



engineering and constructing a better tomorrow

July 07, 2010

Mr. Joseph T. Martella II, Senior Engineer
RIDEM Office of Waste Management
Site Remediation Program
235 Providence Street
Providence, RI 02908

**RE: Parcel C Groundwater Investigation
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, Rhode Island
MACTEC Project No. 3650100169.01**

Dear Mr. Martella:

On behalf of Textron, this letter presents the scope of work for the installation of six monitoring wells, development and groundwater sampling to complete the nature and extent of groundwater contamination on Parcel C.

BACKGROUND

Extensive groundwater investigations have been conducted between May 2006 and February 2010 at the former Gorham Site, as shown in Figures 1 and 2. Groundwater plumes include: a former Bldg W PCE release, TCA/TCE release immediately south of the retail building (DP-2), PCE release immediately south of the retail building (DP-4/MW-228S) and Parcel C PCE release (MW-C). All of the groundwater plumes have been delineated both vertically and horizontally, except for the Parcel C groundwater plume. Based on our discussions during our April 27, 2010 meeting the Parcel C groundwater plume has not been fully delineated and additional investigation is necessary in order to complete the groundwater investigation activities for the Site.

SCOPE OF WORK

MACTEC will install and develop six monitoring wells on Parcel C with direct push drilling (Geoprobe ®) at the locations shown on Figures 1 and 2. The proposed well locations and screen depths have been developed based on historical groundwater and soil gas data. Three shallow wells (MW-238S, MW-239 and MW-240) will be installed to a depth of 30 feet below ground surface (bgs) with screen locations at 20-30 feet bgs (Figure 1). This line of wells will define the vertical and horizontal extent along the southern side of the shallow groundwater plume.

Three deep wells will be installed to a depth of 70 feet bgs and well screens set from 60-70 feet bgs (Figure 2). A line of three wells will extend along the center of the plume from the replacement well for MW -111D (MW-242), which was non-detect in 1994 and is now plugged with dirt, through MW-241(proposed) and MW-236D (existing). A third deep well, MW-238D, will be installed on the southern side to complete the horizontal and vertical delineation of the deep groundwater plume.

These six groundwater monitoring wells will be developed and then allowed to stabilize for one week prior for sampling for VOC's using USEPA low -flow sampling methodology. In addition to sampling the six new wells, two existing wells MW-236S/D will be sampled to correlate with prior data. A total of 8 groundwater

samples, one duplicate and one trip blank will be collected during the groundwater sampling program. We will also run a matrix spike and matrix spike duplicate analysis for VOCs via USEPA Method 8260. Water level gauging will be conducted at these eight wells along with MW-C, MW-D, MW-235S/D and MW-237D to develop groundwater contouring of the area during this sampling event.

REPORTING

Data reporting and evaluation will be included in a summary letter report to RIDEM approximately 3 weeks after the groundwater samples have been collected for analysis.

PROPOSED SCHEDULE

MACTEC has scheduled field activities for this groundwater investigation between July 14th and July 30th, 2010. MACTEC has mailed written notification of this work to the abutters, stakeholders and building owner/occupants in accordance with the Remediation Regulations prior to conducting this work. The notification was issued in both English and Spanish. MACTEC has also notified Dig Safe for utility clearance prior to conducting this work.

We look forward to working with RIDEM on the execution of this groundwater investigation and review of the Parcel C groundwater data. Feel free to contact either Dave Heislein at (781) 213-5655 or Greg Simpson of Textron at (401) 457-2635 with any questions. We are available either for a conference call or to meet with RIDEM to address any questions you may have on this work plan.

Sincerely,

MACTEC Engineering and Consulting, Inc.

 *for JM
with permission*

Mark Maggioro
Staff Environmental Scientist

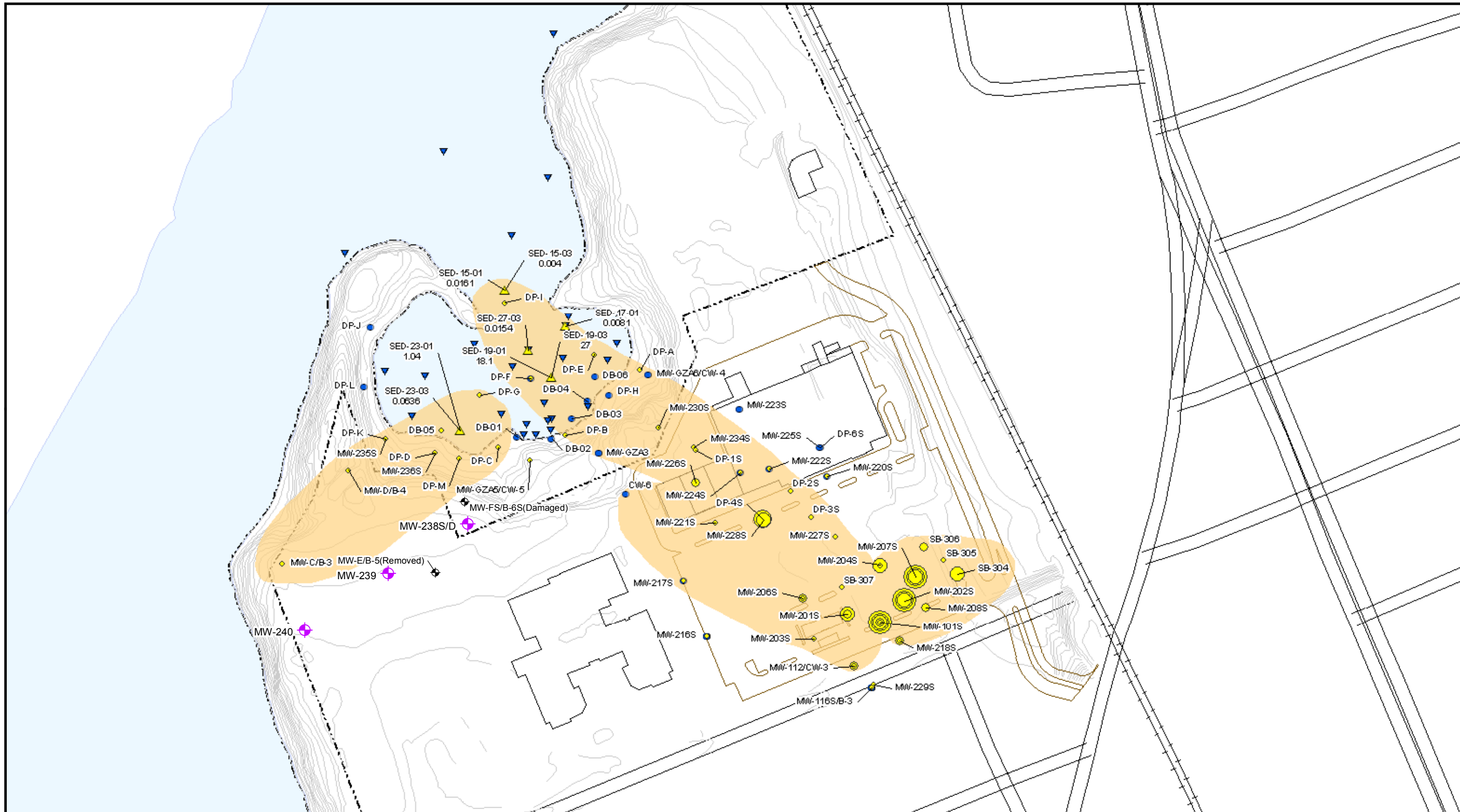


David E. Heislein
Principal Engineer

Attachments: Figure 1 – PCE Concentrations in Shallow Groundwater and Sediment (2006 – 2010) and Proposed Shallow Wells
Figure 2 - PCE Concentrations in Deep Groundwater and Sediment (2006 – 2010) and Proposed Deep Wells

cc: T. Dellar, City of Providence
A. Sepe, Department of Public Property
R. Mack, EA Engineering, Science, and Technology
G. Simpson, Textron, Inc.
Principal W. Torchon, Dr. Jorge Alvarez High School
Knight Memorial Library Repository

MACTEC Project File [P:\3650100169 - Textron Gorham - Parcel C\4.0 Project Deliverables\4.2 Work Plans\C00707wp.Doc



Notes:
 Data used for groundwater are all available data from 1/01/06 to 2/26/10.
 Data used for sediment are all available data. Some locations have multiple depths of sediment.
 Concentrations for sediments are in units of mg/kg.

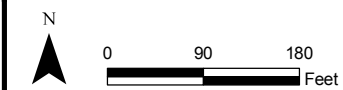
- Monitoring Well
- Proposed Monitoring Well
- PCE Detected in Sediment
- PCE Not Detected in Sediment
- PCE Not Detected in Groundwater
- Approximate Plume Boundary

Legend

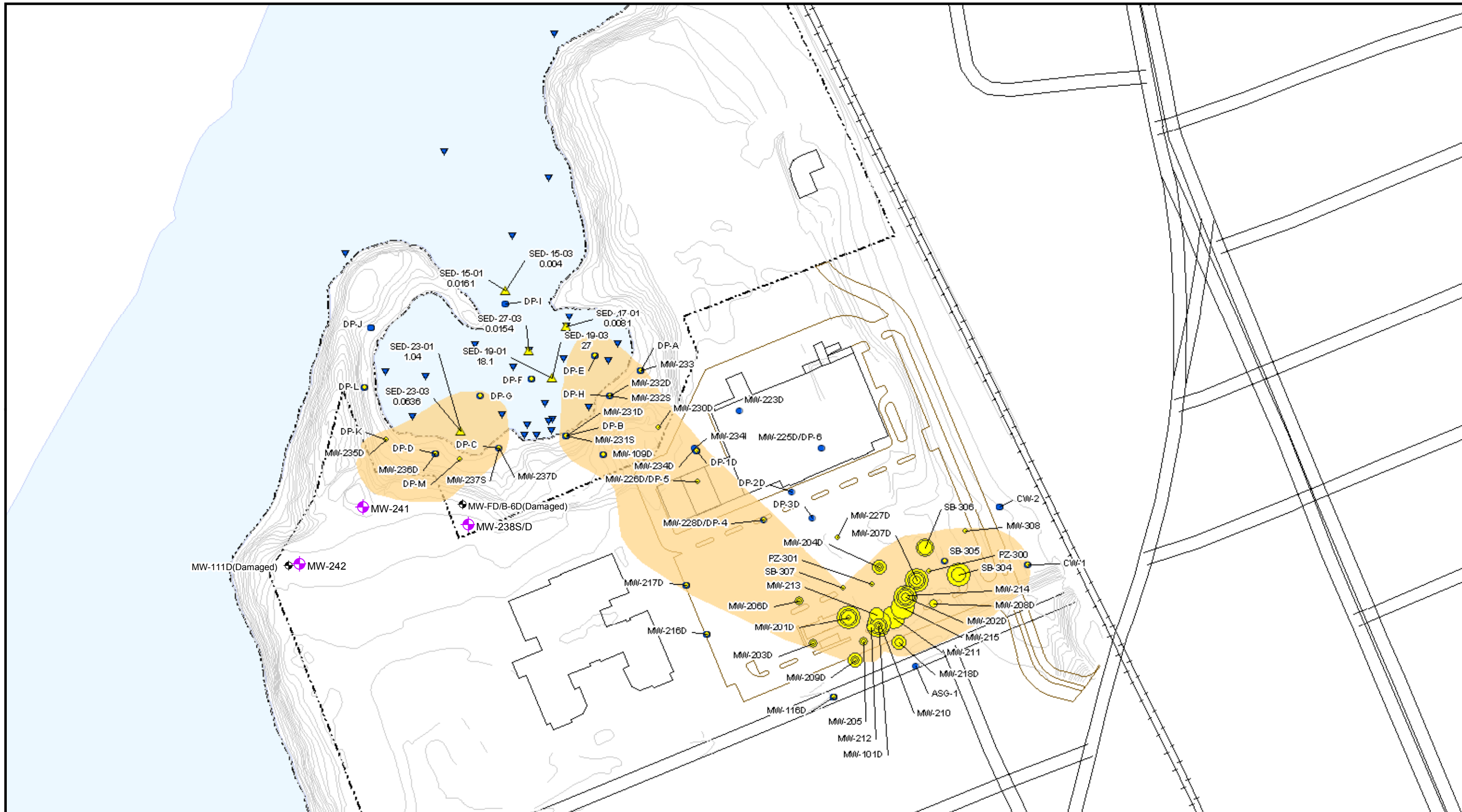
- PCE Concentration 0 - 0.2 mg/L
- PCE Concentration 0.2 - 1 mg/L
- PCE Concentration 1 - 5 mg/L
- PCE Concentration 5 - 10 mg/L
- PCE Concentration Above 10 mg/L
- Elevation Contour
- Pavement
- Railroad
- Park Parcel Boundary

Figure 1
 Tetrachloroethene (PCE) Concentrations in Shallow Groundwater and Sediment Sampled From 2006 to 2010 and Proposed Shallow Wells

333 Adelaide Avenue
 Providence, Rhode Island
 MACTEC, Inc.



Prepared/Date: BJR 07/06/10 | Checked/Date: DEH 07/06/10



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Data used for groundwater are all available data from 1/01/06 to 2/26/10.

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Legend

- ◆ Proposed Monitoring Well
- ◆ Monitoring Well
- ▲ PCE Detected in Sediment
- ▼ PCE Not Detected in Sediment
- PCE Not Detected in Groundwater
- Approximate Plume Boundary
- PCE Concentration 0 - 0.2 mg/L
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Figure 2
Tetrachloroethene (PCE) Concentrations in Deep Groundwater and Sediment Sampled From 2006 to 2010 and Proposed Deep Wells

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