/08/10	11:45	RJD	09/08/10	AQ	Ground Water	1152481UF

Accutest Laboratories

Sample Summary
(continued)

Loureiro Eng. Associates

Job No: M94105

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M94105-14	09/08/10	13:15	RJD	09/08/10	AQ	Ground Water	1152482
M94105-15	09/08/10	13:15	RJD	09/08/10	AQ	Ground Water	1152482UF
M94105-16	09/08/10	14:35	RJD	09/08/10	AQ	Ground Water	1152483
M94105-17	09/08/10	14:35	RJD	09/08/10	AQ	Ground Water	1152483UF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Loureiro Eng. Associates	**Job No**	M94105
Site:	UTC:P&W Willow Pond Quarterly GW Monitoring	**Report Date**	9/20/2010 5:56:04 PM

16 Sample(s), 1 Trip Blank were collected on 09/08/2010 and were received at Accutest on 09/08/2010 properly preserved, at 1.3 Deg. C and intact. These Samples received an Accutest job number of M94105. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSL1469

- All samples were analyzed within the recommended method holding time.
- Sample(s) M94105-1MS, M94105-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Dichlorodifluoromethane are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, 1,1-Dichloroethane, Acrylonitrile, Dichlorodifluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Acrylonitrile, Dichlorodifluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Continuing calibration check standard MSL1469-CC1448 for Dichlorodifluoromethane exceed 30% Difference. This check standard met RCP criteria.
- Initial calibration standard (batch MSL1448) for 2,2-dichloropropane, 1,1,1,2-tetrachloroethane is employed quadratic regression.Initial calibration verification standard MSL1448-ICV1448 for dichlorodifluoromethane exceed 35% Difference.

Matrix AQ **Batch ID:** MSL1470

- All samples were analyzed within the recommended method holding time.
- Sample(s) M94105-7MS, M94105-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Acrylonitrile, Dichlorodifluoromethane are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for Bromomethane, Chloromethane, Dichlorodifluoromethane, Isopropylbenzene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Acetone, Dichlorodifluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for Bromomethane, Chloromethane are outside control limits for sample M94105-7MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- Continuing calibration check standard MSL1470-CC1448 for Dichlorodifluoromethane, acrylonitrile exceed 30% Difference. This check standard met RCP criteria.

Extractables by GC By Method CT-ETPH 7/06

Matrix AQ	**Batch ID:** OP22661

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94245-4MS, M94245-4MSD were used as the QC samples indicated.
- Sample(s) M94105-14 have surrogates outside control limits due to possible matrix interference. Sample result confirmed by re-extraction/reanalysis.

Matrix AQ	**Batch ID:** OP22691

- Sample(s) M94105-14 have surrogates outside control limits due to possible matrix interference. Sample result confirmed by re-extraction/reanalysis.
- M94105-14: Confirmation run.

Extractables by GC By Method SW846 8082

Matrix AQ	**Batch ID:** OP22665

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M94245-2MS, M94245-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ	**Batch ID:** MP15909

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94105-13DUP, M94105-13MS, M94105-13SDL, M94105-13DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Lead are outside control limits for sample MP15909-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Cadmium, Chromium, Copper, Lead, Nickel, Selenium are outside control limits for sample MP15909-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP15909-SD1 for Barium: Serial Dilution RPD acceptable due to low duplicate and sample concentrations.
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix AQ	**Batch ID:** MP15905

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94105-2DUP, M94105-2MS were used as the QC samples for metals.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M94105).

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1152488		
Lab Sample ID:	M94105-1	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L44693.D	1	09/09/10	AMY	n/a	n/a	MSL1469
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152488		
Lab Sample ID:	M94105-1	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152488		
Lab Sample ID:	M94105-1	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152488		
Lab Sample ID:	M94105-1	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC44756.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	75%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152488		
Lab Sample ID:	M94105-1	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF79643.D	1	09/17/10	SL	09/15/10	OP22665	GEF3550
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		30-150%
877-09-8	Tetrachloro-m-xylene	108%		30-150%
2051-24-3	Decachlorobiphenyl	94%		30-150%
2051-24-3	Decachlorobiphenyl	106%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152488UF		
Lab Sample ID:	M94105-2	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	< 50	50	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/09/10	09/10/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12205
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15905
(4) Prep QC Batch: MP15909

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152489		
Lab Sample ID:	M94105-3	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L44694.D	1	09/09/10	AMY	n/a	n/a	MSL1469
Run #2	L44717.D	5	09/10/10	AMY	n/a	n/a	MSL1470

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	0.56	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	6.6	2.0	ug/l	
67-66-3	Chloroform	4.6	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	36.9	1.0	ug/l	
107-06-2	1,2-Dichloroethane	3.7	1.0	ug/l	
75-35-4	1,1-Dichloroethene	304	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	151	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	9.2	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152489		
Lab Sample ID:	M94105-3	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	71.4	1.0	ug/l	
109-99-9	Tetrahydrofuran	56.0	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	131	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	1.7	1.0	ug/l	
79-01-6	Trichloroethene	601 [a]	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	45.9	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	112%	70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152489		
Lab Sample ID:	M94105-3	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%	108%	70-130%
460-00-4	4-Bromofluorobenzene	98%	102%	70-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152489		
Lab Sample ID:	M94105-3	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC44757.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.414	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	60%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152489		
Lab Sample ID:	M94105-3	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF79644.D	1	09/17/10	SL	09/15/10	OP22665	GEF3550
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		30-150%
877-09-8	Tetrachloro-m-xylene	90%		30-150%
2051-24-3	Decachlorobiphenyl	95%		30-150%
2051-24-3	Decachlorobiphenyl	103%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152489UF		
Lab Sample ID:	M94105-4	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6.2	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	314	50	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/09/10	09/10/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	46.9	40	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12205
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15905
(4) Prep QC Batch: MP15909

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152500		
Lab Sample ID:	M94105-5	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L44695.D	1	09/09/10	AMY	n/a	n/a	MSL1469
Run #2	L44718.D	5	09/10/10	AMY	n/a	n/a	MSL1470

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	0.56	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	6.1	2.0	ug/l	
67-66-3	Chloroform	4.5	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	35.5	1.0	ug/l	
107-06-2	1,2-Dichloroethane	3.9	1.0	ug/l	
75-35-4	1,1-Dichloroethene	300	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	150	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	7.4	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152500		
Lab Sample ID:	M94105-5	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	72.0	1.0	ug/l	
109-99-9	Tetrahydrofuran	55.0	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	129	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	1.7	1.0	ug/l	
79-01-6	Trichloroethene	576 [a]	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	46.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	113%	70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152500		
Lab Sample ID:	M94105-5	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%	106%	70-130%
460-00-4	4-Bromofluorobenzene	96%	103%	70-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152500		
Lab Sample ID:	M94105-5	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC44758.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.426	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	88%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152500		
Lab Sample ID:	M94105-5	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF79645.D	1	09/17/10	SL	09/15/10	OP22665	GEF3550
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		30-150%
877-09-8	Tetrachloro-m-xylene	89%		30-150%
2051-24-3	Decachlorobiphenyl	95%		30-150%
2051-24-3	Decachlorobiphenyl	98%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152500UF		
Lab Sample ID:	M94105-6	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.6	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	309	50	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/09/10	09/10/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	47.2	40	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12205
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15905
(4) Prep QC Batch: MP15909

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152487		
Lab Sample ID:	M94105-7	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L44714.D	1	09/10/10	AMY	n/a	n/a	MSL1470
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152487		
Lab Sample ID:	M94105-7	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152487		
Lab Sample ID:	M94105-7	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152487		
Lab Sample ID:	M94105-7	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC44759.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.162	0.083	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	103%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152487		
Lab Sample ID:	M94105-7	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF79646.D	1	09/17/10	SL	09/15/10	OP22665	GEF3550
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	114%		30-150%
877-09-8	Tetrachloro-m-xylene	128%		30-150%
2051-24-3	Decachlorobiphenyl	111%		30-150%
2051-24-3	Decachlorobiphenyl	120%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152487UF		
Lab Sample ID:	M94105-8	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	71.3	50	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/09/10	09/10/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	24.0	20	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12205
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15905
(4) Prep QC Batch: MP15909

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152501		
Lab Sample ID:	M94105-9	**Date Sampled:**	09/08/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L44692.D	1	09/09/10	AMY	n/a	n/a	MSL1469
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152501		
Lab Sample ID:	M94105-9	**Date Sampled:**	09/08/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152501		
Lab Sample ID:	M94105-9	**Date Sampled:**	09/08/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152480		
Lab Sample ID:	M94105-10	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L44697.D	1	09/09/10	AMY	n/a	n/a	MSL1469
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152480		
Lab Sample ID:	M94105-10	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152480		
Lab Sample ID:	M94105-10	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152480		
Lab Sample ID:	M94105-10	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC44761.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.137	0.087	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	87%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152480		
Lab Sample ID:	M94105-10	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF79647.D	1	09/17/10	SL	09/15/10	OP22665	GEF3550
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		30-150%
877-09-8	Tetrachloro-m-xylene	79%		30-150%
2051-24-3	Decachlorobiphenyl	84%		30-150%
2051-24-3	Decachlorobiphenyl	89%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152480UF		
Lab Sample ID:	M94105-11	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	141	50	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/09/10	09/10/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12205
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15905
(4) Prep QC Batch: MP15909

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152481		
Lab Sample ID:	M94105-12	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L44698.D	1	09/09/10	AMY	n/a	n/a	MSL1469
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152481		
Lab Sample ID:	M94105-12	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152481		
Lab Sample ID:	M94105-12	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152481		
Lab Sample ID:	M94105-12	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC44762.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.117	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	92%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152481		
Lab Sample ID:	M94105-12	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF79648.D	1	09/17/10	SL	09/15/10	OP22665	GEF3550
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		30-150%
877-09-8	Tetrachloro-m-xylene	84%		30-150%
2051-24-3	Decachlorobiphenyl	88%		30-150%
2051-24-3	Decachlorobiphenyl	94%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152481UF		
Lab Sample ID:	M94105-13	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	< 50	50	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/09/10	09/10/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	20.6	20	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12205
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15905
(4) Prep QC Batch: MP15909

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152482		
Lab Sample ID:	M94105-14	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L44699.D	1	09/09/10	AMY	n/a	n/a	MSL1469
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152482		
Lab Sample ID:	M94105-14	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152482		
Lab Sample ID:	M94105-14	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152482		
Lab Sample ID:	M94105-14	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC44763.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
Run #2 [a]	BC44841.D	1	09/20/10	SL	09/17/10	OP22691	GBC2173

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2	890 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.358	0.086	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	40% [b]	30% [b]	50-149%

(a) Confirmation run.
(b) Outside control limits due to possible matrix interference. Sample results confirmed by re-extraction/reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152482		
Lab Sample ID:	M94105-14	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF79649.D	1	09/17/10	SL	09/15/10	OP22665	GEF3550
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		30-150%
877-09-8	Tetrachloro-m-xylene	111%		30-150%
2051-24-3	Decachlorobiphenyl	75%		30-150%
2051-24-3	Decachlorobiphenyl	81%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152482UF		
Lab Sample ID:	M94105-15	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	12.1	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	81.9	50	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	10.0	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/09/10	09/10/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12205
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15905
(4) Prep QC Batch: MP15909

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152483		
Lab Sample ID:	M94105-16	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L44700.D	1	09/09/10	AMY	n/a	n/a	MSL1469
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.2	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152483		
Lab Sample ID:	M94105-16	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	2.0	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	12.6	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152483		
Lab Sample ID:	M94105-16	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152483		
Lab Sample ID:	M94105-16	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC44764.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.201	0.085	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	84%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152483		
Lab Sample ID:	M94105-16	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF79650.D	1	09/17/10	SL	09/15/10	OP22665	GEF3550
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.27	ug/l	
11104-28-2	Aroclor 1221	ND	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.27	ug/l	
53469-21-9	Aroclor 1242	ND	0.27	ug/l	
12672-29-6	Aroclor 1248	ND	0.27	ug/l	
11097-69-1	Aroclor 1254	ND	0.27	ug/l	
11096-82-5	Aroclor 1260	ND	0.27	ug/l	
37324-23-5	Aroclor 1262	ND	0.27	ug/l	
11100-14-4	Aroclor 1268	ND	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		30-150%
877-09-8	Tetrachloro-m-xylene	80%		30-150%
2051-24-3	Decachlorobiphenyl	58%		30-150%
2051-24-3	Decachlorobiphenyl	62%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152483UF		
Lab Sample ID:	M94105-17	**Date Sampled:**	09/08/10
Matrix:	AQ - Ground Water	**Date Received:**	09/08/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	192	50	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/09/10	09/10/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	46.1	40	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	32.1	20	ug/l	1	09/10/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12205
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15905
(4) Prep QC Batch: MP15909

RL = Reporting Limit

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (CT)
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

Parameter Certification Exceptions

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Aroclor 1262	37324-23-5	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD
Aroclor 1268	11100-14-4	**SW846 8082**	AQ	Certified by SOP MGC204/GC-ECD

ACCUTEST Laboratories

CHAIN OF CUSTODY

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1 of 2

ACCUTEST JOB #: M94105
ACCUTEST QUOTE #: KT32/2009-453

CLIENT INFORMATION

NAME: Loureiro Engineering Assoc
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CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-747-0181

FACILITY INFORMATION

PROJECT NAME: P&W Willow Pond GW
LOCATION: East Hartford CT
PROJECT NO.: 88UT043
FAX #: 860.747.8822

ANALYTICAL INFORMATION

VOC 8260; CT SIP 17; PCB 8082 (total RCRA & Metals CT MA PQL)

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE		VOC 8260	CT SIP 17	PCB 8082	(total RCRA & Metals CT MA PQL)								LAB USE ONLY
-1	1152488	9/8/10	1250	KW	GW	6	2			4			X	X	X									
-2	1152488UF		1250			1			1							X								
-3	1152489		1450			6	2			4			X	X	X									
-4	1152489UF		1450			1			1							X								
-5	1152500		1450			6	2			4			X	X	X									
-6	1152500UF		1450	KW		1			1							X								
-7	1152487		1110	SB		6	2			4			X	X	X									
-8	1152487UF	9/8/10	1110	SB	GW	1			1							X								
																								19A, 5A, 3F6

DATA TURNAROUND INFORMATION

- ☑ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP for VOC + PCB
CT RCP "Report"

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	9-8-10 15:45	1.	2.	9-8-10 18:15	2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 1.7 C

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M94105: Chain of Custody
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ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

2 of 2

ACCUTEST JOB #: M94105
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Robin McKinney
ADDRESS: LEA
CITY: 100 Northwest Drive
STATE: Plainville, CT
ZIP: 06062
SEND REPORT TO:
PHONE #

FACILITY INFORMATION

PROJECT NAME: UTC P&W Willow Pond
LOCATION: P&W, East Hartford, CT
PROJECT NO.: 88UT043.001
FAX #

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	MeOH	VOCs 8260B	CT ETPH	PCBs 8082	RCRA8 + cu Ni Zn	LAB USE ONLY
-9	1152501	9/8/10	0800	RJD	GW	1	X					X	X				
-10	1152480	↓	1030	↓	↓	6	X				X	X	X	X	X	X	
-11	1152480uF	↓	↓	↓	↓	↓	X				X	X	X	X	X	X	
-12	1152481	↓	1145	↓	↓	↓	X				X	X	X	X	X	X	
-13	1152481uF	↓	↓	↓	↓	↓	X				X	X	X	X	X	X	
-14	1152482	↓	1315	↓	↓	↓	X				X	X	X	X	X	X	
-15	1152482uF	↓	↓	↓	↓	↓	X				X	X	X	X	X	X	
-16	1152483	↓	1435	↓	↓	↓	X				X	X	X	X	X	X	
-17	1152483uF	↓	↓	↓	↓	↓	X				X	X	X	X	X	X	

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP analytical lists for VOCs + PCBs + provide CT RCP report ref qu # KBZ/2009-455

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	9/8/10 1530	1. [signature]	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

4.2

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M94105: Chain of Custody
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ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M94105
ACCUTEST QUOTE #: [illegible]

CLIENT INFORMATION

NAME: [illegible] Engineering [illegible]
ADDRESS: [illegible] Northwest [illegible]
CITY, STATE, ZIP: [illegible] CT [illegible]
SEND REPORT TO: [illegible]
PHONE #: [illegible]

FACILITY INFORMATION

PROJECT NAME: PW Willow Pond CW
LOCATION: West Hartford CT
PROJECT NO.:
FAX #: [illegible]

ANALYTICAL INFORMATION

[illegible] Field [illegible] CT SDPT [illegible]

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	LAB USE ONLY
-1	1152458	9/8/10	1230	KW	[illegible]	6	[illegible]				[illegible]	X	X	X			
-2	1152458DUP		1230			[illegible]	[illegible]								X		
-3	1152465		1450			6	[illegible]				[illegible]	X	X	X			
-4	1152465DUP		1450			[illegible]									X		
-5	1152500		1450	V		6	[illegible]				[illegible]	X	X	X			
-6	1152500DUP		1450	KW		[illegible]									X		
-7	1152487	V	1110	SB	V	6	[illegible]				4	X	X	X			
-8	1152487DUP	9/8/10	1110	SB	KW	[illegible]									X		

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD — APPROVED BY:
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☑ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Provide CT RCP [illegible] CT [illegible] Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [illegible]		1. [illegible]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

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M94105: Chain of Custody
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ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M94105

ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: [illegible]
ADDRESS: [illegible]
CITY: [illegible] STATE: [illegible] ZIP: [illegible]
SEND REPORT TO:
PHONE #

FACILITY INFORMATION

PROJECT NAME: [illegible]
LOCATION: [illegible]
PROJECT NO.
FAX #

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE								LAB USE ONLY
-9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	X					X	X						
-10	[illegible]		1030			6	X				X	X	X	X	X	X	RLM		
-11	[illegible]		↓				X				X	X	X	X	X	X			
-12	[illegible]		1145				X				X	X	X	X	X	X	RLM		
-13	[illegible]		↓				X				X	X	X	X	X	X			
-14	[illegible]		1315				X				X	X	X	X	X	X	RLM		
-15	[illegible]		↓				X				X	X	X	X	X	X			
-16	[illegible]		1430				X				X	X	X	X	X	X	RLM		
-17	[illegible]		↓				X				X	X	X	X	X	X			

DATA TURNAROUND INFORMATION

- [X] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [X] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

[illegible] CT RCP [illegible]
[illegible] VOCs [illegible]
CT RCP [illegible] KB2/2009-453

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [illegible]	[illegible]	1. [illegible]	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

4.2

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M94105: Chain of Custody
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M94105 **Client:** LEA **Immediate Client Services Action Required:** No

Date / Time Received: 9/8/2010 6:15:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: 18:15 **Airbill #'s:** N/A

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Infared gun	
3. Cooler media:	Ice (bag)	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	
2. Trip Blank listed on COC:	☑	☐	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume rec'd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Loureiro Eng. Associates**

Project Location: **UTC:P&W Willow Pond Quarterly GW Monitoring** **Project Number:** **88UT043.001**

Sampling Date(s): **9/8/2010**

Laboratory Sample ID(s): M94105-1, M94105-2, M94105-3, M94105-4, M94105-5, M94105-6, M94105-7, M94105-8, M94105-9, M94105-10, M94105-11, M94105-12, M94105-13, M94105-14, M94105-15, M94105-16, M94105-17

Methods: CT-ETPH 7/06, SW846 6010B, SW846 7470A, 8082, 8260B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☐ No ☑
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Lab Director

Printed Name: Reza Tand Date: 9/20/2010
Accutest New England

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M94105

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M94105-1 1152488	Collected: 08-SEP-10 12:50 By: KV		Received: 08-SEP-10 By: JB			
M94105-1	SW846 8260B	09-SEP-10 14:23	AMY			V8260RCP
M94105-1	CT-ETPH 7/06	16-SEP-10 16:34	SS	15-SEP-10	FC	BCTTPH
M94105-1	SW846 8082	17-SEP-10 09:51	SL	15-SEP-10	FC	P8082RCP
M94105-2 1152488UF	Collected: 08-SEP-10 12:50 By: KV		Received: 08-SEP-10 By: JB			
M94105-2	SW846 7470A	10-SEP-10 09:54	MA	09-SEP-10	MA	HG
M94105-2	SW846 6010B	13-SEP-10 16:32	DA	10-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94105-3 1152489	Collected: 08-SEP-10 14:50 By: KV		Received: 08-SEP-10 By: JB			
M94105-3	SW846 8260B	09-SEP-10 14:51	AMY			V8260RCP
M94105-3	SW846 8260B	10-SEP-10 13:34	AMY			V8260RCP
M94105-3	CT-ETPH 7/06	16-SEP-10 17:14	SS	15-SEP-10	FC	BCTTPH
M94105-3	SW846 8082	17-SEP-10 10:06	SL	15-SEP-10	FC	P8082RCP
M94105-4 1152489UF	Collected: 08-SEP-10 14:50 By: KV		Received: 08-SEP-10 By: JB			
M94105-4	SW846 7470A	10-SEP-10 09:56	MA	09-SEP-10	MA	HG
M94105-4	SW846 6010B	13-SEP-10 16:37	DA	10-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94105-5 1152500	Collected: 08-SEP-10 14:50 By: KV		Received: 08-SEP-10 By: JB			
M94105-5	SW846 8260B	09-SEP-10 15:19	AMY			V8260RCP
M94105-5	SW846 8260B	10-SEP-10 14:02	AMY			V8260RCP
M94105-5	CT-ETPH 7/06	16-SEP-10 17:53	SS	15-SEP-10	FC	BCTTPH
M94105-5	SW846 8082	17-SEP-10 10:21	SL	15-SEP-10	FC	P8082RCP
M94105-6 1152500UF	Collected: 08-SEP-10 14:50 By: KV		Received: 08-SEP-10 By: JB			

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M94105

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M94105-6	SW846 7470A	10-SEP-10 09:58	MA	09-SEP-10	MA	HG
M94105-6	SW846 6010B	13-SEP-10 16:41	DA	10-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94105-7 1152487	Collected: 08-SEP-10 11:10 By: SB		Received: 08-SEP-10 By: JB			
M94105-7	SW846 8260B	10-SEP-10 12:10	AMY			V8260RCP
M94105-7	CT-ETPH 7/06	16-SEP-10 18:33	SS	15-SEP-10	FC	BCTTPH
M94105-7	SW846 8082	17-SEP-10 10:50	SL	15-SEP-10	FC	P8082RCP
M94105-8 1152487UF	Collected: 08-SEP-10 11:10 By: SB		Received: 08-SEP-10 By: JB			
M94105-8	SW846 7470A	10-SEP-10 10:05	MA	09-SEP-10	MA	HG
M94105-8	SW846 6010B	13-SEP-10 16:46	DA	10-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94105-9 1152501	Collected: 08-SEP-10 08:00 By: RJD		Received: 08-SEP-10 By: JB			
M94105-9	SW846 8260B	09-SEP-10 13:55	AMY			V8260RCP
M94105-10 1152480	Collected: 08-SEP-10 10:30 By: RJD		Received: 08-SEP-10 By: JB			
M94105-10	SW846 8260B	09-SEP-10 16:16	AMY			V8260RCP
M94105-10	CT-ETPH 7/06	16-SEP-10 19:51	SS	15-SEP-10	FC	BCTTPH
M94105-10	SW846 8082	17-SEP-10 11:05	SL	15-SEP-10	FC	P8082RCP
M94105-11 1152480UF	Collected: 08-SEP-10 10:30 By: RJD		Received: 08-SEP-10 By: JB			
M94105-11	SW846 7470A	10-SEP-10 10:07	MA	09-SEP-10	MA	HG
M94105-11	SW846 6010B	13-SEP-10 16:50	DA	10-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94105-12 1152481	Collected: 08-SEP-10 11:45 By: RJD		Received: 08-SEP-10 By: JB			

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M94105

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M94105-12	SW846 8260B	09-SEP-10 16:44	AMY			V8260RCP
M94105-12	CT-ETPH 7/06	16-SEP-10 20:30	SS	15-SEP-10	FC	BCTTPH
M94105-12	SW846 8082	17-SEP-10 11:20	SL	15-SEP-10	FC	P8082RCP
M94105-13 1152481UF	Collected: 08-SEP-10 11:45 By: RJD		Received: 08-SEP-10 By: JB			
M94105-13	SW846 7470A	10-SEP-10 10:10	MA	09-SEP-10	MA	HG
M94105-13	SW846 6010B	13-SEP-10 15:57	DA	10-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94105-14 1152482	Collected: 08-SEP-10 13:15 By: RJD		Received: 08-SEP-10 By: JB			
M94105-14	SW846 8260B	09-SEP-10 17:13	AMY			V8260RCP
M94105-14	CT-ETPH 7/06	16-SEP-10 21:10	SS	15-SEP-10	FC	BCTTPH
M94105-14	SW846 8082	17-SEP-10 11:49	SL	15-SEP-10	FC	P8082RCP
M94105-14	CT-ETPH 7/06	20-SEP-10 15:25	SL	17-SEP-10		
M94105-15 1152482UF	Collected: 08-SEP-10 13:15 By: RJD		Received: 08-SEP-10 By: JB			
M94105-15	SW846 7470A	10-SEP-10 10:12	MA	09-SEP-10	MA	HG
M94105-15	SW846 6010B	13-SEP-10 16:54	DA	10-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94105-16 1152483	Collected: 08-SEP-10 14:35 By: RJD		Received: 08-SEP-10 By: JB			
M94105-16	SW846 8260B	09-SEP-10 17:42	AMY			V8260RCP
M94105-16	CT-ETPH 7/06	16-SEP-10 21:49	SS	15-SEP-10	FC	BCTTPH
M94105-16	SW846 8082	17-SEP-10 12:04	SL	15-SEP-10	FC	P8082RCP
M94105-17 1152483UF	Collected: 08-SEP-10 14:35 By: RJD		Received: 08-SEP-10 By: JB			
M94105-17	SW846 7470A	10-SEP-10 10:14	MA	09-SEP-10	MA	HG
M94105-17	SW846 6010B	13-SEP-10 17:08	DA	10-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1469-MB	L44685.D	1	09/09/10	AMY	n/a	n/a	MSL1469

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-1, M94105-3, M94105-5, M94105-9, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	

Method Blank Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1469-MB	L44685.D	1	09/09/10	AMY	n/a	n/a	MSL1469

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-1, M94105-3, M94105-5, M94105-9, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1469-MB	L44685.D	1	09/09/10	AMY	n/a	n/a	MSL1469

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-1, M94105-3, M94105-5, M94105-9, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	70-130%
2037-26-5	Toluene-D8	105%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%

Method Blank Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1470-MB	L44713.D	1	09/10/10	AMY	n/a	n/a	MSL1470

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-3, M94105-5, M94105-7

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	

Method Blank Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1470-MB	L44713.D	1	09/10/10	AMY	n/a	n/a	MSL1470

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-3, M94105-5, M94105-7

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1470-MB	L44713.D	1	09/10/10	AMY	n/a	n/a	MSL1470

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-3, M94105-5, M94105-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	110%	70-130%
2037-26-5	Toluene-D8	105%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

Blank Spike Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1469-BS	L44683.D	1	09/09/10	AMY	n/a	n/a	MSL1469

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-1, M94105-3, M94105-5, M94105-9, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	51.0	102	70-130
107-13-1	Acrylonitrile	50	65.0	130	70-130
71-43-2	Benzene	50	55.4	111	70-130
108-86-1	Bromobenzene	50	49.6	99	70-130
75-27-4	Bromodichloromethane	50	61.2	122	70-130
75-25-2	Bromoform	50	49.2	98	70-130
74-83-9	Bromomethane	50	55.7	111	70-130
78-93-3	2-Butanone (MEK)	50	52.9	106	70-130
104-51-8	n-Butylbenzene	50	54.9	110	70-130
135-98-8	sec-Butylbenzene	50	54.9	110	70-130
98-06-6	tert-Butylbenzene	50	54.4	109	70-130
75-15-0	Carbon disulfide	50	59.8	120	70-130
56-23-5	Carbon tetrachloride	50	63.6	127	70-130
108-90-7	Chlorobenzene	50	48.3	97	70-130
75-00-3	Chloroethane	50	59.8	120	70-130
67-66-3	Chloroform	50	59.7	119	70-130
74-87-3	Chloromethane	50	45.2	90	70-130
95-49-8	o-Chlorotoluene	50	53.9	108	70-130
106-43-4	p-Chlorotoluene	50	56.1	112	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	60.6	121	70-130
124-48-1	Dibromochloromethane	50	55.2	110	70-130
106-93-4	1,2-Dibromoethane	50	47.6	95	70-130
95-50-1	1,2-Dichlorobenzene	50	51.7	103	70-130
541-73-1	1,3-Dichlorobenzene	50	51.2	102	70-130
106-46-7	1,4-Dichlorobenzene	50	49.6	99	70-130
75-71-8	Dichlorodifluoromethane	50	25.0	50* [a]	70-130
75-34-3	1,1-Dichloroethane	50	64.4	129	70-130
107-06-2	1,2-Dichloroethane	50	53.8	108	70-130
75-35-4	1,1-Dichloroethene	50	56.5	113	70-130
156-59-2	cis-1,2-Dichloroethene	50	56.8	114	70-130
156-60-5	trans-1,2-Dichloroethene	50	58.0	116	70-130
78-87-5	1,2-Dichloropropane	50	58.3	117	70-130
142-28-9	1,3-Dichloropropane	50	50.0	100	70-130
594-20-7	2,2-Dichloropropane	50	62.6	125	70-130
563-58-6	1,1-Dichloropropene	50	55.3	111	70-130
10061-01-5	cis-1,3-Dichloropropene	50	57.3	115	70-130

Blank Spike Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1469-BS	L44683.D	1	09/09/10	AMY	n/a	n/a	MSL1469

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-1, M94105-3, M94105-5, M94105-9, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	60.8	122	70-130
100-41-4	Ethylbenzene	50	47.8	96	70-130
76-13-1	Freon 113	50	49.5	99	70-130
87-68-3	Hexachlorobutadiene	50	48.7	97	70-130
591-78-6	2-Hexanone	50	47.0	94	70-130
98-82-8	Isopropylbenzene	50	62.5	125	70-130
99-87-6	p-Isopropyltoluene	50	54.9	110	70-130
1634-04-4	Methyl Tert Butyl Ether	50	60.0	120	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	53.6	107	70-130
74-95-3	Methylene bromide	50	48.2	96	70-130
75-09-2	Methylene chloride	50	57.8	116	70-130
91-20-3	Naphthalene	50	44.2	88	70-130
103-65-1	n-Propylbenzene	50	56.8	114	70-130
100-42-5	Styrene	50	48.6	97	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	59.8	120	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	57.0	114	70-130
127-18-4	Tetrachloroethene	50	45.3	91	70-130
109-99-9	Tetrahydrofuran	50	59.5	119	70-130
108-88-3	Toluene	50	56.0	112	70-130
110-57-6	Trans-1,4-Dichloro-2-Butene	50	58.0	116	70-130
87-61-6	1,2,3-Trichlorobenzene	50	47.6	95	70-130
120-82-1	1,2,4-Trichlorobenzene	50	45.7	91	70-130
71-55-6	1,1,1-Trichloroethane	50	64.7	129	70-130
79-00-5	1,1,2-Trichloroethane	50	56.9	114	70-130
79-01-6	Trichloroethene	50	55.4	111	70-130
75-69-4	Trichlorofluoromethane	50	47.2	94	70-130
96-18-4	1,2,3-Trichloropropane	50	57.8	116	70-130
95-63-6	1,2,4-Trimethylbenzene	50	54.0	108	70-130
108-67-8	1,3,5-Trimethylbenzene	50	53.8	108	70-130
75-01-4	Vinyl chloride	50	51.7	103	70-130
	m,p-Xylene	100	94.4	94	70-130
95-47-6	o-Xylene	50	48.0	96	70-130

Blank Spike Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1469-BS	L44683.D	1	09/09/10	AMY	n/a	n/a	MSL1469

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-1, M94105-3, M94105-5, M94105-9, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

Blank Spike Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1470-BS	L44711.D	1	09/10/10	AMY	n/a	n/a	MSL1470

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-3, M94105-5, M94105-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	52.5	105	70-130
107-13-1	Acrylonitrile	50	68.1	136* [a]	70-130
71-43-2	Benzene	50	52.7	105	70-130
108-86-1	Bromobenzene	50	47.7	95	70-130
75-27-4	Bromodichloromethane	50	59.8	120	70-130
75-25-2	Bromoform	50	50.1	100	70-130
74-83-9	Bromomethane	50	53.6	107	70-130
78-93-3	2-Butanone (MEK)	50	54.4	109	70-130
104-51-8	n-Butylbenzene	50	52.3	105	70-130
135-98-8	sec-Butylbenzene	50	52.3	105	70-130
98-06-6	tert-Butylbenzene	50	52.4	105	70-130
75-15-0	Carbon disulfide	50	56.0	112	70-130
56-23-5	Carbon tetrachloride	50	60.4	121	70-130
108-90-7	Chlorobenzene	50	46.0	92	70-130
75-00-3	Chloroethane	50	55.1	110	70-130
67-66-3	Chloroform	50	58.1	116	70-130
74-87-3	Chloromethane	50	41.8	84	70-130
95-49-8	o-Chlorotoluene	50	51.4	103	70-130
106-43-4	p-Chlorotoluene	50	52.8	106	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	62.5	125	70-130
124-48-1	Dibromochloromethane	50	54.1	108	70-130
106-93-4	1,2-Dibromoethane	50	48.7	97	70-130
95-50-1	1,2-Dichlorobenzene	50	50.3	101	70-130
541-73-1	1,3-Dichlorobenzene	50	48.9	98	70-130
106-46-7	1,4-Dichlorobenzene	50	47.2	94	70-130
75-71-8	Dichlorodifluoromethane	50	24.1	48* [a]	70-130
75-34-3	1,1-Dichloroethane	50	61.5	123	70-130
107-06-2	1,2-Dichloroethane	50	53.7	107	70-130
75-35-4	1,1-Dichloroethene	50	55.3	111	70-130
156-59-2	cis-1,2-Dichloroethene	50	53.7	107	70-130
156-60-5	trans-1,2-Dichloroethene	50	54.5	109	70-130
78-87-5	1,2-Dichloropropane	50	56.9	114	70-130
142-28-9	1,3-Dichloropropane	50	50.3	101	70-130
594-20-7	2,2-Dichloropropane	50	55.8	112	70-130
563-58-6	1,1-Dichloropropene	50	52.2	104	70-130
10061-01-5	cis-1,3-Dichloropropene	50	56.2	112	70-130

Blank Spike Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1470-BS	L44711.D	1	09/10/10	AMY	n/a	n/a	MSL1470

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-3, M94105-5, M94105-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	59.4	119	70-130
100-41-4	Ethylbenzene	50	44.7	89	70-130
76-13-1	Freon 113	50	49.9	100	70-130
87-68-3	Hexachlorobutadiene	50	45.4	91	70-130
591-78-6	2-Hexanone	50	49.3	99	70-130
98-82-8	Isopropylbenzene	50	58.9	118	70-130
99-87-6	p-Isopropyltoluene	50	51.9	104	70-130
1634-04-4	Methyl Tert Butyl Ether	50	60.4	121	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	57.5	115	70-130
74-95-3	Methylene bromide	50	47.3	95	70-130
75-09-2	Methylene chloride	50	56.9	114	70-130
91-20-3	Naphthalene	50	45.4	91	70-130
103-65-1	n-Propylbenzene	50	53.3	107	70-130
100-42-5	Styrene	50	45.9	92	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	57.8	116	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	58.3	117	70-130
127-18-4	Tetrachloroethene	50	41.8	84	70-130
109-99-9	Tetrahydrofuran	50	64.4	129	70-130
108-88-3	Toluene	50	52.8	106	70-130
110-57-6	Trans-1,4-Dichloro-2-Butene	50	61.1	122	70-130
87-61-6	1,2,3-Trichlorobenzene	50	47.2	94	70-130
120-82-1	1,2,4-Trichlorobenzene	50	44.2	88	70-130
71-55-6	1,1,1-Trichloroethane	50	60.8	122	70-130
79-00-5	1,1,2-Trichloroethane	50	56.5	113	70-130
79-01-6	Trichloroethene	50	52.1	104	70-130
75-69-4	Trichlorofluoromethane	50	46.5	93	70-130
96-18-4	1,2,3-Trichloropropane	50	60.2	120	70-130
95-63-6	1,2,4-Trimethylbenzene	50	51.0	102	70-130
108-67-8	1,3,5-Trimethylbenzene	50	51.5	103	70-130
75-01-4	Vinyl chloride	50	47.6	95	70-130
	m,p-Xylene	100	88.6	89	70-130
95-47-6	o-Xylene	50	45.7	91	70-130

Blank Spike Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL1470-BS	L44711.D	1	09/10/10	AMY	n/a	n/a	MSL1470

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-3, M94105-5, M94105-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	70-130%
2037-26-5	Toluene-D8	105%	70-130%
460-00-4	4-Bromofluorobenzene	97%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94105-1MS	L44705.D	5	09/09/10	AMY	n/a	n/a	MSL1469
M94105-1MSD	L44706.D	5	09/09/10	AMY	n/a	n/a	MSL1469
M94105-1	L44693.D	1	09/09/10	AMY	n/a	n/a	MSL1469

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-1, M94105-3, M94105-5, M94105-9, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	M94105-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	193	77	187	75	3	70-130/30
107-13-1	Acrylonitrile	ND		250	347	139* [a]	340	136* [a]	2	70-130/30
71-43-2	Benzene	ND		250	285	114	271	108	5	70-130/30
108-86-1	Bromobenzene	ND		250	245	98	245	98	0	70-130/30
75-27-4	Bromodichloromethane	ND		250	313	125	303	121	3	70-130/30
75-25-2	Bromoform	ND		250	249	100	247	99	1	70-130/30
74-83-9	Bromomethane	ND		250	231	92	248	99	7	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	242	97	235	94	3	70-130/30
104-51-8	n-Butylbenzene	ND		250	262	105	262	105	0	70-130/30
135-98-8	sec-Butylbenzene	ND		250	269	108	270	108	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	266	106	268	107	1	70-130/30
75-15-0	Carbon disulfide	ND		250	311	124	296	118	5	70-130/30
56-23-5	Carbon tetrachloride	ND		250	325	130	315	126	3	70-130/30
108-90-7	Chlorobenzene	ND		250	248	99	242	97	2	70-130/30
75-00-3	Chloroethane	ND		250	308	123	299	120	3	70-130/30
67-66-3	Chloroform	0.92		250	313	125	303	121	3	70-130/30
74-87-3	Chloromethane	ND		250	233	93	235	94	1	70-130/30
95-49-8	o-Chlorotoluene	ND		250	271	108	269	108	1	70-130/30
106-43-4	p-Chlorotoluene	ND		250	276	110	275	110	0	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	296	118	312	125	5	70-130/30
124-48-1	Dibromochloromethane	ND		250	281	112	277	111	1	70-130/30
106-93-4	1,2-Dibromoethane	ND		250	242	97	239	96	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	257	103	258	103	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	255	102	256	102	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	244	98	247	99	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	146	58* [a]	141	56* [a]	3	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	334	134* [a]	323	129	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	276	110	270	108	2	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	304	122	291	116	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	291	116	284	114	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	290	116	283	113	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	304	122	289	116	5	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	256	102	253	101	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	288	115	286	114	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	281	112	266	106	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	291	116	278	111	5	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94105-1MS	L44705.D	5	09/09/10	AMY	n/a	n/a	MSL1469
M94105-1MSD	L44706.D	5	09/09/10	AMY	n/a	n/a	MSL1469
M94105-1	L44693.D	1	09/09/10	AMY	n/a	n/a	MSL1469

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-1, M94105-3, M94105-5, M94105-9, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	M94105-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	307	123	298	119	3	70-130/30
100-41-4	Ethylbenzene	ND		250	237	95	232	93	2	70-130/30
76-13-1	Freon 113	ND		250	291	116	279	112	4	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	228	91	232	93	2	70-130/30
591-78-6	2-Hexanone	ND		250	230	92	233	93	1	70-130/30
98-82-8	Isopropylbenzene	ND		250	310	124	307	123	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	267	107	268	107	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	304	122	301	120	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	280	112	276	110	1	70-130/30
74-95-3	Methylene bromide	ND		250	255	102	245	98	4	70-130/30
75-09-2	Methylene chloride	ND		250	305	122	296	118	3	70-130/30
91-20-3	Naphthalene	ND		250	209	84	226	90	8	70-130/30
103-65-1	n-Propylbenzene	ND		250	278	111	276	110	1	70-130/30
100-42-5	Styrene	ND		250	245	98	239	96	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	309	124	303	121	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	292	117	296	118	1	70-130/30
127-18-4	Tetrachloroethene	ND		250	221	88	214	86	3	70-130/30
109-99-9	Tetrahydrofuran	ND		250	316	126	307	123	3	70-130/30
108-88-3	Toluene	ND		250	286	114	270	108	6	70-130/30
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		250	316	126	319	128	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	228	91	238	95	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	218	87	223	89	2	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	329	132* [a]	315	126	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	293	117	283	113	3	70-130/30
79-01-6	Trichloroethene	ND		250	278	111	267	107	4	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	269	108	255	102	5	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	304	122	310	124	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	264	106	264	106	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	268	107	265	106	1	70-130/30
75-01-4	Vinyl chloride	ND		250	281	112	267	107	5	70-130/30
	m,p-Xylene	ND		500	474	95	462	92	3	70-130/30
95-47-6	o-Xylene	ND		250	243	97	240	96	1	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94105-1MS	L44705.D	5	09/09/10	AMY	n/a	n/a	MSL1469
M94105-1MSD	L44706.D	5	09/09/10	AMY	n/a	n/a	MSL1469
M94105-1	L44693.D	1	09/09/10	AMY	n/a	n/a	MSL1469

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-1, M94105-3, M94105-5, M94105-9, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Surrogate Recoveries	MS	MSD	M94105-1	Limits
1868-53-7	Dibromofluoromethane	105%	108%	110%	70-130%
2037-26-5	Toluene-D8	105%	105%	103%	70-130%
460-00-4	4-Bromofluorobenzene	93%	97%	98%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94105-7MS	L44734.D	5	09/10/10	AMY	n/a	n/a	MSL1470
M94105-7MSD	L44735.D	5	09/10/10	AMY	n/a	n/a	MSL1470
M94105-7	L44714.D	1	09/10/10	AMY	n/a	n/a	MSL1470

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-3, M94105-5, M94105-7

CAS No.	Compound	M94105-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	186	74	171	68* a	8	70-130/30
107-13-1	Acrylonitrile	ND		250	318	127	307	123	4	70-130/30
71-43-2	Benzene	ND		250	278	111	265	106	5	70-130/30
108-86-1	Bromobenzene	ND		250	259	104	251	100	3	70-130/30
75-27-4	Bromodichloromethane	ND		250	291	116	295	118	1	70-130/30
75-25-2	Bromoform	ND		250	243	97	245	98	1	70-130/30
74-83-9	Bromomethane	ND		250	167	67* a	256	102	42* b	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	222	89	227	91	2	70-130/30
104-51-8	n-Butylbenzene	ND		250	251	100	258	103	3	70-130/30
135-98-8	sec-Butylbenzene	ND		250	273	109	265	106	3	70-130/30
98-06-6	tert-Butylbenzene	ND		250	278	111	266	106	4	70-130/30
75-15-0	Carbon disulfide	ND		250	295	118	284	114	4	70-130/30
56-23-5	Carbon tetrachloride	ND		250	294	118	307	123	4	70-130/30
108-90-7	Chlorobenzene	ND		250	248	99	241	96	3	70-130/30
75-00-3	Chloroethane	ND		250	324	130	276	110	16	70-130/30
67-66-3	Chloroform	ND		250	288	115	285	114	1	70-130/30
74-87-3	Chloromethane	ND		250	119	48* a	203	81	52* b	70-130/30
95-49-8	o-Chlorotoluene	ND		250	279	112	266	106	5	70-130/30
106-43-4	p-Chlorotoluene	ND		250	283	113	274	110	3	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	276	110	291	116	5	70-130/30
124-48-1	Dibromochloromethane	ND		250	278	111	274	110	1	70-130/30
106-93-4	1,2-Dibromoethane	ND		250	239	96	239	96	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	257	103	257	103	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	257	103	257	103	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	247	99	242	97	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	133	53* a	128	51* a	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	316	126	303	121	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	250	100	263	105	5	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	297	119	286	114	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	269	108	271	108	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	260	104	280	112	7	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	287	115	273	109	5	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	251	100	246	98	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	246	98	263	105	7	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	284	114	269	108	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	274	110	273	109	0	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94105-7MS	L44734.D	5	09/10/10	AMY	n/a	n/a	MSL1470
M94105-7MSD	L44735.D	5	09/10/10	AMY	n/a	n/a	MSL1470
M94105-7	L44714.D	1	09/10/10	AMY	n/a	n/a	MSL1470

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-3, M94105-5, M94105-7

CAS No.	Compound	M94105-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	285	114	292	117	2	70-130/30
100-41-4	Ethylbenzene	ND		250	256	102	238	95	7	70-130/30
76-13-1	Freon 113	ND		250	263	105	259	104	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	214	86	227	91	6	70-130/30
591-78-6	2-Hexanone	ND		250	226	90	211	84	7	70-130/30
98-82-8	Isopropylbenzene	ND		250	328	131* [a]	311	124	5	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	269	108	264	106	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	281	112	286	114	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	271	108	255	102	6	70-130/30
74-95-3	Methylene bromide	ND		250	218	87	237	95	8	70-130/30
75-09-2	Methylene chloride	ND		250	281	112	272	109	3	70-130/30
91-20-3	Naphthalene	ND		250	200	80	228	91	13	70-130/30
103-65-1	n-Propylbenzene	ND		250	290	116	275	110	5	70-130/30
100-42-5	Styrene	ND		250	244	98	242	97	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	303	121	300	120	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	288	115	281	112	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	229	92	220	88	4	70-130/30
109-99-9	Tetrahydrofuran	ND		250	290	116	284	114	2	70-130/30
108-88-3	Toluene	ND		250	286	114	267	107	7	70-130/30
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		250	287	115	302	121	5	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	212	85	234	94	10	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	205	82	223	89	8	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	308	123	308	123	0	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	285	114	275	110	4	70-130/30
79-01-6	Trichloroethene	ND		250	284	114	262	105	8	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	247	99	240	96	3	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	291	116	289	116	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	292	117	270	108	8	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	277	111	264	106	5	70-130/30
75-01-4	Vinyl chloride	ND		250	241	96	240	96	0	70-130/30
	m,p-Xylene	ND		500	497	99	472	94	5	70-130/30
95-47-6	o-Xylene	ND		250	254	102	239	96	6	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94105-7MS	L44734.D	5	09/10/10	AMY	n/a	n/a	MSL1470
M94105-7MSD	L44735.D	5	09/10/10	AMY	n/a	n/a	MSL1470
M94105-7	L44714.D	1	09/10/10	AMY	n/a	n/a	MSL1470

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94105-3, M94105-5, M94105-7

CAS No.	Surrogate Recoveries	MS	MSD	M94105-7	Limits
1868-53-7	Dibromofluoromethane	98%	102%	111%	70-130%
2037-26-5	Toluene-D8	104%	103%	104%	70-130%
460-00-4	4-Bromofluorobenzene	98%	97%	97%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

Volatile Internal Standard Area Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Check Std:	MSL1469-CC1448	**Injection Date:**	09/09/10
Lab File ID:	L44682.D	**Injection Time:**	08:58
Instrument ID:	GCMSL	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	76530	8.20	117201	9.04	66167	12.28	60931	14.84	25413	5.82
Upper Limit [a]	153060	8.70	234402	9.54	132334	12.78	121862	15.34	50826	6.32
Lower Limit [b]	38265	7.70	58601	8.54	33084	11.78	30466	14.34	12707	5.32

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL1469-BS	77079	8.20	116633	9.04	67105	12.28	60882	14.83	24083	5.82
MSL1469-MB	76346	8.20	115976	9.04	63024	12.29	55084	14.84	27820	5.82
ZZZZZZ	75494	8.20	114487	9.04	62161	12.28	58128	14.84	27955	5.82
ZZZZZZ	78618	8.20	118280	9.04	63091	12.28	58017	14.84	28889	5.82
ZZZZZZ	79376	8.21	120582	9.04	64019	12.28	58662	14.84	30038	5.82
M94105-9	77549	8.20	118385	9.04	63668	12.28	57016	14.84	29806	5.82
M94105-1	77106	8.20	117820	9.04	64199	12.28	56108	14.84	28510	5.82
M94105-3	76471	8.20	114329	9.04	62675	12.28	55040	14.84	28767	5.82
M94105-5	76597	8.20	115441	9.04	62654	12.28	56362	14.84	27574	5.82
M94105-10	74034	8.20	112806	9.04	61380	12.28	53662	14.84	29151	5.82
M94105-12	73719	8.20	113133	9.04	61695	12.28	54245	14.84	25805	5.82
M94105-14	73527	8.20	111508	9.04	61384	12.28	52857	14.84	27808	5.82
M94105-16	72912	8.20	112371	9.04	61616	12.28	52461	14.84	28223	5.82
ZZZZZZ	72320	8.20	111028	9.04	60459	12.28	53150	14.84	27711	5.82
ZZZZZZ	71649	8.20	110600	9.04	60454	12.28	51368	14.84	27519	5.82
ZZZZZZ	71999	8.20	110621	9.04	60758	12.28	52433	14.84	27072	5.82
ZZZZZZ	70902	8.20	110073	9.04	60054	12.28	51595	14.84	25697	5.82
M94105-1MS	73676	8.20	112797	9.04	65313	12.28	60118	14.83	25336	5.82
M94105-1MSD	73568	8.20	113684	9.04	64457	12.28	58618	14.83	25614	5.81

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Check Std:	MSL1470-CC1448	**Injection Date:**	09/10/10
Lab File ID:	L44710.D	**Injection Time:**	10:14
Instrument ID:	GCMSL	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	75286	8.20	114547	9.04	66566	12.28	59474	14.83	25970	5.82
Upper Limit [a]	150572	8.70	229094	9.54	133132	12.78	118948	15.33	51940	6.32
Lower Limit [b]	37643	7.70	57274	8.54	33283	11.78	29737	14.33	12985	5.32

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSL1470-BS	76399	8.20	116540	9.04	66964	12.28	60575	14.83	26385	5.82
MSL1470-MB	75401	8.20	115622	9.04	63157	12.28	55804	14.84	27735	5.82
M94105-7	74025	8.20	113887	9.04	62645	12.28	55343	14.84	25848	5.82
M94105-3	72005	8.20	109248	9.04	60118	12.28	51613	14.84	27352	5.82
M94105-5	72608	8.20	110859	9.04	61154	12.28	52120	14.84	28442	5.82
ZZZZZZ	71743	8.20	110966	9.04	61580	12.28	53133	14.84	27248	5.82
ZZZZZZ	71763	8.20	110368	9.04	60796	12.28	53891	14.84	26122	5.82
ZZZZZZ	72335	8.20	112737	9.04	61474	12.28	55510	14.84	24691	5.82
ZZZZZZ	77190	8.20	117898	9.04	64507	12.28	62278	14.83	27261	5.82
ZZZZZZ	84005	8.20	125873	9.04	69015	12.28	64086	14.83	29451	5.82
ZZZZZZ	85158	8.20	127046	9.04	68954	12.28	62901	14.84	31911	5.82
ZZZZZZ	84883	8.20	126114	9.04	68007	12.28	62180	14.83	30774	5.81
M94105-7MS	84025	8.20	125966	9.04	71122	12.28	62696	14.83	26489	5.82
M94105-7MSD	84891	8.20	127728	9.04	71686	12.28	64907	14.83	28209	5.82

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M94105-1	L44693.D	110.0	103.0	98.0
M94105-3	L44717.D	112.0	108.0	102.0
M94105-3	L44694.D	108.0	105.0	98.0
M94105-5	L44718.D	113.0	106.0	103.0
M94105-5	L44695.D	105.0	104.0	96.0
M94105-7	L44714.D	111.0	104.0	97.0
M94105-9	L44692.D	107.0	104.0	98.0
M94105-10	L44697.D	110.0	104.0	98.0
M94105-12	L44698.D	112.0	104.0	97.0
M94105-14	L44699.D	111.0	105.0	98.0
M94105-16	L44700.D	111.0	104.0	100.0
M94105-1MS	L44705.D	105.0	105.0	93.0
M94105-1MSD	L44706.D	108.0	105.0	97.0
M94105-7MS	L44734.D	98.0	104.0	98.0
M94105-7MSD	L44735.D	102.0	103.0	97.0
MSL1469-BS	L44683.D	104.0	104.0	94.0
MSL1469-MB	L44685.D	108.0	105.0	98.0
MSL1470-BS	L44711.D	106.0	105.0	97.0
MSL1470-MB	L44713.D	110.0	105.0	99.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

New England ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22661-MB	BC44750.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M94105-1, M94105-3, M94105-5, M94105-7, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	73%	50-149%

Method Blank Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22665-MB	EF79635.D	1	09/16/10	SL	09/15/10	OP22665	GEF3550

The QC reported here applies to the following samples: **Method:** SW846 8082

M94105-1, M94105-3, M94105-5, M94105-7, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	101%	30-150%
877-09-8	Tetrachloro-m-xylene	118%	30-150%
2051-24-3	Decachlorobiphenyl	65%	30-150%
2051-24-3	Decachlorobiphenyl	59%	30-150%

Blank Spike Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22661-BS	BC44752.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M94105-1, M94105-3, M94105-5, M94105-7, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	CT-DRO (C9-C36)	0.7	0.761	109	60-120

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	89%	50-149%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22665-BS	EF79637.D	1	09/16/10	SL	09/15/10	OP22665	GEF3550
OP22665-BSD	EF79638.D	1	09/16/10	SL	09/15/10	OP22665	GEF3550

The QC reported here applies to the following samples: **Method:** SW846 8082

M94105-1, M94105-3, M94105-5, M94105-7, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	2	2.0	100	1.9	95	5	40-140/20
11104-28-2	Aroclor 1221		ND		ND		nc	40-140/20
11141-16-5	Aroclor 1232		ND		ND		nc	40-140/20
53469-21-9	Aroclor 1242		ND		ND		nc	40-140/20
12672-29-6	Aroclor 1248		ND		ND		nc	40-140/20
11097-69-1	Aroclor 1254		ND		ND		nc	40-140/20
11096-82-5	Aroclor 1260	2	1.9	95	1.8	90	5	40-140/20
37324-23-5	Aroclor 1262		ND		ND		nc	40-140/20
11100-14-4	Aroclor 1268		ND		ND		nc	40-140/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	90%	87%	30-150%
877-09-8	Tetrachloro-m-xylene	89%	100%	30-150%
2051-24-3	Decachlorobiphenyl	56%	54%	30-150%
2051-24-3	Decachlorobiphenyl	61%	58%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22661-MS	BC44753.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
OP22661-MSD	BC44754.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170
M94245-4	BC44755.D	1	09/16/10	SS	09/15/10	OP22661	GBC2170

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M94105-1, M94105-3, M94105-5, M94105-7, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	M94245-4 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	ND		0.7	0.585	84	0.669	96	13	50-129/26

CAS No.	Surrogate Recoveries	MS	MSD	M94245-4	Limits
3386-33-2	1-Chlorooctadecane	78%	93%	82%	50-149%

6.4.1

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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22665-MS	EF79640.D	1	09/16/10	SL	09/15/10	OP22665	GEF3550
OP22665-MSD	EF79641.D	1	09/16/10	SL	09/15/10	OP22665	GEF3550
M94245-2	EF79642.D	1	09/16/10	SL	09/15/10	OP22665	GEF3550

The QC reported here applies to the following samples: **Method:** SW846 8082

M94105-1, M94105-3, M94105-5, M94105-7, M94105-10, M94105-12, M94105-14, M94105-16

CAS No.	Compound	M94245-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2	1.9	95	2.0	100	5	40-140/50
11104-28-2	Aroclor 1221	ND			ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND			ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND			ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND			ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	ND			ND		ND		nc	40-140/50
11096-82-5	Aroclor 1260	ND		2	1.8	90	2.1	105	15	40-140/50
37324-23-5	Aroclor 1262	ND			ND		ND		nc	40-140/50
11100-14-4	Aroclor 1268	ND			ND		ND		nc	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M94245-2	Limits
877-09-8	Tetrachloro-m-xylene	82%	101%	73%	30-150%
877-09-8	Tetrachloro-m-xylene	70%	116%	72%	30-150%
2051-24-3	Decachlorobiphenyl	53%	97%	56%	30-150%
2051-24-3	Decachlorobiphenyl	57%	104%	59%	30-150%

Semivolatile Surrogate Recovery Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: CT-ETPH 7/06 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
M94105-1	BC44756.D	75.0
M94105-3	BC44757.D	60.0
M94105-5	BC44758.D	88.0
M94105-7	BC44759.D	103.0
M94105-10	BC44761.D	87.0
M94105-12	BC44762.D	92.0
M94105-14	BC44841.D	30.0* [b]
M94105-14	BC44763.D	40.0* [b]
M94105-16	BC44764.D	84.0
OP22661-BS	BC44752.D	89.0
OP22661-MB	BC44750.D	73.0
OP22661-MS	BC44753.D	78.0
OP22661-MSD	BC44754.D	93.0

Surrogate Compounds	Recovery Limits
S1 = 1-Chlorooctadecane	50-149%

(a) Recovery from GC signal #1
(b) Outside control limits due to possible matrix interference. Sample results confirmed by re-extraction/reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: M94105
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8082 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
M94105-1	EF79643.D	93.0	108.0	94.0	106.0
M94105-3	EF79644.D	87.0	90.0	95.0	103.0
M94105-5	EF79645.D	89.0	89.0	95.0	98.0
M94105-7	EF79646.D	114.0	128.0	111.0	120.0
M94105-10	EF79647.D	79.0	79.0	84.0	89.0
M94105-12	EF79648.D	81.0	84.0	88.0	94.0
M94105-14	EF79649.D	97.0	111.0	75.0	81.0
M94105-16	EF79650.D	71.0	80.0	58.0	62.0
OP22665-BS	EF79637.D	90.0	89.0	56.0	61.0
OP22665-BSD	EF79638.D	87.0	100.0	54.0	58.0
OP22665-MB	EF79635.D	101.0	118.0	65.0	59.0
OP22665-MS	EF79640.D	82.0	70.0	53.0	57.0
OP22665-MSD	EF79641.D	101.0	116.0	97.0	104.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

New England ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15905
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/09/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.022	.048	-0.012	<0.20

Associated samples MP15905: M94105-2, M94105-4, M94105-6, M94105-8, M94105-11, M94105-13, M94105-15, M94105-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15905
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/09/10 09/09/10

Metal	M94105-2 Original	MS	Spikelot HGRWS1	% Rec	QC Limits	M94105-2 Original	DUP	RPD	QC Limits
Mercury	0.0	2.8	3	93.3	75-125	0.0	0.0	NC	0-20

Associated samples MP15905: M94105-2, M94105-4, M94105-6, M94105-8, M94105-11, M94105-13, M94105-15, M94105-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15905
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/09/10 09/09/10

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	3.0	3	100.0	80-120	3.0	3	100.0	0.0	20

Associated samples MP15905: M94105-2, M94105-4, M94105-6, M94105-8, M94105-11, M94105-13, M94105-15, M94105-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15909
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:					09/10/10		09/10/10
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	17	17				
Antimony	6.0	1.2	1.2				
Arsenic	4.0	1.1	1.9	0.20	<4.0	0.60	<4.0
Barium	50	.36	3.7	1.5	<50	2.5	<50
Beryllium	4.0	.18	.18				
Boron	100	.34	1.5				
Cadmium	4.0	.08	.12	0.10	<4.0	0.10	<4.0
Calcium	5000	18	39				
Chromium	10	.48	.53	0.60	<10	0.60	<10
Cobalt	50	.19	.28				
Copper	25	.92	.92	0.30	<25	1.4	<25
Gold	50	1.3	1.7				
Iron	100	5.2	5.2				
Lead	5.0	1	1.5	0.10	<5.0	0.20	<5.0
Magnesium	5000	72	72				
Manganese	15	.14	.9				
Molybdenum	100	.15	.64				
Nickel	40	.25	.3	0.10	<40	0.20	<40
Palladium	50	2.3	2.5				
Platinum	50	8.4	8.4				
Potassium	5000	44	44				
Selenium	10	1.1	1.7	2.4	<10	1.3	<10
Silicon	100	6.4	7.2				
Silver	5.0	1	1	-0.90	<5.0	-0.70	<5.0
Sodium	5000	29	31				
Strontium	10	.4	.4				
Thallium	5.0	.65	.74				
Tin	100	.45	.45				
Titanium	50	.84	.84				
Tungsten	100	5.8	12				
Vanadium	10	.87	1.1				
Zinc	20	.27	2	0.40	<20	2.4	<20

Associated samples MP15909: M94105-2, M94105-4, M94105-6, M94105-8, M94105-11, M94105-13, M94105-15, M94105-17

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15909
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15909
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Metal	M94105-13 Original MS		Spikelot MPICP	% Rec	QC Limits	M94105-13 Original DUP		RPD	QC Limits
Prep Date:				09/10/10				09/10/10	
Aluminum	anr								
Antimony	anr								
Arsenic	0.0	491	500	98.2	75-125	0.0	0.0	NC	0-20
Barium	27.9	2070	2000	102.1	75-125	27.9	27.5	1.4	0-20
Beryllium	anr								
Boron									
Cadmium	0.20	516	500	103.2	75-125	0.20	0.20	0.0	0-20
Calcium	anr								
Chromium	4.3	502	500	99.5	75-125	4.3	4.7	8.9	0-20
Cobalt	anr								
Copper	2.9	507	500	100.8	75-125	2.9	2.9	0.0	0-20
Gold									
Iron	anr								
Lead	1.0	952	1000	95.1	75-125	1.0	0.0	200.0(a)	0-20
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	1.3	494	500	98.5	75-125	1.3	1.5	14.3	0-20
Palladium									
Platinum									
Potassium	anr								
Selenium	1.7	502	500	100.1	75-125	1.7	1.8	5.7	0-20
Silicon									
Silver	0.0	211	200	105.5	75-125	0.0	0.0	NC	0-20
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	20.6	518	500	99.5	75-125	20.6	17.8	14.6	0-20

Associated samples MP15909: M94105-2, M94105-4, M94105-6, M94105-8, M94105-11, M94105-13, M94105-15, M94105-17

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15909
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15909
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			09/10/10					09/10/10	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum	anr								
Antimony	anr								
Arsenic	488	500	97.6	80-120	484	500	96.8	0.8	20
Barium	2060	2000	103.0	80-120	2000	2000	100.0	3.0	20
Beryllium	anr								
Boron									
Cadmium	514	500	102.8	80-120	509	500	101.8	1.0	20
Calcium	anr								
Chromium	500	500	100.0	80-120	495	500	99.0	1.0	20
Cobalt	anr								
Copper	495	500	99.0	80-120	493	500	98.6	0.4	20
Gold									
Iron	anr								
Lead	956	1000	95.6	80-120	947	1000	94.7	0.9	20
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	494	500	98.8	80-120	488	500	97.6	1.2	20
Palladium									
Platinum									
Potassium	anr								
Selenium	502	500	100.4	80-120	499	500	99.8	0.6	20
Silicon									
Silver	208	200	104.0	80-120	207	200	103.5	0.5	20
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	498	500	99.6	80-120	494	500	98.8	0.8	20

Associated samples MP15909: M94105-2, M94105-4, M94105-6, M94105-8, M94105-11, M94105-13, M94105-15, M94105-17

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15909
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15909
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/10/10

Metal	M94105-13 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	27.9	31.0	11.1 (a)	0-10
Beryllium	anr			
Boron				
Cadmium	0.200	0.400	100.0(b)	0-10
Calcium	anr			
Chromium	4.30	5.20	20.9 (b)	0-10
Cobalt	anr			
Copper	2.90	0.00	100.0(b)	0-10
Gold				
Iron	anr			
Lead	1.00	0.00	100.0(b)	0-10
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	1.30	2.10	61.5 (b)	0-10
Palladium				
Platinum				
Potassium	anr			
Selenium	1.70	0.00	100.0(b)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	20.6	21.1	2.4	0-10

Associated samples MP15909: M94105-2, M94105-4, M94105-6, M94105-8, M94105-11, M94105-13, M94105-15, M94105-17

SERIAL DILUTION RESULTS SUMMARY

Login Number: M94105
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15909
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial Dilution RPD acceptable due to low duplicate and sample concentrations.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

09/20/10

Technical Report for

Loureiro Eng. Associates

UTC:P&W Willow Pond Quarterly GW Monitoring

88UT043.001

Accutest Job Number: M94151

Sampling Date: 09/09/10

Report to:

rlmckinney@loureiro.com

ATTN: Distribution6

Total number of pages in report: **79**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Accutest LabLink@17:14 20-Sep-2010

Sample Summary

Loureiro Eng. Associates

Job No: M94151

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M94151-1	09/09/10	09:00	HG	09/10/10	AQ	Ground Water	1152495
M94151-2	09/09/10	13:30	HG	09/10/10	AQ	Ground Water	1152496
M94151-3	09/09/10	13:30	HG	09/10/10	AQ	Ground Water	1152496UF
M94151-4	09/09/10	09:45	HG	09/10/10	AQ	Ground Water	1152497
M94151-5	09/09/10	09:45	HG	09/10/10	AQ	Ground Water	1152497UF
M94151-6	09/09/10	10:22	HG	09/10/10	AQ	Ground Water	1152484
M94151-7	09/09/10	10:22	HG	09/10/10	AQ	Ground Water	1152484UF
M94151-8	09/09/10	12:36	HG	09/10/10	AQ	Ground Water	1152485
M94151-9	09/09/10	12:36	HG	09/10/10	AQ	Ground Water	1152485UF
M94151-10	09/09/10	10:55	HG	09/10/10	AQ	Ground Water	1152486
M94151-11	09/09/10	10:55	HG	09/10/10	AQ	Ground Water	1152486UF
M94151-12	09/09/10	13:00	HG	09/10/10	AQ	Ground Water	1152490
M94151-13	09/09/10	13:00	HG	09/10/10	AQ	Ground Water	1152490UF

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Loureiro Eng. Associates	**Job No**	M94151
Site:	UTC:P&W Willow Pond Quarterly GW Monitoring	**Report Date**	9/20/2010 4:59:45 PM

11 Sample(s) were collected on 09/09/2010 and were received at Accutest on 09/10/2010 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of M94151. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSE2040

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94151-2MS, M94151-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 2-Hexanone, Naphthalene are outside control limits. Blank Spike meets program technical requirements.
- MS/MSD Recovery(s) for 1,2,3-Trichlorobenzene, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone, Naphthalene, Acrylonitrile are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Initial calibration verification standard MSE1987-ICV1987 for dichlorodifluoromethane exceed 35% Difference
- Continuing calibration check standard MSE2034-CC1987 for 1,2,3-trichlorobenzene exceed 30% Difference. This check standard met RCP criteria.
- MSE2040-BS/BSD/MS/MSD for Acrylonitrile: Outside control limits. Associated samples are non-detect for this compound.
- Blank Spike Duplic ate Recovery(s) for Naphthalene are outside control limits. Blank Spike meets program technical requirements.

Extractables by GC By Method CT-ETPH 7/06

Matrix AQ **Batch ID:** OP22681

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94245-9MS, M94245-9MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP22682

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M94245-10MS, M94245-10MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ	**Batch ID:** MP15918

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94151-5DUP, M94151-5MS, M94151-5SDL, M94151-5DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Selenium are outside control limits for sample MP15918-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Arsenic, Selenium are outside control limits for sample MP15918-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix AQ	**Batch ID:** MP15917

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94151-3DUP, M94151-3MS were used as the QC samples for metals.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M94151).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1152495		
Lab Sample ID:	M94151-1	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E48317.D	1	09/10/10	SC	n/a	n/a	MSE2040
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152495		
Lab Sample ID:	M94151-1	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152495		
Lab Sample ID:	M94151-1	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152496		
Lab Sample ID:	M94151-2	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E48318.D	1	09/11/10	SC	n/a	n/a	MSE2040
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152496		
Lab Sample ID:	M94151-2	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152496		
Lab Sample ID:	M94151-2	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152496		
Lab Sample ID:	M94151-2	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG21142.D	1	09/18/10	KD	09/16/10	OP22681	GBG681
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.085	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	58%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152496		
Lab Sample ID:	M94151-2	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ60386.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.27	ug/l	
11104-28-2	Aroclor 1221	ND	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.27	ug/l	
53469-21-9	Aroclor 1242	ND	0.27	ug/l	
12672-29-6	Aroclor 1248	ND	0.27	ug/l	
11097-69-1	Aroclor 1254	ND	0.27	ug/l	
11096-82-5	Aroclor 1260	ND	0.27	ug/l	
37324-23-5	Aroclor 1262	ND	0.27	ug/l	
11100-14-4	Aroclor 1268	ND	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		30-150%
877-09-8	Tetrachloro-m-xylene	88%		30-150%
2051-24-3	Decachlorobiphenyl	46%		30-150%
2051-24-3	Decachlorobiphenyl	47%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152496UF		
Lab Sample ID:	M94151-3	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	< 50	50	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/11/10	09/13/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12213
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15917
(4) Prep QC Batch: MP15918

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152497		
Lab Sample ID:	M94151-4	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E48322.D	1	09/11/10	SC	n/a	n/a	MSE2040
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	22.1	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	60.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152497		
Lab Sample ID:	M94151-4	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	58.7	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	42.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	96.1	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152497		
Lab Sample ID:	M94151-4	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152497		
Lab Sample ID:	M94151-4	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ60387.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	1.2	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		30-150%
877-09-8	Tetrachloro-m-xylene	81%		30-150%
2051-24-3	Decachlorobiphenyl	76%		30-150%
2051-24-3	Decachlorobiphenyl	78%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152497UF		
Lab Sample ID:	M94151-5	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	7.4	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	408	50	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	102	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	208	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	45.4	25	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/11/10	09/13/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	613	40	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	32.0	20	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12213
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15917
(4) Prep QC Batch: MP15918

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152485		
Lab Sample ID:	M94151-8	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E48323.D	1	09/11/10	SC	n/a	n/a	MSE2040
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	23.2	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.6	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.8	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152485		
Lab Sample ID:	M94151-8	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	5.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152485		
Lab Sample ID:	M94151-8	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152485		
Lab Sample ID:	M94151-8	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG21143.D	1	09/18/10	KD	09/16/10	OP22681	GBG681
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.285	0.081	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	67%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152485		
Lab Sample ID:	M94151-8	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ60388.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		30-150%
877-09-8	Tetrachloro-m-xylene	69%		30-150%
2051-24-3	Decachlorobiphenyl	69%		30-150%
2051-24-3	Decachlorobiphenyl	71%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152485UF		
Lab Sample ID:	M94151-9	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	496	50	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/11/10	09/13/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12213
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15917
(4) Prep QC Batch: MP15918

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152486		
Lab Sample ID:	M94151-10	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E48324.D	1	09/11/10	SC	n/a	n/a	MSE2040
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	4.2	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152486		
Lab Sample ID:	M94151-10	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	1.7	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	3.8	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	3.3	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152486		
Lab Sample ID:	M94151-10	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152486		
Lab Sample ID:	M94151-10	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG21144.D	1	09/18/10	KD	09/16/10	OP22681	GBG681
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	1.15	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	82%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152486		
Lab Sample ID:	M94151-10	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ60389.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		30-150%
877-09-8	Tetrachloro-m-xylene	83%		30-150%
2051-24-3	Decachlorobiphenyl	76%		30-150%
2051-24-3	Decachlorobiphenyl	77%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152486UF		
Lab Sample ID:	M94151-11	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	144	50	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	248	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	30.0	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	360	25	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/11/10	09/13/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	4100	40	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	22.4	20	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12213
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15917
(4) Prep QC Batch: MP15918

RL = Reporting Limit

Report of Analysis

Client Sample ID:	1152490		
Lab Sample ID:	M94151-12	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E48325.D	1	09/11/10	SC	n/a	n/a	MSE2040
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.2	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152490		
Lab Sample ID:	M94151-12	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	50.4	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	4.3	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152490		
Lab Sample ID:	M94151-12	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152490		
Lab Sample ID:	M94151-12	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	CT-ETPH 7/06 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG21145.D	1	09/18/10	KD	09/16/10	OP22681	GBG681
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.430	0.084	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	73%		50-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152490		
Lab Sample ID:	M94151-12	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ60391.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

CT Polychlorinated Biphenyls RCP List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		30-150%
877-09-8	Tetrachloro-m-xylene	87%		30-150%
2051-24-3	Decachlorobiphenyl	110%		30-150%
2051-24-3	Decachlorobiphenyl	112%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1152490UF		
Lab Sample ID:	M94151-13	**Date Sampled:**	09/09/10
Matrix:	AQ - Ground Water	**Date Received:**	09/10/10
		Percent Solids:	n/a
Project:	UTC:P&W Willow Pond Quarterly GW Monitoring		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Barium	366	50	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Cadmium	< 4.0	4.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	09/11/10	09/13/10	MA	SW846 7470A [1]	SW846 7470A [3]
Nickel	< 40	40	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Silver	< 5.0	5.0	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	09/13/10	09/13/10	DA	SW846 6010B [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12213
(2) Instrument QC Batch: MA12216
(3) Prep QC Batch: MP15917
(4) Prep QC Batch: MP15918

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (CT)
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

Parameter Certification Exceptions

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Aroclor 1262	37324-23-5	SW846 8082	AQ	Certified by SOP MGC204/GC-ECD
Aroclor 1268	11100-14-4	SW846 8082	AQ	Certified by SOP MGC204/GC-ECD

ACCUTEST Laboratories

1 of 2

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M94151
ACCUTEST QUOTE #: RB2-2009-453

CLIENT INFORMATION

NAME: Lawrence Engineering Associates, Inc.
ADDRESS: 100 Northwest Dr.
CITY: Plainville STATE: CT ZIP: 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860-410-3000

FACILITY INFORMATION

PROJECT NAME: Willow Brook / Willow Pond
LOCATION: Pratt + Whitney, East Hartford, CT
PROJECT NO.: 88UT043
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE # M94151	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOCs 8260B	CT ETPH	PCBs 8082	Total RCRA 8 + Cu, Ni, Zn	LAB USE ONLY
-1	1152495	9/9/10	900	HG	GW	1	X					X	X				
-2	1152496		1330			6	X					X	X	X	X		
-3	1152496uf		1330			1			X			X				X	
-4	1152497		945			4	X					X	X		X		
-5	1152497uf		945			1			X			X				X	
-6	1152484		1022			6						X	X	X	X		
-7	1152484uf		1022			1			X			X				X	
-8	1152485		1236			6						X	X	X	X		
-9	1152485uf	9/9/10	1236	HG	GW	1			X			X				X	

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

WC 18A, 5B, 3H5

COMMENTS/REMARKS

* Provide CTRCP analytical lists for VOCs and PCBs and provide EQ report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY: SAMPLER	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE TIME	RECEIVED BY:
1.	9/9/10 15:7	1.	2.	9-9-10 18:15	2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 1.9°C

4.2

4

M94151: Chain of Custody
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ACCUTEST Laboratories

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M94151
ACCUTEST QUOTE #: KB2/2009-453

CLIENT INFORMATION

NAME: LSA
ADDRESS: 100 Northwest Dr
CITY, STATE, ZIP: Plainville CT 06062
SEND REPORT TO: Robin McKinney
PHONE #: 860.747.6181

FACILITY INFORMATION

PROJECT NAME: UTC P+W Willow Pond GW
LOCATION: East Hartford CT
PROJECT NO.: 88UT043
FAX #: 860.747.8822

ANALYTICAL INFORMATION

VOC 8260 | PCB 8082 | CT ETPH | TCLP Pb, Cd, Ni, Zn

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE # M94151	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC 8260	PCB 8082	CT ETPH	TCLP Pb, Cd, Ni, Zn	LAB USE ONLY
-10	1152486	9/9/10	1055	KW	GW	6	2				4	X	X	X		
-11	1152486 uf	↓	1055	↓	↓	1			1						X	
-12	1152490	↓	1300	↓	↓	6	2				4	X	X	X		
-13	1152490 uf	9/9/10	1300	KW	GW	1			1						X	

DATA TURNAROUND INFORMATION

☑ 14 DAYS STANDARD
☐ 7 DAYS *RUSH*
☐ 48 HOUR EMERGENCY
☐ OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☑ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY)

COMMENTS/REMARKS

CT RCP analytical for VOC + PCBs, and CT RCP Report

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	9/9/10 5:7	1.	2.		2.
3.		3.	4.		4.
5.		5.			

SEAL # | PRESERVE WHERE APPLICABLE ☐ | ON ICE ☐ | TEMPERATURE ____ C

4.2 4

M94151: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M94151 **Client:** LEA **Immediate Client Services Action Required:** No

Date / Time Received: 9/10/2010 6:15:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: WILLOW **Airbill #'s:**

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservation	Y or N	N/A
1. Trip Blank present / cooler:	☑ ☐	
2. Trip Blank listed on COC:	☑ ☐	
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☑ ☐	☐

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume rec'd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

M94151: Chain of Custody
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Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Loureiro Eng. Associates**

Project Location: **UTC:P&W Willow Pond Quarterly GW Monitoring** **Project Number:** **88UT043.001**

Sampling Date(s): **9/9/2010**

Laboratory Sample ID(s): M94151-1, M94151-2, M94151-3, M94151-4, M94151-5, M94151-6, M94151-7, M94151-8, M94151-9, M94151-10, M94151-11, M94151-12, M94151-13

Methods: CT-ETPH 7/06, SW846 6010B, SW846 7470A, SW846 8082, SW846 8260B

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☐ No ☑
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☑ No ☐

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Lab Director

Printed Name: Reza Tand Date: 9/20/2010
Accutest New England

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M94151

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M94151-1 1152495	Collected: 09-SEP-10 09:00 By: HG		Received: 10-SEP-10 By: SAP			
M94151-1	SW846 8260B	10-SEP-10 23:34	SC			V8260RCP
M94151-2 1152496	Collected: 09-SEP-10 13:30 By: HG		Received: 10-SEP-10 By: SAP			
M94151-2	SW846 8260B	11-SEP-10 00:03	SC			V8260RCP
M94151-2	SW846 8082	17-SEP-10 19:34	CZ	16-SEP-10	MEW	P8082RCP
M94151-2	CT-ETPH 7/06	18-SEP-10 10:17	KD	16-SEP-10	MEW	BCTTPH
M94151-3 1152496UF	Collected: 09-SEP-10 13:30 By: HG		Received: 10-SEP-10 By: SAP			
M94151-3	SW846 7470A	13-SEP-10 10:16	MA	11-SEP-10	MA	HG
M94151-3	SW846 6010B	13-SEP-10 22:25	DA	13-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94151-4 1152497	Collected: 09-SEP-10 09:45 By: HG		Received: 10-SEP-10 By: SAP			
M94151-4	SW846 8260B	11-SEP-10 01:59	SC			V8260RCP
M94151-4	SW846 8082	17-SEP-10 19:48	CZ	16-SEP-10	MEW	P8082RCP
M94151-5 1152497UF	Collected: 09-SEP-10 09:45 By: HG		Received: 10-SEP-10 By: SAP			
M94151-5	SW846 7470A	13-SEP-10 10:21	MA	11-SEP-10	MA	HG
M94151-5	SW846 6010B	13-SEP-10 21:09	DA	13-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94151-8 1152485	Collected: 09-SEP-10 12:36 By: HG		Received: 10-SEP-10 By: SAP			
M94151-8	SW846 8260B	11-SEP-10 02:20	SC			V8260RCP
M94151-8	SW846 8082	17-SEP-10 20:10	CZ	16-SEP-10	MEW	P8082RCP
M94151-8	CT-ETPH 7/06	18-SEP-10 10:53	KD	16-SEP-10	MEW	BCTTPH

Internal Sample Tracking Chronicle

Loureiro Eng. Associates

Job No: M94151

UTC:P&W Willow Pond Quarterly GW Monitoring
Project No: 88UT043.001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M94151-9 1152485UF	Collected: 09-SEP-10 12:36 By: HG		Received: 10-SEP-10 By: SAP			
M94151-9	SW846 7470A	13-SEP-10 10:28	MA	11-SEP-10	MA	HG
M94151-9	SW846 6010B	13-SEP-10 22:38	DA	13-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94151-10 1152486	Collected: 09-SEP-10 10:55 By: HG		Received: 10-SEP-10 By: SAP			
M94151-10	SW846 8260B	11-SEP-10 02:49	SC			V8260RCP
M94151-10	SW846 8082	17-SEP-10 20:31	CZ	16-SEP-10	MEW	P8082RCP
M94151-10	CT-ETPH 7/06	18-SEP-10 11:28	KD	16-SEP-10	MEW	BCTTPH
M94151-11 1152486UF	Collected: 09-SEP-10 10:55 By: HG		Received: 10-SEP-10 By: SAP			
M94151-11	SW846 7470A	13-SEP-10 10:30	MA	11-SEP-10	MA	HG
M94151-11	SW846 6010B	13-SEP-10 22:20	DA	13-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN
M94151-12 1152490	Collected: 09-SEP-10 13:00 By: HG		Received: 10-SEP-10 By: SAP			
M94151-12	SW846 8260B	11-SEP-10 03:18	SC			V8260RCP
M94151-12	SW846 8082	17-SEP-10 21:07	CZ	16-SEP-10	MEW	P8082RCP
M94151-12	CT-ETPH 7/06	18-SEP-10 12:04	KD	16-SEP-10	MEW	BCTTPH
M94151-13 1152490UF	Collected: 09-SEP-10 13:00 By: HG		Received: 10-SEP-10 By: SAP			
M94151-13	SW846 7470A	13-SEP-10 10:32	MA	11-SEP-10	MA	HG
M94151-13	SW846 6010B	13-SEP-10 22:43	DA	13-SEP-10	EM	AG,AS,BA,CD,CR,CU,NI,PB,SE, ZN

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2040-MB	E48315.D	1	09/10/10	SC	n/a	n/a	MSE2040

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94151-1, M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-13-1	Acrylonitrile	ND	25	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	

Method Blank Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2040-MB	E48315.D	1	09/10/10	SC	n/a	n/a	MSE2040

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94151-1, M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2040-MB	E48315.D	1	09/10/10	SC	n/a	n/a	MSE2040

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94151-1, M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2040-BS	E48313.D	1	09/10/10	SC	n/a	n/a	MSE2040
MSE2040-BSD	E48314.D	1	09/10/10	SC	n/a	n/a	MSE2040

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94151-1, M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	43.3	87	45.1	90	4	70-130/25
107-13-1	Acrylonitrile	50	228	456* [a]	250	500* [a]	9	70-130/25
71-43-2	Benzene	50	48.5	97	50.5	101	4	70-130/25
108-86-1	Bromobenzene	50	46.0	92	44.5	89	3	70-130/25
75-27-4	Bromodichloromethane	50	52.6	105	53.5	107	2	70-130/25
75-25-2	Bromoform	50	50.2	100	48.7	97	3	70-130/25
74-83-9	Bromomethane	50	47.5	95	49.3	99	4	70-130/25
78-93-3	2-Butanone (MEK)	50	37.9	76	44.6	89	16	70-130/25
104-51-8	n-Butylbenzene	50	48.7	97	47.9	96	2	70-130/25
135-98-8	sec-Butylbenzene	50	49.2	98	48.4	97	2	70-130/25
98-06-6	tert-Butylbenzene	50	49.1	98	47.7	95	3	70-130/25
75-15-0	Carbon disulfide	50	53.0	106	55.0	110	4	70-130/25
56-23-5	Carbon tetrachloride	50	50.1	100	52.2	104	4	70-130/25
108-90-7	Chlorobenzene	50	49.0	98	47.7	95	3	70-130/25
75-00-3	Chloroethane	50	47.4	95	50.7	101	7	70-130/25
67-66-3	Chloroform	50	52.7	105	56.3	113	7	70-130/25
74-87-3	Chloromethane	50	42.1	84	41.4	83	2	70-130/25
95-49-8	o-Chlorotoluene	50	48.9	98	47.9	96	2	70-130/25
106-43-4	p-Chlorotoluene	50	49.5	99	50.1	100	1	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	44.4	89	43.9	88	1	70-130/25
124-48-1	Dibromochloromethane	50	45.9	92	45.6	91	1	70-130/25
106-93-4	1,2-Dibromoethane	50	47.4	95	47.0	94	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	47.3	95	47.4	95	0	70-130/25
541-73-1	1,3-Dichlorobenzene	50	48.6	97	48.3	97	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	49.1	98	48.1	96	2	70-130/25
75-71-8	Dichlorodifluoromethane	50	48.7	97	49.4	99	1	70-130/25
75-34-3	1,1-Dichloroethane	50	51.8	104	54.2	108	5	70-130/25
107-06-2	1,2-Dichloroethane	50	53.4	107	54.5	109	2	70-130/25
75-35-4	1,1-Dichloroethene	50	51.6	103	53.8	108	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	49.1	98	49.4	99	1	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	49.4	99	51.4	103	4	70-130/25
78-87-5	1,2-Dichloropropane	50	50.7	101	49.9	100	2	70-130/25
142-28-9	1,3-Dichloropropane	50	49.6	99	48.0	96	3	70-130/25
594-20-7	2,2-Dichloropropane	50	59.3	119	59.7	119	1	70-130/25
563-58-6	1,1-Dichloropropene	50	51.1	102	51.2	102	0	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	52.7	105	52.4	105	1	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2040-BS	E48313.D	1	09/10/10	SC	n/a	n/a	MSE2040
MSE2040-BSD	E48314.D	1	09/10/10	SC	n/a	n/a	MSE2040

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94151-1, M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	58.3	117	57.6	115	1	70-130/25
100-41-4	Ethylbenzene	50	48.2	96	46.5	93	4	70-130/25
76-13-1	Freon 113	50	54.0	108	54.2	108	0	70-130/25
87-68-3	Hexachlorobutadiene	50	47.7	95	47.3	95	1	70-130/25
591-78-6	2-Hexanone	50	31.0	62* b	34.8	70	12	70-130/25
98-82-8	Isopropylbenzene	50	55.7	111	54.8	110	2	70-130/25
99-87-6	p-Isopropyltoluene	50	49.1	98	49.9	100	2	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	50.2	100	52.1	104	4	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	43.5	87	42.3	85	3	70-130/25
74-95-3	Methylene bromide	50	51.5	103	52.7	105	2	70-130/25
75-09-2	Methylene chloride	50	53.5	107	57.0	114	6	70-130/25
91-20-3	Naphthalene	50	34.7	69* b	33.9	68* b	2	70-130/25
103-65-1	n-Propylbenzene	50	49.2	98	47.6	95	3	70-130/25
100-42-5	Styrene	50	48.0	96	47.1	94	2	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	47.6	95	47.8	96	0	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	52.4	105	52.4	105	0	70-130/25
127-18-4	Tetrachloroethene	50	45.7	91	45.0	90	2	70-130/25
109-99-9	Tetrahydrofuran	50	42.2	84	44.6	89	6	70-130/25
108-88-3	Toluene	50	53.1	106	52.5	105	1	70-130/25
110-57-6	Trans-1,4-Dichloro-2-Butene	50	45.5	91	45.0	90	1	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	35.6	71	35.0	70	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	41.7	83	40.1	80	4	70-130/25
71-55-6	1,1,1-Trichloroethane	50	56.3	113	57.5	115	2	70-130/25
79-00-5	1,1,2-Trichloroethane	50	51.7	103	52.5	105	2	70-130/25
79-01-6	Trichloroethene	50	46.9	94	47.0	94	0	70-130/25
75-69-4	Trichlorofluoromethane	50	47.7	95	48.9	98	2	70-130/25
96-18-4	1,2,3-Trichloropropane	50	46.5	93	45.4	91	2	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	48.7	97	48.5	97	0	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	50.1	100	48.8	98	3	70-130/25
75-01-4	Vinyl chloride	50	47.1	94	49.0	98	4	70-130/25
	m,p-Xylene	100	99.8	100	98.6	99	1	70-130/25
95-47-6	o-Xylene	50	50.9	102	49.2	98	3	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSE2040-BS	E48313.D	1	09/10/10	SC	n/a	n/a	MSE2040
MSE2040-BSD	E48314.D	1	09/10/10	SC	n/a	n/a	MSE2040

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94151-1, M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	101%	70-130%
2037-26-5	Toluene-D8	99%	102%	70-130%
460-00-4	4-Bromofluorobenzene	93%	93%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94151-2MS	E48319.D	5	09/11/10	SC	n/a	n/a	MSE2040
M94151-2MSD	E48320.D	5	09/11/10	SC	n/a	n/a	MSE2040
M94151-2	E48318.D	1	09/11/10	SC	n/a	n/a	MSE2040

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94151-1, M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Compound	M94151-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	87.2	35* [a]	99.6	40* [a]	13	70-130/30
107-13-1	Acrylonitrile	ND		250	1140	456* [b]	1160	464* [b]	2	70-130/30
71-43-2	Benzene	ND		250	254	102	248	99	2	70-130/30
108-86-1	Bromobenzene	ND		250	221	88	224	90	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	260	104	259	104	0	70-130/30
75-25-2	Bromoform	ND		250	225	90	236	94	5	70-130/30
74-83-9	Bromomethane	ND		250	260	104	257	103	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	128	51* [a]	133	53* [a]	4	70-130/30
104-51-8	n-Butylbenzene	ND		250	240	96	237	95	1	70-130/30
135-98-8	sec-Butylbenzene	ND		250	241	96	240	96	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	238	95	229	92	4	70-130/30
75-15-0	Carbon disulfide	ND		250	233	93	248	99	6	70-130/30
56-23-5	Carbon tetrachloride	ND		250	277	111	262	105	6	70-130/30
108-90-7	Chlorobenzene	ND		250	241	96	238	95	1	70-130/30
75-00-3	Chloroethane	ND		250	248	99	260	104	5	70-130/30
67-66-3	Chloroform	ND		250	273	109	270	108	1	70-130/30
74-87-3	Chloromethane	ND		250	210	84	221	88	5	70-130/30
95-49-8	o-Chlorotoluene	ND		250	236	94	235	94	0	70-130/30
106-43-4	p-Chlorotoluene	ND		250	245	98	239	96	2	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	228	91	210	84	8	70-130/30
124-48-1	Dibromochloromethane	ND		250	219	88	217	87	1	70-130/30
106-93-4	1,2-Dibromoethane	ND		250	235	94	231	92	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	231	92	226	90	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	238	95	230	92	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	246	98	243	97	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	256	102	262	105	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	272	109	267	107	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	278	111	266	106	4	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	267	107	264	106	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	249	100	247	99	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	257	103	255	102	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	249	100	234	94	6	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	248	99	237	95	5	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	307	123	308	123	0	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	262	105	250	100	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	240	96	241	96	0	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94151-2MS	E48319.D	5	09/11/10	SC	n/a	n/a	MSE2040
M94151-2MSD	E48320.D	5	09/11/10	SC	n/a	n/a	MSE2040
M94151-2	E48318.D	1	09/11/10	SC	n/a	n/a	MSE2040

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94151-1, M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Compound	M94151-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	267	107	268	107	0	70-130/30
100-41-4	Ethylbenzene	ND		250	233	93	231	92	1	70-130/30
76-13-1	Freon 113	ND		250	279	112	288	115	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	242	97	238	95	2	70-130/30
591-78-6	2-Hexanone	ND		250	101	40* [a]	97.0	39* [a]	4	70-130/30
98-82-8	Isopropylbenzene	ND		250	268	107	263	105	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	243	97	243	97	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	241	96	253	101	5	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	164	66* [a]	173	69* [a]	5	70-130/30
74-95-3	Methylene bromide	ND		250	268	107	253	101	6	70-130/30
75-09-2	Methylene chloride	ND		250	262	105	261	104	0	70-130/30
91-20-3	Naphthalene	ND		250	161	64* [a]	157	63* [a]	3	70-130/30
103-65-1	n-Propylbenzene	ND		250	234	94	231	92	1	70-130/30
100-42-5	Styrene	ND		250	228	91	241	96	6	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	246	98	235	94	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	258	103	252	101	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	232	93	225	90	3	70-130/30
109-99-9	Tetrahydrofuran	ND		250	199	80	214	86	7	70-130/30
108-88-3	Toluene	ND		250	263	105	253	101	4	70-130/30
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		250	190	76	217	87	13	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	170	68* [a]	162	65* [a]	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	194	78	193	77	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	287	115	289	116	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	259	104	248	99	4	70-130/30
79-01-6	Trichloroethene	ND		250	245	98	235	94	4	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	252	101	262	105	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	209	84	214	86	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	235	94	230	92	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	244	98	240	96	2	70-130/30
75-01-4	Vinyl chloride	ND		250	253	101	244	98	4	70-130/30
	m,p-Xylene	ND		500	489	98	485	97	1	70-130/30
95-47-6	o-Xylene	ND		250	254	102	242	97	5	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94151-2MS	E48319.D	5	09/11/10	SC	n/a	n/a	MSE2040
M94151-2MSD	E48320.D	5	09/11/10	SC	n/a	n/a	MSE2040
M94151-2	E48318.D	1	09/11/10	SC	n/a	n/a	MSE2040

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94151-1, M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Surrogate Recoveries	MS	MSD	M94151-2	Limits
1868-53-7	Dibromofluoromethane	106%	108%	109%	70-130%
2037-26-5	Toluene-D8	104%	101%	104%	70-130%
460-00-4	4-Bromofluorobenzene	94%	95%	92%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Associated samples are non-detect for this compound.

Volatile Internal Standard Area Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Check Std:	MSE2040-CC1987	**Injection Date:**	09/10/10
Lab File ID:	E48312.D	**Injection Time:**	21:19
Instrument ID:	GCMSE	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	156015	9.16	231446	10.05	100492	13.31	117133	15.87	29054	6.68
Upper Limit [a]	312030	9.66	462892	10.55	200984	13.81	234266	16.37	58108	7.18
Lower Limit [b]	78008	8.66	115723	9.55	50246	12.81	58567	15.37	14527	6.18

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSE2040-BS	152707	9.16	223738	10.05	98045	13.30	112256	15.86	28459	6.67
MSE2040-BSD	148093	9.16	222170	10.04	100321	13.30	114858	15.86	26113	6.67
MSE2040-MB	144755	9.16	214954	10.04	91033	13.30	103862	15.86	28834	6.68
ZZZZZZ	141771	9.16	207198	10.04	87592	13.30	101343	15.86	21876	6.67
M94151-1	137608	9.16	194959	10.04	85196	13.31	94841	15.86	19794	6.67
M94151-2	138540	9.17	197977	10.04	85929	13.31	94160	15.86	23054	6.67
M94151-2MS	142643	9.16	207115	10.04	91781	13.30	108681	15.85	24680	6.67
M94151-2MSD	140943	9.16	213533	10.04	94191	13.31	111608	15.86	26316	6.68
M94151-4	141557	9.16	206694	10.04	86130	13.30	95239	15.86	23738	6.68
M94151-8	136376	9.16	191737	10.05	82556	13.30	95822	15.86	23017	6.67
M94151-10	134109	9.17	199085	10.04	84769	13.31	91799	15.86	25720	6.68
M94151-12	130775	9.17	193003	10.04	80097	13.30	90120	15.86	21054	6.67
ZZZZZZ	131120	9.16	186884	10.05	80815	13.30	89740	15.86	21098	6.68
ZZZZZZ	128370	9.16	186301	10.04	79488	13.31	87810	15.86	19595	6.68
ZZZZZZ	126459	9.16	179596	10.04	77371	13.30	87836	15.86	20984	6.68
ZZZZZZ	123671	9.16	178445	10.04	76900	13.30	84849	15.87	20670	6.67
ZZZZZZ	118282	9.16	176052	10.04	75995	13.30	82728	15.86	21193	6.68
ZZZZZZ	121618	9.16	179336	10.04	77385	13.30	82304	15.86	20469	6.67
ZZZZZZ	115665	9.16	174255	10.04	75855	13.30	82269	15.86	21150	6.68
ZZZZZZ	118056	9.17	171349	10.04	73791	13.30	80338	15.86	21192	6.67
ZZZZZZ	117939	9.16	167933	10.04	73118	13.30	79986	15.86	20710	6.67
ZZZZZZ	115081	9.16	163900	10.04	72823	13.30	81135	15.86	21639	6.67
ZZZZZZ	117788	9.16	172225	10.04	73731	13.30	77589	15.86	21695	6.67

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M94151-1	E48317.D	104.0	103.0	94.0
M94151-2	E48318.D	109.0	104.0	92.0
M94151-4	E48322.D	106.0	99.0	90.0
M94151-8	E48323.D	110.0	105.0	89.0
M94151-10	E48324.D	113.0	102.0	93.0
M94151-12	E48325.D	115.0	100.0	91.0
M94151-2MS	E48319.D	106.0	104.0	94.0
M94151-2MSD	E48320.D	108.0	101.0	95.0
MSE2040-BS	E48313.D	101.0	99.0	93.0
MSE2040-BSD	E48314.D	101.0	102.0	93.0
MSE2040-MB	E48315.D	106.0	102.0	91.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22681-MB	BG21135.D	1	09/18/10	KD	09/16/10	OP22681	GBG681

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M94151-2, M94151-8, M94151-10, M94151-12

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	93%	50-149%

Method Blank Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22682-MB	YZ60380.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572

The QC reported here applies to the following samples: **Method:** SW846 8082

M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	73%	30-150%
877-09-8	Tetrachloro-m-xylene	72%	30-150%
2051-24-3	Decachlorobiphenyl	58%	30-150%
2051-24-3	Decachlorobiphenyl	56%	30-150%

Blank Spike Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22681-BS	BG21136.D	1	09/18/10	KD	09/16/10	OP22681	GBG681

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M94151-2, M94151-8, M94151-10, M94151-12

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	CT-DRO (C9-C36)	0.7	0.577	82	60-120

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	82%	50-149%

Blank Spike Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22682-BS	YZ60381.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572

The QC reported here applies to the following samples: **Method:** SW846 8082

M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	1.7	85	40-140
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	2	1.8	90	40-140
37324-23-5	Aroclor 1262		ND		40-140
11100-14-4	Aroclor 1268		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	78%	30-150%
877-09-8	Tetrachloro-m-xylene	75%	30-150%
2051-24-3	Decachlorobiphenyl	51%	30-150%
2051-24-3	Decachlorobiphenyl	50%	30-150%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22681-MS	BG21137.D	1	09/18/10	KD	09/16/10	OP22681	GBG681
OP22681-MSD	BG21138.D	1	09/18/10	KD	09/16/10	OP22681	GBG681
M94245-9	BG21139.D	1	09/18/10	KD	09/16/10	OP22681	GBG681

The QC reported here applies to the following samples: **Method:** CT-ETPH 7/06

M94151-2, M94151-8, M94151-10, M94151-12

CAS No.	Compound	M94245-9 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.0765		0.7	0.578	72	0.628	79	8	50-129/26

CAS No.	Surrogate Recoveries	MS	MSD	M94245-9	Limits
3386-33-2	1-Chlorooctadecane	81%	94%	102%	50-149%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22682-MS	YZ60382.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572
OP22682-MSD	YZ60383.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572
M94245-10	YZ60384.D	1	09/17/10	CZ	09/16/10	OP22682	GYZ2572

The QC reported here applies to the following samples: **Method:** SW846 8082

M94151-2, M94151-4, M94151-8, M94151-10, M94151-12

CAS No.	Compound	M94245-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2	1.9	95	2.1	105	10	40-140/50
11104-28-2	Aroclor 1221	ND			ND		ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND			ND		ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND			ND		ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND			ND		ND		nc	40-140/50
11097-69-1	Aroclor 1254	ND			ND		ND		nc	40-140/50
11096-82-5	Aroclor 1260	ND		2	1.8	90	2.0	100	11	40-140/50
37324-23-5	Aroclor 1262	ND			ND		ND		nc	40-140/50
11100-14-4	Aroclor 1268	ND			ND		ND		nc	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	M94245-10	Limits
877-09-8	Tetrachloro-m-xylene	73%	85%	71%	30-150%
877-09-8	Tetrachloro-m-xylene	68%	83%	60%	30-150%
2051-24-3	Decachlorobiphenyl	50%	55%	49%	30-150%
2051-24-3	Decachlorobiphenyl	49%	55%	49%	30-150%

Semivolatile Surrogate Recovery Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: CT-ETPH 7/06 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
M94151-2	BG21142.D	58.0
M94151-8	BG21143.D	67.0
M94151-10	BG21144.D	82.0
M94151-12	BG21145.D	73.0
OP22681-BS	BG21136.D	82.0
OP22681-MB	BG21135.D	93.0
OP22681-MS	BG21137.D	81.0
OP22681-MSD	BG21138.D	94.0

Surrogate Compounds	Recovery Limits
S1 = 1-Chlorooctadecane	50-149%

(a) Recovery from GC signal #1

Semivolatile Surrogate Recovery Summary

Job Number: M94151
Account: LEA Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

Method: SW846 8082 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
M94151-2	YZ60386.D	87.0	88.0	46.0	47.0
M94151-4	YZ60387.D	79.0	81.0	76.0	78.0
M94151-8	YZ60388.D	66.0	69.0	69.0	71.0
M94151-10	YZ60389.D	87.0	83.0	76.0	77.0
M94151-12	YZ60391.D	99.0	87.0	110.0	112.0
OP22682-BS	YZ60381.D	78.0	75.0	51.0	50.0
OP22682-MB	YZ60380.D	73.0	72.0	58.0	56.0
OP22682-MS	YZ60382.D	73.0	68.0	50.0	49.0
OP22682-MSD	YZ60383.D	85.0	83.0	55.0	55.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15917
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/11/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.022	.048	-0.015	<0.20

Associated samples MP15917: M94151-3, M94151-5, M94151-9, M94151-11, M94151-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15917
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/11/10 09/11/10

Metal	M94151-3 Original	MS	Spikelot HGRWS1	% Rec	QC Limits	M94151-3 Original	DUP	RPD	QC Limits
Mercury	0.0	3.0	3	100.0	75-125	0.0	0.0	NC	0-20

Associated samples MP15917: M94151-3, M94151-5, M94151-9, M94151-11, M94151-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15917
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/11/10 09/11/10

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	2.9	3	96.7	80-120	3.0	3	100.0	3.4	20

Associated samples MP15917: M94151-3, M94151-5, M94151-9, M94151-11, M94151-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.3

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15918
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:					09/13/10		09/13/10		09/13/10
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	17	17						
Antimony	6.0	1.2	1.2						
Arsenic	4.0	1.1	1.9	0.40	<4.0	0.0	<4.0	0.60	<4.0
Barium	50	.36	3.7	2.3	<50	2.9	<50	1.8	<50
Beryllium	4.0	.18	.18						
Boron	100	.34	1.5						
Cadmium	4.0	.08	.12	0.20	<4.0	0.10	<4.0	0.20	<4.0
Calcium	5000	18	39						
Chromium	10	.48	.53	0.50	<10	0.40	<10	0.10	<10
Cobalt	50	.19	.28						
Copper	25	.92	.92	1.0	<25	1.4	<25	1.3	<25
Gold	50	1.3	1.7						
Iron	100	5.2	5.2						
Lead	5.0	1	1.5	0.50	<5.0	-0.70	<5.0	-0.10	<5.0
Magnesium	5000	72	72						
Manganese	15	.14	.9						
Molybdenum	100	.15	.64						
Nickel	40	.25	.3	0.10	<40	0.0	<40	0.10	<40
Palladium	50	2.3	2.5						
Platinum	50	8.4	8.4						
Potassium	5000	44	44						
Selenium	10	1.1	1.7	2.2	<10	1.5	<10	2.0	<10
Silicon	100	6.4	7.2						
Silver	5.0	1	1	-0.80	<5.0	-0.50	<5.0	-0.90	<5.0
Sodium	5000	29	31						
Strontium	10	.4	.4						
Thallium	5.0	.65	.74						
Tin	100	.45	.45						
Titanium	50	.84	.84						
Tungsten	100	5.8	12						
Vanadium	10	.87	1.1						
Zinc	20	.27	2	0.30	<20	1.3	<20	0.90	<20

Associated samples MP15918: M94151-3, M94151-5, M94151-9, M94151-11, M94151-13

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15918 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.1

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15918
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:				09/13/10				09/13/10	
Metal	M94151-5 Original	MS	Spikelot MPICP	% Rec	QC Limits	M94151-5 Original	DUP	RPD	QC Limits
Aluminum									
Antimony									
Arsenic	7.4	506	500	99.7	75-125	7.4	7.7	4.0	0-20
Barium	408	2460	2000	102.6	75-125	408	408	0.0	0-20
Beryllium	anr								
Boron									
Cadmium	102	613	500	102.2	75-125	102	100	2.0	0-20
Calcium									
Chromium	208	709	500	100.2	75-125	208	206	1.0	0-20
Cobalt									
Copper	45.4	557	500	102.3	75-125	45.4	46.0	1.3	0-20
Gold									
Iron	anr								
Lead	0.0	972	1000	97.2	75-125	0.0	0.0	NC	0-20
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	613	1090	500	95.4	75-125	613	606	1.1	0-20
Palladium									
Platinum									
Potassium									
Selenium	1.5	503	500	100.3	75-125	1.5	2.2	37.8 (a)	0-20
Silicon									
Silver	0.0	215	200	107.5	75-125	0.0	0.0	NC	0-20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc	32.0	538	500	101.2	75-125	32.0	31.7	0.9	0-20

Associated samples MP15918: M94151-3, M94151-5, M94151-9, M94151-11, M94151-13

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15918
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15918
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			09/13/10					09/13/10	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	496	500	99.2	80-120	504	500	100.8	1.6	20
Barium	2020	2000	101.0	80-120	2040	2000	102.0	1.0	20
Beryllium	anr								
Boron									
Cadmium	513	500	102.6	80-120	522	500	104.4	1.7	20
Calcium									
Chromium	502	500	100.4	80-120	508	500	101.6	1.2	20
Cobalt									
Copper	501	500	100.2	80-120	512	500	102.4	2.2	20
Gold									
Iron	anr								
Lead	966	1000	96.6	80-120	983	1000	98.3	1.7	20
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	498	500	99.6	80-120	508	500	101.6	2.0	20
Palladium									
Platinum									
Potassium									
Selenium	503	500	100.6	80-120	511	500	102.2	1.6	20
Silicon									
Silver	212	200	106.0	80-120	217	200	108.5	2.3	20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc	501	500	100.2	80-120	510	500	102.0	1.8	20

Associated samples MP15918: M94151-3, M94151-5, M94151-9, M94151-11, M94151-13

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15918
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15918
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/13/10

Metal	M94151-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	7.40	12.8	73.0 (a)	0-10
Barium	408	417	2.4	0-10
Beryllium	anr			
Boron				
Cadmium	102	99.8	1.8	0-10
Calcium				
Chromium	208	202	2.9	0-10
Cobalt				
Copper	45.4	46.7	2.9	0-10
Gold				
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	613	610	0.5	0-10
Palladium				
Platinum				
Potassium				
Selenium	1.50	6.50	333.3(a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	32.0	31.6	1.3	0-10

Associated samples MP15918: M94151-3, M94151-5, M94151-9, M94151-11, M94151-13

SERIAL DILUTION RESULTS SUMMARY

Login Number: M94151
Account: LEA - Loureiro Eng. Associates
Project: UTC:P&W Willow Pond Quarterly GW Monitoring

QC Batch ID: MP15918
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Appendix C

Quality Assurance/Quality Control Documentation

APPENDIX C

QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND EVALUATION

1. QUALITY ASSURANCE /QUALITY CONTROL SUMMARY

During the course of the 2010 Post-Remediation Groundwater Monitoring activities, analytical and observational data were obtained for the Willow Brook and Willow Brook Pond Remediation Area (hereinafter referred to as the "Project Area"). These data included analytical data for groundwater samples, field activities documentation, sample tracking documentation, and other documentation associated with sample collection and analysis.

During the course of groundwater monitoring activities, the need to maintain accurate and complete documentation was a paramount concern. Included in this document is a description of the activities undertaken to document, manage, verify, organize, and present the data compiled; a discussion of the types and quantities of Quality Assurance/Quality Control (QA/QC) samples that were collected during field activities; and an evaluation of the analytical data generated as a result of laboratory QA/QC procedures. The evaluation of laboratory QA/QC information includes a Data Quality Assessment (DQA) and a Data Usability Evaluation (DUE) that was performed in accordance with the methodology described in the November 2007 guidance document entitled, *Reasonable Confidence Protocols* and presented in more detail in the May 2009 document entitled *Laboratory Quality Assurance Quality Control, Data Quality Assessment, Data Usability Evaluation Guidance Document* published by the Connecticut Department of Environmental Protection (CT DEP).

2. DATA MANAGEMENT PROCEDURES

This section has been organized to present those activities performed by personnel to document the record of post-remediation groundwater monitoring activities performed in the field and discuss the QA/QC activities performed in the field. These discussions are followed by a description of the activities undertaken by personnel in the office to ensure the necessary data have been accumulated, that the data have been properly managed, tracked, verified, entered into the database repository, presented appropriately, and at the conclusion of monitoring events, filed for future use.

2.1 Standard Operating Procedures

Prior to conducting groundwater monitoring activities for the Project Area, Standard Operating Procedures (SOPs) had been developed by Loureiro Engineering Associates, Inc. (LEA) for the most common procedures associated with the sampling and analysis of various media for environmental investigations. Development of these SOPs has taken into account the need for precision, accuracy, completeness, representativeness, and comparability of data.

Although it is understood that there are limits on data accuracy and precision that are inherent in the collection and analysis of samples and in the operation of measuring devices, adherence to standard procedures increases consistency and the level of confidence with which the data collected are evaluated. Data collected under standard procedures can also be used more reliably in comparing results over time on a given project or from other projects or published information.

Data evaluation is also dependent upon the representativeness of the samples or measurements collected and the completeness of information associated with collection of the data. Collection and measurement techniques identified in the SOPs have been designed to take these factors into account, thus increasing the level of confidence that can be placed in the data.

Although adherence to SOPs is imperative for the successful completion of any project, there will be instances where exceptions to the SOPs must be made to obtain reliable data. When exceptions are made, documentation of both the situation requiring deviation and the actual deviation in procedure was recorded in the field documentation.

Each SOP was developed by LEA personnel experienced in the performance of the specific activity. At least two senior-level people, one being the Director of Quality, reviewed the SOP to ensure that the identified procedures satisfy the stated objectives and that the prescribed procedures are technically correct, appropriately applied, and in conformance with applicable regulatory criteria and standard practices. These individuals signified their approval by signing and dating the SOP.

SOPs for the following activities have been included as Attachment C-1 of this document.

- Low Flow Sampling;
- Liquid Sample Collection and Field Analysis; and
- Quality Assurance/Quality Control Measures for Field Activities.

2.2 Field Quality Assurance Procedures

Field QA/QC procedures begin with the use and maintenance of field equipment and instrumentation and include the proper calibration of the equipment.

2.2.1 Use and Maintenance of Field Equipment and Instrumentation

Field equipment and instruments were operated and maintained in a manner that is consistent with the manufacturer's recommended practices. Deviations from standard use of the equipment or required repairs or adaptations made in the field were noted in the Field Record and/or field logbook. Operation and maintenance manuals for equipment were kept in a single location that was known and accessible to personnel that would be likely to use the equipment.

Field personnel either returned equipment in a condition that permitted its optimal use on the following day of field operations, or notified the appropriate personnel so that repairs/replacements could be arranged in an expedient fashion. The use of expendable equipment was recorded and reported to appropriate personnel so replacements could be ordered in a timely manner and an adequate supply was available.

Prior to starting a particular field investigation, the field services manager or designated personnel ensured that adequate supplies and equipment were available for project completion.

It was the responsibility of field personnel to inform the field services manager or other authorized personnel that supplies were depleted and that re-ordering was necessary.

2.2.2 Calibration Procedures and Frequency

Instruments and equipment were calibrated with sufficient frequency and in such a manner that accuracy and reproducibility of results were consistent with the appropriate manufacturer's specifications or project-specific requirements. Calibration was performed at intervals recommended by the manufacturer or more frequently, as conditions dictate. The field instruments that required calibration during the groundwater monitoring activities were the photoionization detector (PID); the pH, dissolved oxygen, and specific conductance sensors of the flow-through cells; and the turbidity meters. Documentation of the calibration that was performed was recorded on field documentation forms, analytical records, or other appropriate daily record of activities.

2.2.3 Decontamination

Decontamination procedures are described in applicable SOPs presented in Attachment C-1. These procedures were designed to avoid cross-contamination between samples, the transport of contaminated material between onsite locations, and the transport of contaminated material from onsite or off-site locations. As described in Section 3.2 of this appendix, equipment blank samples were collected to confirm the efficiency of decontamination procedures during groundwater sampling activities.

2.3 Sample Tracking

Sample tracking activities focus on the timely assignment and tracking of information relevant to field samples collected during the groundwater sampling activities. Samples collected during the groundwater sampling activities were designated using the procedures discussed below.

Field sample tracking included the following tasks:

- Assignment of sample identification numbers and other sample identifiers to new samples to be taken, and entry to a tracking system;
- Production of sample bottle labels from the tracking system;

- Completion of chain-of-custody forms, and entry of this information to the tracking system;
- Entry of additional tracking dates to the tracking system;
- QA checking of the sample tracking information, and processing of change requests; and,
- Production of tracking reports and summary sheets, with distribution to appropriate project staff.

A computer-based sample-tracking system, based on a dBase® database computer program, was used for sample tracking.

2.3.1 Sample Location Identification

Samples were designated with location identifiers previously assigned using the procedure described in the SOPs included in Attachment C-1. In general, sample identification information included the sample type (e.g. monitoring well.); and the sample point number.

Monitoring wells have been provided with location identifiers using a systematic method to prevent duplication of location identifiers. Additionally, a two letter prefix identifying the project area (in this case "WT") was also included in the location identifiers. For example, monitoring well number 40 is designated as WT-MW-40.

The system of location identifiers provides a relatively easy means of finding the referenced locations on site drawings.

2.3.2 Sample Labeling and Custody

Prior to sample collection, project-specific sample numbers were obtained, and labels were generated with all required information, as noted in the sample collection SOPs. Each sample was labeled using waterproof ink on a computer-generated label, and sealed immediately after collection. At a minimum, each sample label contained the following information:

- Project number;
- Date;
- Sample number; and
- Time of sample collection.

In order to ensure accurate identification of all sample containers, sample labels and tags were firmly affixed to the sample container. The sampler was responsible for ensuring that the sample container was dry enough for the label to remain securely attached, or used a suitable transparent adhesive tape when the adhesive labels were not applicable or there was any question as to whether the gummed label would be secure.

All sampling information was recorded on the field sampling records. Written chain-of-custody procedures were followed whenever samples were collected, transferred, stored, analyzed, or destroyed. The objective of these procedures was to create an accurate written record that could be used to trace the possession and handling of the samples from the point of collection through analysis. A sample was determined to be in someone's "custody" under any of the following conditions:

- It was in one's actual possession;
- It was in one's view, after being in one's physical possession;
- It was placed and kept in a locked location after being in one's physical possession; and
- It was kept in a secured area that is restricted to authorized personnel only.

Each time sample custody changed hands, the chain-of-custody form indicated that change. All efforts were made to limit the number of people involved in the collection and handling of samples. The field sampler was responsible for the care and custody of the samples collected until they were transferred under the appropriate chain-of-custody procedures. Specific chain-of-custody procedures are described in the LEA SOP for *Quality Assurance/Quality Control Measures for Field Activities* included in Attachment C-1 of this document.

2.3.3 Field Documentation

Daily Field Reports and other project information tracking forms were used to record general field data collection activities or pertinent field observation or occurrences. These forms consist of the loose-leaf field documentation forms completed daily by field crews. Entries were made in waterproof ink and each page was consecutively numbered for each sampling day. Each daily entry included the following information:

- Name of person recording information;
- Names of all field personnel;
- Project name and number;
- Date;
- Start and end times;
- Weather conditions;
- Equipment used;
- Samples collected;
- Field parameters measured; and,
- Equipment calibration performed.

Other information that was recorded in the field logs included the level of personal protective equipment used, difficulties, accidents, incidents, equipment problems or malfunctions, or deviations from proposed scope of work.

Any corrections made in the field logs were crossed out, not erased, and initialed by the person making the correction. Each page of the logs was signed by the person responsible for recording information on that day. All lines on a page, and all pages, were used or crossed out and initialed.

This information was transmitted from field to office personnel at the end of each working day, or as soon thereafter as possible, for input into LEA's Information Management System (IMS). The Daily Field Reports and forms, in turn, were placed in the central project file.

2.3.4 Mapping

The location of each monitoring well was previously surveyed by a State of Connecticut licensed surveyor. All of the information used to locate sampling points within the Project Area was transferred to AutoCAD® drawings that served as the base maps for data presentation in this report.

2.4 Field Sampling Quality Assurance

QA samples were collected in general accordance with the LEA SOP for *QA/QC Measures for Field Activities*, included in Attachment C-1 of this document. The purpose of the QA samples is to confirm the reliability and validity of the field data gathered during the course of the groundwater monitoring activities. Field duplicate samples were used to provide a measurement of the consistency of samples collected from the same monitoring well and an estimate of variance and bias. Trip blank samples and equipment blank samples were used to provide a measurement of cross-contamination sources and decontamination efficiency, respectively, for groundwater sampling. Performance Evaluation (PE) samples were used to assess the overall accuracy and bias of the analytical methods being used and provide an indication of overall laboratory performance. Section 3 provides a discussion of the QA/QC sampling results.

2.5 Sample Shipping

Following sample collection, the filled sample containers were placed in coolers and packed appropriately to avoid bottle breakage. Either freezer packs or ice packed in re-sealable plastic bags or plastic containers were placed in the coolers to keep the samples at a temperature less than or equal to 4° Celsius during transport. At the end of each sampling day, samples were picked up by the analytical laboratory's courier service or brought back to LEA's Plainville, Connecticut, office and placed into LEA's External Laboratory Refrigerator for pick up the next day by the analytical laboratory's courier service.

2.5.1 Samples Submitted for Laboratory Analysis

Groundwater samples collected and submitted to the laboratory for analysis were appropriately labeled and logged on chain-of-custody forms. Copies of completed chain-of-custody records for samples submitted for analysis or archiving were submitted to the Project Manager at the end of each working day or as soon thereafter as possible.

2.5.2 Laboratory Analytical Results

The analytical results provided by the laboratory were provided in electronic data deliverable (EDD) format as well as .pdf format to the Project Manager. After documentation of receipt of the results, the EDD was entered into the electronic database by the Database Manager.

2.6 Database Management

The electronic analytical database was maintained in the LEA IMS in a dBASE® format. The database management functions are described in the following paragraphs.

2.6.1 Database Administration

Database administration included coordination of data entry and verification and review of data for completeness and correctness. The Database Manager interfaced with the Project Manager and field personnel to ensure that the database met the project objectives.

2.6.2 Electronic Data Entry

The EDD files provided by the analytical laboratory were uploaded to the electronic analytical database by the Database Manager. Data received from the laboratory in electronic format were checked for completeness by comparing data received with data analyses requested in the chain-of-custody forms. Analytical data were verified to assure the accuracy of the EDD, as compared to the analytical laboratory reports. Data verification involved having a qualified person other than the Database Manager manually check a printout from the electronic database against the laboratory reports. Any deviations from the laboratory reports were reported to the Database Manager, and the subsequent changes re-checked to verify their accuracy. In addition, the sample identification number, location, constituent, and qualifier codes were also verified.

2.6.3 Archiving of Electronic Data

Archiving of the electronic project database was routinely accomplished. Data were backed up on a no-less-than weekly basis. The permanent archive for the analytical and geological/hydrological data is both electronic and hard copy files maintained by LEA.

2.6.4 Data Verification

The field personnel performed an initial review of data obtained from field measurements. This review consisted of checking procedures utilized in the field, ensuring that field measurement instruments were properly calibrated, verifying the accuracy of transcriptions, and comparing data obtained in the field to historic measurements. Field records were subsequently reviewed following completion of each day's field activities for completeness and consistency.

An internal review of analytical data was the responsibility of laboratory personnel. The analyst initiated the data review process by examining and accepting the data. The data reviewer then reviewed the completed data package. The data reviewer provided a technical review for accuracy and precision according to the methods employed and laboratory protocols. The data package was also reviewed for completeness (i.e., all pertinent information is included, all appropriate forms are signed and dated, calculations are correct, and holding times and quality control sample acceptance criteria have been met). A final review of the data was provided by the Project Manager to ensure that the data package met the project specifications.

2.7 Data Presentation

The objective of data presentation was to illustrate the analytical data for the Project Area in formats that facilitated data interpretation and visualization. These formats include tables, figures, and drawings, as appropriate.

2.7.1 Analytical Data Presentation

Use of the electronic database for storage and retrieval of a wide range of both sample collection and analytical information maximized the ease and accuracy of data review and presentation. Tables of analytical and sampling information were produced in multiple formats to assist in the data evaluation process. Examples of analytical data presentations incorporated in this report include: tabular listings of analyses conducted, sorted by location and sample identification number, and summaries of exceedances of tabulated numeric criteria in the CT DEP's Remediation Standard Regulations (RSRs).

2.7.2 Facility Drawings

Facility drawings were created using AutoCAD® software. Base maps were generated using available information provided by Pratt & Whitney.

2.8 File Organization

Files of original analytical data obtained during the groundwater monitoring events were maintained throughout data evaluation process and ultimately archived in a central file. Incoming data were logged into the project file both on the project analytical database and on

hardcopy and then were appropriately placed in the file. Analytical results from the laboratories were keyed electronically to the sample identification numbers assigned during sample collection. Original field documentation forms, paper copies of laboratory reports, and other project files information were transferred from the project file to a designated archive location upon the completion of the project. Computerized data were stored in both hard copy and electronic back-up formats.

3. QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

QA/QC samples collected during the 2010 Post-Remediation Groundwater Monitoring Program included: duplicate groundwater samples; equipment blank samples; trip blank samples; and PE samples. The duplicate samples, equipment blanks, and PE samples were analyzed for the same suite of constituents as the field samples, and trip blanks were analyzed for volatile organic compounds (VOCs) only.

3.1 Field Duplicate Samples

Field duplicate samples were collected to provide a measure of the reproducibility of field sampling and laboratory analytical methodologies. Duplicate samples were coded in a fashion that did not alert the laboratory to the fact that the samples are replicates. Consistency between analytical results for field duplicate samples indicates consistent field sampling, sample handling, and analytical laboratory procedures. The consistency between field duplicate pairs is often measured by calculating the relative percent difference (RPD) for detects in a field duplicate pair when a compound was reported at greater than two times the sample quantitation limit in both samples. Field duplicate precision were met when the RPD was less than or equal to 30 percent for aqueous samples (which is based upon the United States Environmental Protection Agency (EPA) Region I Tier II Validation Guidance). If the RPD exceeded the acceptable limit, the affected compound(s) results were considered to be estimated values (no directional bias) and data usability was evaluated based on the project objectives. The RPD is calculated using the following formula:

$$RPD = \frac{|X_1 - X_2|}{(X_1 + X_2)/2} \times 100\%$$

where X_1 and X_2 represent the two reported concentration measurements.

One duplicate groundwater sample was collected during each monitoring event and was submitted for analysis for VOCs, extractable total petroleum hydrocarbons (ETPH), polychlorinated biphenyls (PCBs), Resource Conservation and Recovery Act (RCRA) 8 metals, copper, nickel and zinc. Field duplicates were submitted at a frequency of approximately one per fifteen samples, which met the QA/QC frequency objective of one field duplicate per twenty samples. A summary of field duplicate data for groundwater samples is presented in Table C-1,

and a summary of constituents analyzed in duplicate groundwater samples with calculated RPDs is presented in Table C-2.

3.1.1 Volatile Organic Compounds

There were 26 instances in which compounds were reported at concentrations greater than two times the reporting limit. The RPDs for these sample pairs ranged from 0% to 21.7%. None of the duplicate pairs exceeded the RPD of 30%, thus indicating that 100% of the RPDs met the acceptance criterion.

3.1.2 Extractable Total Petroleum Hydrocarbons

There were two instances in which compounds were reported at concentrations greater than two times the reporting limit. The RPDs for these sample pairs were 0.98% and 2.86% thus indicating that 100% of the RPDs met the acceptance criterion.

3.1.3 Polychlorinated Biphenyls

PCBs were not detected in any duplicate groundwater sample collected. Therefore, a RPD assessment could not be performed.

3.1.4 Metals

There were four instances in which metals were reported at concentrations greater than two times the reporting limit. The RPDs ranged from 0.74% to 2.1%. Therefore, 100% of these results were within the acceptance criteria.

3.2 Equipment Blank Samples

Equipment blank samples are used to indicate if any cross-contamination of samples between uses of sampling equipment or contamination to samples from disposable equipment may have occurred. Field equipment blank samples are collected by pouring laboratory-provided water (analyte-free, de-ionized) through and/or over decontaminated or disposable sampling equipment into appropriate containers. The criteria for evaluating equipment blanks were such that no target compound should be present at or above the sample quantitation limit in any given equipment blank.

One equipment blank sample was collected during each monitoring event and submitted to the laboratory for analysis for VOCs, ETPH, PCBs, and metals. Acetone was reported at a concentration of 5.6 micrograms per liter (µg/l) in the equipment blank sample analyzed on March 26, 2010. Acetone, however, was not reported above laboratory detection limits in any of the samples that were collected on March 26, 2010. No additional constituents were detected in any of the equipment blank samples collected in 2010. A summary of all equipment blank samples analyzed is provided as Table C-3.

3.3 Trip Blank Samples

Trip blank samples are used to indicate if any cross-contamination between samples or contamination from other sources of VOCs may have occurred during transport, storage, or laboratory analysis of samples. Trip blank samples were prepared by Accutest Laboratories (Accutest) using ultra-pure, de-ionized water and submitted to the sampling team whenever glassware was delivered. A trip blank sample accompanied all project VOC sample containers through all custody changes in possession, coolers and refrigerators. The trip blank samples were never opened by the sampling team.

A total of seven trip blank samples, one for each day that sampling was conducted, were submitted to Accutest for analysis. Acetone was reported at a concentration of 5.5 µg/l in the trip blank sample analyzed on March 26, 2010. Acetone, however, was not reported above laboratory detection limits in any of the samples that were collected on March 26, 2010. A summary of all trip blank samples is included in Table C-3.

3.4 Performance Evaluation Samples

Double blind aqueous PE samples were submitted to Accutest during the September 2010 monitoring event. The PE sample data were used to assess the overall accuracy and bias of the analytical methods being used and provide an indication of overall laboratory performance. Data for the PE samples also provided information about the magnitude and direction of quantitative bias for the laboratory methods, including sample preparation (extraction and cleanup) and analysis (chromatography and calibration).

The PE samples for this project were prepared by Environmental Resource Associates (ERA) of Arvada, Colorado. All results for PE samples were compared with vendor-certified acceptance

limits. The PE samples results were evaluated for pass and fail. Fails were categorized as bias high, bias low, false negatives and false positives. Performance evaluation sample certified values and results of the performance sample evaluation are included as Attachment C-2. The following is a summary of the performance evaluation samples results by analytical class.

- **Volatile Organic Compounds**: An evaluation of the results obtained against vendor-specified acceptance standards indicated that each of the VOC constituents (tetrachloroethylene, trichloroethylene, vinyl chloride, cis-1,2-dichloroethylene and trans-1,2-dichloroethylene) was within the acceptable vendor-certified limits..

- **Polychlorinated Biphenyls:** PCBs were reported by the laboratory within the vendor-certified limits.

- **Metals:** All metals, with the exception of total copper, were reported by the laboratory within the vendor-certified acceptable limits. The value reported for total copper (0.0454 milligrams per liter [mg/l]), was slightly above the upper acceptance limit of 0.0436 mg/l defined by ERA. This non-conformance was not identified as a significant quality control issue.

4. ASSESSMENT OF LABORATORY QA/QC INFORMATION

All data were analyzed using the Connecticut Reasonable Confidence Protocols (RCPs), which are analytical methods based on the respective EPA methods. The RCPs provide specific requirements for QA/QC that the laboratory must follow during analysis of environmental samples. In addition, the RCP methods require the laboratory to report the QA/QC analytical data associated with the analysis of each sample in the laboratory report and further require that the laboratory provide a narrative of any non-conformances for QA/QC data the were outside the acceptable limits for such data, as described in the specific RCP method.

QA/QC information provided by laboratories was evaluated with respect to quality by conducting a DQA and DUE in accordance with the methodology described in the November 2007 guidance document entitled *Reasonable Confidence Protocols* and in more detail in the May 2009 document entitled *Laboratory Quality Assurance Quality Control, Data Quality Assessment, Data Usability Evaluation Guidance Document*. The DQA process is intended to assess the quality of the analytical data generated by the laboratories. The DUE is performed to determine, once the quality of the analytical is known, whether the quality of that data will affect its usability for the intended purpose.

4.1 Data Quality Assessment and Usability

The DQA was performed to assess the quality of the analytical data in each laboratory analytical report package. The DQA resulted in identifying data for which the quality could affect its potential use in decision-making. The DUE, which took into account the objectives for the data collection effort, and the intended use of the data, was performed using the information developed during the DQA. The RCP Data Quality Assessment Summary Reports that were generated during that assessment process are included as Attachment C-3.

Each analytical data package was reviewed in accordance with the DQA review process. Several deficiencies were noted. These included:

- Results for the surrogate recoveries for ETPH outside the accepted ranged for variability;
- Results for Laboratory Control Sample (LCS) for VOCs outside the accepted range of variability;

- Recoveries for Matrix Spike/Matrix Spike Duplicate (MS/MSD) for VOCs outside the accepted range of variability; and
- Recoveries for initial calibration curve and continuing calibration curve outside the accepted range of variability for specific VOC constituents.

After the laboratory analytical data were evaluated during the DQA, a DUE was performed. The DUE took into account the following:

- the site-specific conceptual site model (CSM);
- knowledge of the contaminant types, concentrations, and distribution;
- objectives for the data collection effort and the intended use of the data (i.e. the data quality objectives (DQOs)); and
- results from field QA/QC sampling.

In general, the QA/QC deficiencies identified related to constituents that are not identified as constituents of concern for the Project Area or resulted in bias high data. Taking into consideration multiple lines of evidence, results from the DUE indicated that the data generated during the 2010 groundwater sampling events were usable for the intended purpose. One deficiency associated with a constituent of concern required a more detailed evaluation to assess potential affects on usability.

Low surrogate recoveries of 30% and 40% were reported for the ETPH run associated with the analysis of groundwater collected from monitoring well WT-MW-48 in September 2010. Despite the low bias, ETPH was reported at a concentration of 0.358 mg/l in this well. This concentration represents the highest detection of ETPH in this well that has been reported over the past five years of monitoring. Since the concentration of ETPH was elevated, despite the low bias, and there is no RSR criterion for ETPH in a GB designated groundwater area, this QA/QC non-conformance did not affect decision making.

The rationale discussed in the foregoing statement, coupled with the number and type of QA/QC issues identified during the DQA, provide support for a conclusion that analytical results for the samples collected during the four 2010 monitoring events were considered usable for decision-making purposes.

TABLES

ATTACHMENT C-1

LEA Standard Operating Procedures

ATTACHMENT C-2

Performance Evaluation Sample Results

ATTACHMENT C-3

Data Quality Assessment Worksheets

Table C-1
SUMMARY OF DUPLICATE SAMPLING AND ANALYTICAL INFORMATION
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
WT-MW-43	1149711	07/27/2010	3.00 - 12.00	GWS					x			
WT-MW-43	1149712	07/27/2010	3.00 - 12.00	GWS					x			
WT-MW-50	1139099	03/02/2010	16.00 - 26.00	GWS		X			x	X	X	
WT-MW-50	1139114	03/02/2010	16.00 - 26.00	GWS		X			x	X	X	
WT-MW-50	1152489	09/08/2010	16.00 - 26.00	GWS		X			x	X	X	
WT-MW-50	1152500	09/08/2010	16.00 - 26.00	GWS		X			x	X	X	
WT-MW-59	1144932	06/03/2010	8.00 - 18.00	GWS		X			x	X	X	
WT-MW-59	1144939	06/03/2010	8.00 - 18.00	GWS		X			x	X	X	

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Table C-2
SUMMARY OF ANALYTICAL RESULTS - FIELD DUPLICATES
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-43	WT-MW-43	RPD (%)	.	WT-MW-50	WT-MW-50	RPD (%)
	Sample ID	1149711	1149712			1139099	1139114	
	Sample Date	07/27/2010	07/27/2010			03/02/2010	03/02/2010	
	Sample Time	11:17	11:17			13:00	13:00	
	Sample Depth	3.00' - 12.00	3.00' - 12.00			16.00' - 26.0	16.00' - 26.0	
	Laboratory	ACTM	STL-			ACTM	ACTM	
	Lab. Number	M93188-1	220-12855-27			M89593-3	M89593-5	
Constituent	Units							
Xylenes,m- & p-	ug/L					<1.0 U	<1.0 U	
Date PCBs Analyzed	-	08/03/2010	08/04/2010			03/07/2010	03/07/2010	
Date Metals Analyzed	-					03/11/2010	03/11/2010	
Date Organics Analyzed	-					03/04/2010	03/04/2010	
Date Physical Analyzed	-					03/12/2010	03/12/2010	
Arsenic (unfiltered)	mg/L					0.0069	0.0065	6.0
Barium (unfiltered)	mg/L					0.361	0.356	1.4
Cadmium (unfiltered)	mg/L					<0.0040 U	<0.0040 U	
Chromium, Total (unfiltered)	mg/L					<0.01 U	<0.01 U	
Copper (unfiltered)	mg/L					<0.025 U	<0.025 U	
Lead (unfiltered)	mg/L					<0.0050 U	<0.0050 U	
Mercury (unfiltered)	mg/L					<0.00020 U	<0.00020 U	
Nickel (unfiltered)	mg/L					0.0575	0.0564	1.93
Selenium (unfiltered)	mg/L					<0.01 U	<0.01 U	
Silver (unfiltered)	mg/L					<0.0050 U	<0.0050 U	
Zinc (unfiltered)	mg/L					<0.02 U	<0.02 U	
Arochlor 1016	ug/L	<0.27 U	<0.53 U			<0.26 U	<0.25 U	
Arochlor 1221	ug/L	<0.27 U	<0.53 U			<0.26 U	<0.25 U	
Arochlor 1232	ug/L	<0.27 U	<0.53 U			<0.26 U	<0.25 U	
Arochlor 1242	ug/L	<0.27 U	<0.53 U			<0.26 U	<0.25 U	
Arochlor 1248	ug/L	<0.27 U	<0.53 U			<0.26 U	<0.25 U	
Arochlor 1254	ug/L	<0.27 U	<0.53 U			<0.26 U	<0.25 U	
Arochlor 1260	ug/L	<0.27 U	<0.53 U			<0.26 U	<0.25 U	
Arochlor 1262	ug/L	<0.27 U	<0.53 U			<0.26 U	<0.25 U	
Arochlor 1268	ug/L	<0.27 U	<0.53 U			<0.26 U	<0.25 U	
Total Petroleum Hydrocarbons (CT ETPH)	mg/L					0.107	0.100	6.8
Naphthalene	ug/L					<5.0 U	<5.0 U	
1,2-Dichloropropane	ug/L					<2.0 U	<2.0 U	

Table C-2
SUMMARY OF ANALYTICAL RESULTS - FIELD DUPLICATES
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-43	WT-MW-43	RPD (%)	.	WT-MW-50	WT-MW-50	RPD (%)
	Sample ID	1149711	1149712			1139099	1139114	
	Sample Date	07/27/2010	07/27/2010			03/02/2010	03/02/2010	
	Sample Time	11:17	11:17			13:00	13:00	
	Sample Depth	3.00' - 12.00	3.00' - 12.00			16.00' - 26.0	16.00' - 26.0	
	Laboratory	ACTM	STL-			ACTM	ACTM	
	Lab. Number	M93188-1	220-12855-27			M89593-3	M89593-5	
Constituent	Units							
Acetone	ug/L					<5.0 U	<5.0 U	
Acrylonitrile	ug/L					<25 U	<25 U	
Benzene	ug/L					0.52	0.54	3.8
1,2,3-Trichlorobenzene	ug/L					<5.0 U	<5.0 U	
1,2,4-Trichlorobenzene	ug/L					<5.0 U	<5.0 U	
1,2,4-Trimethylbenzene	ug/L					<5.0 U	<5.0 U	
o-Dichlorobenzene	ug/L					<1.0 U	<1.0 U	
1,3,5-Trimethylbenzene	ug/L					<5.0 U	<5.0 U	
m-Dichlorobenzene	ug/L					<1.0 U	<1.0 U	
p-Dichlorobenzene	ug/L					<1.0 U	<1.0 U	
Bromobenzene	ug/L					<5.0 U	<5.0 U	
Butyl Benzene	ug/L					<5.0 U	<5.0 U	
Chlorobenzene	ug/L					<1.0 U	<1.0 U	
Ethylbenzene	ug/L					<1.0 U	<1.0 U	
Isopropylbenzene (Cumene)	ug/L					<5.0 U	<5.0 U	
Propylbenzene	ug/L					<5.0 U	<5.0 U	
sec-Butylbenzene	ug/L					<5.0 U	<5.0 U	
tert-Butylbenzene	ug/L					<5.0 U	<5.0 U	
Hexachlorobutadiene	ug/L					<5.0 U	<5.0 U	
Methyl Ethyl ketone	ug/L					<5.0 U	<5.0 U	
trans-1,4-Dichlorobutene	ug/L					<5.0 U	<5.0 U	
Carbon Disulfide	ug/L					<5.0 U	<5.0 U	
Carbon Tetrachloride	ug/L					<1.0 U	<1.0 U	
4-Isopropyltoluene	ug/L					<5.0 U	<5.0 U	
1,1,1,2-Tetrachloroethane	ug/L					<5.0 U	<5.0 U	
1,1,1-Trichloroethane	ug/L					24.0	22.5	6.45
1,1,2,2-Tetrachloroethane	ug/L					<1.0 U	<1.0 U	
1,1,2-Trichloroethane	ug/L					<1.0 U	<1.0 U	

Table C-2
SUMMARY OF ANALYTICAL RESULTS - FIELD DUPLICATES
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-43	WT-MW-43	RPD (%)	.	WT-MW-50	WT-MW-50	RPD (%)
	Sample ID	1149711	1149712			1139099	1139114	
	Sample Date	07/27/2010	07/27/2010			03/02/2010	03/02/2010	
	Sample Time	11:17	11:17			13:00	13:00	
	Sample Depth	3.00' - 12.00	3.00' - 12.00			16.00' - 26.0	16.00' - 26.0	
	Laboratory	ACTM	STL-			ACTM	ACTM	
	Lab. Number	M93188-1	220-12855-27			M89593-3	M89593-5	
Constituent	Units							
1,1,2-Trichlorotrifluoroethane	ug/L					<5.0 U	<5.0 U	
1,1-Dichloroethane	ug/L					39.6	44.1	10.8
Ethylene Dibromide	ug/L					<2.0 U	<2.0 U	
1,2-Dichloroethane	ug/L					1.8	1.9	5.4
Chloroethane	ug/L					<2.0 U	<2.0 U	
Methyl tert-Butyl ether	ug/L					<1.0 U	<1.0 U	
1,1-Dichloroethylene	ug/L					41.3	40.3	2.45
trans-1,2-Dichloroethylene	ug/L					3.0	3.2	6.5
cis-1,2-Dichloroethylene	ug/L					49.6	50.4	1.6
Vinyl Chloride	ug/L					35.9	40.0	10.8
Tetrachloroethylene	ug/L					6.9	6.4	7.5
Trichloroethylene	ug/L					92.1	89.5	2.86
Tetrahydrofuran	ug/L					18.7	17.6	6.06
2-Hexanone	ug/L					<5.0 U	<5.0 U	
Bromomethane	ug/L					<2.0 U	<2.0 U	
Bromodichloromethane	ug/L					<1.0 U	<1.0 U	
Chloromethane	ug/L					<2.0 U	<2.0 U	
Chlorodibromomethane	ug/L					<1.0 U	<1.0 U	
Methylene Dibromide	ug/L					<5.0 U	<5.0 U	
Methylene Chloride	ug/L					<2.0 U	<2.0 U	
Dichlorodifluoromethane	ug/L					<2.0 U	<2.0 U	
Bromoform	ug/L					<1.0 U	<1.0 U	
Chloroform	ug/L					<1.0 U	<1.0 U	
Trichlorofluoromethane	ug/L					<1.0 U	<1.0 U	
Methyl Isobutyl ketone	ug/L					<5.0 U	<5.0 U	
1,2,3-Trichloropropane	ug/L					<5.0 U	<5.0 U	
1,2-Dibromo-3-Chloropropane	ug/L					<5.0 U	<5.0 U	
1,3-Dichloropropane	ug/L					<5.0 U	<5.0 U	

Table C-2
SUMMARY OF ANALYTICAL RESULTS - FIELD DUPLICATES
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-43	WT-MW-43	RPD (%)	.	WT-MW-50	WT-MW-50	RPD (%)
	Sample ID	1149711	1149712			1139099	1139114	
	Sample Date	07/27/2010	07/27/2010			03/02/2010	03/02/2010	
	Sample Time	11:17	11:17			13:00	13:00	
	Sample Depth	3.00' - 12.00	3.00' - 12.00			16.00' - 26.0	16.00' - 26.0	
	Laboratory	ACTM	STL-			ACTM	ACTM	
	Lab. Number	M93188-1	220-12855-27			M89593-3	M89593-5	
Constituent	Units							
sec-Dichloropropane	ug/L					<5.0 U	<5.0 U	
1,1-Dichloropropene	ug/L					<5.0 U	<5.0 U	
trans-1,3-Dichloropropene	ug/L					<0.50 U	<0.50 U	
cis-1,3-Dichloropropene	ug/L					<0.50 U	<0.50 U	
Styrene	ug/L					<5.0 U	<5.0 U	
Toluene	ug/L					<1.0 U	<1.0 U	
o-Chlorotoluene	ug/L					<5.0 U	<5.0 U	
p-Chlorotoluene	ug/L					<5.0 U	<5.0 U	
o-Xylene	ug/L					<1.0 U	<1.0 U	
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Table C-2
SUMMARY OF ANALYTICAL RESULTS - FIELD DUPLICATES
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-50	WT-MW-50	RPD (%)	.	WT-MW-59	WT-MW-59	RPD (%)
	Sample ID	1152489	1152500			1144932	1144939	
	Sample Date	09/08/2010	09/08/2010			06/03/2010	06/03/2010	
	Sample Time	14:50	14:50			17:41	17:41	
	Sample Depth	16.00' - 26.0	16.00' - 26.0			8.00' - 18.00	8.00' - 18.00	
	Laboratory	ACTM	ACTM			ACTM	ACTM	
	Lab. Number	M94105-3	M94105-5			M91951-3	M91951-12	
Constituent	Units							
Xylenes,m- & p-	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Date PCBs Analyzed	-	09/17/2010	09/17/2010			06/18/2010	06/18/2010	
Date Metals Analyzed	-	09/13/2010	09/13/2010			06/08/2010	06/08/2010	
Date Organics Analyzed	-	09/09/2010	09/09/2010			06/17/2010	06/17/2010	
Date Physical Analyzed	-	09/16/2010	09/16/2010			06/19/2010	06/19/2010	
Arsenic (unfiltered)	mg/L	0.0062	0.0056	10.		<0.0040 U	<0.0040 U	
Barium (unfiltered)	mg/L	0.314	0.309	1.6		<0.2 U	<0.2 U	
Cadmium (unfiltered)	mg/L	<0.0040 U	<0.0040 U			0.191	0.195	2.1
Chromium, Total (unfiltered)	mg/L	<0.01 U	<0.01 U			<0.01 U	<0.01 U	
Copper (unfiltered)	mg/L	<0.025 U	<0.025 U			0.269	0.271	0.74
Lead (unfiltered)	mg/L	<0.0050 U	<0.0050 U			<0.0050 U	<0.0050 U	
Mercury (unfiltered)	mg/L	<0.00020 U	<0.00020 U			<0.00020 U	<0.00020 U	
Nickel (unfiltered)	mg/L	0.0469	0.0472	0.64		2.58	2.63	1.9
Selenium (unfiltered)	mg/L	<0.01 U	<0.01 U			<0.01 U	<0.01 U	
Silver (unfiltered)	mg/L	<0.0050 U	<0.0050 U			<0.0050 U	<0.0050 U	
Zinc (unfiltered)	mg/L	<0.02 U	<0.02 U			<0.02 U	<0.02 U	
Arochlor 1016	ug/L	<0.26 U	<0.25 U			<0.31 U	<0.28 U	
Arochlor 1221	ug/L	<0.26 U	<0.25 U			<0.31 U	<0.28 U	
Arochlor 1232	ug/L	<0.26 U	<0.25 U			<0.31 U	<0.28 U	
Arochlor 1242	ug/L	<0.26 U	<0.25 U			<0.31 U	<0.28 U	
Arochlor 1248	ug/L	<0.26 U	<0.25 U			<0.31 U	<0.28 U	
Arochlor 1254	ug/L	<0.26 U	<0.25 U			<0.31 U	<0.28 U	
Arochlor 1260	ug/L	<0.26 U	<0.25 U			<0.31 U	<0.28 U	
Arochlor 1262	ug/L	<0.26 U	<0.25 U			<0.31 U	<0.28 U	
Arochlor 1268	ug/L	<0.26 U	<0.25 U			<0.31 U	<0.28 U	
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	0.414	0.426	2.86		1.03	1.02	0.98
Naphthalene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,2-Dichloropropane	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	

Table C-2
SUMMARY OF ANALYTICAL RESULTS - FIELD DUPLICATES
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-50	WT-MW-50	RPD (%)	.	WT-MW-59	WT-MW-59	RPD (%)
	Sample ID	1152489	1152500			1144932	1144939	
	Sample Date	09/08/2010	09/08/2010			06/03/2010	06/03/2010	
	Sample Time	14:50	14:50			17:41	17:41	
	Sample Depth	16.00' - 26.0	16.00' - 26.0			8.00' - 18.00	8.00' - 18.00	
	Laboratory	ACTM	ACTM			ACTM	ACTM	
	Lab. Number	M94105-3	M94105-5			M91951-3	M91951-12	
Constituent	Units							
Acetone	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Acrylonitrile	ug/L	<25 U	<25 U			<25 U	<25 U	
Benzene	ug/L	0.56	0.56	0.00		<0.50 U	<0.50 U	
1,2,3-Trichlorobenzene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,2,4-Trichlorobenzene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,2,4-Trimethylbenzene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
o-Dichlorobenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,3,5-Trimethylbenzene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
m-Dichlorobenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
p-Dichlorobenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Bromobenzene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Butyl Benzene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Chlorobenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Ethylbenzene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Isopropylbenzene (Cumene)	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Propylbenzene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
sec-Butylbenzene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
tert-Butylbenzene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Hexachlorobutadiene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Methyl Ethyl ketone	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
trans-1,4-Dichlorobutene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Carbon Disulfide	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Carbon Tetrachloride	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
4-Isopropyltoluene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,1,1,2-Tetrachloroethane	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,1,1-Trichloroethane	ug/L	131	129	2		<1.0 U	<1.0 U	
1,1,2,2-Tetrachloroethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,1,2-Trichloroethane	ug/L	1.7	1.7	0.00		<1.0 U	<1.0 U	

Table C-2
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	Sample Depth	16.00' - 26.0	16.00' - 26.0			8.00' - 18.00	8.00' - 18.00	
	Laboratory	ACTM	ACTM			ACTM	ACTM	
	Lab. Number	M94105-3	M94105-5			M91951-3	M91951-12	
Constituent	Units							
1,1,2-Trichlorotrifluoroethane	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,1-Dichloroethane	ug/L	36.9	35.5	3.87		9.6	10	0.00
Ethylene Dibromide	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
1,2-Dichloroethane	ug/L	3.7	3.9	5.3		<1.0 U	<1.0 U	
Chloroethane	ug/L	6.6	6.1	7.9		<2.0 U	<2.0 U	
Methyl tert-Butyl ether	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
1,1-Dichloroethylene	ug/L	304	300	0.00		<1.0 U	<1.0 U	
trans-1,2-Dichloroethylene	ug/L	9.2	7.4	21.7		<1.0 U	<1.0 U	
cis-1,2-Dichloroethylene	ug/L	151	150	0.00		5.4	5.4	0.00
Vinyl Chloride	ug/L	45.9	46.0	0.22		6.1	5.6	8.6
Tetrachloroethylene	ug/L	71.4	72.0	0.84		5.5	5.4	1.8
Trichloroethylene	ug/L	601	576	4.3		4.1	4.0	2.5
Tetrahydrofuran	ug/L	56.0	55.0	1.80		<10 U	<10 U	
2-Hexanone	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Bromomethane	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
Bromodichloromethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Chloromethane	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
Chlorodibromomethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Methylene Dibromide	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Methylene Chloride	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
Dichlorodifluoromethane	ug/L	<2.0 U	<2.0 U			<2.0 U	<2.0 U	
Bromoform	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Chloroform	ug/L	4.6	4.5	2.2		<1.0 U	<1.0 U	
Trichlorofluoromethane	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
Methyl Isobutyl ketone	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,2,3-Trichloropropane	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,2-Dibromo-3-Chloropropane	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,3-Dichloropropane	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	

Table C-2
SUMMARY OF ANALYTICAL RESULTS - FIELD DUPLICATES
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
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Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-50	WT-MW-50	RPD (%)	.	WT-MW-59	WT-MW-59	RPD (%)
	Sample ID	1152489	1152500			1144932	1144939	
	Sample Date	09/08/2010	09/08/2010			06/03/2010	06/03/2010	
	Sample Time	14:50	14:50			17:41	17:41	
	Sample Depth	16.00' - 26.0	16.00' - 26.0			8.00' - 18.00	8.00' - 18.00	
	Laboratory	ACTM	ACTM			ACTM	ACTM	
	Lab. Number	M94105-3	M94105-5			M91951-3	M91951-12	
Constituent	Units							
sec-Dichloropropane	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
1,1-Dichloropropene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
trans-1,3-Dichloropropene	ug/L	<0.50 U	<0.50 U			<0.50 U	<0.50 U	
cis-1,3-Dichloropropene	ug/L	<0.50 U	<0.50 U			<0.50 U	<0.50 U	
Styrene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
Toluene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
o-Chlorotoluene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
p-Chlorotoluene	ug/L	<5.0 U	<5.0 U			<5.0 U	<5.0 U	
o-Xylene	ug/L	<1.0 U	<1.0 U			<1.0 U	<1.0 U	
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Table C-3
SUMMARY OF EQUIPMENT AND TRIP BLANK SAMPLING INFORMATION
Pratt & Whitney, East Hartford, Connecticut: Willow Brook & Willow Brook Pond
2010 Annual Groundwater Monitoring Report

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
EQUIPMENT	1139112	03/03/2010		BKE		x			x	x	x	
EQUIPMENT	1139484	03/26/2010		BKE		X						
EQUIPMENT	1144940	06/03/2010		BKE		x			x	x	x	
EQUIPMENT	1152496	09/09/2010		BKE		x			x	x	x	
TRIP BLANK	1139115	03/02/2010		BKT		x						
TRIP BLANK	1139111	03/03/2010		BKT		x						
TRIP BLANK	1139490	03/26/2010		BKT		X						
TRIP BLANK	1144950	06/02/2010		BKT		x						
TRIP BLANK	1144942	06/03/2010		BKT		x						
TRIP BLANK	1152501	09/08/2010		BKT		x						
TRIP BLANK	1152495	09/09/2010		BKT		x						

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Loureiro Engineering Associates, Inc.
Standard Operating Procedure
for
Liquid Sample Collection and Field Analysis

SOP ID: 10004
Date Initiated: 02/20/90
Revision No. 006: 12/31/01

Approved By: ***/s/ Joseph T. Trzaski*** ***12/31/01***
Joseph T. Trzaski **Date**
Senior Scientist

/s/ Nick D. Skoularikis ***12/31/01***
Nick D. Skoularikis **Date**
Director of Quality

REVISION RECORD

Rev #	Date	Additions/Deletions/Modifications
Initial Issue	2/20/90	
001-004	NR	No record.
005	01/15/99	No record.
006	12/31/01	Updated to conform to new SOP format. Minor revisions throughout.

Loureiro Engineering Associates, Inc.
Standard Operating Procedure
for
Liquid Sample Collection and Field Analysis

1. Purpose and Scope

This document describes procedures to be followed for measurement of static water level elevations, detection of immiscible layers, well evacuation, sample withdrawal, and field analyses.

2. Definitions

2.1. Immiscible layers: The term is used to denote free-phase liquids that may be present in the aquifer as a result of a release. These liquids may have a density lighter than water (light non-aqueous phase liquids (LNAPL) or floaters) or heavier than water (dense non-aqueous phase liquids (DNAPL) or sinkers).

3. Equipment

3.1. Equipment required for the collection and field analysis of liquid samples includes:

- Water-level indicator (accurate to 0.01 foot). The size of the instrument depends on the size of the wells being monitored.
- Distilled water.
- Hand towels.
- Portable volatile organic compound (VOC) analyzer (Photovac MicroTIP®, Foxboro OVA® or equivalent).
- Interface probe, clear polyvinyl chloride (PVC) or fluorocarbon resin bailer (if required).
- pH and temperature meter (capable of accuracy to 0.1 pH unit).
- Specific conductivity meter.
- Bailers (clean or disposable) with disposable nylon or polyethylene rope.

- Polyethylene plastic sheeting.
- Polyethylene tubing, and appropriate pumping apparatus such as centrifugal pump, Wattera® pump with fluorocarbon resin foot valve, peristaltic pump with appropriate tubing, submersible pump or other appropriate pumping apparatus.
- Clean disposable gloves.
- Field paperwork.
- Sample collection jars.
- Indelible marker.
- Cooler(s) with ice or ice packs.
- Site-specific Health and Safety Plan (as applicable).
- Site-specific work plan, work instructions, drawings (as applicable).
- Personal protective equipment (as may be required by Site Specific Health and Safety Plan).
- Aluminum foil (if field decontamination is expected).
- Appropriate containers for collection of purge water (bucket, carboy, 55-gallon drum etc.).

4. Procedures

Immediately upon opening the well, the air in the wellhead should be sampled for VOCs using a portable VOC analyzer, such as a Photovac MicroTIP®. The well cap shall be opened slightly and the sampling port of the VOC analyzer shall be inserted into the well. The maximum reading shall be recorded on the appropriate field paperwork. The instrument shall be zeroed with ambient air prior to the measurement, and the initial and final readings shall be recorded for each well.

Measures shall be taken during well sampling to prevent surface soils from coming in contact with the purging equipment and lines. Typically, a polyethylene sheet is placed on the ground providing adequate coverage for the equipment being used.

4.1. Detection of Immiscible Layers

4.1.1. If the presence of immiscible layers is suspected or unknown, the sampling event shall include provisions for detection of immiscible phases prior to well evacuation or sample collection. Lighter and/or

denser immiscible phases may be encountered in a groundwater monitoring well.

4.1.2. An interface probe will be used to determine the existence of any immiscible layers, light or dense. Alternatively, a clear fluorocarbon resin or PVC bailer may be used to determine the existence of the phases or oil sheen in the well when no accurate determination of the immiscible layer thickness is required. For Geoprobe® wells smaller than 1" in diameter, an interface probe cannot be introduced into the well. A small diameter disposable bailer can be used to determine the existence of any immiscible layers. Alternatively the initial water purged from a well will be collected and evaluated visually for the presence of immiscible layers.

4.1.3. If immiscible layers were encountered, the levels of the immiscible liquids shall be measured to an accuracy of 0.02 feet using an electronic interface probe capable of detecting the interfaces between air, product, and water. The interface levels shall be recorded in the field notebook. Adjustments of the observed head to the theoretical hydraulic head shall be calculated based on the density conversion factor associated with the particular non-aqueous phase liquid.

4.1.4. If required, the immiscible layers and groundwater shall then be purged into 55-gallon 17H DOT drum, which shall be labeled and characterized for disposal. The immiscible layer shall be collected prior to any purging activities.

4.2. Measurement of Static Water Level

4.2.1. The static water elevations in each well shall be measured prior to each sampling event. This is performed initially to characterize the site, and in subsequent sampling rounds to determine whether horizontal or vertical flow gradients have changed. A change in hydrologic conditions may necessitate modification of the groundwater monitoring program.

4.2.2. Remove the protective cover and locking cap.

4.2.3. Each well shall have a surveyed reference point located at the top of the well casing with the locking cap removed. The reference point shall be easily recognizable, since the personnel conducting the sampling may differ from one sampling event to the next. If no distinguishable reference point is present, the measurements shall be

taken from the highest point on the well casing. The absence of a reference point and subsequent reference point used for the measurements shall be recorded on the field paperwork.

4.2.4. The following parameters shall be measured with an accuracy of 0.01 ft:

- Depth to standing water.
- Depth to bottom of well.

4.2.5. A water-level indicator will be used for measurement. Due to possible pressure differences between the well atmosphere and the ambient atmosphere, the water level will be allowed to equilibrate for 15 minutes following removal of the well cap. The results shall be recorded in the appropriate location(s) on the appropriate field forms.

4.2.6. Total depth measurements will be compared to original depths to determine the degree of siltation that may have occurred. This information shall be noted on the field form. Should significant siltation occur in any well, the well may need to be redeveloped by an approved method. This information will also be used to confirm that the proper well is being sampled (in case of cluster wells).

4.2.7. The portion of the tape immersed in the well shall be decontaminated during retrieval using a distilled water rinse followed by drying with a clean wipe, prior to use in another well. This decontamination procedure shall be amended, as needed, to accommodate the specific type of contamination anticipated.

4.3. Field Analysis

4.3.1. Parameters that are physically or chemically unstable shall be measured immediately after collection using a field test meter or other equipment. Parameters such as pH, temperature, specific conductivity, and turbidity will be measured in the field, at the temperature of the well sample. The measurement of additional parameters may be required dependent upon sampling methods or other site-specific conditions.

4.3.2. A combination of pH/temperature/specific conductivity meters shall be used. The meter shall be calibrated prior to use and at the end of the day using calibration solutions, in accordance with the instructions provided in the instrument's operating manual. Whenever a

questionable reading ("spike") is observed the calibration shall be checked. The calibration shall be checked prior to sampling each well or well cluster. Calibration information to be recorded in the field paperwork shall include the temperature, pH, and conductivity readings in each calibration solution before and after each calibration.

The pH/temperature/conductivity meters shall be placed into a sample and allowed to stabilize for a minimum of twenty seconds. The accuracy of measurement shall be 0.1 standard units for pH, and 0.1E Celsius for temperature. For conductivity, the accuracy shall be as stipulated by the range of the instrument. The sample shall be discarded in an appropriate manner upon completion of the analysis.

4.3.3. The pH/temperature/specific conductivity meters shall be decontaminated using a distilled/deionized water rinse between each sample. To the extent possible, the same probe and meter shall be used for all measurements at a given site for the duration of monitoring at the site.

4.3.4. Turbidity of the sample will be measured using a DRT turbidimeter, Model 15C or equivalent, that has been calibrated in accordance with the instructions provided in the instrument's manual. The accuracy of the measurement shall be to 1 NTU (nephelometric turbidity unit).

4.4. Well Evacuation

4.4.1. Calculate standing water in the well based on the following schedule and record on the appropriate field form:

Well Diameter (inches)	Conversion Factor (gal/feet)
½	0.01
1	0.041
1 ¼	0.064
1 ½	0.091
2	0.163
4	0.654
6	1.47

4.4.2. Generally, a centrifugal, submersible, air-lift, bladder, inertial, or peristaltic pump equipped with a fluorocarbon resin or PVC foot valve on the end of dedicated tubing, as appropriate, may be used to evacuate the monitoring wells. Alternatively, evacuation of the wells may be accomplished using a bailer.

4.4.3. A new sheet of polyethylene plastic shall be placed on the ground adjacent to the well. Sampling and purging equipment, such as pump, tubing, bailers and bailer twine, containers, etc., shall be placed on the polyethylene sheet, never on the ground.

4.4.4. Don disposable gloves, prepare pump and tubing for insertion into the well, ensuring that any tubing or pump apparatus is of sufficient length to reach the appropriate depth for pumping. Pumping shall occur within the well screened interval as indicated on the well construction diagram. If the well construction information is not available, the bottom of the tubing or pump shall be placed 1' - 2' above the bottom of the well.

4.4.5. Lower the pump and/or tubing gently into the water column to the appropriate depth and begin pumping.

4.4.6. Measure pH, temperature, specific conductivity, turbidity and other specific parameters in the well from the first water extracted during the purging process.

4.4.7. Remove a volume of water equal to 3 to 5 times the standing water from the well measured into an appropriate container. Purging of the well shall occur at a slow rate to minimize agitation of the water recharging the well.

4.4.8. If it is not possible to remove three volumes as described above, due to slow recovery of the well, the well shall be emptied and allowed to recover. In slow-yielding wells, whenever full recovery exceeds two hours, the sample shall be extracted as soon as a sufficient volume is available for a sample for each parameter.

4.4.9. Measure pH, temperature, specific conductivity, turbidity and other specific parameters **prior** to sampling.

4.4.10. Well evacuation is deemed to be complete when the following criteria have been met:

- pH measurements vary no more than ± 0.5 standard units.
- Specific conductivity measurements vary no more than ± 10%.
- Temperature measurements vary no more than ± 1EC.
- Turbidity measurements (if used) are below 5 NTU, if practicable.

Alternatively well purging shall be deemed complete if a maximum of five well volumes have been removed from the well and/or other site-specific or method-specific parameters have stabilized.

4.4.11. Measure pH, temperature, specific conductivity and turbidity (and other specific parameters) again **after** sampling to determine the effectiveness of purging and sample stability.

4.4.12. Do **not** re-use purging equipment (bailers, rope, tubing, sampling vials, etc.). Any non-disposable bailers shall be returned to the office for decontamination. Pumps shall be decontaminated between monitoring wells, in accordance with procedures noted in Section 4.7.

4.4.13. Bailer twine and other consumables, such as filter apparatus, shall be disposed of appropriately.

4.4.14. Record sampler's name, sampling time, volume of water purged, parameters measured, weather conditions, sample number, analyses required and all other pertinent information on appropriate field forms, and complete the chain of custody form. The field paperwork shall also provide an indication of other field conditions that could potentially impact water levels (such as a pond being drained, or presence of a beaver dam in nearby surface water).

4.4.15. As dictated by project-specific requirements and/or groundwater quality considerations, any water purged from the monitoring wells shall be stored in properly labeled containers for disposal.

4.4.16. Storage shall be in properly labeled containers approved for storage of hazardous materials, and in an appropriate designated location at the site.

4.5. Sample Withdrawal

4.5.1. In order to ensure that the groundwater sample is representative of the formation, it is important to minimize physical alteration (i.e. agitation during purging and/or sample collection) or chemical contamination of the sample during the withdrawal process. The sample set shall include enough dedicated bailers and sample jars to obtain samples from each well, and additional quality assurance/quality control (QA/QC) samples such as duplicates, trip blanks and equipment blanks. In addition, it is recommended to increase the supply of

sampling equipment and sample jars by about 10% to account for missing or broken glassware.

4.5.2. Use either an appropriate pump or bailer to purge each well (the same pump used for purging may be used for sample withdrawal, with the exception that samples intended for VOC analysis must be collected using either a bailer or a bladder pump.). Do not reuse a bailer in the field; used non-disposable bailers shall be returned to the office for decontamination.

4.5.3. To minimize agitation of the water column, samples shall be collected from the pump tubing in the following order into pre-labeled sample containers:

- Extractable organics (semi-volatile).
- Total petroleum hydrocarbons (TPH).
- Poly chlorinated biphenyls (PCBs).
- Metals.
- Phenols.
- Cyanide.
- Chloride and sulfate.
- Nitrate and ammonia.
- Turbidity.
- Radionuclides.

Samples to be analyzed for the following constituents shall be collected using a bailer, after any pump and tubing have been removed from the well. Removal of any down hole equipment shall be done carefully and in a manner that minimizes disturbance of the water column.

- Volatile organic compounds (VOCs).
- Purgeable organic carbon (POCs).
- Purgeable organic halogens (POX).
- Total organic halogens (TOX).
- Total organic carbon (TOC).

4.5.4. Samples shall be obtained from the monitoring wells as soon as possible after purging. This may require waiting an extended period for low-yielding wells.

4.5.5. Samples collected for VOC analysis shall be free of any air bubbles and inverted upon filling. Bacterial samples shall be collected using dedicated gloves; taking care not to allow anything to touch the inside of the sampling container.

4.5.6. Samples collected for dissolved metals analysis, which are to be filtered in the field, shall be passed through a 0.45 micron (maximum) filter (either in-line or under negative pressure) prior to placement in the sample bottle.

4.5.7. In situations where replicate samples shall be required, care shall be taken to ensure that each sample collected is independent.

4.5.8. In some situations, inorganic parameters may be sampled directly from a pump after completion of well evacuation procedures.

4.6. Post Sampling Procedures

4.6.1. As required, upon completion of all sampling procedures for a particular site, secure the lid of the cooler using packaging tape with the chain of custody inside.

4.6.2. If the laboratory is local, transport the samples directly to the laboratory and present them to the sample manager. The representative of LEA should witness the verification of the chain of custody and obtain a carbon copy for filing in the project notebook.

4.6.3. If the laboratory is distant, arrange for transport with a reputable carrier service. Typically, the laboratory specifies the carrier to be used and provides the shipping papers. The cooler and samples shall be secured for transport, and all mailing documentation secured onto the top of the cooler. Unless otherwise specified, delivery shall be overnight. Friday shipments should be mailed for Saturday delivery, once confirmed that the laboratory can accept them on Saturday. The laboratory shall provide confirmation of acceptance noting the temperature of the temperature blank and any deviations from the chain of custody.

4.7. Field Documentation

4.7.1. Field documentation shall include at a minimum: a chain-of-custody form, Field Data Record Groundwater Form, Sample Collection Form, Daily Field Report, Field Quality Review Checklist. Sample labels shall be used for proper sample identification.

4.7.1.1. The labels shall be sufficiently durable to withstand immersion for 48 hours without detaching and to withstand normal handling. The information provided shall be legible at all times.

4.7.1.2. The following information shall be provided on the sample label using an indelible-ink pen:

- Sample identification number.
- LEA Commission Number.
- Date and time of collection.
- Place of collection.
- Parameter(s) requested (if space permits).

4.7.1.3. A field logbook and/or appropriate field forms will be used to log all pertinent information with an indelible-ink pen. The following information shall be provided:

- Project and site identification.
- LEA commission number.
- Identification of well.
- Static water level measurement technique.
- Presence of immiscible layers and detection method.
- Time well purged.
- Collection method for immiscible layers and sample identification numbers.
- Well evacuation procedure/equipment.
- Sample withdrawal procedure/equipment.
- Date and time of collection.

- Types of sample containers used and sample identification numbers.
- Preservative(s) used.
- Parameters requested for analysis.
- Field analysis method(s).
- Whether or not field filtration was performed and the filter size, if appropriate.
- Field observations on day of sampling event.
- Record of site activities.
- Field personnel.
- Climatic conditions, including air temperature.
- Status of total production.
- Record of non-productive time.
- Name of all visitors to the site related to the project.

4.7.1.4. The chain-of-custody record shall include the following information:

- Company's name and location.
- Date and time of collection.
- Sample number.
- Container type, number, size.
- Preservative used.
- Signature of collector.
- Signatures of persons involved in the chain of possession.
- Analyses to be performed.
- Type and number of samples.

A separate entry shall be made for each sample, and within each sample each case that a different preservative is used.

4.7.1.5. The Field Data Record Groundwater Form shall be updated during the sampling of each well and include the following information:

- Identification of well.
- Well depth, diameter, depth to water.
- Static water level depth and measurement technique.
- Purge volume and pumping rate.
- Time well purged.
- LEA commission number.
- Date.

4.8. Equipment Decontamination

All materials and equipment, which enter a well, must be clean and free of any potential contaminants. In general, the equipment and materials entering the well shall be unused and preferably disposable. Any items not considered disposable should be decontaminated prior to commencing field activities. If field decontamination is required, the choice of decontamination procedures shall be based upon knowledge of the site-specific contaminants and as outlined in the site-specific work plan.

For sites at which the contaminants are unknown, but contamination is suspected, the decontamination procedures outlined below shall be followed.

4.8.1. Prior to commencing any field activities, the following solutions (as appropriate for the appropriate contaminants) shall be prepared and placed into 500-ml laboratory squirt bottles: 10% methanol in water; 10% nitric acid in water; 100% n-hexane; distilled, de-ionized water.

4.8.2. In the field, prepare approximately 2.5 gallons of a solution of Alconox® (or other suitable non-phosphate laboratory grade detergent) in tap water in a 5-gallon bucket.

4.8.3. Prepare a piece of 5-mil polyethylene sheeting to underlie the decontamination area. The sheeting shall be of sufficient size to contain any accidental discharge of decontamination solutions. The plastic shall be bermed to contain spills.

4.8.4. The order for decontaminating equipment is as follows:

1) Detergent scrub.
2) DI water rinse.
3) Hexane rinse (to be used only if separate-phase petroleum product, other than gasoline, is present).
4) DI water rinse.
5) 10% nitric acid rinse (to be used only when metals are suspected as potential contaminants).
6) DI water rinse.
7) Methanol rinse (<10% solution).
8) Air dry.

4.8.5. Materials considered disposable such as the bailer cord, pump tubing, filters, etc. shall not be decontaminated and shall be disposed of in accordance with all applicable municipal, state, and federal regulations.

4.8.6. Wrap each piece of decontaminated equipment in aluminum foil, as appropriate, to maintain cleanliness.

4.8.7. At the end of the project day, dispose of all spent decontamination fluids and materials such as the polyethylene sheeting and personal protective equipment in accordance with all applicable municipal, state, and federal regulations.

5. Quality Assurance/Quality Control

Typically samples taken for Quality Assurance/Quality Control for liquid sample collection include duplicate samples, equipment blanks and trip blanks. The necessity for these samples will be outlined in the site-specific work plan. In general, all QA/QC measures taken during liquid sample collection shall be in conformance with LEA's standard operating procedure (SOP) ID 10005. Standard QA/QC measure shall include the recording of pertinent information as follows:

5.1. The Field Instrument & Quality Assurance Record, which is a portion of the Daily Field Report, shall include the following information:

- Instrument make, model, and type.
- Calibration readings.
- Calibration/filtration lot numbers.
- Field personnel and signature.

5.2. The Field Quality Review Checklist, which is a portion of the Daily Field Report, shall assure the completeness of the sampling round and include the following information:

- Reviewer's name and date.
- Review of all necessary site activities and field forms.
- Statement of corrective actions for deficiencies.

6. References

6.1. EPA, *RCRA Groundwater Monitoring Technical Enforcement Guidance Document*, OSWER 9950.1, September 1986.

6.2. EPA, *Practical Guide for Groundwater Sampling*, EPA/600/2-85/104, September 1985.

6.3. DEP, Site Characterization Guidance Document, Draft, June 12, 2000.

END OF DOCUMENT

Loureiro Engineering Associates, Inc.
Standard Operating Procedure
for
Quality Assurance/Quality Control Measures
for
Field Activities

SOP ID: 10005
Date Initiated: 02/20/90
Revision No. 004: 12/31/01

Approved By: ***/s/ Jeffrey J. Loureiro*** ***12/19/01***
Jeffrey J. Loureiro **Date**
President

/s/ Nick D. Skoularikis ***12/19/01***
Nick D. Skoularikis **Date**
Director of Quality

REVISION RECORD

Rev #	Date	Additions/Deletions/Modifications
Initial Issue	02/20/90	
001-003	-	No record.
004	12/31/01	Updated to reflect new SOP format. Added section 4.3, Results Evaluation. Minor revisions throughout.

Loureiro Engineering Associates, Inc.
Standard Operating Procedure
for
Quality Assurance/Quality Control Measures
for
Field Activities

1. Statement of Purpose

This document describes procedures to be followed for proper Quality Assurance Quality Control (QA/QC) practices which shall incorporate all activities associated with sampling tool and instrument preparation, field measurements and sampling, proper documentation of field and post-field activities, QC sample preparation, chain-of-custody protocol and laboratory analytical procedures. The use of specific QA/QC measures is project-specific as defined in the project work plan. This standard operating procedure (SOP) was adopted in accordance with the Environmental Protection Agency (EPA) document *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846).

2. Definitions

2.1. Trip Blank: An aliquot of organic-free water or equivalent neutral reference material carried into the field but not exposed.

2.2. Equipment Blank: An aliquot of analyte-free deionized water processed through all sample collection equipment.

2.3. Replicate Samples: Samples that have been divided into two or more portions in the field.

2.4. Collocated Samples: Independent samples collected under identical circumstances in a way that they are equally representative of the parameter of interest.

2.5. Performance Evaluation (PE) Sample: A sample that mimics actual samples in all possible aspects, except that its composition is known to the auditor and unknown to the analyst.

3. Equipment

None

4. Procedure

4.1. General

4.1.1. All QA/QC sample preparation procedures shall be properly documented including:

- Name of person(s) or laboratory involved in sample preparation.
- Reagents used.
- Sample number.
- Analyses required.
- Concentration calculations.
- Accuracy of measurements.
- Number, type, size of containers used.
- Preservation method.
- Date and time of sample preparation.

4.1.2. All information shall be included in the field logbook and/or appropriate field forms, but not necessarily in the chain-of-custody record except as needed for proper sample identification and analysis. Blind sample numbers are being used in order not to disclose the nature of the sample to the laboratory. No information that would identify the sample as a QA/QC sample shall be included in the chain-of-custody record.

4.1.3. At the conclusion of each sampling day, a quality control review shall be conducted using the Field Quality Review Checklist and the Daily Field Report.

4.2. QC Sample Preparation

4.2.1. Trip Blank

4.2.1.1. Contaminated trip blanks may indicate contamination of the samples during the field trip or shipment to the lab, cross-contamination between the samples, contaminated sample vials, or improper handling.

4.2.1.2. Trip blanks shall be used only with samples that are to be analyzed for volatile organic compounds.

4.2.1.3. One trip blank shall be included per shipping container (cooler) carrying sample soil and/or groundwater samples that are to be analyzed for volatile organic compounds

4.2.1.4. Trip blanks are prepared using analyte-free deionized organic-free water prior to field activities associated with the sampling event, usually by the laboratory providing the sampling containers. Each trip blank is placed in a 40-ml glass VOA vial and is carried in the same shipping container as the sample(s). Trip blanks should not be opened at any time during transport.

4.2.2. Equipment Blank

4.2.2.1. The purpose of an equipment/rinsate blank is to determine if decontamination procedures were adequate or if any of the equipment might contribute contaminants to the sample.

4.2.2.2. An equipment blank is prepared by running analyte-free deionized water through all sample collection equipment (bailers, pumps, filters, split-spoon) and placing it in the appropriate sample containers for analysis. If equipment has been decontaminated in the field, the equipment blank shall be collected after decontamination procedures have been performed.

4.2.2.3. Equipment blanks shall be used when sampling surface water, groundwater, soil, and sediment.

4.2.2.4. One equipment blank shall be collected for each sample bottle/preservation technique/analysis procedure per matrix per sampling event, or as otherwise specified in project-specific documents.

4.2.3. Replicate Samples

4.2.3.1. Replicate samples provide precision information on handling, shipping, storage, preparation and laboratory analysis.

4.2.3.2. Replicate samples are samples that have been divided into two or more portions in the field. An example of a replicate sample is two identical sample bottles filled with water from the same bailer retrieval. To ensure homogeneity, the bailer should be emptied into a clean, decontaminated beaker used exclusively

for the purpose and containing sufficient volume for both sample containers, and from that into the sample containers.

4.2.3.3. Replicate samples cannot be used when sampling for volatile organic compounds.

4.2.3.4. One replicate sample shall be obtained for each sample bottle/preservation technique/analysis procedure per sampling event or one out of every 20 samples, unless collocated samples are used (see below), or as otherwise specified in project-specific documents.

4.2.4. Collocated Samples

4.2.4.1. Collocated samples provide precision information on sample acquisition, homogeneity, handling, shipping, storage, preparation and laboratory analysis.

4.2.4.2. Collocated samples are independent samples collected in such a way so that presumably they are equally representative of the parameter of interest. Examples of collocated samples are groundwater samples collected sequentially, soil core samples collected side-by-side, or air samples collected essentially at the same time from the same manifold.

4.2.4.3. Collocated samples are especially useful when sampling for volatile organic compounds, for which replicate samples cannot be used.

4.2.4.4. Collocated samples shall be obtained for each sample bottle/preservation technique/analysis procedure per sampling event or one out of every 20 samples, unless replicate samples are used (see above), or as otherwise specified in project-specific documents.

4.2.5. Split Samples

4.2.5.1. The purpose of split samples is to provide an assessment of the laboratory analytical procedure.

4.2.5.2. Split samples are collocated or replicate samples sent to two (or more) different laboratories.

4.2.5.3. Split samples can be used with any sample media. Split samples can be used in conjunction with spiked samples (see

below). In case contradictory results are obtained from the samples split between different laboratories, the spiked samples can be used to verify the analytical data (provided that the spiked samples were properly prepared and the appropriate documentation is available).

4.2.5.4. When used, one split/spiked sample per sample bottle/preservation technique/analysis procedure per sampling event or every 20 samples shall be included, or as specified in project-specific documents.

4.2.6. Spiked Samples

4.2.6.1. The purpose of spiked samples is to provide information on the precision of the laboratory analytical procedure. However, besides a wrong preparation, several other sources of error exist such as analyte stability, holding time and interactions with the sample matrix.

4.2.6.2. Spiked samples are samples spiked with the contaminants of interest. The compounds used for spiking should be of the same chemical group as the contaminants being investigated, but they do not have to be the exact chemical compounds. Spiking should be carefully designed and performed prior to the field investigations. Field matrix spikes are not generally recommended because of the high level of technical expertise required for proper preparation and documentation.

4.2.6.3. Can be used with any sample media, however, liquid matrices are preferred due to uniformity of mixing.

4.2.6.4. When used, one split/spiked sample per sample bottle/preservation technique/analysis procedure per sampling event or every 20 samples shall be included, or as otherwise specified in project-specific documents. In order to ensure defensible data, performance evaluation (PE) samples, prepared by an independent vendor, are typically being used. The ordering and handling procedures and record keeping requirements are discussed in Loureiro Engineering Associates, Inc. (LEA's) *SOP for Preparation of PE Samples* (SOP 10030).

4.3. Result Evaluation

4.3.1. The analytical results on QA/QC samples should be evaluated along with the remaining analytical data as follows:

4.3.1.1. No constituents should be detected in the trip blank or equipment blank.

4.3.1.2. The relative percent differences (RPDs) shall be computed for all constituents detected in both duplicate samples used.

The RPD between two measurements (e.g., M1 and M2) is calculated as follows:

$$RPD = \frac{|M1 - M2|}{(M1 + M2)/2} \times 100\%$$

4.3.1.3. Any deviations in the performance evaluation samples shall be brought to the attention of the laboratory. An investigation shall then be performed by the laboratory of the method used, laboratory QA/QC procedures followed, and computations performed. The laboratory shall report the results of their investigation and any corrective actions taken.

5. References

5.1. EPA, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846).

END OF DOCUMENT

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: M89593
Date Samples Collected 3/2/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M89593	1139098	-1	WT-MW-41	Dichlorodifluoromethane	Laboratory Control Sample	60 / 55		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
M89593	1139098uf	-2	WT-MW-41	No QC issues					
M89593	1139099	-3	WT-MW-50	Dichlorodifluoromethane	Laboratory Control Sample	60 / 55		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
M89593	1139099uf	-4	WT-MW-50	No QC issues					
M89593	1139114	-5	WT-MW-50	Dichlorodifluoromethane	Laboratory Control Sample	60 / 55		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
M89593	1139114uf	-6	WT-MW-50	No QC issues					
M89593	1139100	-7	WT-MW-40	Dichlorodifluoromethane	Laboratory Control Sample	60 / 55		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
M89593	1139100uf	-8	WT-MW-40	No QC issues					
M89593	1139101	-9	WT-MW-59	Dichlorodifluoromethane	Laboratory Control Sample	60 / 55		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
M89593	1139101uf	-10	WT-MW-59	No QC issues					
M89593	1139095	-11	WT-MW-42	Dichlorodifluoromethane	Laboratory Control Sample	60 / 55		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
M89593	1139095uf	-12	WT-MW-42	No QC issues					
M89593	1139096	-13	WT-MW-43	Dichlorodifluoromethane	Laboratory Control Sample	60 / 55		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
M89593	1139096uf	-14	WT-MW-43	No QC issues					
M89593	1139097	-15	WT-MW-44	Dichlorodifluoromethane	Laboratory Control Sample	60 / 55		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
M89593	1139097uf	-16	WT-MW-44	No QC issues					
M89593	1139115	-17	TRIP BLANK	Dichlorodifluoromethane	Laboratory Control Sample	60 / 55		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Accutest**
Project:	**UTC: P&W Willow Pond Quarterly GW Monitoring**
Commission #	**88UT043.001**
SDG:	**M89610**
Date Samples Collected	**3/3/2010**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M89610	1139105	-1	WT-MW-57	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	
M89610	1139105uf	-2	WT-MW-57	No QC issues					
M89610	1139106	-3	WT-MW-58	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	
M89610	1139106uf	-4	WT-MW-58	No QC issues					
M89610	1139102	-5	WT-MW-47	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	
M89610	1139102uf	-6	WT-MW-47	No QC issues					
M89610	1139103	-7	WT-MW-48	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	
M89610	1139103uf	-8	WT-MW-48	No QC issues					
M89610	1139104	-9	WT-MW-19SR	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	
M89610	1139111	-10	TRIP BLANK	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Accutest**
Project:	**UTC: P&W Willow Pond Quarterly GW Monitoring**
Commission #	**88UT043.001**
SDG:	**M89610**
Date Samples Collected	**3/3/2010**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M89610	1139112	-11	EQUIPMENT	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	
M89610	1139112uf	-12	EQUIPMENT	No QC issues					
M89610	1139108	-13	WT-MW-49	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	
M89610	1139108uf	-14	WT-MW-49	No QC issues					
M89610	1139109	-15	WT-MW-46	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	
M89610	1139109uf	-16	WT-MW-46	No QC issues					
M89610	1139110	-17	WT-MW-45	Dichlorodifluoromethane	Laboratory Control Sample	68 / 62		low	
				Dichlorodifluoromethane	Continuing Calibration Check	>30% Diff		non-directional	
				Naphthalene	Continuing Calibration Check	>30% Diff		non-directional	
				1,2,3-Trichlorobenzene	Continuing Calibration Check	>30% Diff		non-directional	
				tert-Butyl-benzene	Continuing Calibration Check	>30% Diff		non-directional	
				Bromoform	MS/MSD	62 / 63		low	
				1,2,3-Trichlorobenzene	MS/MSD	68		low	
M89610	1139110uf	-18	WT-MW-45	No QC issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: M91867
Date Samples Collected 6/2/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M91867	1144927	-1	WT-MW-44	Acrylonitrile	MS/MSD	548 / 552		High	
M91867	1144927	-1	WT-MW-44	Acetone	MS/MSD	64 / 64		Low	
M91867	1144927	-1	WT-MW-44	2-Butanone (MEK)	Laboratory Control Sample	134 / 140		High	
M91867	1144927	-1	WT-MW-44	Acrylonitrile	Laboratory Control Sample	532 / 568		High	
M91867	1144927	-1	WT-MW-44	2-Butanone (MEK)	ICV	>35% Diff		non-directional	
M91867	1144927	-1	WT-MW-44	Bromomethane	Initial Calibration Std.			non-directional	employed quadratic regression
M91867	1144927	-1	WT-MW-44	1,1,1-Trichloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M91867	1144927uf	-2	WT-MW-44	NO QC issues					
M91867	1144928	-3	WT-MW-57	2-Butanone (MEK)	Laboratory Control Sample	134 / 140		High	
M91867	1144928	-3	WT-MW-57	Acrylonitrile	Laboratory Control Sample	532 / 568		High	
M91867	1144928	-3	WT-MW-57	2-Butanone (MEK)	ICV	>35% Diff		non-directional	
M91867	1144928	-3	WT-MW-57	Bromomethane	Initial Calibration Std.			non-directional	employed quadratic regression
M91867	1144928	-3	WT-MW-57	1,1,1-Trichloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M91867	1144928uf	-4	WT-MW-57	NO QC issues					
M91867	1144924	-5	WT-MW-43	2-Butanone (MEK)	Laboratory Control Sample	134 / 140		High	
M91867	1144924	-5	WT-MW-43	Acrylonitrile	Laboratory Control Sample	532 / 568		High	
M91867	1144924	-5	WT-MW-43	2-Butanone (MEK)	ICV	>35% Diff		non-directional	
M91867	1144924	-5	WT-MW-43	Bromomethane	Initial Calibration Std.			non-directional	employed quadratic regression
M91867	1144924	-5	WT-MW-43	1,1,1-Trichloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M91867	1144924uf	-6	WT-MW-43	NO QC issues					
M91867	1144925	-7	WT-MW-42	2-Butanone (MEK)	Laboratory Control Sample	134 / 140		High	
M91867	1144925	-7	WT-MW-42	Acrylonitrile	Laboratory Control Sample	532 / 568		High	
M91867	1144925	-7	WT-MW-42	2-Butanone (MEK)	ICV	>35% Diff		non-directional	
M91867	1144925	-7	WT-MW-42	Bromomethane	Initial Calibration Std.			non-directional	employed quadratic regression
M91867	1144925	-7	WT-MW-42	1,1,1-Trichloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M91867	1144925uf	-8	WT-MW-42	NO QC issues					
M91867	1144926	-9	WT-MW-41	Dichlorodifluoromethane	Laboratory Control Sample	132		High	
M91867	1144926	-9	WT-MW-41	Acrylonitrile	Laboratory Control Sample	590 / 620		High	
M91867	1144926	-9	WT-MW-41	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M91867	1144926uf	-10	WT-MW-41	NO QC issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: M91867
Date Samples Collected 6/2/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M91867	1144950	-11	TRIP BLANK	Dichlorodifluoromethane	Laboratory Control Sample	132		High	
M91867	1144950	-11	TRIP BLANK	Acrylonitrile	Laboratory Control Sample	590 / 620		High	
M91867	1144950	-11	TRIP BLANK	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M91867	1144931	-12	WT-MW-40	Dichlorodifluoromethane	Laboratory Control Sample	132		High	
M91867	1144931	-12	WT-MW-40	Acrylonitrile	Laboratory Control Sample	590 / 620		High	
M91867	1144931	-12	WT-MW-40	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M91867	1144931uf	-13	WT-MW-40	NO QC issues					
M91867	1144930	-14	WT-MW-50	All SVOCs	Surrogate Recovery	133		High	Surrogate: 4-Bromofluorobenzene
M91867	1144930	-14	WT-MW-50	Dichlorodifluoromethane	Laboratory Control Sample	132		High	
M91867	1144930	-14	WT-MW-50	Acrylonitrile	Laboratory Control Sample	590 / 620		High	
M91867	1144930	-14	WT-MW-50	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M91867	1144930uf	-15	WT-MW-50	NO QC issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: 951867
Date Samples Collected 6/3/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M91951	1144929	-1	WT-MW-48	2,2-Dichloropropane	Laboratory Control Sample	68 / 69		low	
M91951	1144929	-1	WT-MW-48	Acrylonitrile	Laboratory Control Sample	438 / 438		high	
M91951	1144929	-1	WT-MW-48	Tetrahydrofuran	Laboratory Control Sample	65		low	
M91951	1144929	-1	WT-MW-48	1,2,3-Trichlorobenzene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144929	-1	WT-MW-48	Naphthalaene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144929	-1	WT-MW-48	Acetone	ICV	>35% Diff		non-directional	
M91951	1144929	-1	WT-MW-48	2,2-Dichloropropane	CCV	>30% Diff		non-directional	
M91951	1144929	-1	WT-MW-48	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144929	-1	WT-MW-48	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144929uf	-1A	WT-MW-48	NO QC issues					
M91951	1144933	-2	WT-MW-58	2,2-Dichloropropane	Laboratory Control Sample	68 / 69		low	
M91951	1144933	-2	WT-MW-58	Acrylonitrile	Laboratory Control Sample	438 / 438		high	
M91951	1144933	-2	WT-MW-58	Tetrahydrofuran	Laboratory Control Sample	65		low	
M91951	1144933	-2	WT-MW-58	1,2,3-Trichlorobenzene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144933	-2	WT-MW-58	Naphthalaene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144933	-2	WT-MW-58	Acetone	ICV	>35% Diff		non-directional	
M91951	1144933	-2	WT-MW-58	2,2-Dichloropropane	CCV	>30% Diff		non-directional	
M91951	1144933	-2	WT-MW-58	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144933	-2	WT-MW-58	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144932uf	-3	WT-MW-59	NO QC issues					
M91951	1144932	-4	WT-MW-59	2,2-Dichloropropane	Laboratory Control Sample	68 / 69		low	
M91951	1144932	-4	WT-MW-59	Acrylonitrile	Laboratory Control Sample	438 / 438		high	
M91951	1144932	-4	WT-MW-59	Tetrahydrofuran	Laboratory Control Sample	65		low	
M91951	1144932	-4	WT-MW-59	1,2,3-Trichlorobenzene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144932	-4	WT-MW-59	Naphthalaene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144932	-4	WT-MW-59	Acetone	ICV	>35% Diff		non-directional	
M91951	1144932	-4	WT-MW-59	2,2-Dichloropropane	CCV	>30% Diff		non-directional	
M91951	1144932	-4	WT-MW-59	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144932	-4	WT-MW-59	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144933uf	-5	WT-MW-58	NO QC issues					
M91951	1144939uf	-6	WT-MW-59	NO QC issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: 951867
Date Samples Collected 6/3/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M91951	1144934	-7	WT-MW-47	2,2-Dichloropropane	Laboratory Control Sample	68 / 69		low	
M91951	1144934	-7	WT-MW-47	Acrylonitrile	Laboratory Control Sample	438 / 438		high	
M91951	1144934	-7	WT-MW-47	Tetrahydrofuran	Laboratory Control Sample	65		low	
M91951	1144934	-7	WT-MW-47	1,2,3-Trichlorobenzene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144934	-7	WT-MW-47	Naphthalaene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144934	-7	WT-MW-47	Acetone	ICV	>35% Diff		non-directional	
M91951	1144934	-7	WT-MW-47	2,2-Dichloropropane	CCV	>30% Diff		non-directional	
M91951	1144934	-7	WT-MW-47	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144934	-7	WT-MW-47	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144934uf	-7A	WT-MW-47	NO QC issues					
M91951	1144937	-8	WT-MW-45	2,2-Dichloropropane	Laboratory Control Sample	68 / 69		low	
M91951	1144937	-8	WT-MW-45	Acrylonitrile	Laboratory Control Sample	438 / 438		high	
M91951	1144937	-8	WT-MW-45	Tetrahydrofuran	Laboratory Control Sample	65		low	
M91951	1144937	-8	WT-MW-45	1,2,3-Trichlorobenzene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144937	-8	WT-MW-45	Naphthalaene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144937	-8	WT-MW-45	Acetone	ICV	>35% Diff		non-directional	
M91951	1144937	-8	WT-MW-45	2,2-Dichloropropane	CCV	>30% Diff		non-directional	
M91951	1144937	-8	WT-MW-45	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144937	-8	WT-MW-45	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144937uf	-8A	WT-MW-45	NO QC issues					
M91951	1144936	-9	WT-MW-49	2,2-Dichloropropane	Laboratory Control Sample	68 / 69		low	
M91951	1144936	-9	WT-MW-49	Acrylonitrile	Laboratory Control Sample	438 / 438		high	
M91951	1144936	-9	WT-MW-49	Tetrahydrofuran	Laboratory Control Sample	65		low	
M91951	1144936	-9	WT-MW-49	1,2,3-Trichlorobenzene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144936	-9	WT-MW-49	Naphthalaene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144936	-9	WT-MW-49	Acetone	ICV	>35% Diff		non-directional	
M91951	1144936	-9	WT-MW-49	2,2-Dichloropropane	CCV	>30% Diff		non-directional	
M91951	1144936	-9	WT-MW-49	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144936	-9	WT-MW-49	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144936uf	-9A	WT-MW-49	NO QC issues					
M91951	1144935	-10	WT-MW-46	2,2-Dichloropropane	Laboratory Control Sample	68 / 69		low	
M91951	1144935	-10	WT-MW-46	Acrylonitrile	Laboratory Control Sample	438 / 438		high	
M91951	1144935	-10	WT-MW-46	Tetrahydrofuran	Laboratory Control Sample	65		low	
M91951	1144935	-10	WT-MW-46	1,2,3-Trichlorobenzene	Initial Calibration Std.			non-directional	employed quadratic regression

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: 951867
Date Samples Collected 6/3/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M91951	1144935	-10	WT-MW-46	Naphthalaene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144935	-10	WT-MW-46	Acetone	ICV	>35% Diff		non-directional	
M91951	1144935	-10	WT-MW-46	2,2-Dichloropropane	CCV	>30% Diff		non-directional	
M91951	1144935	-10	WT-MW-46	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144935	-10	WT-MW-46	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144935uf	-10A	WT-MW-46	NO QC issues					
M91951	1144942	-11	TRIP BLANK	2,2-Dichloropropane	Laboratory Control Sample	68 / 69		low	
M91951	1144942	-11	TRIP BLANK	Acrylonitrile	Laboratory Control Sample	438 / 438		high	
M91951	1144942	-11	TRIP BLANK	Tetrahydrofuran	Laboratory Control Sample	65		low	
M91951	1144942	-11	TRIP BLANK	1,2,3-Trichlorobenzene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144942	-11	TRIP BLANK	Naphthalaene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144942	-11	TRIP BLANK	Acetone	ICV	>35% Diff		non-directional	
M91951	1144942	-11	TRIP BLANK	2,2-Dichloropropane	CCV	>30% Diff		non-directional	
M91951	1144942	-11	TRIP BLANK	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144942	-11	TRIP BLANK	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144939	-12	WT-MW-59	2,2-Dichloropropane	Laboratory Control Sample	68 / 69		low	
M91951	1144939	-12	WT-MW-59	Acrylonitrile	Laboratory Control Sample	438 / 438		high	
M91951	1144939	-12	WT-MW-59	Tetrahydrofuran	Laboratory Control Sample	65		low	
M91951	1144939	-12	WT-MW-59	1,2,3-Trichlorobenzene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144939	-12	WT-MW-59	Naphthalaene	Initial Calibration Std.			non-directional	employed quadratic regression
M91951	1144939	-12	WT-MW-59	Acetone	ICV	>35% Diff		non-directional	
M91951	1144939	-12	WT-MW-59	2,2-Dichloropropane	CCV	>30% Diff		non-directional	
M91951	1144939	-12	WT-MW-59	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144939	-12	WT-MW-59	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144940	-13	EQUUIPMENT	1,2,3-Trichlorobenzene	Laboratory Control Sample	132 / 134		high	
M91951	1144940	-13	EQUUIPMENT	Trans-1,4-Dichloro-2-Butene	Laboratory Control Sample	60 / 62		low	
M91951	1144940	-13	EQUUIPMENT	Tetrahydrofuran	Laboratory Control Sample	66		low	
M91951	1144940	-13	EQUUIPMENT	Tetrachloroethene	Laboratory Control Sample	132		high	
M91951	1144940	-13	EQUUIPMENT	2-Hexanone	Laboratory Control Sample	141 / 139		high	
M91951	1144940	-13	EQUUIPMENT	2-Butanone (MEK)	Laboratory Control Sample	139 / 136		high	
M91951	1144940	-13	EQUUIPMENT	Acrylonitrile	Laboratory Control Sample	458 / 446		high	
M91951	1144940	-13	EQUUIPMENT	Acetone	Laboratory Control Sample	151 / 153		high	
M91951	1144940	-13	EQUUIPMENT	Tetrahydrofuran	CCV	>30% Diff		non-directional	
M91951	1144940	-13	EQUUIPMENT	Trans-1,4-Dichloro-2-Butene	CCV	>30% Diff		non-directional	
M91951	1144940	-13	EQUUIPMENT	1,2,3-Trichloropropane	CCV	>30% Diff		non-directional	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Accutest**
Project:	**UTC: P&W Willow Pond Quarterly GW Monitoring**
Commission #	**88UT043.001**
SDG:	**951867**
Date Samples Collected	**6/3/2010**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M91951	1144940uf	-14	EQUIPMENT	NO QC issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Accutest**
Project:	**UTC: P&W Willow Pond Quarterly GW Monitoring**
Commission #	**88UT043.001**
SDG:	**M93188**
Date Samples Collected	**7/27/2010**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M93188	1149711	-1	WT-MW-43	No QC issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Test America**
Project:	**UTC: P&W Willow Pond Quarterly GW Monitoring**
Commission #	**88UT043.001**
SDG:	**220-12855-3**
Date Samples Collected	**7/27/2010**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
220-12855	1149712	-27	WT-MW-43	No QC issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: M94105
Date Samples Collected 9/8/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M94105	1152488	-1	WT-MW-44	Dichlorodifluoromethane	Laboratory Control Sample	50%		Low	
M94105	1152488	-1	WT-MW-44	1,1,1-Trichloroethane	MS/MSD	132%		High	
M94105	1152488	-1	WT-MW-44	1,1-Dichloroethane	MS/MSD	134%		High	
M94105	1152488	-1	WT-MW-44	Dichlorodifluoromethane	MS/MSD	58% / 56%		Low	
M94105	1152488	-1	WT-MW-44	Acrylonitrile	MS/MSD	139% / 136%		High	
M94105	1152488	-1	WT-MW-44	2,2-Dichloropropane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152488	-1	WT-MW-44	1,1,1,2-Tetrachloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152488	-1	WT-MW-44	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94105	1152488	-1	WT-MW-44	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152488uf	-2	WT-MW-44	No QC issues					
M94105	1152489	-3	WT-MW-50	Dichlorodifluoromethane	Laboratory Control Sample	50%		Low	
M94105	1152489	-3	WT-MW-50	2,2-Dichloropropane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152489	-3	WT-MW-50	1,1,1,2-Tetrachloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152489	-3	WT-MW-50	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94105	1152489	-3	WT-MW-50	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152489	-3	WT-MW-50	Dichlorodifluoromethane	Laboratory Control Sample	48%		Low	
M94105	1152489	-3	WT-MW-50	Acrylonitrile	Laboratory Control Sample	136%		High	
M94105	1152489	-3	WT-MW-50	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152489	-3	WT-MW-50	Acrylonitrile	CCV	>30% Diff		non-directional	
M94105	1152489uf	-4	WT-MW-50	No QC issues					
M94105	1152500	-5	WT-MW-50	Dichlorodifluoromethane	Laboratory Control Sample	50%		Low	
M94105	1152500	-5	WT-MW-50	2,2-Dichloropropane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152500	-5	WT-MW-50	1,1,1,2-Tetrachloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152500	-5	WT-MW-50	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94105	1152500	-5	WT-MW-50	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152500	-5	WT-MW-50	Dichlorodifluoromethane	Laboratory Control Sample	48%		Low	
M94105	1152500	-5	WT-MW-50	Acrylonitrile	Laboratory Control Sample	136%		High	
M94105	1152500	-5	WT-MW-50	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152500	-5	WT-MW-50	Acrylonitrile	CCV	>30% Diff		non-directional	
M94105	1152500uf	-6	WT-MW-50	No QC issues					
M94105	1152487	-7	WT-MW-42	Dichlorodifluoromethane	Laboratory Control Sample	48%		Low	
M94105	1152487	-7	WT-MW-42	Acrylonitrile	Laboratory Control Sample	136%		High	
M94105	1152487	-7	WT-MW-42	Isopropylbenzene	MS/MSD	131%		High	
M94105	1152487	-7	WT-MW-42	Dichlorodifluoromethane	MS/MSD	53% / 51%		Low	
M94105	1152487	-7	WT-MW-42	Chloromethane	MS/MSD	48%	52	Low, non-directional	
M94105	1152487	-7	WT-MW-42	Bromomethane	MS/MSD	67%	42	Low, non-directional	
M94105	1152487	-7	WT-MW-42	Acetone		68%		Low	
M94105	1152487	-7	WT-MW-42	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152487	-7	WT-MW-42	Acrylonitrile	CCV	>30% Diff		non-directional	
M94105	1152487uf	-8	WT-MW-42	No QC issues					
M94105	1152501	-9	TRIP BLANK	Dichlorodifluoromethane	Laboratory Control Sample	50%		Low	
M94105	1152501	-9	TRIP BLANK	2,2-Dichloropropane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152501	-9	TRIP BLANK	1,1,1,2-Tetrachloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152501	-9	TRIP BLANK	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94105	1152501	-9	TRIP BLANK	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152480	-10	WT-MW-47	Dichlorodifluoromethane	Laboratory Control Sample	50%		Low	
M94105	1152480	-10	WT-MW-47	2,2-Dichloropropane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152480	-10	WT-MW-47	1,1,1,2-Tetrachloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152480	-10	WT-MW-47	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94105	1152480	-10	WT-MW-47	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: M94105
Date Samples Collected 9/8/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M94105	1152480uf	-11	WT-MW-47	No QC issues					
M94105	1152481	-12	WT-MW-46	Dichlorodifluoromethane	Laboratory Control Sample	50%		Low	
M94105	1152481	-12	WT-MW-46	2,2-Dichloropropane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152481	-12	WT-MW-46	1,1,1,2-Tetrachloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152481	-12	WT-MW-46	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94105	1152481	-12	WT-MW-46	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152481uf	-13	WT-MW-46	No QC issues					
M94105	1152482	-14	WT-MW-48	Dichlorodifluoromethane	Laboratory Control Sample	50%		Low	
M94105	1152482	-14	WT-MW-48	2,2-Dichloropropane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152482	-14	WT-MW-48	1,1,1,2-Tetrachloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152482	-14	WT-MW-48	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94105	1152482	-14	WT-MW-48	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152482	-14	WT-MW-48	CT ETPH	Surrogate Recovery	30% / 40%		Low	
M94105	1152482uf	-15	WT-MW-48	No QC issues					
M94105	1152483	-16	WT-MW-57	Dichlorodifluoromethane	Laboratory Control Sample	50%		Low	
M94105	1152483	-16	WT-MW-57	2,2-Dichloropropane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152483	-16	WT-MW-57	1,1,1,2-Tetrachloroethane	Initial Calibration Std.			non-directional	employed quadratic regression
M94105	1152483	-16	WT-MW-57	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94105	1152483	-16	WT-MW-57	Dichlorodifluoromethane	CCV	>30% Diff		non-directional	
M94105	1152483uf	-17	WT-MW-57	No QC issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: M94151
Date Samples Collected 9/9/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M94151	1152495	-1	TRIP BLANK	Naphthalene	Laboratory Control Sample	69% / 68%		Low	
M94151	1152495	-1	TRIP BLANK	2-Hexanone	Laboratory Control Sample	62%		Low	
M94151	1152495	-1	TRIP BLANK	Acrylonitrile	Laboratory Control Sample	456% / 500%		High	
M94151	1152495	-1	TRIP BLANK	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94151	1152495	-1	TRIP BLANK	1,2,3-Trichlorobenzene	CCV	>30% Diff		non-directional	
M94151	1152496	-2	EQUIPMENT	Naphthalene	Laboratory Control Sample	69% / 68%		Low	
M94151	1152496	-2	EQUIPMENT	2-Hexanone	Laboratory Control Sample	62%		Low	
M94151	1152496	-2	EQUIPMENT	Acrylonitrile	Laboratory Control Sample	456% / 500%		High	
M94151	1152496	-2	EQUIPMENT	1,2,3-Trichlorobenzene	MS/MSD	68% / 65%		Low	
M94151	1152496	-2	EQUIPMENT	Naphthalene	MS/MSD	64% / 63%		Low	
M94151	1152496	-2	EQUIPMENT	4-Methyl-2-pentanone (MIBK)	MS/MSD	66% / 69%		Low	
M94151	1152496	-2	EQUIPMENT	2-Hexanone	MS/MSD	40% / 39%		Low	
M94151	1152496	-2	EQUIPMENT	2-Butanone (MEK)	MS/MSD	51% / 53%		Low	
M94151	1152496	-2	EQUIPMENT	Acrylonitrile	MS/MSD	456% / 464%		High	
M94151	1152496	-2	EQUIPMENT	Acetone	MS/MSD	35% / 40%		Low	
M94151	1152496	-2	EQUIPMENT	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94151	1152496	-2	EQUIPMENT	1,2,3-Trichlorobenzene	CCV	>30% Diff		non-directional	
M94151	1152496uf	-3	EQUIPMENT	No QC issues					
M94151	1152497	-4	Performance	Naphthalene	Laboratory Control Sample	69% / 68%		Low	
M94151	1152497	-4	Performance	2-Hexanone	Laboratory Control Sample	62%		Low	
M94151	1152497	-4	Performance	Acrylonitrile	Laboratory Control Sample	456% / 500%		High	
M94151	1152497	-4	Performance	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94151	1152497	-4	Performance	1,2,3-Trichlorobenzene	CCV	>30% Diff		non-directional	
M94151	1152497uf	-5	Performance	No QC issues					
M94151	1152485	-8	WT-MW-40	Naphthalene	Laboratory Control Sample	69% / 68%		Low	
M94151	1152485	-8	WT-MW-40	2-Hexanone	Laboratory Control Sample	62%		Low	
M94151	1152485	-8	WT-MW-40	Acrylonitrile	Laboratory Control Sample	456% / 500%		High	
M94151	1152485	-8	WT-MW-40	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94151	1152485	-8	WT-MW-40	1,2,3-Trichlorobenzene	CCV	>30% Diff		non-directional	
M94151	1152485uf	-9	WT-MW-40	No QC issues					
M94151	1152486	-10	WT-MW-59	Naphthalene	Laboratory Control Sample	69% / 68%		Low	
M94151	1152486	-10	WT-MW-59	2-Hexanone	Laboratory Control Sample	62%		Low	
M94151	1152486	-10	WT-MW-59	Acrylonitrile	Laboratory Control Sample	456% / 500%		High	
M94151	1152486	-10	WT-MW-59	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94151	1152486	-10	WT-MW-59	1,2,3-Trichlorobenzene	CCV	>30% Diff		non-directional	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Accutest
Project: UTC: P&W Willow Pond Quarterly GW Monitoring
Commission # 88UT043.001
SDG: M94151
Date Samples Collected 9/9/2010
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

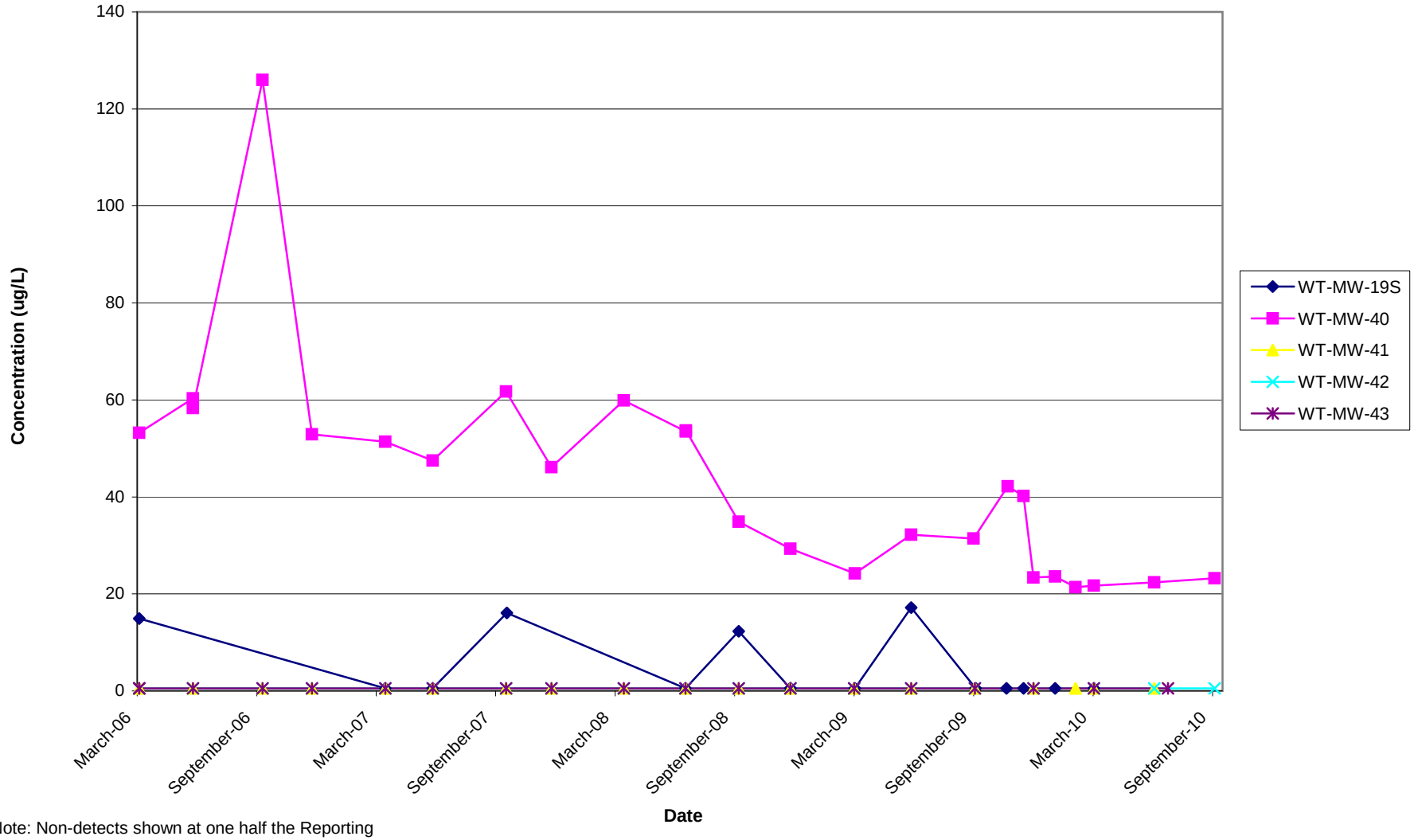
Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
M94151	1152486uf	-11	WT-MW-59	No QC issues					
M94151	1152490	-12	WT-MW-58	Naphthalene	Laboratory Control Sample	69% / 68%		Low	
M94151	1152490	-12	WT-MW-58	2-Hexanone	Laboratory Control Sample	62%		Low	
M94151	1152490	-12	WT-MW-58	Acrylonitrile	Laboratory Control Sample	456% / 500%		High	
M94151	1152490	-12	WT-MW-58	Dichlorodifluoromethane	ICV	>35% Diff		non-directional	
M94151	1152490	-12	WT-MW-58	1,2,3-Trichlorobenzene	CCV	>30% Diff		non-directional	
M94151	1152490uf	-13	WT-MW-58	No QC issues					

Appendix D

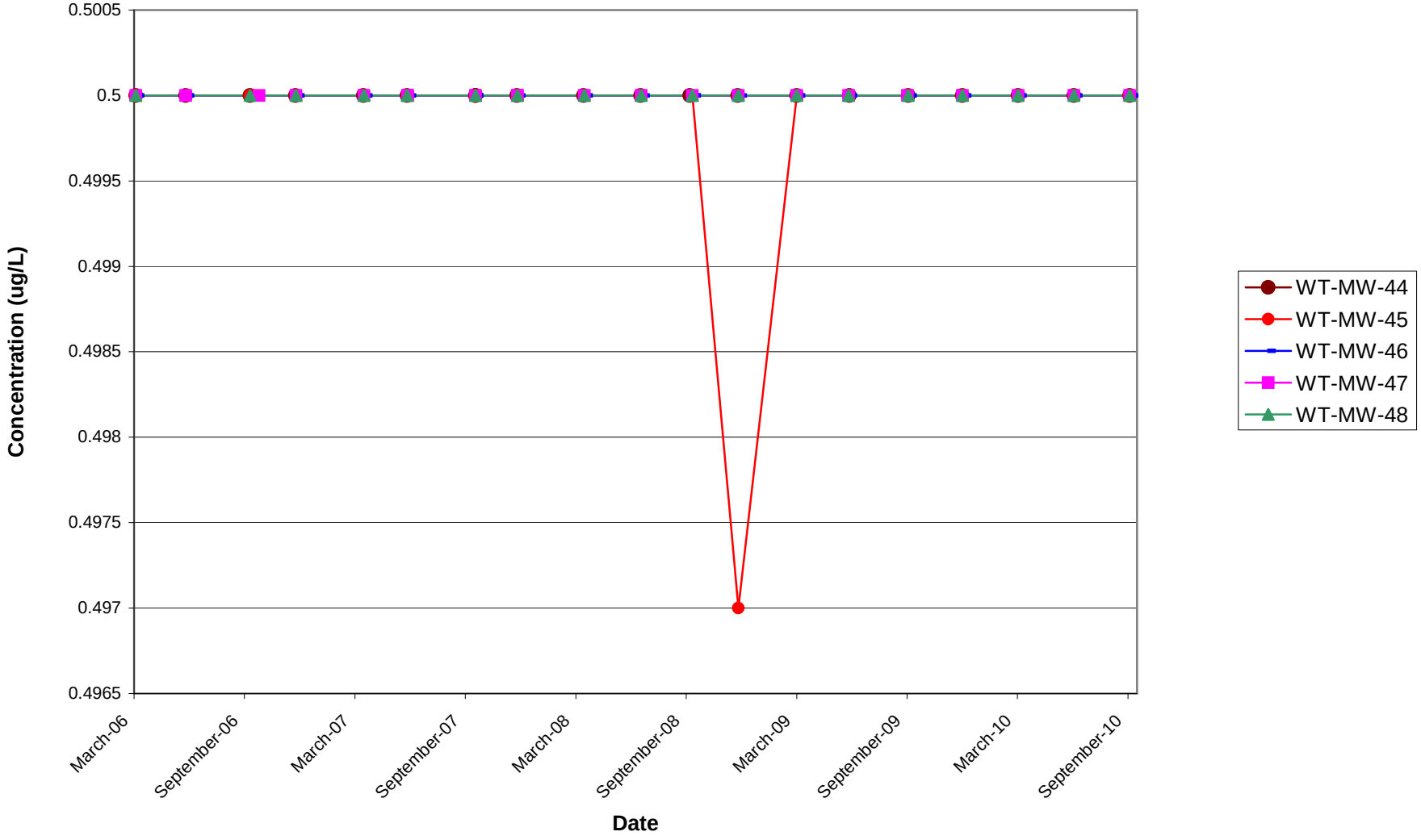
Select Constituent Concentration Graphs

1,1-Dichloroethane (1,1 DCA)
Pratt & Whitney, East Harford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



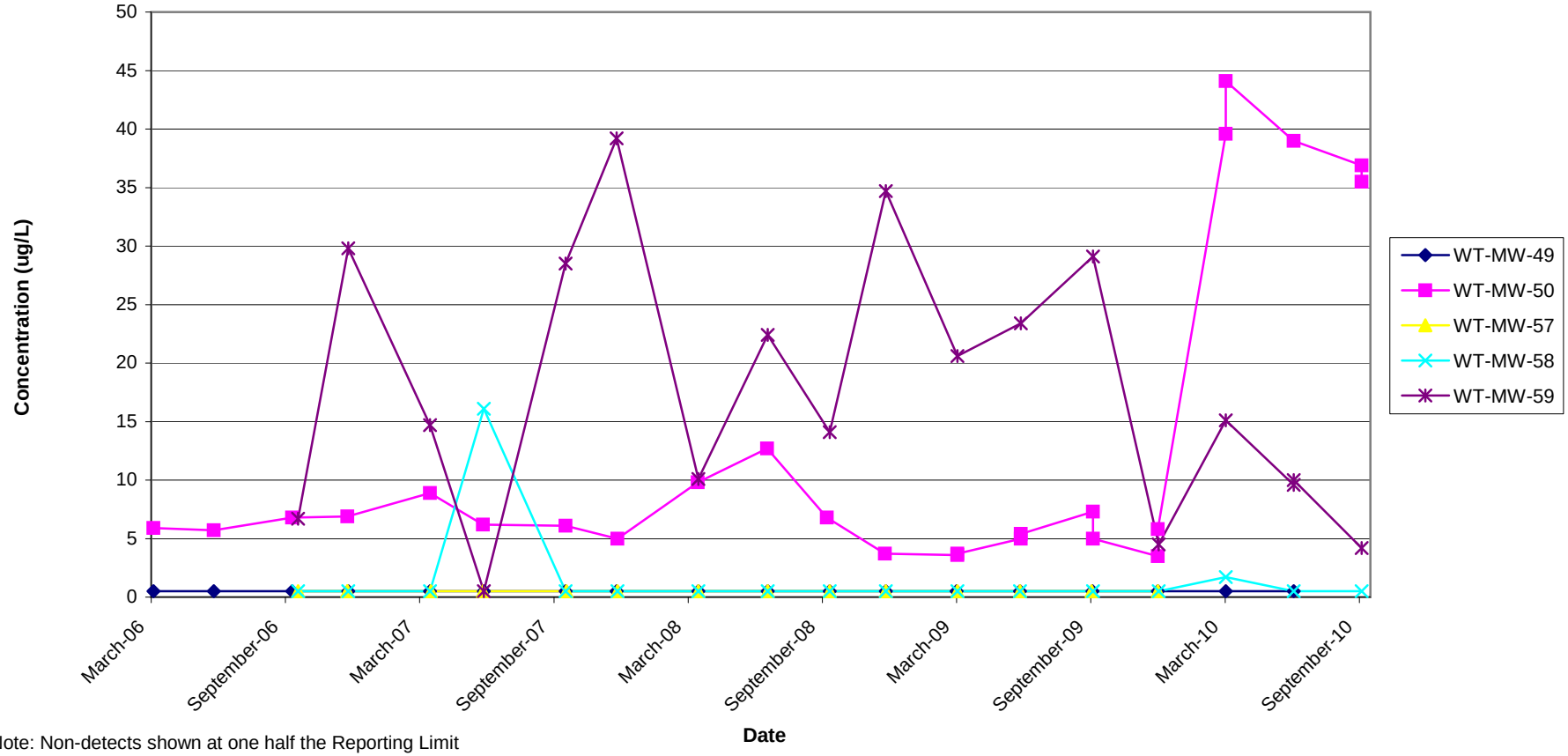
Note: Non-detects shown at one half the Reporting

1,1-Dichloroethane (1,1 DCA)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



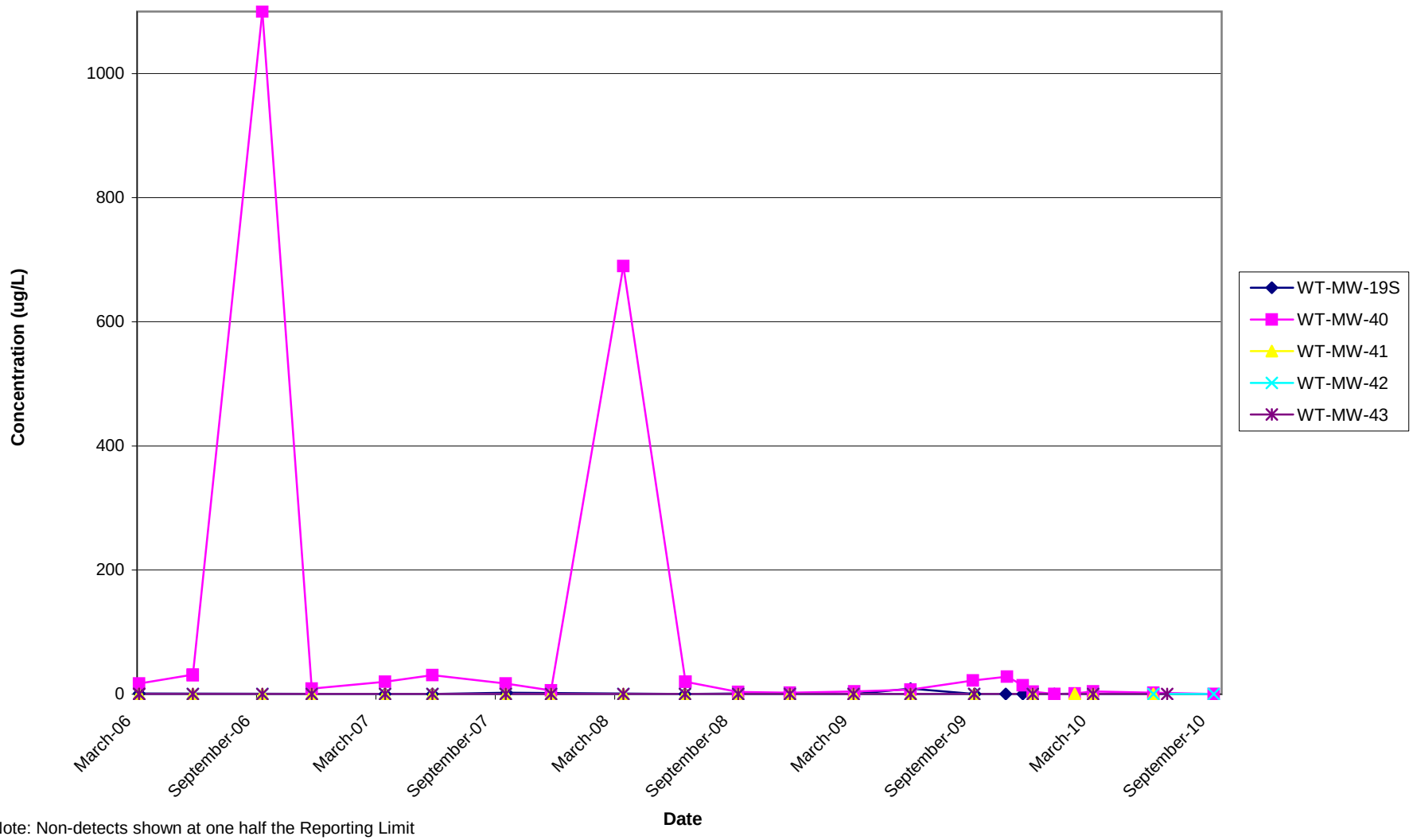
Note: Non-detects shown at one half the Reporting Limit

1,1-Dichloroethane (1,1 DCA)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



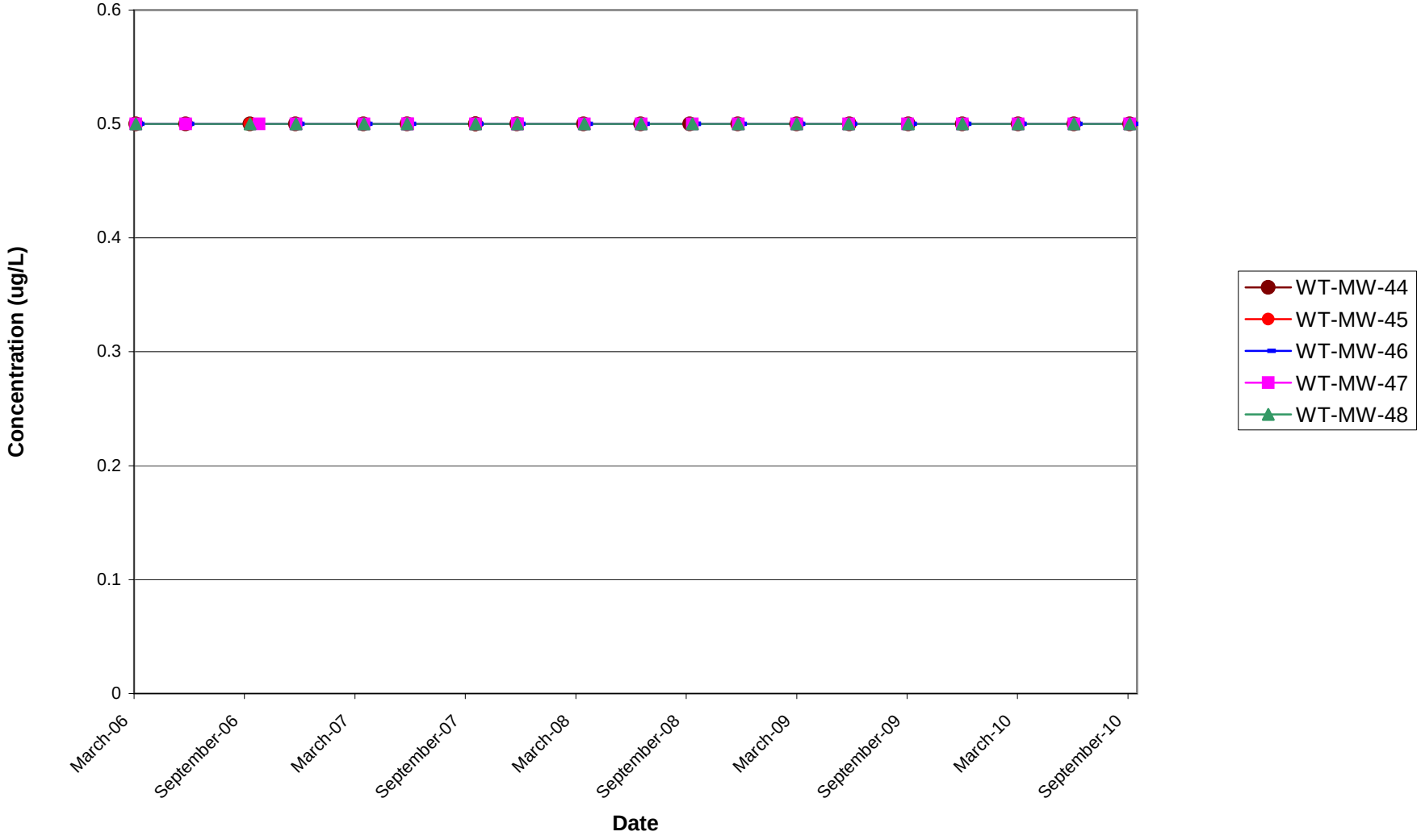
Note: Non-detects shown at one half the Reporting Limit

1,1-Dichloroethylene (1,1 DCE)
Pratt & Whitney, East Harford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



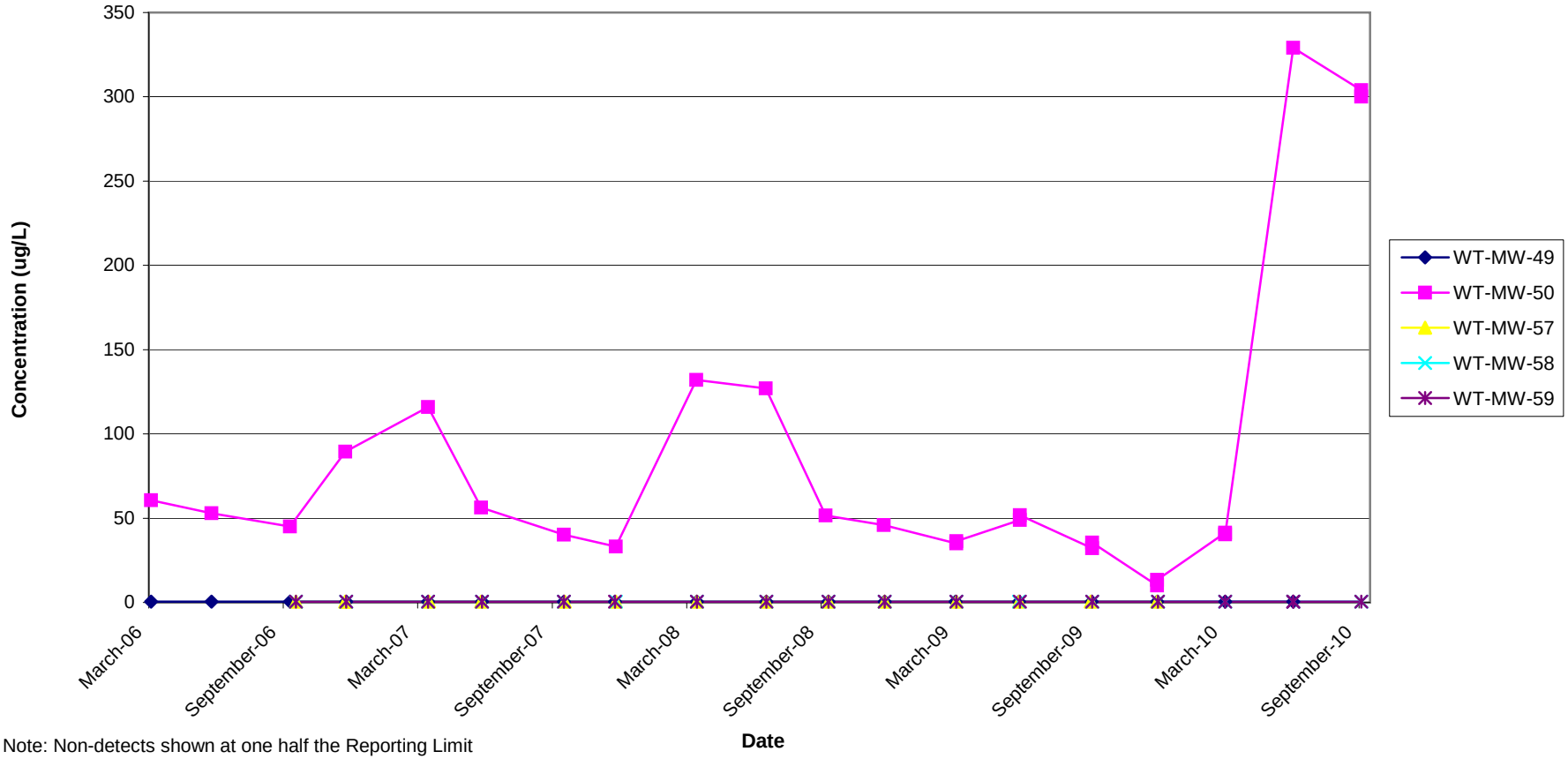
Note: Non-detects shown at one half the Reporting Limit

1,1-Dichloroethylene (1,1 DCE)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



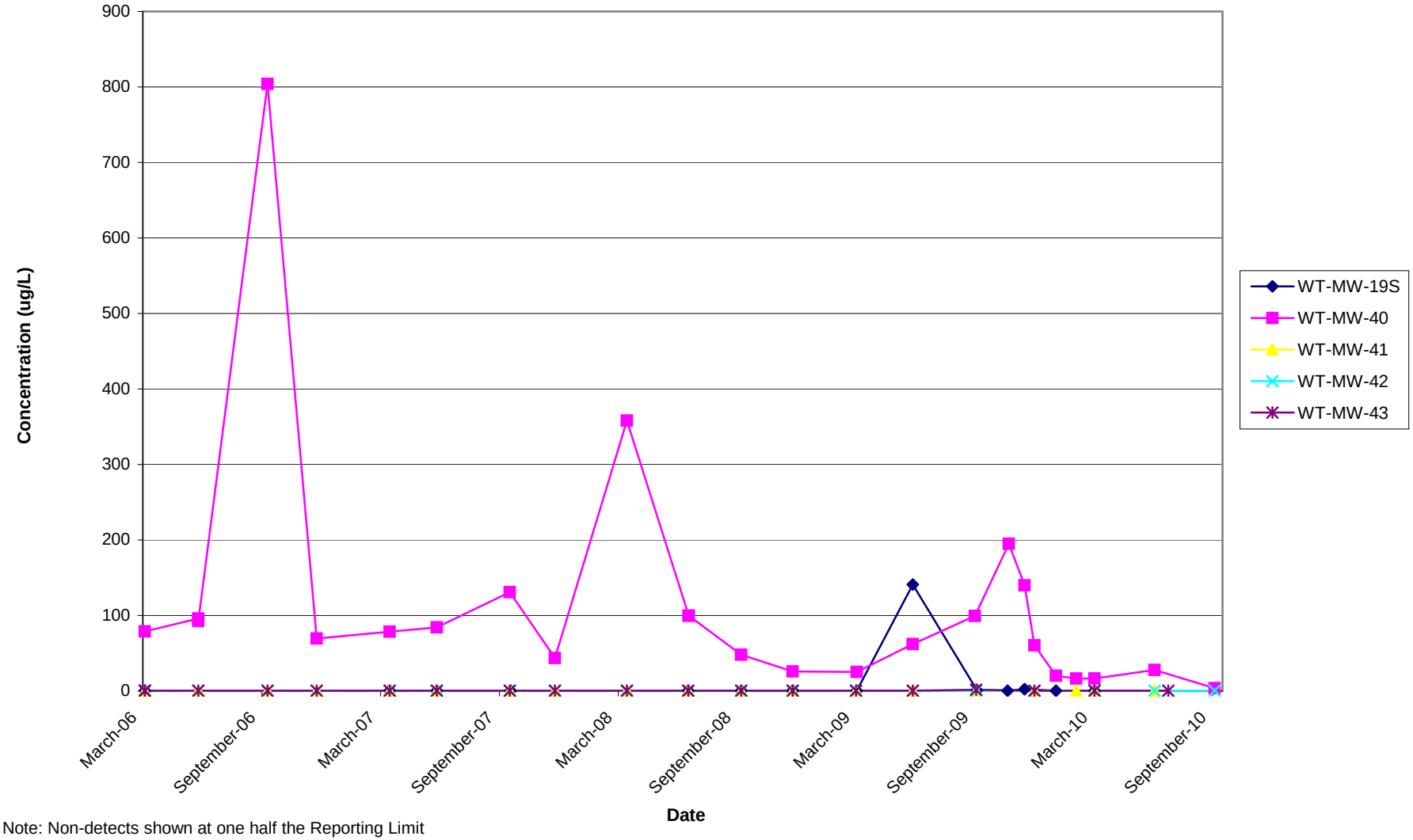
Note: Non-detects shown at one half the Reporting Limit

1,1-Dichloroethylene (1,1 DCE)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



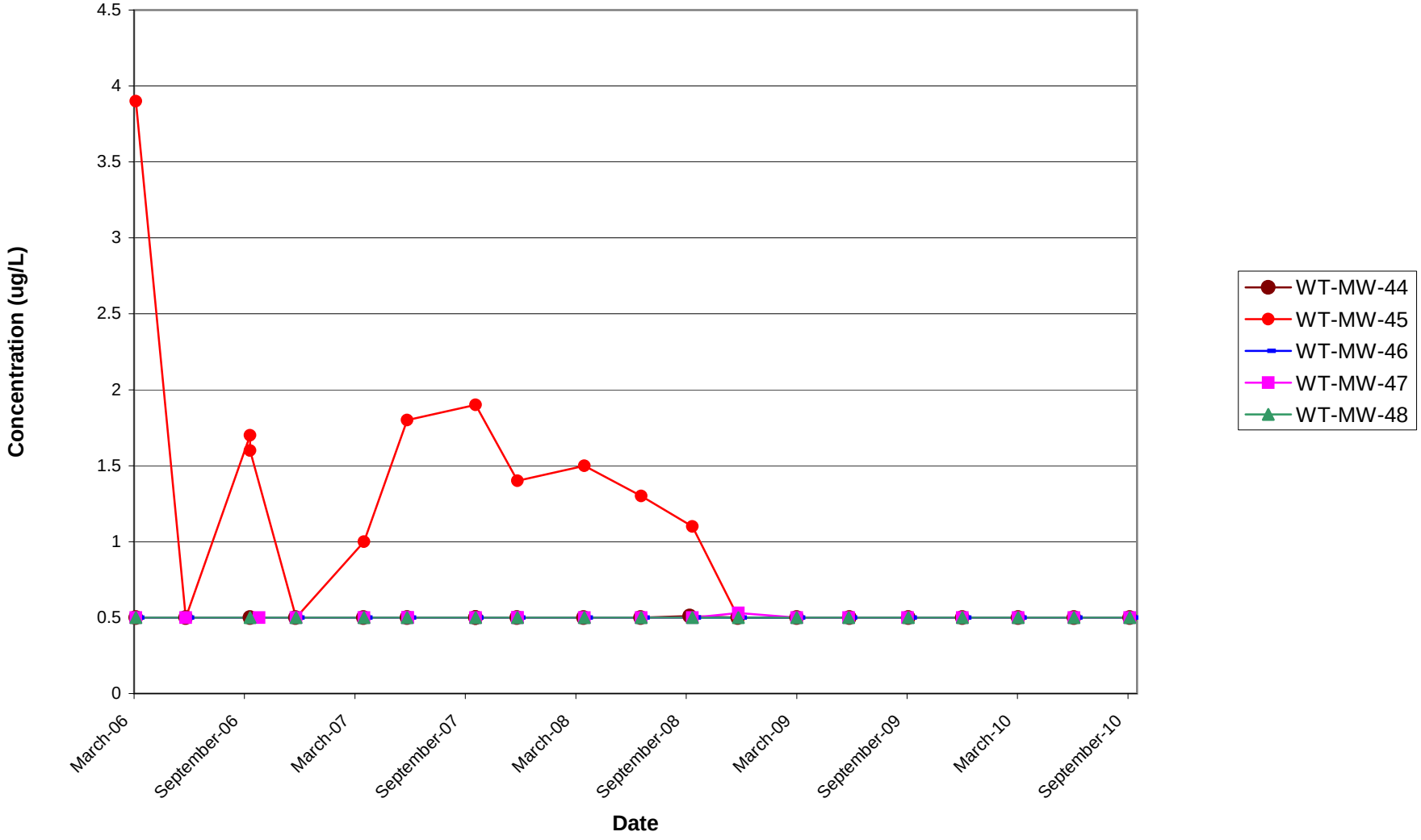
Note: Non-detects shown at one half the Reporting Limit

cis-1,2-Dichloroethylene (cis-1,2-DCE)
Pratt & Whitney, East Harford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



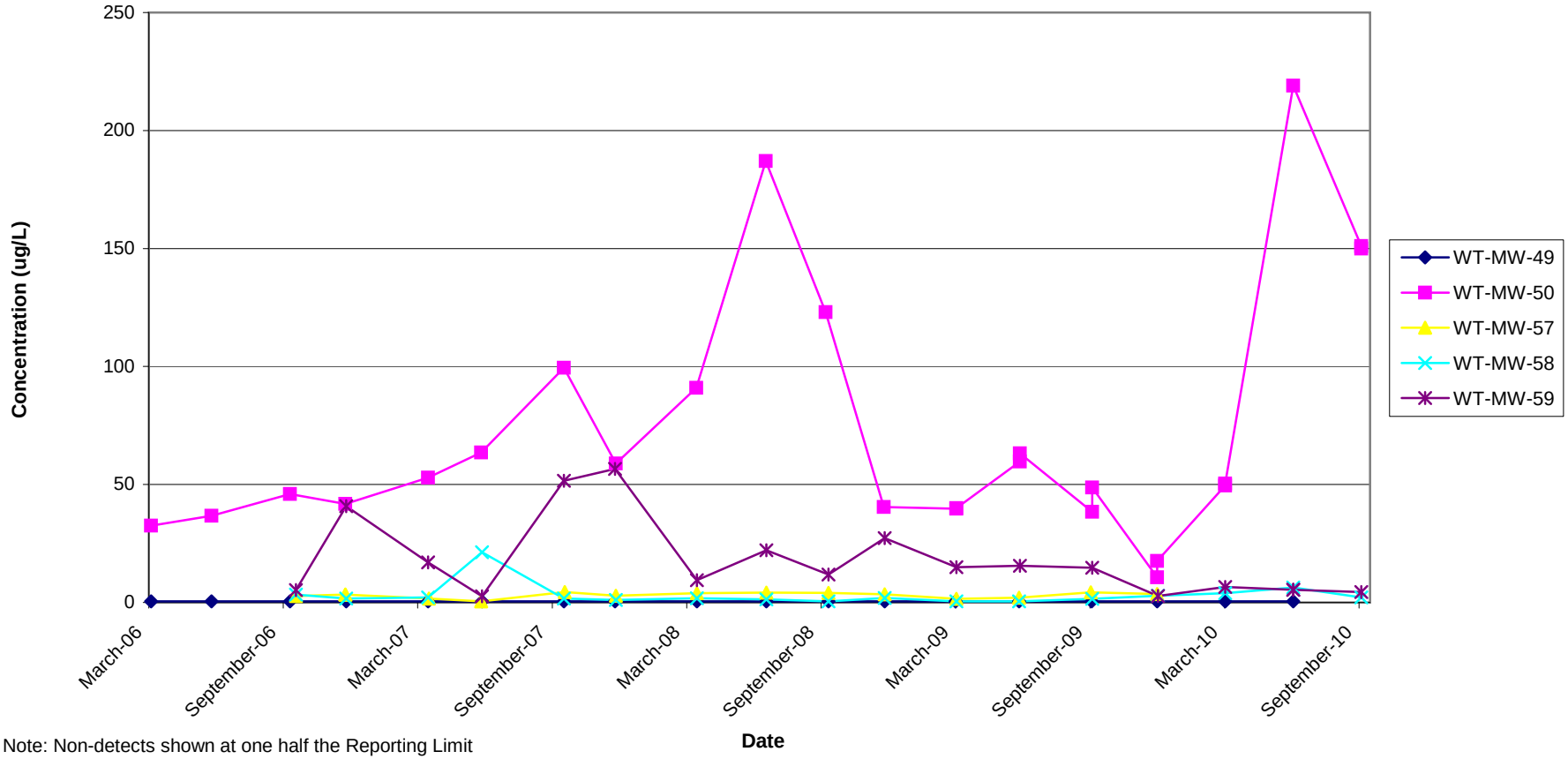
Note: Non-detects shown at one half the Reporting Limit

cis-1,2-Dichloroethylene (cis-1,2-DCE)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



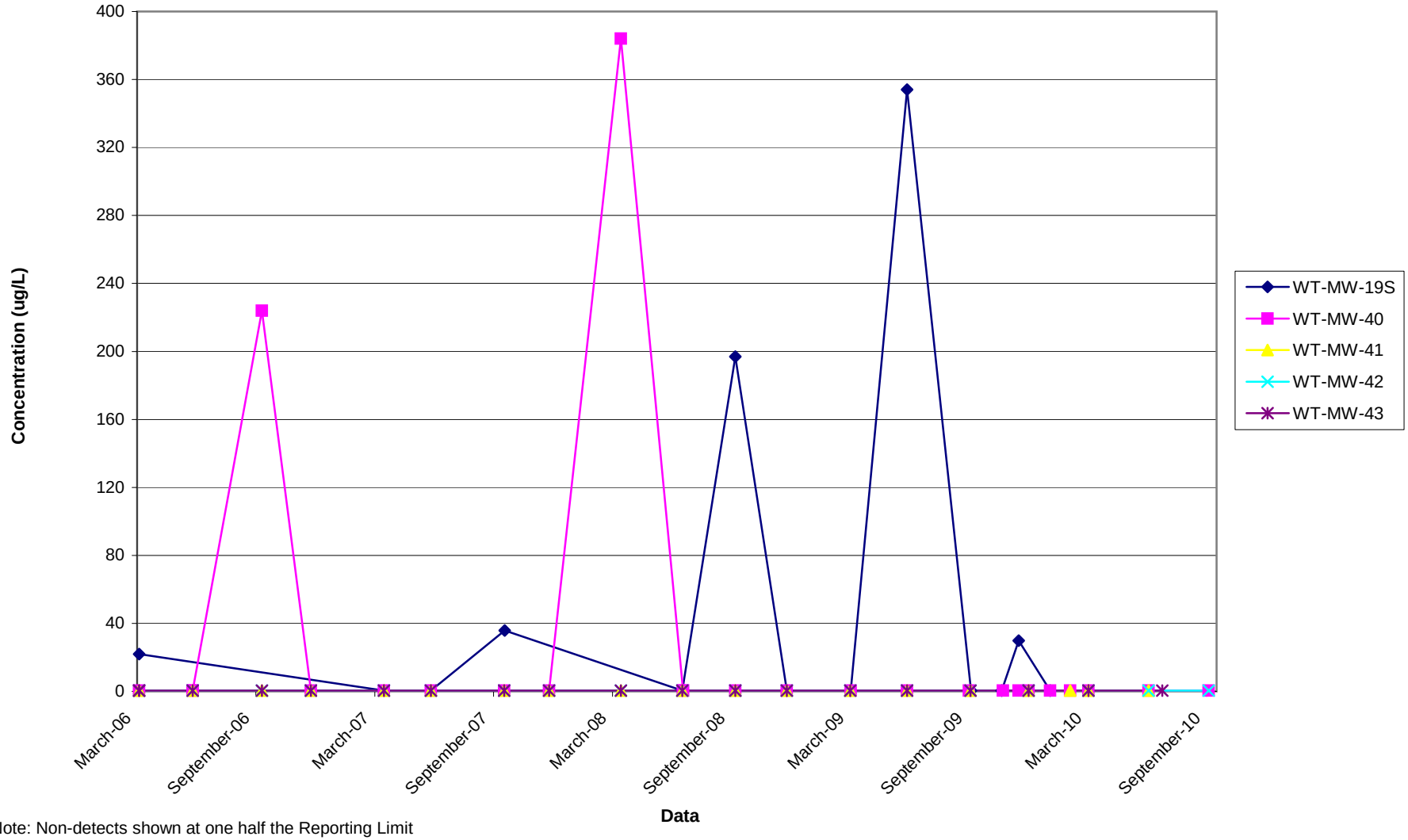
Note: Non-detects shown at one half the Reporting Limit

cis-1,2-Dichlorethylene (cis-1,2-DCE)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



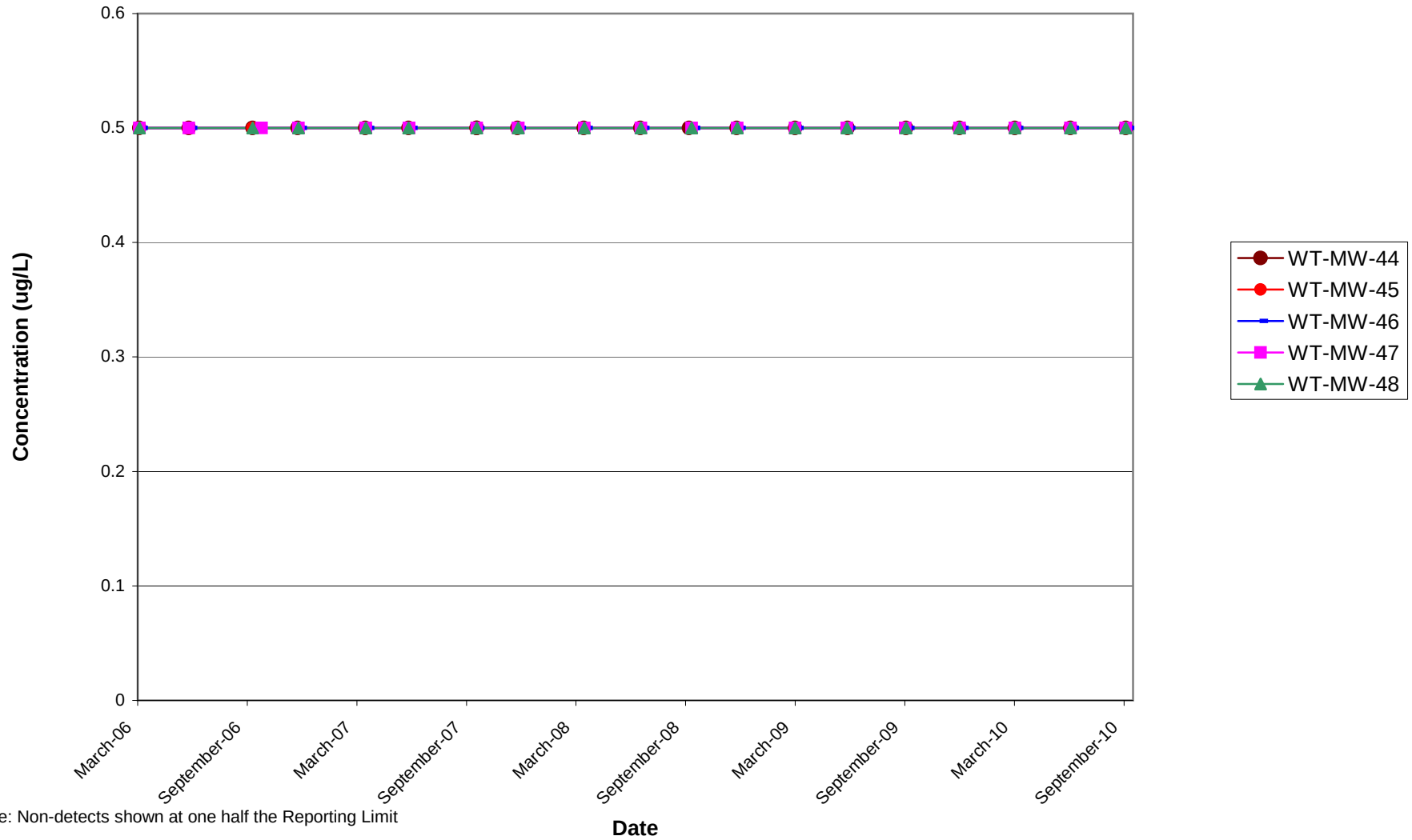
Note: Non-detects shown at one half the Reporting Limit

Tetrachloroethylene (PCE)
Pratt & Whitney, East Harford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



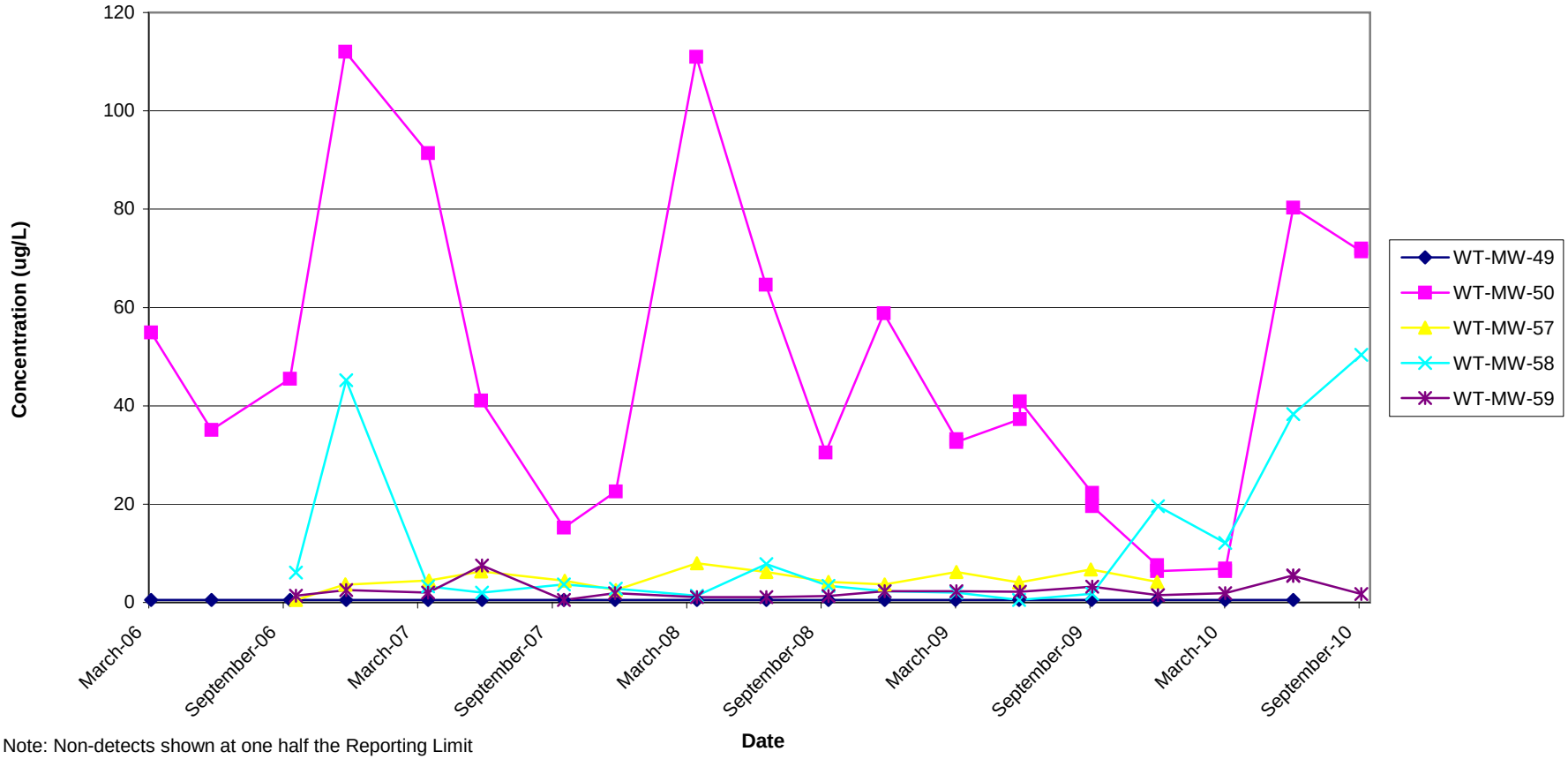
Note: Non-detects shown at one half the Reporting Limit

Tetrachloroethylene (PCE)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



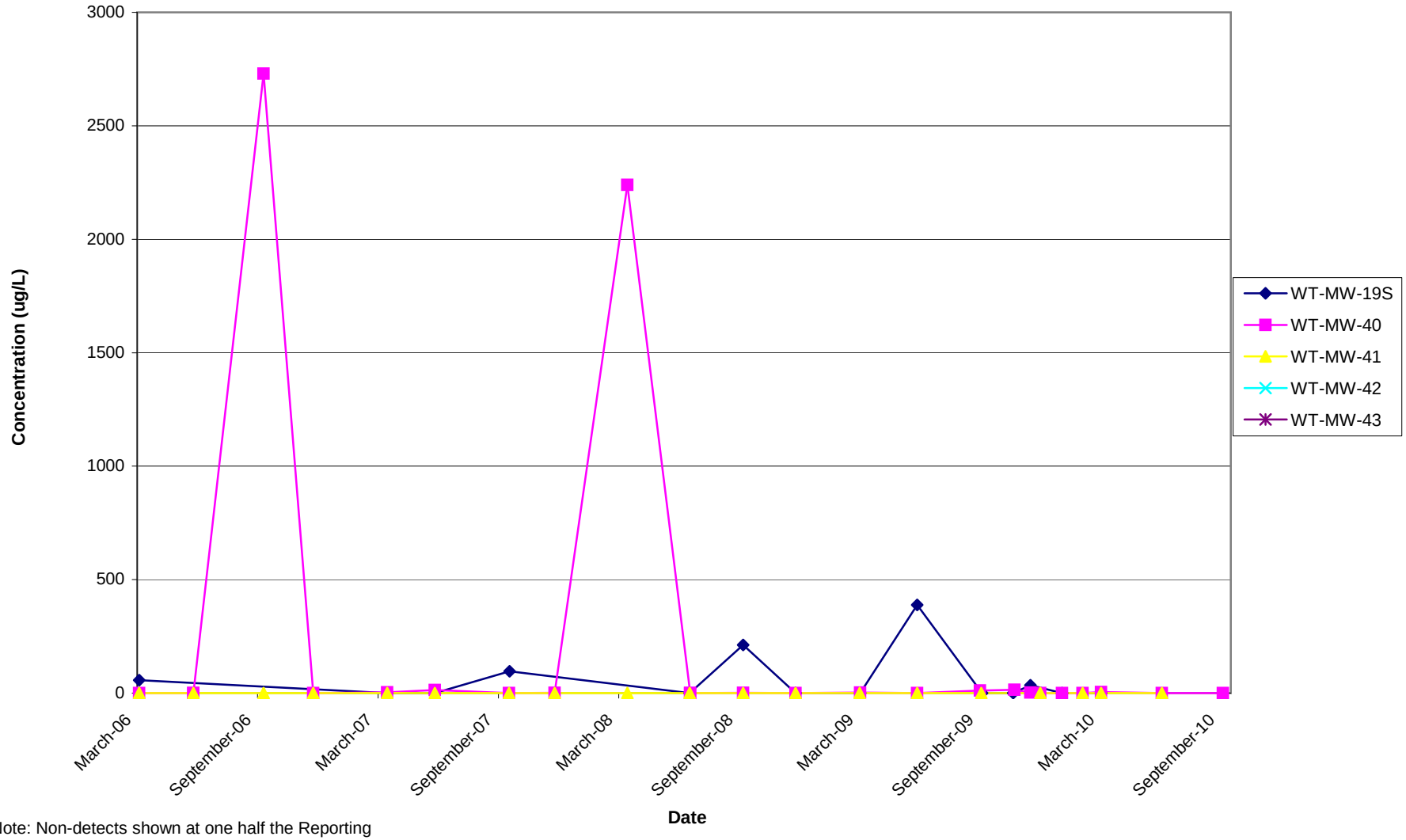
Note: Non-detects shown at one half the Reporting Limit

Tetrachloroethylene (PCE)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report

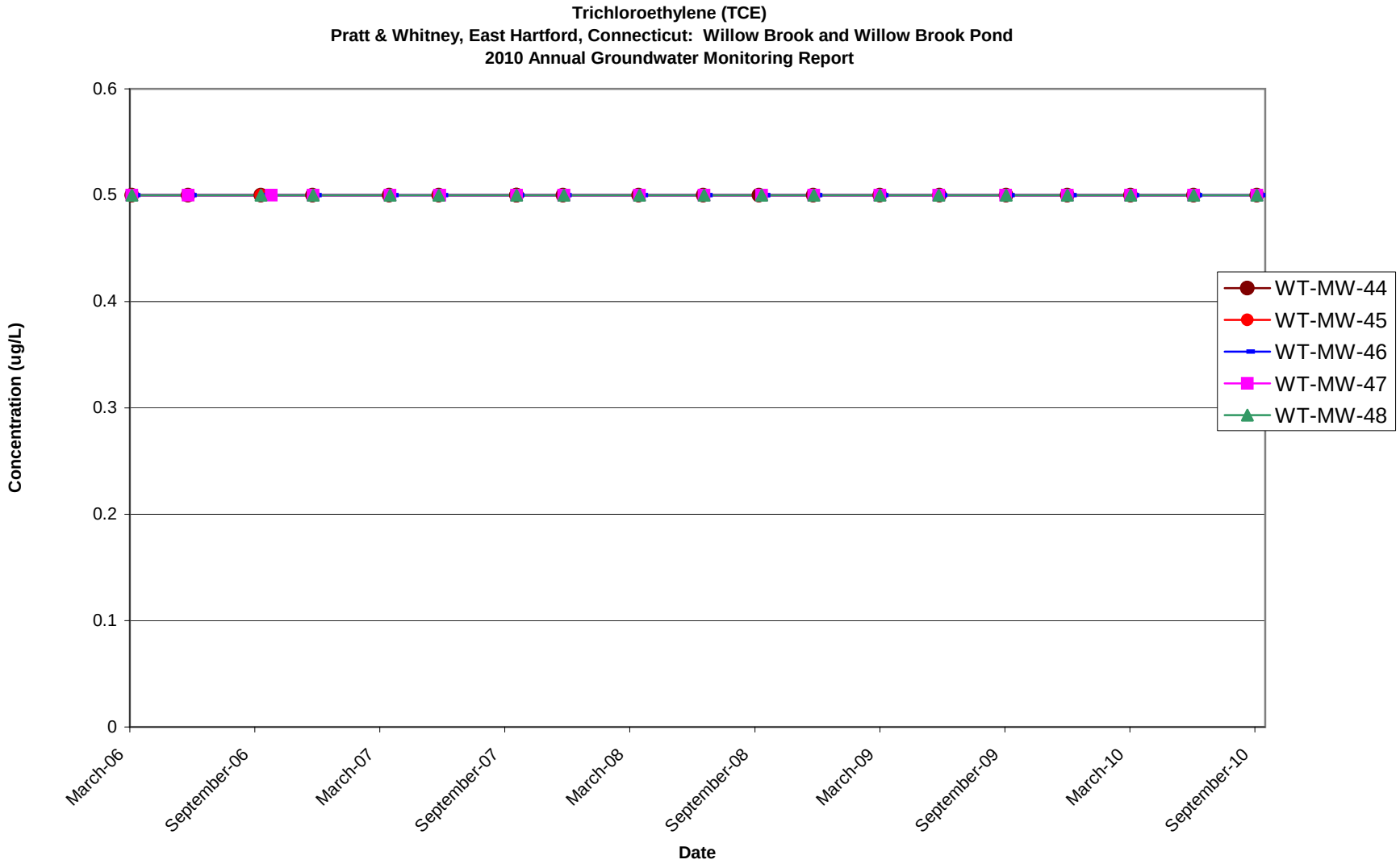


Note: Non-detects shown at one half the Reporting Limit

Trichloroethylene (TCE)
Pratt & Whitney, East Harford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report

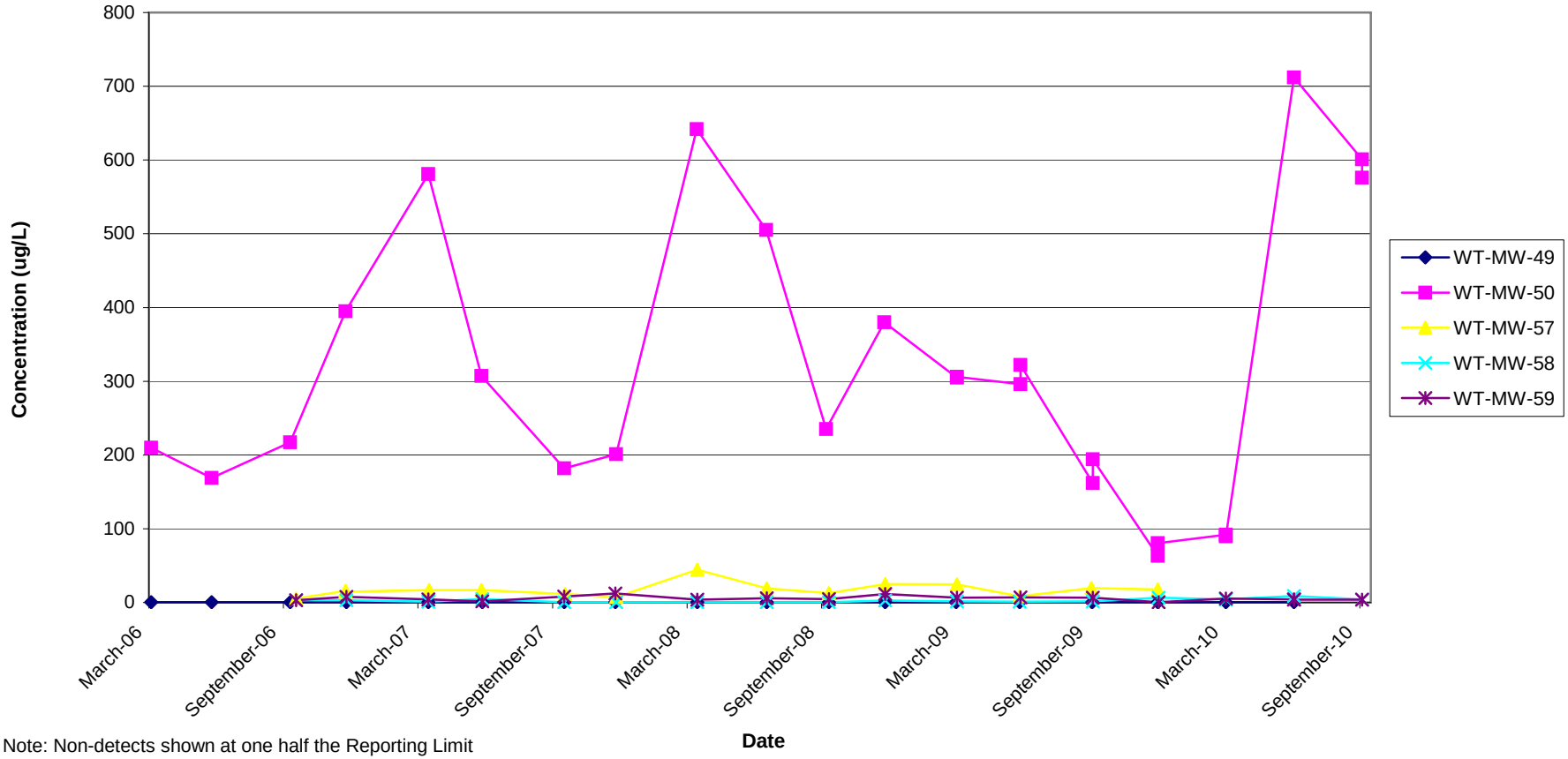


Note: Non-detects shown at one half the Reporting Limit



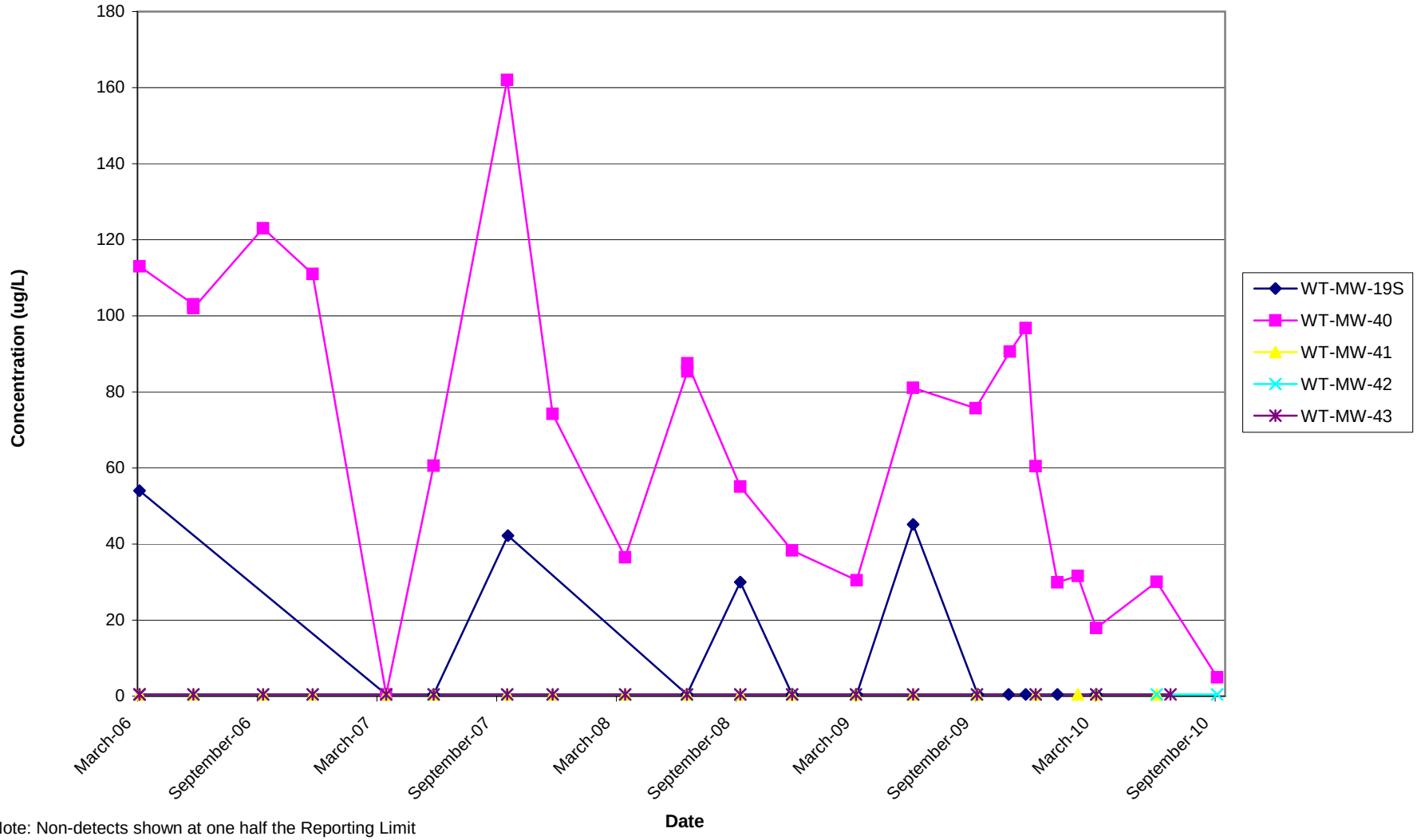
Note: Non-detects shown at one half the Reporting Limit

Trichloroethylene (TCE)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



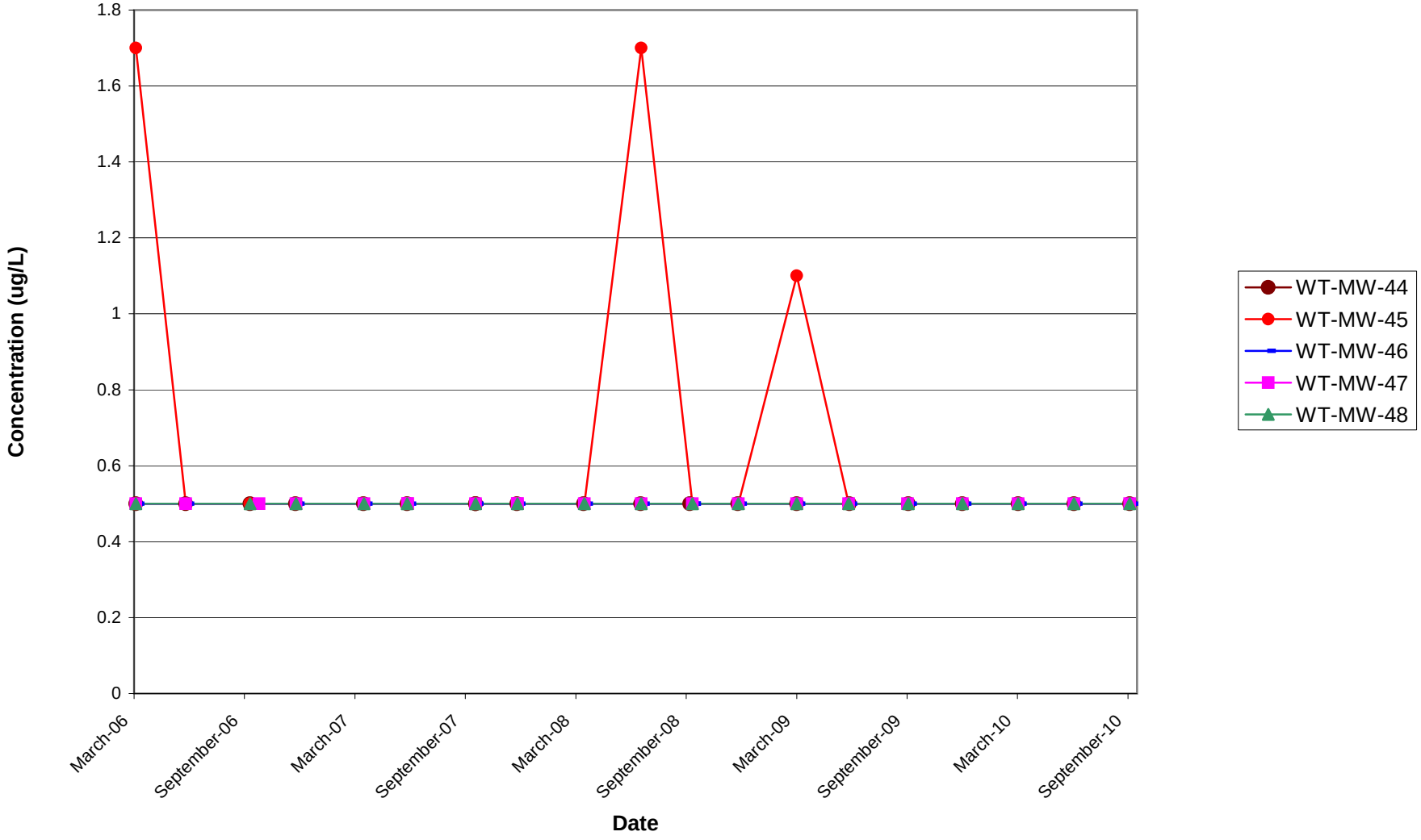
Note: Non-detects shown at one half the Reporting Limit

Vinyl Chloride (VC)
Pratt & Whitney, East Harford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



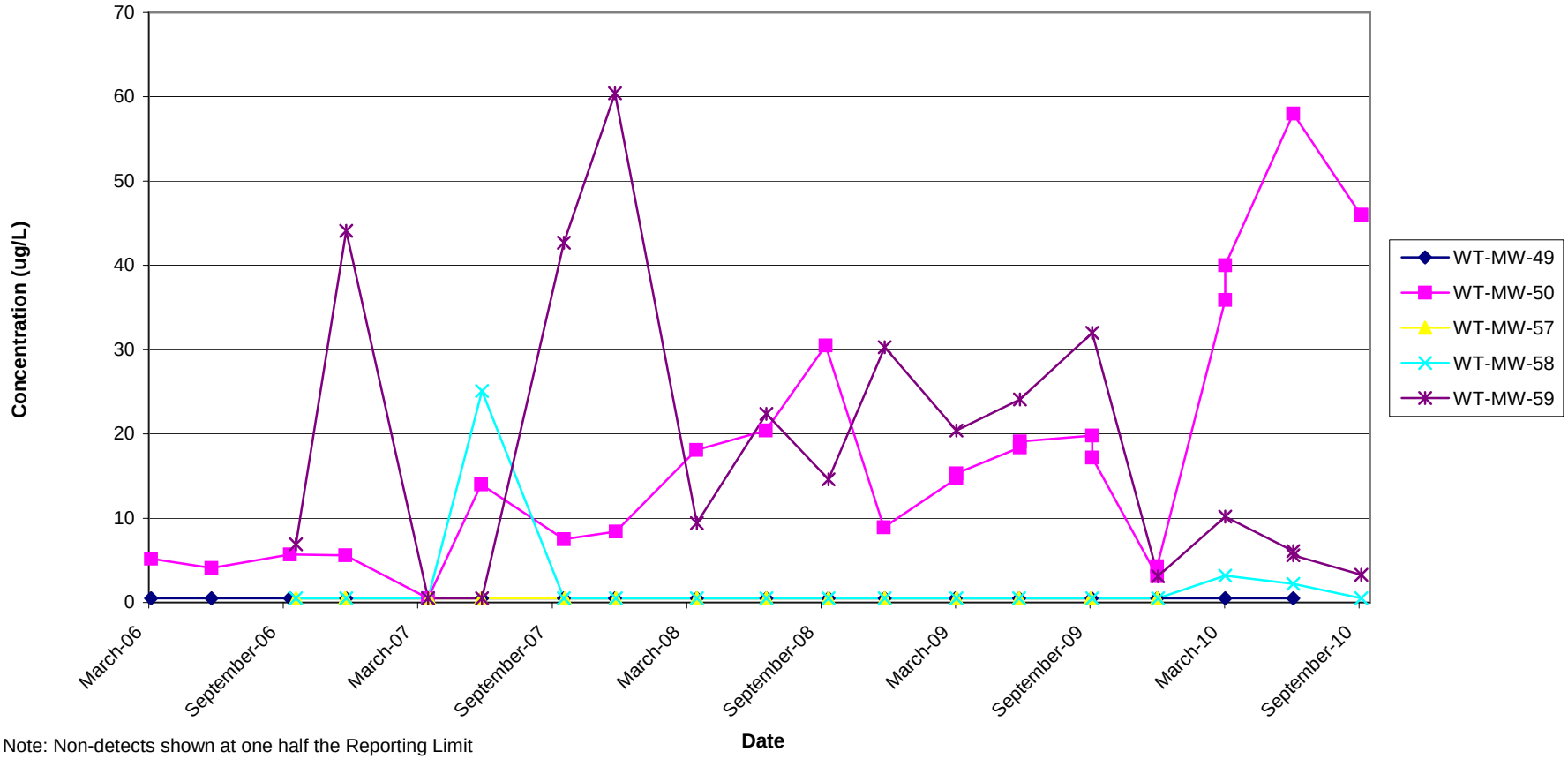
Note: Non-detects shown at one half the Reporting Limit

Vinyl Chloride (VC)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



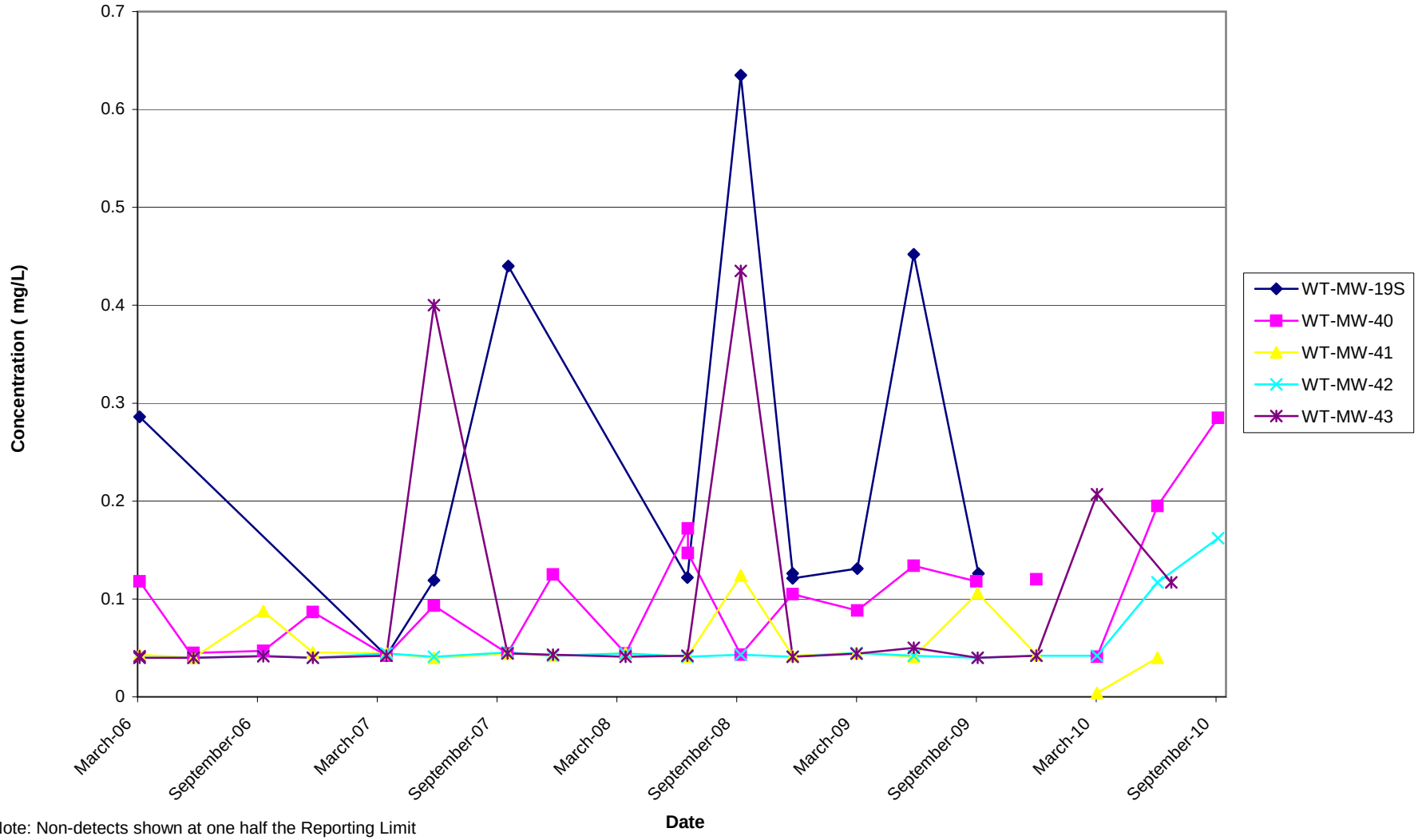
Note: Non-detects shown at one half the Reporting Limit

Vinyl Chloride (VC)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



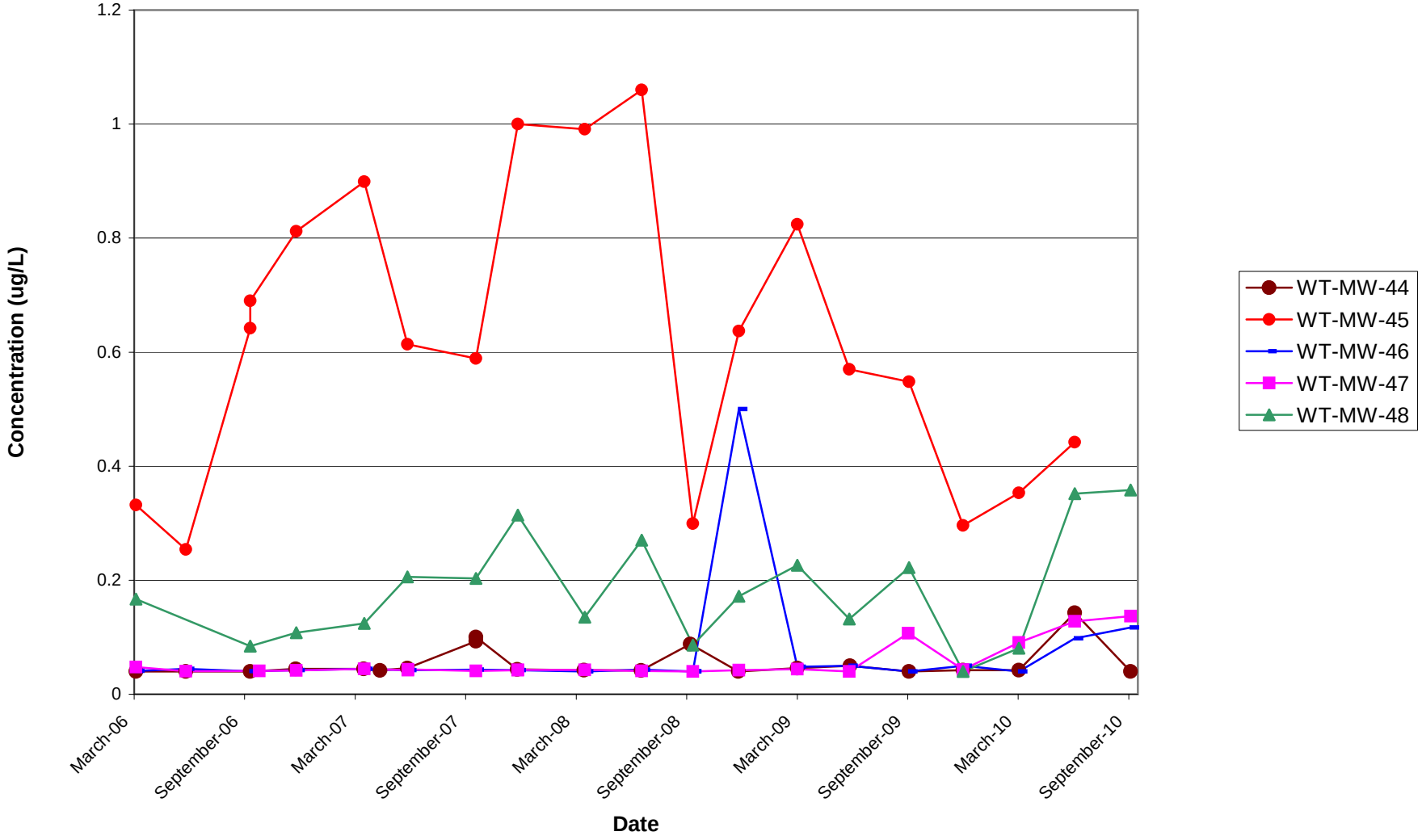
Note: Non-detects shown at one half the Reporting Limit

Total Petroleum Hydrocarbons (ETPH)
Pratt & Whitney, East Harford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



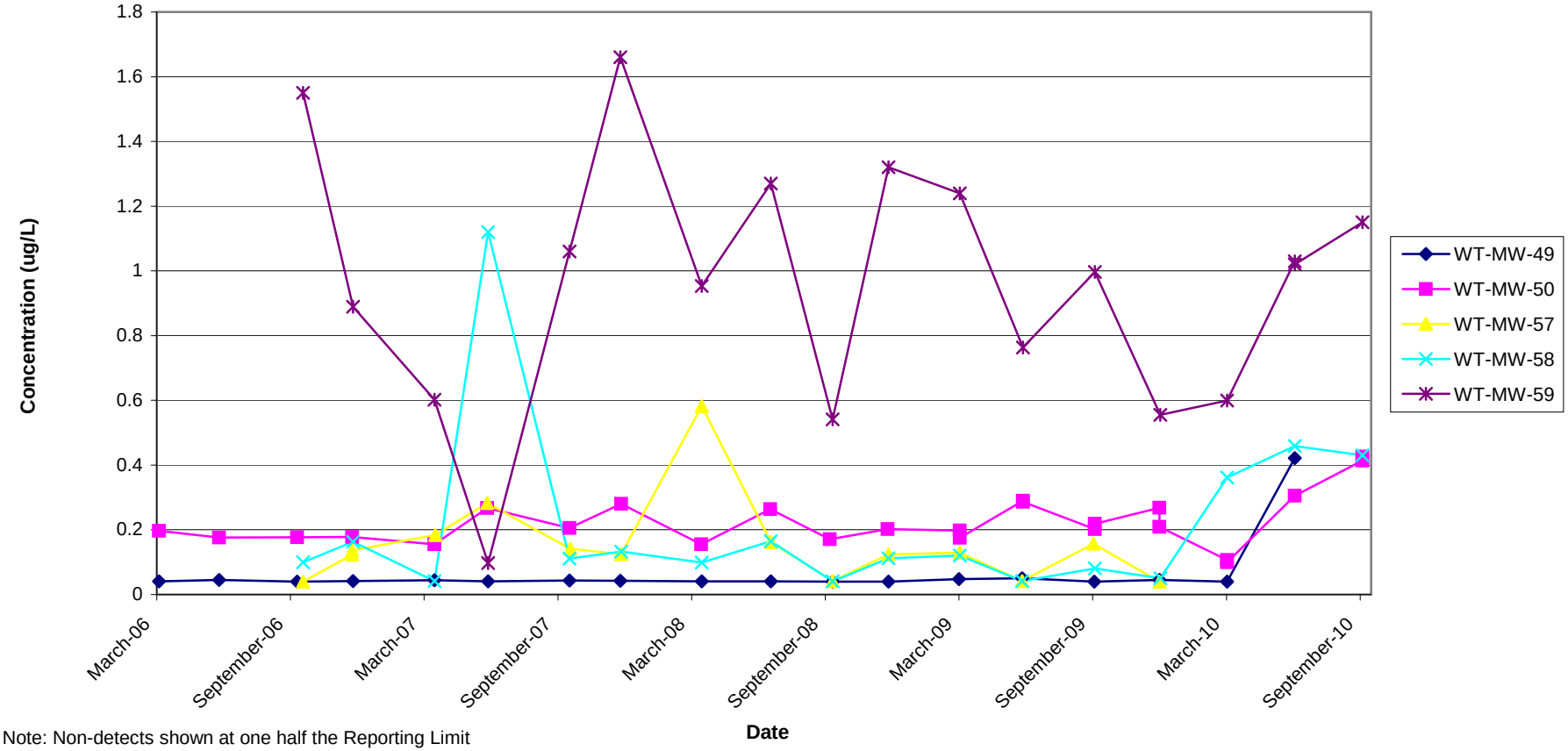
Note: Non-detects shown at one half the Reporting Limit

Total Petroleum Hydrocarbons (ETPH)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



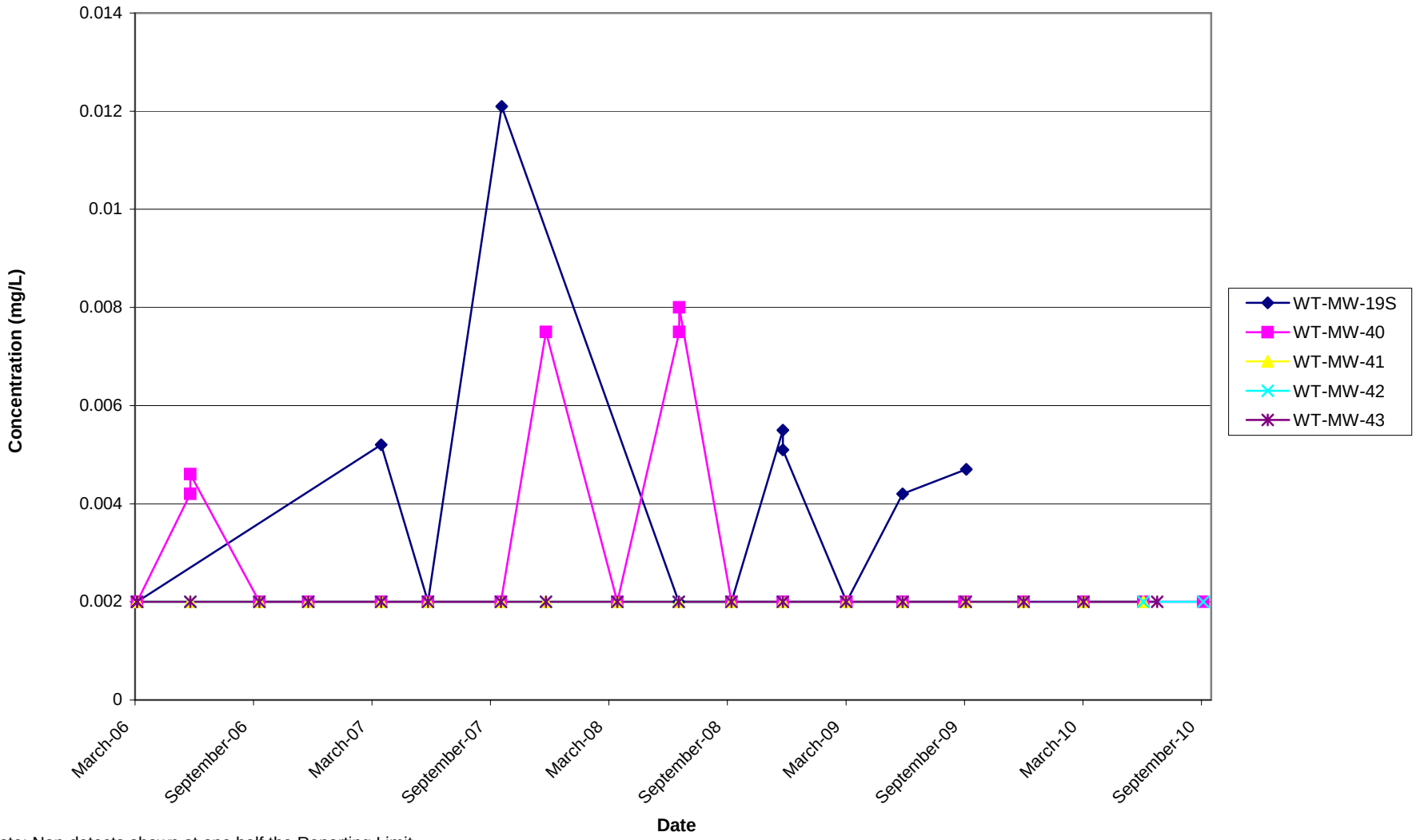
Note: Non-detects shown at one half the Reporting Limit

Total Petroleum Hydrocardons (ETPH)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



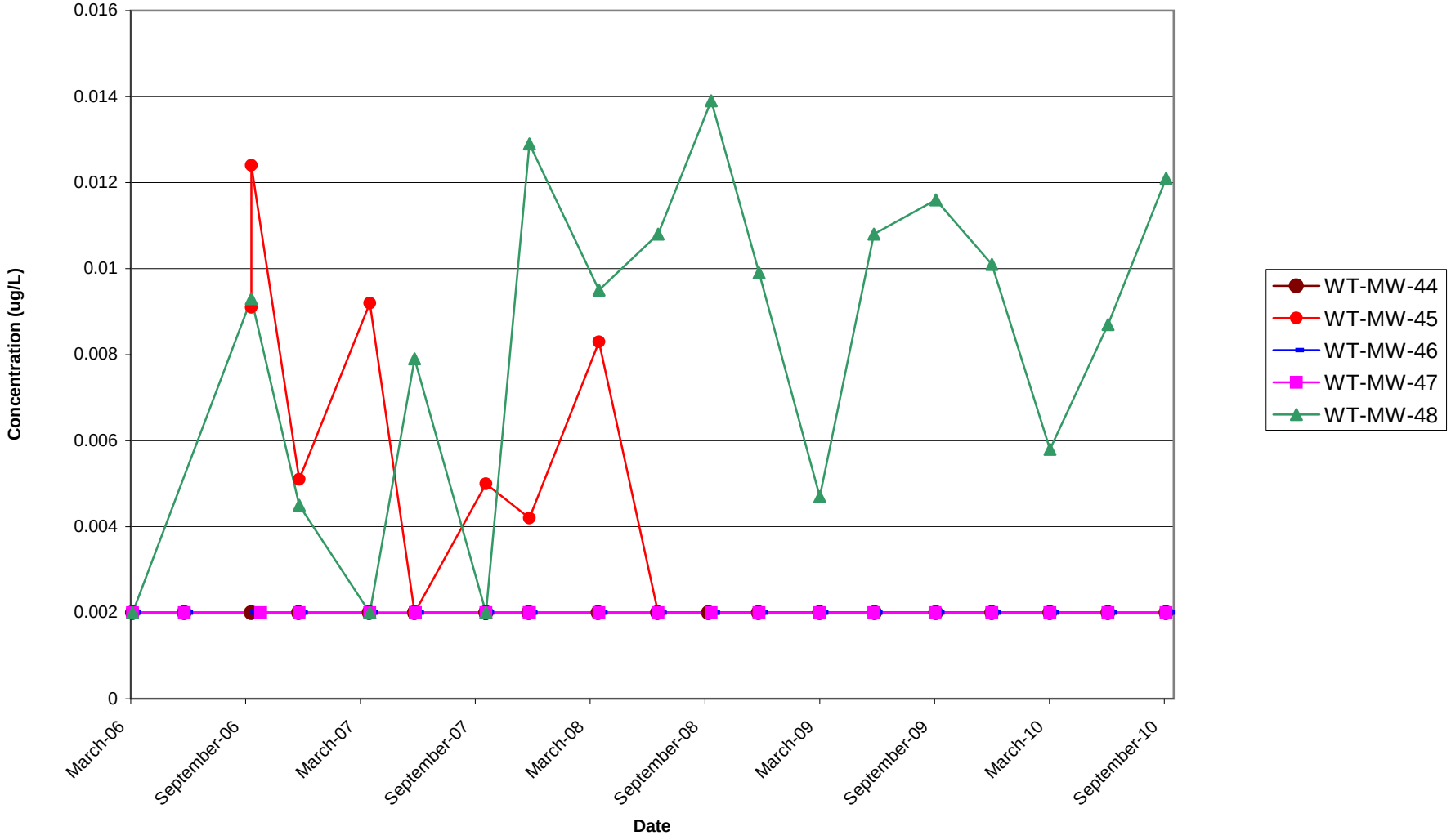
Note: Non-detects shown at one half the Reporting Limit

Arsenic (unfiltered)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



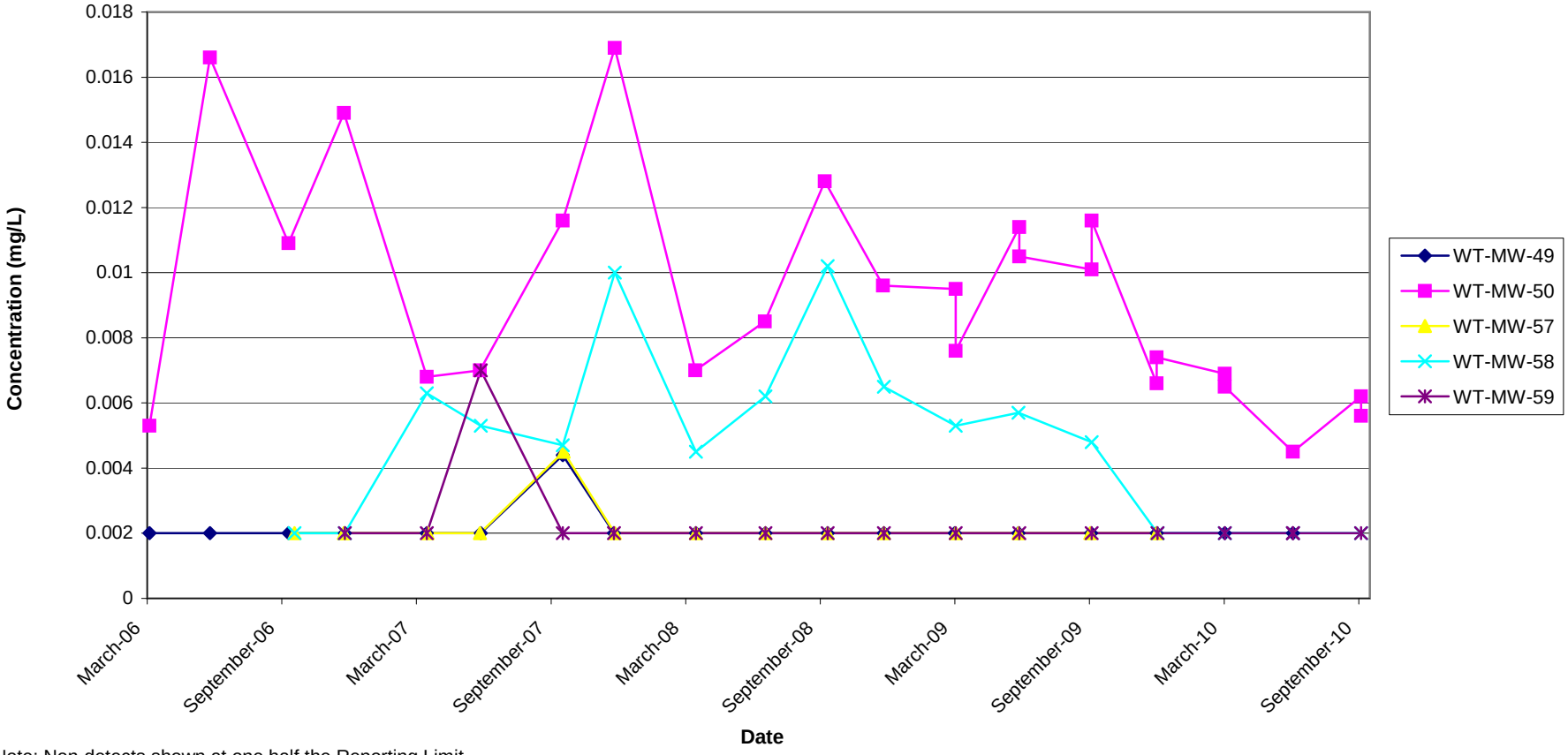
Note: Non-detects shown at one half the Reporting Limit

Arsenic (unfiltered)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



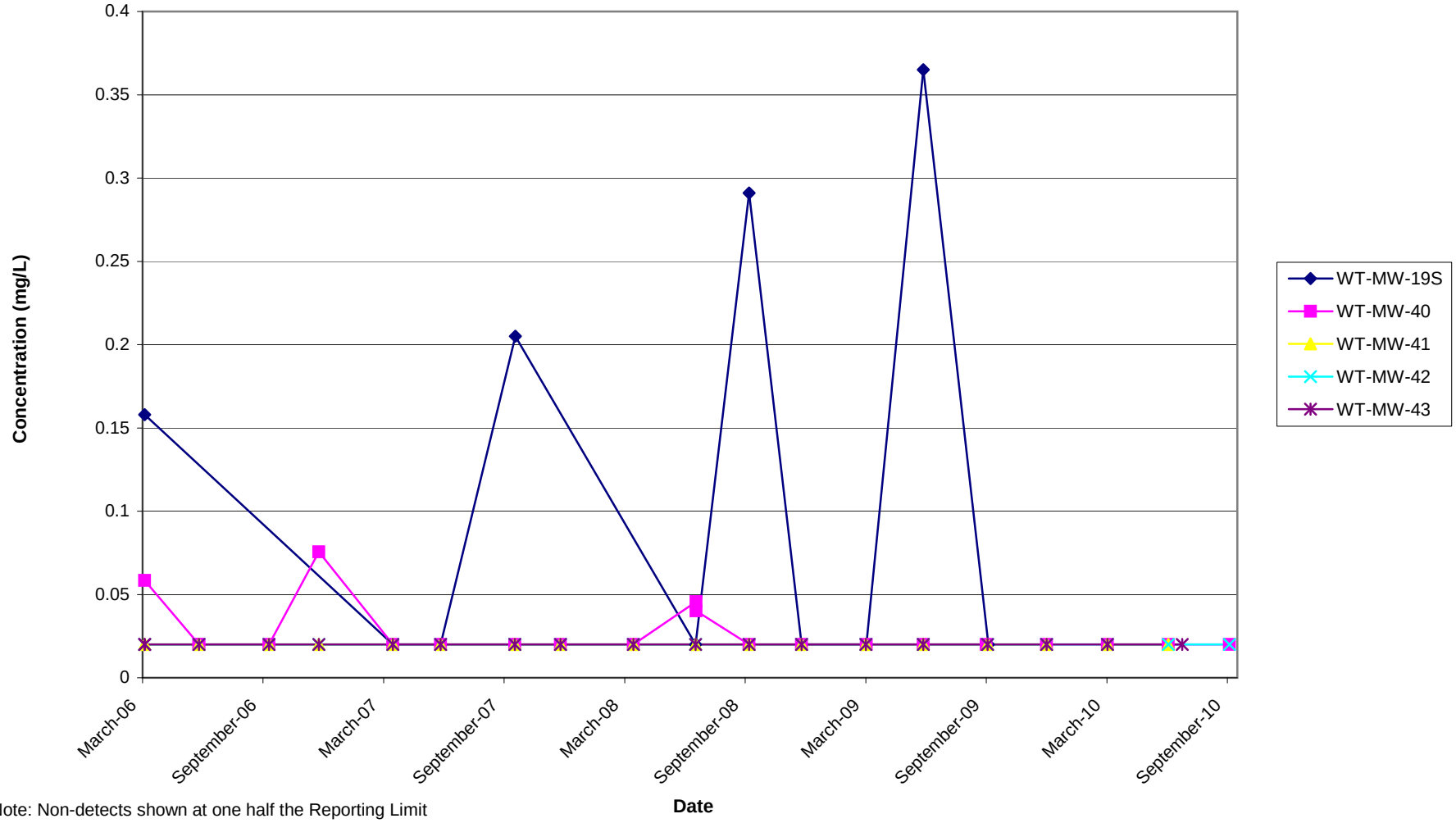
Note: Non-detects shown at one half the Reporting

Arsenic (unfiltered)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report

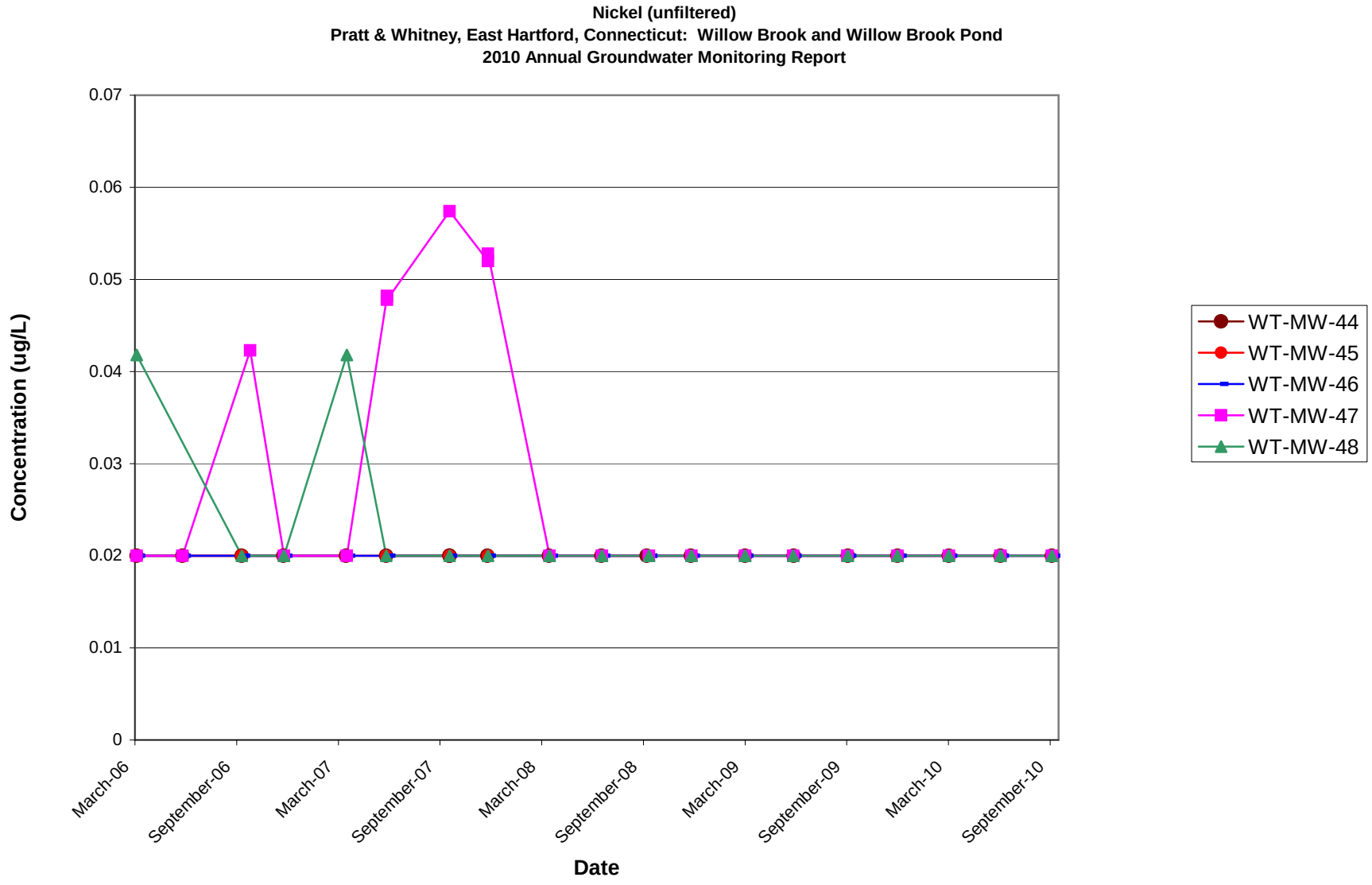


Note: Non-detects shown at one half the Reporting Limit

Nickel (unfiltered)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report

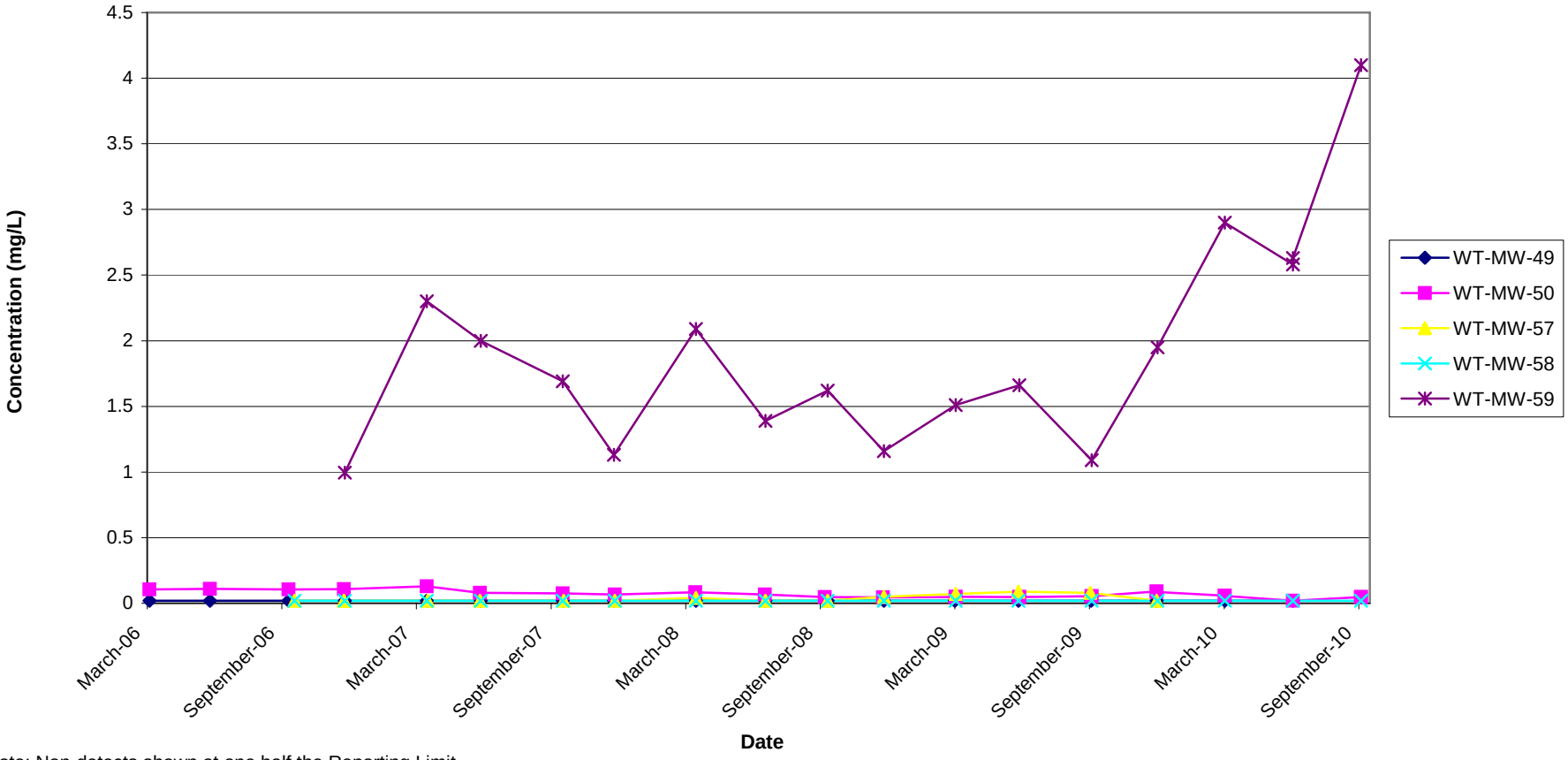


Note: Non-detects shown at one half the Reporting Limit



Note: Non-detects shown at one half the Reporting Limit

Nickel (unfiltered)
Pratt & Whitney, East Hartford, Connecticut: Willow Brook and Willow Brook Pond
2010 Annual Groundwater Monitoring Report



Note: Non-detects shown at one half the Reporting Limit

Appendix E

Post-Remediation Maintenance Monitoring Forms

United Technologies/Pratt & Whitney
Post Remediation Maintenance and Monitoring Program
Willow Brook and Willow Brook Pond

Weather Conditions: rain/snow showers Inspector: A. Clarke & S. Kim
Inspection Date: 3-3-2010 Reviewed By: Robin McKinney
Inspection Time: 1415

INSPECTION POINT	DESCRIPTION	GOOD	FAIR	POOR
1) Signs of erosion	Check for gullies of more than 2 inches in depth.	✓		
2) Signs of settling	Look for ponding and for settling of soil of more than 3 inches over a 5 sq. foot area.	✓		
3) Loss of vegetative cover	Check for loss of vegetation cover in any area greater than 5 square feet.	✓		
4) Undesirable growth	Check for growth that is in excess of ½ inch in diameter (woody vegetation) and taller than 2 feet.		✓	
5) Signs of ponding and run on	Look for areas of more than 5 square feet of standing water or areas where surface water is running onto cap.	✓	✓	
6) Condition of fencing and gates	Check perimeter fence to make sure it is not damaged (no holes greater than 4-inches in diameter), gates are operable, and locks are in place.		✓	
7) Condition of rip-rap in Willow Brook stream channel	Observe entire length of stream channel. Verify that rip-rap has not been displaced.	✓		
8) Condition of stone layer in Willow Brook *	Perform probing of bottom of Willow Brook Ponds at 5 locations in upper pond and 15 locations within lower pond. Verify refusal on stone layer at all locations.	✓		
9) Burrowing animals	Verify no holes larger than 2 inches in diameter in cap.	✓		
10) Monitoring well network	Check concrete collar protective casing, locks, legible well identification.	NA	✓	
	1.Condition of lock	✓		
	2.Visible ID of wells		✓	
	3.Ponding or infiltration of surface water	✓		
	4.Condition of concrete collar	✓		
	5.Condition of steel casing	NA		

Report all deficiencies to the designated representative of Pratt & Whitney
List all deficiencies, the corrective measures taken, and the date corrective measures were completed:

1) replaced caps & locks on wells in need of attention

Corrective Action: * Willow Pond (upper & lower ponds) empty

2) * Beaver Dam under construction on western side of wetlands area.

Corrective Action:

3) found some saplings in the vicinity of WT-MW-46 & 45

Corrective Action:

4)

Corrective Action:

United Technologies/Pratt & Whitney
Post Remediation Maintenance and Monitoring Program
Willow Brook and Willow Brook Pond

Weather Conditions: 60's Dry
Inspection Date: 3/31/10
Inspection Time: 14:00

Inspector: Nate Emmons + Alex Clarke
Reviewed By: Robin McKinney

INSPECTION POINT	DESCRIPTION	GOOD	FAIR	POOR
1) Signs of erosion	Check for gullies of more than 2 inches in depth.		✓	
2) Signs of settling	Look for ponding and for settling of soil of more than 3 inches over a 5 sq. foot area.	✓		
3) Loss of vegetative cover	Check for loss of vegetation cover in any area greater than 5 square feet.	✓		
4) Undesirable growth	Check for growth that is in excess of ½ inch in diameter (woody vegetation) and taller than 2 feet.		✓	
5) Signs of ponding and run on	Look for areas of more than 5 square feet of standing water or areas where surface water is running onto cap.	✓		
6) Condition of fencing and gates	Check perimeter fence to make sure it is not damaged (no holes greater than 4-inches in diameter), gates are operable, and locks are in place.	✓		
7) Condition of rip-rap in Willow Brook stream channel	Observe entire length of stream channel. Verify that rip-rap has not been displaced.	✓		
8) Condition of stone layer in Willow Brook	Perform probing of bottom of Willow Brook Ponds at 5 locations in upper pond and 15 locations within lower pond. Verify refusal on stone layer at all locations.	✓		
9) Burrowing animals	Verify no holes larger than 2 inches in diameter in cap.	✓		
10) Monitoring well network	Check concrete collar protective casing, locks, legible well identification.			
	1.Condition of lock	Bolts		
	2.Visible ID of wells			✓
	3.Ponding or infiltration of surface water		✓	
	4.Condition of concrete collar	✓		
	5.Condition of steel casing	✓		

Report all deficiencies to the designated representative of Pratt & Whitney
List all deficiencies, the corrective measures taken, and the date corrective measures were completed:

1) See attached sheet -

Corrective Action:

2)

Corrective Action:

3)

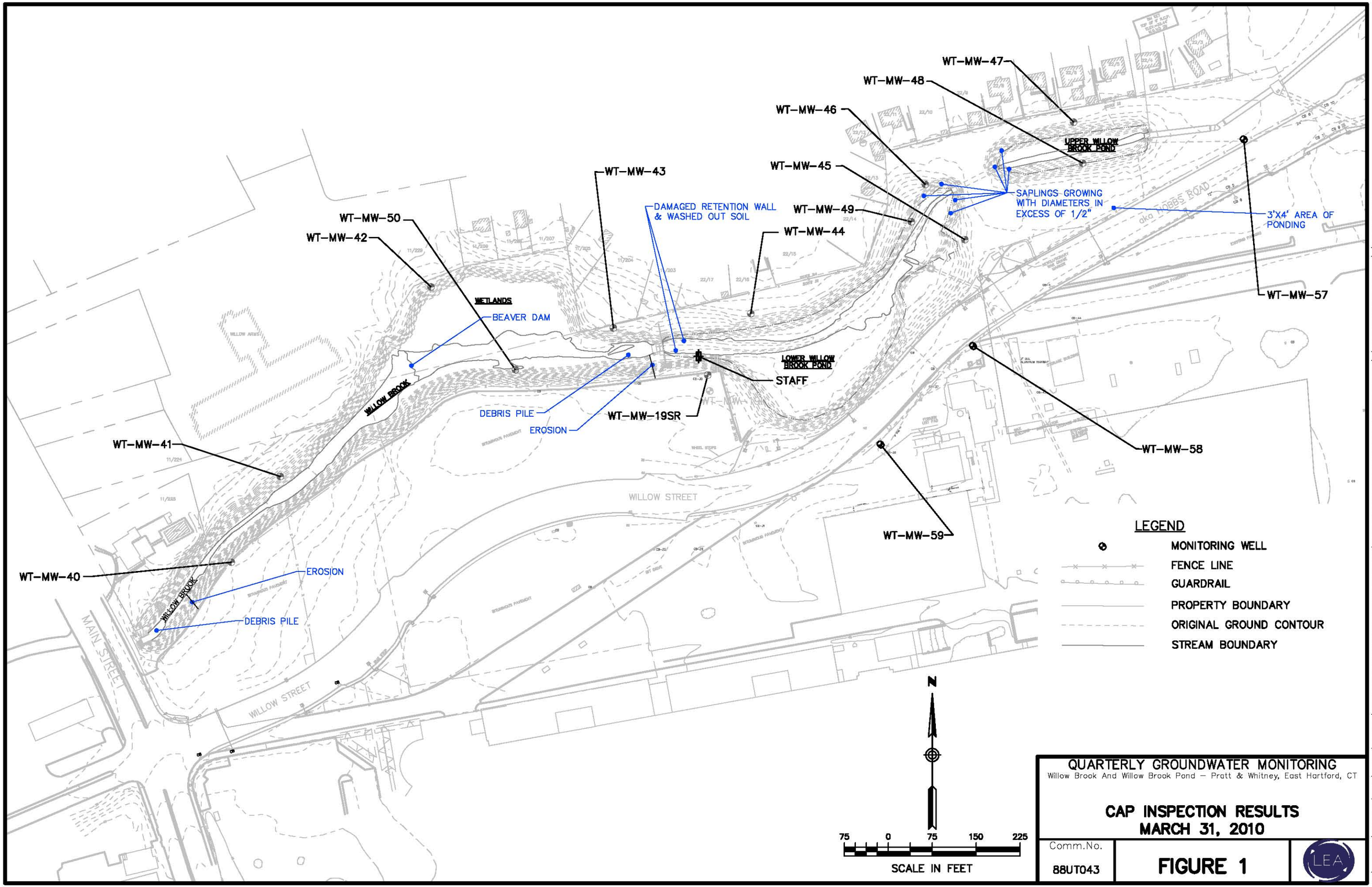
Corrective Action:

4)

Corrective Action:

Willow Brook & Willow Pond Inspection Report
(Inspection conducted March 31, 2010)

An inspection of the Willow Pond engineered cap was completed by Loureiro Engineering Associates, Inc. (LEA) personnel on March 31 2010, following the significant rain events that occurred on March 29 and 30, 2010. In general, the condition of the cap was consistent with the conditions documented during the semi-annual cap inspection that was completed on March 3, 2010. The only new condition that was identified was an erosion channel located midway between monitoring well WT-MW-40 and Main Street. The erosion channel measures approximately two feet wide by one foot deep, and runs down the entire bank toward Willow Brook. It is in close proximity to the previous area of erosion that was repaired by LEA on March 30, 2009. The curbing along this approximately 50 foot length of the Willow parking lot is also either damaged or missing. The attached Cap Inspection Results site plan (Figure 1) identifies the area of erosion, as well as previously documented observations within the engineered cap.



QUARTERLY GROUNDWATER MONITORING

Willow Brook And Willow Brook Pond – Pratt & Whitney, East Hartford, CT

CAP INSPECTION RESULTS
MARCH 31, 2010

Comm.No. 88UT043

FIGURE 1

LEA

G:\AUTOCAD\PROJECTS\PWEH\WILLOW\88UT043\TASK001 GROUNDWATER MONITORING ACTIVITIES\88UT043.001 SITE-WORKSHEET.DWGTab: 2 Saved: 4/6/2010 11:46 AM Plotted: 4/6/2010 12:08 PM

United Technologies/Pratt & Whitney
Post Remediation Maintenance and Monitoring Program
Willow Brook and Willow Brook Pond

Weather Conditions: Cloudy
Inspection Date: 9/9/10
Inspection Time: 1200

Inspector: Keith Volkert
Reviewed By: Robin McKinney

INSPECTION POINT	DESCRIPTION	GOOD	FAIR	POOR
1) Signs of erosion	Check for gullies of more than 2 inches in depth.	X		
2) Signs of settling	Look for ponding and for settling of soil of more than 3 inches over a 5 sq. foot area.	X		
3) Loss of vegetative cover	Check for loss of vegetation cover in any area greater than 5 square feet.	X		
4) Undesirable growth	Check for growth that is in excess of ½ inch in diameter (woody vegetation) and taller than 2 feet.		X	
5) Signs of ponding and run on	Look for areas of more than 5 square feet of standing water or areas where surface water is running onto cap.	X		
6) Condition of fencing and gates	Check perimeter fence to make sure it is not damaged (no holes greater than 4-inches in diameter), gates are operable, and locks are in place.	X		
7) Condition of rip-rap in Willow Brook stream channel	Observe entire length of stream channel. Verify that rip-rap has not been displaced.	X		
8) Condition of stone layer in Willow Brook	Perform probing of bottom of Willow Brook Ponds at 5 locations in upper pond and 15 locations within lower pond. Verify refusal on stone layer at all locations.	X		
9) Burrowing animals	Verify no holes larger than 2 inches in diameter in cap.	X		
10) Monitoring well network	Check concrete collar protective casing, locks, legible well identification.	X		
	1.Condition of lock	X		
	2.Visible ID of wells			X
	3.Ponding or infiltration of surface water	X		
	4.Condition of concrete collar	X		
	5.Condition of steel casing	X		

Report all deficiencies to the designated representative of Pratt & Whitney
List all deficiencies, the corrective measures taken, and the date corrective measures were completed:

1) Willow Brook area needs to be mowed.

Corrective Action:

2)

Corrective Action:

3)

Corrective Action:

4)

Corrective Action:

United Technologies/Pratt & Whitney
Post Remediation Maintenance and Monitoring Program
Willow Brook and Willow Brook Pond

Weather Conditions: 60's Rain
Inspection Date: 10-6-10
Inspection Time: 1400

Inspector: Luke Chmielecki
Reviewed By: Robin McKinney

INSPECTION POINT	DESCRIPTION	GOOD	FAIR	POOR
1) Signs of erosion	Check for gullies of more than 2 inches in depth.		✓ 2,3	
2) Signs of settling	Look for ponding and for settling of soil of more than 3 inches over a 5 sq. foot area.	✓		
3) Loss of vegetative cover	Check for loss of vegetation cover in any area greater than 5 square feet.	✓		
4) Undesirable growth	Check for growth that is in excess of ½ inch in diameter (woody vegetation) and taller than 2 feet.			✓ 1
5) Signs of ponding and run on	Look for areas of more than 5 square feet of standing water or areas where surface water is running onto cap.	✓		
6) Condition of fencing and gates	Check perimeter fence to make sure it is not damaged (no holes greater than 4-inches in diameter), gates are operable, and locks are in place.	✓ 3		
7) Condition of rip-rap in Willow Brook stream channel	Observe entire length of stream channel. Verify that rip-rap has not been displaced.	✓		
8) Condition of stone layer in Willow Brook	Perform probing of bottom of Willow Brook Ponds at 5 locations in upper pond and 15 locations within lower pond. Verify refusal on stone layer at all locations.	✓		
9) Burrowing animals	Verify no holes larger than 2 inches in diameter in cap.	✓		
10) Monitoring well network	Check concrete collar protective casing, locks, legible well identification.			
	1.Condition of lock	Bolts		
	2.Visible ID of wells	✓ 4		
	3.Ponding or infiltration of surface water	✓		
	4.Condition of concrete collar	✓		
	5.Condition of steel casing	✓		

Report all deficiencies to the designated representative of Pratt & Whitney
List all deficiencies, the corrective measures taken, and the date corrective measures were completed:

1) Significant amount of undesirable growth emerging from rip rap. (Entire perimeter except southern portion of Lower Pond.)
~~Corrective Action:~~ Growth in between upper + lower ponds is within boundary of engineered control.

2) Wood retaining wall is rotten, broken in places, and leaning some places toward brook.

Corrective Action:

3) Erosion channel midway between Main St and WT-MW-40. Made a large hole under fencing. Fencing also needs repair between Main St and erosion channel. Various holes. See site plan.
Corrective Action:

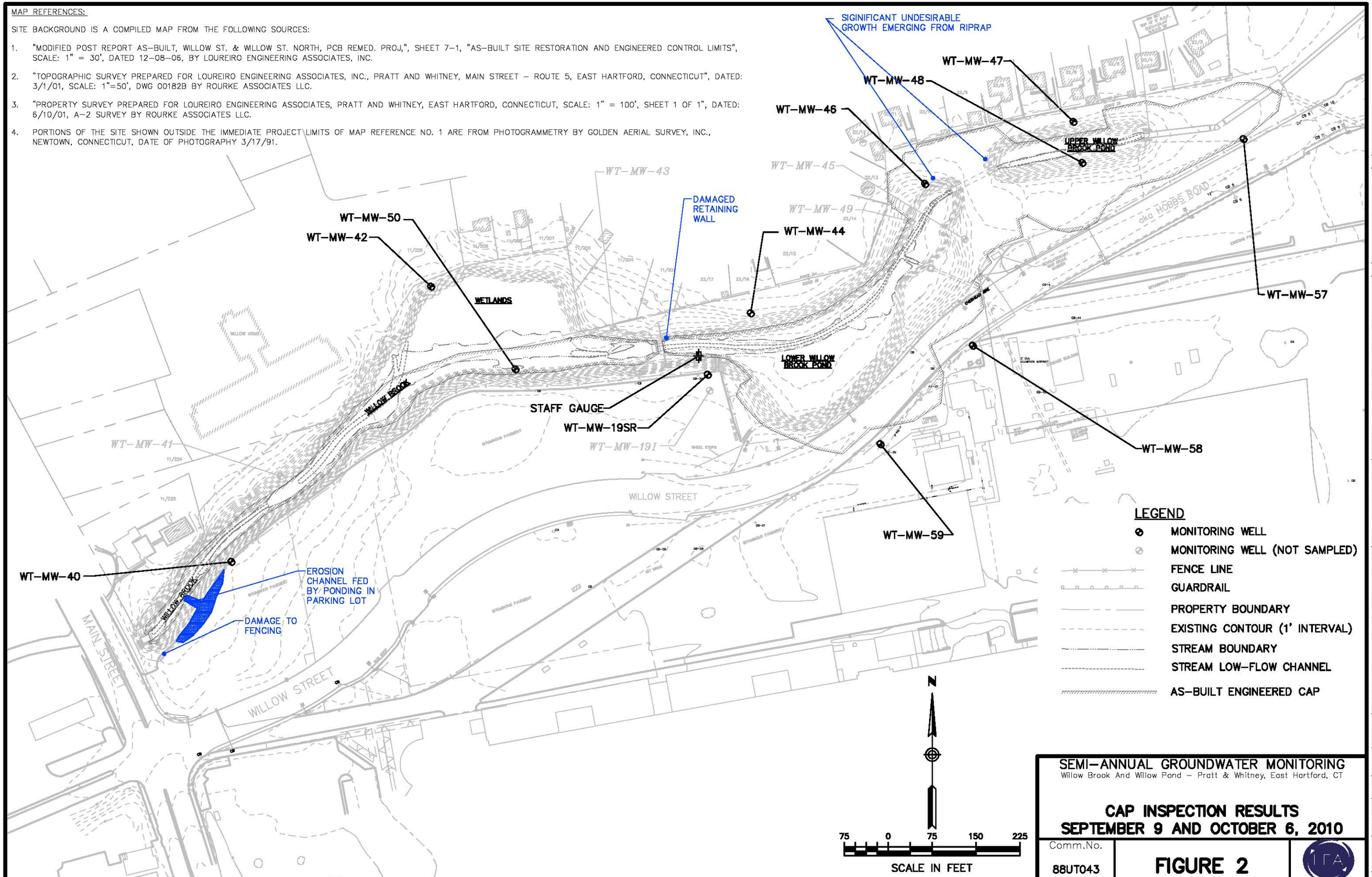
4) Using map.

Corrective Action:

MAP REFERENCES:

SITE BACKGROUND IS A COMPILED MAP FROM THE FOLLOWING SOURCES:

1. "MODIFIED POST REPORT AS-BUILT, WILLOW ST. & WILLOW ST. NORTH, PCB REMED. PROJ,", SHEET 7-1, "AS-BUILT SITE RESTORATION AND ENGINEERED CONTROL LIMITS", SCALE: 1" = 30', DATED 12-08-06, BY LOUREIRO ENGINEERING ASSOCIATES, INC.
2. "TOPOGRAPHIC SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, INC., PRATT AND WHITNEY, MAIN STREET - ROUTE 5, EAST HARTFORD, CONNECTICUT", DATED: 3/1/01, SCALE: 1"=50', DWG 00182B BY ROURKE ASSOCIATES LLC.
3. "PROPERTY SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, PRATT AND WHITNEY, EAST HARTFORD, CONNECTICUT, SCALE: 1" = 100', SHEET 1 OF 1", DATED: 6/10/01, A-2 SURVEY BY ROURKE ASSOCIATES LLC.
4. PORTIONS OF THE SITE SHOWN OUTSIDE THE IMMEDIATE PROJECT LIMITS OF MAP REFERENCE NO. 1 ARE FROM PHOTOGRAMMETRY BY GOLDEN AERIAL SURVEY, INC., NEWTOWN, CONNECTICUT, DATE OF PHOTOGRAPHY 3/17/91.



SEMI-ANNUAL GROUNDWATER MONITORING

Willow Brook And Willow Pond - Pratt & Whitney, East Hartford, CT

CAP INSPECTION RESULTS SEPTEMBER 9 AND OCTOBER 6, 2010

Comm.No. 88UT043

FIGURE 2

G:\AUTOCAD\PROJECTS\PWEH\WILLOW\88UT043\TASK001 GROUNDWATER MONITORING ACTIVITIES\SEMI ANNUAL GW MONIT\88UT043- MW LOCAS-F01.DWGTab: F02 Saved: 10/20/2010 3:15 PM Plotted: 10/20/2010 3:16 PM

Appendix F

LEA Proposed Modifications Groundwater Monitoring Programs and CT DEP Approval Letter

Loureiro Engineering Associates, Inc.

April 16, 2010

State of Connecticut
Department of Environmental Protection
Water Protection & Land Reuse
79 Elm Street
Hartford, CT 06016-5127

Attn: Maurice Hamel

RE: Proposed Modifications to the Willow Brook Pond and Willow Street North Groundwater Monitoring Programs, UTC/Pratt & Whitney, East Hartford, Connecticut Facility
LEA Comm. No. 88UT043

Dear Mr. Hamel:

As you are aware, United Technologies Corporation (UTC), Pratt & Whitney Division (P&W) has been conducting a program of quarterly groundwater monitoring and inspections to demonstrate the effectiveness polychlorinated biphenyl (PCB) remediation of contaminated soil and sediment within and immediately surrounding Willow Brook, Willow Brook Pond, and Willow Street North (herein after referred to as the "Project Areas") at the UTC/Pratt & Whitney manufacturing facility in East Hartford, Connecticut. As of the date of this letter, we can establish that the remediation has been effective and can demonstrate compliance with the Remediation Standard Regulations (RSRs) for PCBs. Other constituents present in groundwater from upgradient sources continue to be detected at concentrations historically observed for the Project Areas. Based on several years of data showing that conditions are at steady state, we are respectfully requesting, on behalf of UTC/P&W, approval for modifications to the groundwater monitoring program including decreases in both the sampling frequency and the number of locations sampled. Data supporting the proposed modifications is summarized herein.

Remediation Projects

The remediation of soil and sediment within and surrounding Willow Brook and Willow Brook Pond was undertaken to satisfy the requirements of Consent Order SRD-130 and was completed on August 31, 2002 (Willow Brook Pond Project). As you are aware, Consent Order SRD-130 remains in effect. Consistent with our meeting in April 2008 and our subsequent letter of May 1, 2008, it seems appropriate that the remediation activities be formally recognized by the DEP as being completed and the order be retired. The remediation of soil in areas between and below Willow Street and Willow Brook Pond (the Willow Street North Project) was undertaken by UTC/Pratt & Whitney on a voluntary basis in accordance with the document entitled *Remedial Action Work Plan and Request for Variance, Engineered Control of Polluted Soils, Willow Street*

and Willow Street North PCB Remediation Project (RAWP/RFV), approved by the Connecticut Department of Environmental Protection (DEP) on February 10, 2006. The Willow Street North Project was completed on August 11, 2006.

Groundwater Monitoring

Eleven groundwater monitoring wells (WT-MW-40 through WT-MW-50) were installed around the periphery of Willow Brook and Willow Brook Pond in June 2002. Three additional monitoring wells (WT-MW-57 through WT-MW-59) were installed in September 2006 following completion of the Willow Street North Project. One new monitoring well (WT-MW-19SR) was installed in April 2008 to replace monitoring well WT-MW-19S which had been installed prior to both remediation projects. The locations of these monitoring wells are depicted on the attached Site Plan.

Groundwater monitoring began after the completion of the Willow Brook Pond Project in 2002, was expanded following the Willow Street North Project in 2006, and continues to be conducted on a quarterly basis using a network of fifteen groundwater monitoring wells. The groundwater monitoring plans are detailed in Appendix D of the RAWP/RFV for the Willow Brook Pond Project and Appendix C of the RAWP/RFV for Willow Street North Project.

Groundwater samples from all fifteen monitoring wells are analyzed on a quarterly basis for PCBs by EPA Method 8082; volatile organic compounds (VOCs) by EPA Method 8260B; Connecticut Extractable Total Petroleum Hydrocarbons (ETPH) by the DEP approved method; and total metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc). Reports documenting the groundwater monitoring are submitted to DEP on an annual basis.

PCBs have only been detected on a few occasions over the seven years of post remediation monitoring and have not been detected in any of the groundwater samples analyzed over the past three years of quarterly post-remediation monitoring. Chlorinated VOCs, ETPH and total metals from sources located upgradient of the Project Areas continue to be detected in groundwater samples on a regular basis. A groundwater analytical data summary table listing each constituent detected, the maximum concentration detected, and date of the most recent detection is attached.

Groundwater Monitoring Program Reduction

Modifications to the groundwater monitoring program are being proposed as groundwater analytical results support the conclusion that remediation activities performed to date have been effective in eliminating PCBs as a potential groundwater contaminant source and that the concentrations of VOCs, ETPH and total metals at locations upgradient of the Project Areas have remained stable over time with no increasing trends. Based on these findings, we request authorization to reduce the monitoring frequency from quarterly to semi-annually. We also request that sampling of monitoring wells WT-MW41, WT-MW43, WT-MW45 and WT-MW49 be discontinued. The remaining eleven monitoring wells that will continue to be sampled under the revised groundwater monitoring plan are considered adequate to confirm that the engineered controls continue to function as intended.

The first groundwater monitoring event for 2010 was completed on March 3, 2010. As such, we are proposing to conduct the next monitoring event in September 2010 in accordance with the revised groundwater monitoring frequency. Further modifications to the groundwater monitoring program will be evaluated after two semi-annual events have been completed and at appropriate times in the future.

We respectfully request a response to our request for modifications to the groundwater monitoring program before May 31, 2010. We would also appreciate an update regarding the status of actions being taken to retire SRD-130. Should have any questions or comments regarding this submission or any other aspect of the project, please contact me at 860-410-2968 or Lauren Levine at 860-728-6520.

Sincerely,

LOUREIRO ENGINEERING ASSOCIATES, INC.

Brian A. Cutler, P.E., L.E.P.
Senior Vice President

Attachments

cc: Lauren Levine, UTC

FIGURES

EXISTING AND PROPOSED MONITORING WELL NETWORK

MAP REFERENCES:

SITE BACKGROUND IS A COMPILED MAP FROM THE FOLLOWING SOURCES:

1. "MODIFIED POST REPORT AS-BUILT, WILLOW ST. & WILLOW ST. NORTH, PCB REMED. PROJ.", SHEET 7-1, "AS-BUILT SITE RESTORATION AND ENGINEERED CONTROL LIMITS", SCALE: 1" = 30', DATED 12-08-06, BY LOUREIRO ENGINEERING ASSOCIATES, INC.
2. "TOPOGRAPHIC SURVEY PREPARED FOR LOUREIRO ENGINEERING ASSOCIATES, INC., PRATT AND WHITNEY, MAIN STREET – ROUTE 5, EAST HARTFORD, CONNECTICUT", DATED: 3/1/01, SCALE: 1"=50', DWG 00182B BY ROURKE ASSOCIATES LLC.
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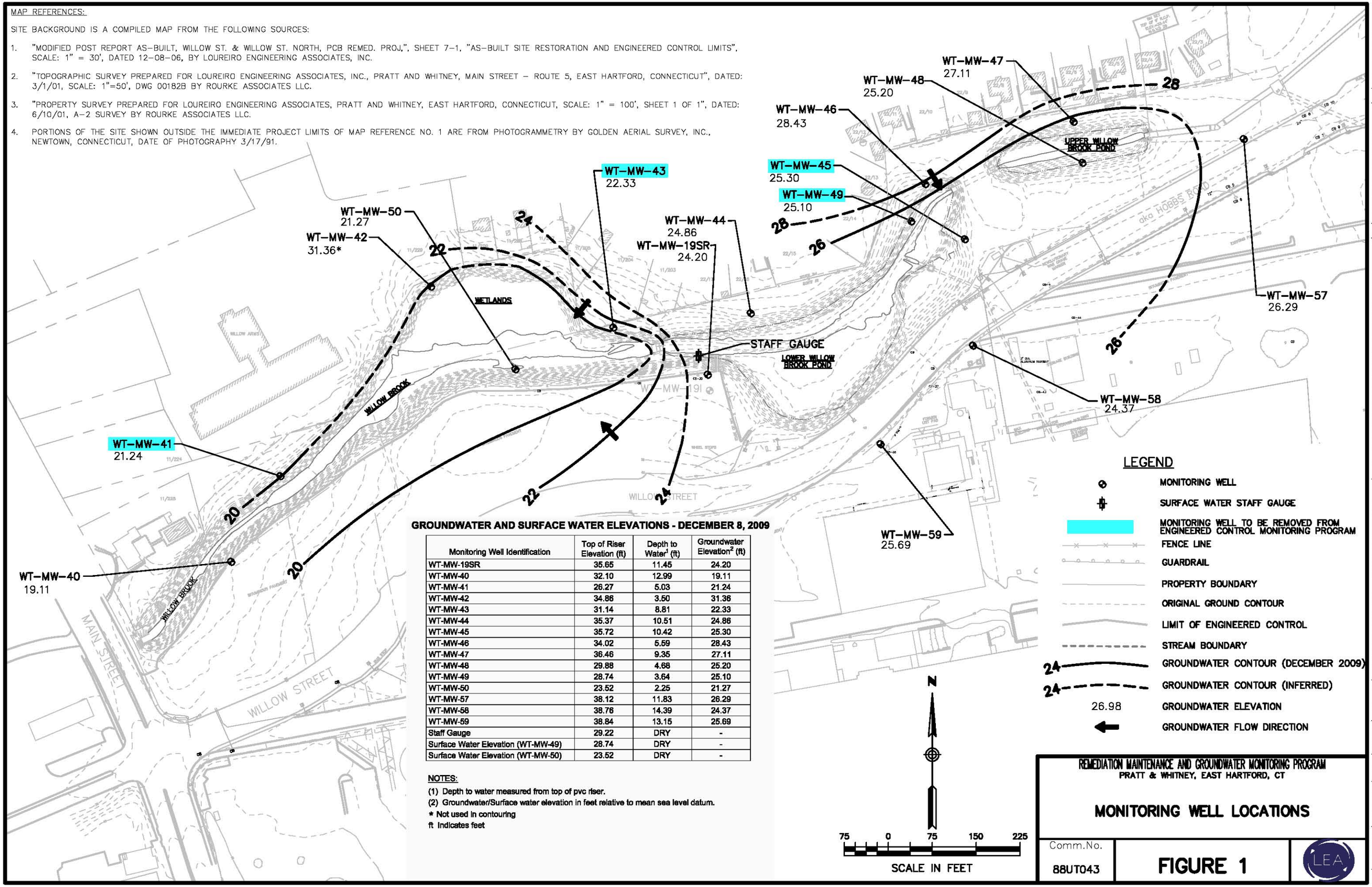
4. PORTIONS OF THE SITE SHOWN OUTSIDE THE IMMEDIATE PROJECT LIMITS OF MAP REFERENCE NO. 1 ARE FROM PHOTOGRAMMETRY BY GOLDEN AERIAL SURVEY, INC., NEWTOWN, CONNECTICUT, DATE OF PHOTOGRAPHY 3/17/91.



GROUNDWATER AND SURFACE WATER ELEVATIONS - DECEMBER 8, 2009

Monitoring Well Identification	Top of Riser Elevation (ft)	Depth to Water[1] (ft)	Groundwater Elevation[2] (ft)
WT-MW-19SR	35.65	11.45	24.20
WT-MW-40	32.10	12.99	19.11
WT-MW-41	26.27	5.03	21.24
WT-MW-42	34.86	3.50	31.36
WT-MW-43	31.14	8.81	22.33
WT-MW-44	35.37	10.51	24.86
WT-MW-45	35.72	10.42	25.30
WT-MW-46	34.02	5.59	28.43
WT-MW-47	36.46	9.35	27.11
WT-MW-48	29.88	4.68	25.20
WT-MW-49	28.74	3.64	25.10
WT-MW-50	23.52	2.25	21.27
WT-MW-57	38.12	11.83	26.29
WT-MW-58	38.76	14.39	24.37
WT-MW-59	38.84	13.15	25.69
Staff Gauge	29.22	DRY	-
Surface Water Elevation (WT-MW-49)	28.74	DRY	-
Surface Water Elevation (WT-MW-50)	23.52	DRY	-

NOTES:

(1) Depth to water measured from top of pvc riser.
(2) Groundwater/Surface water elevation in feet relative to mean sea level datum.
* Not used in contouring
ft Indicates feet

REMEDIATION MAINTENANCE AND GROUNDWATER MONITORING PROGRAM
PRATT & WHITNEY, EAST HARTFORD, CT

MONITORING WELL LOCATIONS

Comm.No. 88UT043

FIGURE 1

LEA

G:\AUTOCAD\PROJECTS\PWEH\WILLOW\88UT043\TASK001 GROUNDWATER MONITORING ACTIVITIES\88UT043.001 MW LOCTNS.DWG Tab: 1 Last Saved : 4/12/2010 4:40 PM Plotted: 4/12/2010 4:41 PM

TABLE

SUMMARY OF CONSTITUENTS DETECTED
(DECEMBER 2002 THROUGH DECEMBER 2009)

Constituents Detected in Groundwater
Willow Brook Pond and Willow Street North Project Areas
UTC/Pratt and Whitney, East Hartford, Connecticut

Constituent	No. of Samples Analyzed[1]	No. of Detects	Maximum Concentration Detected				Date of Most Recent Detection
			Conc.	Units	Well I.D.	Date	
CT ETPH	403	172	1.66	ug/l	WT-MW-59	12/5/2007	12/9/2009
VOCs							
Acetone	411	18	32.1	ug/l	WT-MW-50	6/4/2005	6/7/2007
Methyl tert-Butyl ether	411	9	4.5	ug/l	WT-MW-48	9/28/2007	12/5/2007
Xylenes,m- & p-	411	2	2	ug/l	WT-MW-50	6/7/2007	6/7/2007
Toluene	411	8	13.5	ug/l	WT-MW-50	9/15/2008	1/20/2010
Methylene Chloride	411	9	23.5	ug/l	WT-MW-59	12/6/2006	9/11/2009
1,1,2-Trichlorotrifluoroethane	411	1	5.8	ug/l	WT-MW-59	9/11/2009	9/11/2009
1,1,1-Trichloroethane	411	36	477	ug/l	WT-MW-40	9/21/2006	12/8/2009
1,1-Dichloroethane	411	82	126	ug/l	WT-MW-40	9/21/2006	2/18/2010
1,1-Dichloroethylene	411	70	1100	ug/l	WT-MW-40	9/21/2006	2/18/2010
Benzene	411	21	6.2	ug/l	WT-MW-19SR	6/5/2009	12/8/2009
Chloroform	411	39	42.7	ug/l	WT-MW-19SR	6/5/2009	12/8/2009
Tetrachloroethylene	411	79	384	ug/l	WT-MW-40	3/24/2008	12/9/2009
Trichloroethylene	411	92	2730	ug/l	WT-MW-40	9/21/2006	11/23/2009
Vinyl Chloride	411	94	162	ug/l	WT-MW-40	9/27/2007	2/18/2010
cis-1,2-Dichloroethylene	411	143	804	ug/l	WT-MW-40	9/21/2006	2/18/2010
Methyl Ethyl ketone	411	1	15.2	ug/l	WT-MW-45	6/8/2004	6/8/2004
1,2-Dichloroethane	411	32	17.3	ug/l	WT-MW-40	9/21/2006	12/22/2009
Chloroethane	411	5	15.1	ug/l	WT-MW-40	9/21/2006	12/8/2009
Chloromethane	411	2	6.5	ug/l	WT-MW-42	6/5/2009	6/5/2009
trans-1,2-Dichloroethylene	411	44	14.6	ug/l	WT-MW-40	9/21/2006	2/18/2010
1,1,2-Trichloroethane	411	3	11.3	ug/l	WT-MW-40	9/21/2006	3/24/2008
Tetrahydrofuran	411	10	72.1	ug/l	WT-MW-50	12/6/2007	12/8/2009
Metals							
Arsenic (unfiltered)	396	125	0.0246	mg/l	WT-MW-50	6/30/2003	12/8/2009
Arsenic	6	6	0.0112	mg/l	WT-MW-48	9/19/2005	6/4/2009
Barium (unfiltered)	396	99	0.604	mg/l	WT-MW-50	12/23/2002	12/8/2009
Chromium, Total (unfiltered)	397	34	0.203	mg/l	WT-MW-59	9/27/2007	3/10/2009
Chromium, Total	6	3	0.0212	mg/l	WT-MW-59	9/27/2007	3/10/2009
Nickel (unfiltered)	396	82	2.3	mg/l	WT-MW-59	3/27/2007	12/9/2009
Nickel	6	3	1.46	mg/l	WT-MW-59	9/29/2006	9/29/2006
Selenium (unfiltered)	396	7	0.0145	mg/l	WT-MW-48	12/3/2003	12/17/2004
Selenium	6	1	0.0111	mg/l	WT-MW-48	3/22/2005	3/22/2005
Cadmium (unfiltered)	396	13	0.486	mg/l	WT-MW-59	3/27/2007	12/9/2009
Cadmium	6	1	0.0408	mg/l	WT-MW-59	9/29/2006	9/29/2006
Silver (unfiltered)	396	1	0.009	mg/l	WT-MW-59	3/27/2007	3/27/2007
Zinc (unfiltered)	396	44	0.198	mg/l	WT-MW-40	3/24/2008	3/11/2009
Zinc	6	2	0.021	mg/l	WT-MW-59	9/29/2006	9/29/2006
Lead (unfiltered)	396	8	0.0188	mg/l	WT-MW-48	9/28/2007	9/28/2007
Copper (unfiltered)	396	12	0.141	mg/l	WT-MW-59	9/27/2007	12/9/2009
Copper	6	1	0.0311	mg/l	WT-MW-59	9/29/2006	9/29/2006
Iron (unfiltered)	1	1	10.1	mg/l	WT-MW-50	2/26/2008	2/26/2008
Iron, Ferrous (unfiltered)	1	1	3.3	mg/l	WT-MW-50	2/26/2008	2/26/2008
Manganese (unfiltered)	1	1	6.84	mg/l	WT-MW-50	2/26/2008	2/26/2008
Manganese	1	1	6.54	mg/l	WT-MW-50	2/26/2008	2/26/2008
Nitrate Plus Nitrite (As N) (unfiltered)	1	1	7.8	mg/l	WT-MW-50	2/26/2008	2/26/2008
Nitrite Nitrogen (unfiltered)	1	1	0.052	mg/l	WT-MW-50	2/26/2008	2/26/2008
Nitrogen, Nitrate (unfiltered)	1	1	7.7	mg/l	WT-MW-50	2/26/2008	2/26/2008
Sulfate (unfiltered)	1	1	82.8	mg/l	WT-MW-50	2/26/2008	2/26/2008
Total Organic Carbon	1	1	23.3	mg/l	WT-MW-50	2/26/2008	2/26/2008
Dissolved Organic Carbon (dissolved)	1	1	21.6	mg/l	WT-MW-50	2/26/2008	2/26/2008
PCBS							
Arochlor 1248	404	3	1.2	ug/l	WT-MW-44	3/27/2007	3/27/2007
Arochlor 1254	404	2	0.29	ug/l	WT-MW-45	7/22/2003	7/22/2003

Notes:
[1] Includes samples collected and analyzed from Project Area wells as part of other groundwater monitoring programs
PCBs - Polychlorinated biphenyls
VOCs - Volatile organic compounds
ETPH - Connecticut Extractable Total Petroleum Hydrocarbons
mg/L - Milligrams per liter
ug/L - Micrograms per liter

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPROVAL

AUGUST 12, 2010

Lauren Levine
EH&S Department
United Technologies
One Financial Plaza
Hartford, CT 06101

RE: Willow Brook
PWA, 400 Main Street, East Hartford

Dear Ms. Levine:

The Remediation Division of the Bureau of Water Protection and Land Reuse has reviewed the letter titled, "Proposed Modification to the Willow Brook Pond and Willow Street North Groundwater Monitoring Programs, UTC/Pratt & Whitney, East Hartford, Connecticut Facility", dated April 16, 2010. The letter was prepared on your behalf by Loureiro Engineering Associates, Inc. and submitted in conjunction with Order #130.

The letter requests approval of modifications to the groundwater monitoring program approved on February 10, 2006, as part of the "Remedial Action Work Plan and Request for Variance, Engineered Control of Polluted Soils." It proposes the elimination of four of the fifteen monitoring wells from the program and reduction of the sampling frequency from quarterly to semi-annually.

The above referenced report is hereby approved.

The next deliverable due from you is the September 2010 monitoring results which are due on or before the end of the year.

Nothing in this approval shall affect the Commissioner's authority to institute any proceeding, or take any action to prevent or abate pollution, to recover costs and natural resource damages, and to impose penalties for violations of law. If at any time the Commissioner determines that the approved actions have not fully characterized the extent and degree of pollution or have not successfully abated or prevented pollution, the Commissioner may institute any proceeding, or take any action to require further investigation or further action to prevent or abate pollution. This approval relates only to pollution or contamination identified in the above referenced report.

In addition, nothing in this approval shall relieve any person of his or her obligations under applicable federal, state and local law.

If you have any questions pertaining to this matter, please contact Maurice Hamel of my staff at (860) 424-3787.

Sincerely,

Patrick F. Bowe, Director
Remediation Division
Bureau of Water Protection and Land Reuse

PFB:MRH
c: Brian Cutler, LEA