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December 13, 2012

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Subject: University of California, Berkeley, Richmond Field Station
Final Phase I November 2010 through April 2012 Groundwater Sampling Results Technical
Memorandum, DTSC Site Investigation and Remediation Order I/SE-RAO 07/07-004 Section
5.16

Dear Ms. Nakashima,

Please find enclosed the Final Phase I November 2010 through April 2012 Groundwater Sampling Results Technical Memorandum. This report presents a summary of the data collected during the groundwater sampling conducted in April 2012, and presents an analysis and summary of the data collected during the four rounds of site-wide groundwater sampling. The report concludes with recommendations for continued sampling at certain locations. This version updates the draft report submitted on September 5, 2012 and incorporates the edits requested by your October 23 and December 4, 2012 letters.

In regards to detected trichloroethylene and related chlorinated hydrocarbons (TCE) in groundwater, based on (1) the measured groundwater gradient from the former Zeneca site to RFS; (2) known historic TCE sources and groundwater contamination at the upgradient former Zeneca site; and (3) lack of measured or identified TCE sources within the RFS property, UC Berkeley concludes that the source of TCE-impacted groundwater at RFS originates from legacy industrial activities at the former Zeneca site.

Consistent with Zeneca's current management of TCE-impacted groundwater associated with the MW25/Lot 1 activities at the shared northern property boundary, UC Berkeley requests that all TCE-impacted groundwater at RFS be incorporated into the scope of the former Zeneca Site Investigation and Remediation Order (IS/E-RAO 06/07-005) investigation, remediation, and monitoring activities being managed by Zeneca.

Ms. Lynn Nakashima
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This submission includes two hard copies and two electronic copies on CD with the revised report, figures, tables, and a response to comments. If you have any questions or need further information regarding this submittal, please contact me (gjhaet@berkeley.edu, 510-642-4848) or Karl Hans (khans@berkeley.edu, 510-643-9574).

Sincerely,



Greg Haet
EH&S Associate Director
Environmental Protection

Enclosure

cc:
Bill Marsh, Edgcomb Law Group
Doug Mosteller, CSV

Final

**Phase I November 2010 through April 2012
Groundwater Sampling Results
Technical Memorandum**

University of California, Berkeley
Richmond Field Station, Richmond, California


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December 12, 2012

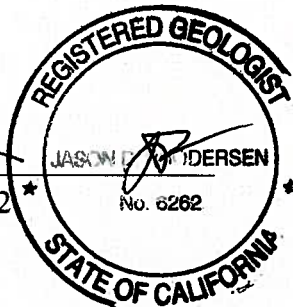
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ACRONYMS AND ABBREVIATIONS

µg/L	Micrograms per liter
bgs	Below ground surface
CSV	Cherokee Simeon Venture I, LLC
DQO	Data quality objective
DTSC	Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
FSW	Field Sampling Workplan
ft/ft	Foot per foot
IDW	Investigation-derived waste
J	Estimated value
LCS	Laboratory control sample
MCL	Maximum contaminant level
MDL	Method detection level
mg/L	Milligrams per liter
MS	Matrix spike
MSD	Matrix spike duplicate
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene
QA	Quality assurance
QC	Quality control
QL	Quantitation limit
R	Rejected data
RFS	Richmond Field Station
RPD	Relative percent difference
SVOC	Semivolatile organic compound
TCE	Trichloroethene
TDS	Total dissolved solids
Tetra Tech	Tetra Tech EM Inc.
TPH-E	Total extractable petroleum hydrocarbons
TPH-P	Total purgeable petroleum hydrocarbons

ACRONYMS AND ABBREVIATIONS
(Continued)

U	Not detected
UC Berkeley	University of California, Berkeley
UJ	Not detected at an estimated value
VOC	Volatile organic compound
Y	Indicates a sample chromatogram does not match the chromatogram for the TPH standard
Z	Indicates a sample contains a single peak or peaks in the TPH chromatogram, which is not a hydrocarbon pattern.

1.0 INTRODUCTION

This technical memorandum has been prepared on behalf of The Regents of the University of California (UC) in accordance with California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), Site Investigation and Remediation Order No. IS/E-RAO 06/07-004, dated September 15, 2006. This memorandum presents the results of four rounds of groundwater sampling as described in the Field Sampling Workplan (FSW) Phase I Groundwater Sampling Plan, dated June 2, 2010 (Tetra Tech EM Inc. [Tetra Tech] 2010). The objective of the FSW was to address data gaps identified in the Current Conditions Report (Tetra Tech 2008) and identify immediate or potential risks to public health and the environment.

The first phase of the FSW consisted of four rounds of site-wide groundwater sampling to evaluate overall groundwater characteristics and confirm the presence or absence of any unknown contamination in the shallow groundwater zone:

- Round 1 sampling represented a dry season conditions and was collected in November 2010; results were presented in the Phase I Groundwater Sampling Results, Technical Memorandum (Tetra Tech 2011a).
- Round 2 of bi-annual sampling, a wet season sampling, was collected in April 2011; results were presented in the Phase I April 2011 Groundwater Sampling Results, Technical Memorandum (Tetra Tech 2011b).
- Round 3 sampling was collected in October 2011; results were presented in the Phase I October 2011 Groundwater Sampling Results, Technical Memorandum (Tetra Tech 2012b).
- Round 4 sampling was conducted in April 2012 in accordance with the Proposed Continued Groundwater Monitoring, April 2012 sampling letter, dated March 16, 2012 (Tetra Tech 2012a); results are presented in this memorandum.

This technical memorandum (a) summarizes groundwater sampling results from all four rounds of sampling and assesses any trends identified, (b) recommends continuing sampling at certain locations, (c) summarizes field activities, site hydrology, data quality assessment, and data evaluation associated with the April 2012 groundwater sampling event, and (d) includes attachments of field documentation forms from the 2010 piezometer installation as well as the April 2012 event and complete analytical results from all four rounds of groundwater sampling. Responses to DTSC's comments on the draft version of this technical memorandum are included in [Appendix A](#).

1.1 PHYSICAL SETTING

The Richmond Field Station (RFS) is located at 1301 South 46th Street, Richmond, California, along the southeastern shoreline of the City of Richmond on the San Francisco Bay and northwest of Point Isabel (see [Figure 1](#)). It consists of upland areas developed for academic teaching and research, an upland remnant coastal terrace prairie, a tidal salt marsh, and a transition zone between the upland areas and marsh. Between the late 1800s and 1948, several

companies, including the California Cap Company, manufactured explosives at the RFS. In 1950, The UC Regents purchased the property from the California Cap Company. UC Berkeley initially used the RFS for research for the College of Engineering; later, it was also used by other campus departments.

Three habitat type areas have been identified at RFS: (1) the Upland Area, (2) the Transition Area, and (3) the Western Stege Marsh (see [Figure 2](#)). The Upland Area consists of 96 acres of land bounded by Meade Street to the north, South 46th Street to the east, the Transition Area to the south, and Meeker Slough and Regatta Boulevard to the west. The Transition Area occupies approximately 5.5 acres and is bounded to the north by the Upland Area at the location of a buried, former seawall that is believed to have been the edge of the historical mudflats, and to the south by Western Stege Marsh at the 5-foot elevation upper extent of the marsh (National Geodetic Vertical Datum 29). The Transition Area is believed to consist entirely of artificial fill placed on historical mudflats. Western Stege Marsh occupies approximately 7.5 acres and is bounded by the Transition Area to the north, the RFS connector trail to the East Bay Regional Park District Trail and Eastern Stege Marsh to the east, the Bay Trail to the south, and Meeker Slough and Marina Bay housing development to the west (see [Figure 2](#)).

1.2 INVESTIGATION PURPOSE

The Current Conditions Report (Tetra Tech 2008) for RFS identified the possible presence of contaminants in groundwater as a data gap. Potential sources include contamination from off-site sources as well as previous site activities that may have leached contaminants from soil or underground utilities to groundwater. The Phase I FSW field effort addressed this data gap through installation of 51 piezometers throughout the RFS: 47 in the shallow groundwater zone, and four in a deeper zone (see [Figure 3](#)). Data collected included groundwater samples, geology, and depth to water which were used to develop a hydrogeologic model of the site and improve the understanding of overall site-wide groundwater quality.

The purpose of the continued monitoring is to evaluate seasonal fluctuations in chemical concentrations and groundwater elevations. Following the initial groundwater investigation in November 2010, 50 shallow zone piezometers were sampled for depth to water measurements and chemical analysis in April 2011, October 2011, and April 2012. These 50 piezometers include the 47 shallow piezometers installed by UC Berkeley during 2010 and three piezometers (PZ8, PZ9, and PZ11) previously installed by the owner of the adjacent property, Cherokee Simeon Venture I, LLC (CSV). The four deeper zone piezometers were not sampled for chemical analysis.

2.0 FIELD ACTIVITIES

The Phase I continued groundwater monitoring included sampling 50 shallow piezometers throughout the RFS, including the 47 shallow piezometers installed in the Phase I field effort and the three piezometers previously installed by CSV. Sampling was conducted through four events: two dry seasons and two wet seasons. Analyses and measurements included (see [Table 1](#)):

- Dissolved metals (field-filtered), semivolatile organic compounds (SVOC), total extractable petroleum hydrocarbons (TPH-e), total purgeable petroleum hydrocarbons (TPH-p), polycyclic aromatic hydrocarbons (PAH), and volatile organic compounds (VOC).
- Unfiltered metals analysis at piezometers FG, B474, EERC, PZ11, B195, CCC2, WTA, B163, ETA, Bulb1, and Bulb2 to confirm unfiltered concentrations identified during the first round of groundwater sampling in November 2010.
- Depth to groundwater and water quality parameters such as total dissolved solids (TDS), dissolved oxygen, pH, oxidation-reduction potential, specific conductance, and temperature.

Samples were not analyzed for pesticides or polychlorinated biphenyls (PCB) analyses during the April 2011, October 2011, or April 2012 events because these analytes were not detected in any samples collected during the November 2010 sampling event.

The information presented in [Sections 2.1, 2.2, and 2.3](#) are specific to the April 2012 event. Groundwater sampling, water level measurements, and waste characterization activities from the previous three events are presented in their respective summary reports. The rationale for groundwater piezometer locations and depths, geologic boring logs, well completion logs, and well development logs for the 51 piezometers installed in the Phase I field effort are presented in [Attachments 1 through 4](#) which were originally included in the August 22, 2011 Final, Revision 1, Phase I Groundwater Sampling Results Technical Memorandum.

2.1 GROUNDWATER SAMPLING

Groundwater samples were collected from April 2 through April 10, 2012. The groundwater from each piezometer sampled was collected through sterile Teflon and silicon tubing using a low-flow, peristaltic pump. The discharge from the pump ran through a flow cell measuring turbidity, dissolved oxygen content, pH, temperature, and electrical conductance. Groundwater samples were collected from each piezometer after the parameters stabilized to within the acceptable ranges, as shown on the groundwater sample collection sheets included in [Attachment 5](#). Groundwater results are discussed in [Section 6.0](#). Samples were immediately placed in coolers containing ice. At the end of each day, the samples were delivered to Curtis and Tompkins laboratory located in Berkeley, California.

2.2 WATER LEVEL MEASUREMENTS

Depth to water measurements for all piezometers was recorded on April 2, 2012, to coincide with a similar field event occurring on the adjacent Campus Bay property. The depth to water in all 51 of the Phase I piezometers, including the four deeper piezometers, was measured from the top of the polyvinyl chloride casing to 0.01-foot accuracy using a water level meter; the data are presented in [Table 2](#). Additionally, depth to water measurements were recorded in the three CSV piezometers, PZ8, PZ9, and PZ11 located on the RFS property. If the piezometers were found to be pressurized, then the well cap was removed for a minimum of 10 minutes before the depth to water measurement to allow for the water level to equilibrate. These groundwater measurements, as well as those collected in November 2010, April 2011, and October 2011 were mapped to assess seasonal variation in groundwater elevations and contours. The depths to water measurements were recorded in the field notebook and are included on [Figures 4 through 7](#). These figures include data from CSV to create groundwater contours which span both properties.

2.3 WASTE CHARACTERIZATION AND DISPOSAL

All investigation-derived waste (IDW) from the April 2012 field effort was drummed, labeled, and moved to a fenced storage location west of Building 110. The IDW produced from this sampling investigation consisted of three drums containing water purged from piezometers during the sampling processes. This wastewater was characterized through the samples collected and analyzed as part of the field sampling effort. These drums were disposed of at an off-site facility.

3.0 GEOLOGY

As presented in the Current Conditions Report (Tetra Tech 2008), four major geologic units were defined for the RFS as follows:

- Artificial Fill
- Quaternary Alluvium
- Bay Sediments
- Yerba Buena Mud (Older Bay Mud)

The borings for the FSW investigation are limited to the upper 40 feet; therefore, only the artificial fill, alluvium, and to a lesser extent bay sediments were encountered during piezometer installation in 2010. During the installation, artificial fill was difficult to differentiate from the underlying alluvium because it was of a similar lithology and texture. The lithology of the fill and alluvium can be grouped into four basic soil types: silt/clay, clayey gravel, clayey/silty sand, and sand. In most cases, the gravels contained clay and sand and the clays layers were found to have an estimated 5 to 40 percent sand or gravel. The relationship between the lithologies was typical of a coastal alluvial plain: thin interbedded layers of clays, silts, sands, and gravels that were laterally discontinuous. The fine-grained sediments (clays and silts) may have been deposited as over-bank flood-plain deposits and the coarse grained sediments may be from former stream or river beds meandering across a flood plain. The meandering of former surface water channels likely causes the lateral variation in the lithologies observed in the borings.

Two geologic cross-sections were developed to aid in the description of the site stratigraphy; the paths of the cross-sections are presented on [Figures 8 and 9](#). The cross sections were developed for the technical memorandum presenting the October 2010 groundwater results (Tetra Tech 2011a), and have been updated to include measured groundwater levels from the subsequent three rounds of sampling. Section A-A' provides an east-west transect, as shown on [Figure 8](#). Section B-B' provides a north-south transect, as shown on [Figure 9](#). Generally, the horizontal extent of individual layers of clay, sand, and gravel is limited in the upper 20 feet bgs, as would be expected in a coastal alluvial depositional environment. Between 20 and 44 feet bgs, less variation in lateral extent is observed, although this could be an artificial result of fewer borings to define the deeper horizons.

4.0 HYDROGEOLOGY

The geologic materials at the RFS include clays, silts, sands, and gravels. Generally, the coarser-grained materials are expected to transmit or yield more groundwater; however, most of the gravels and sands contained a silt/clay fraction that may severely inhibit groundwater flow or yield. A few exceptions were encountered where cleaner sand lenses occurred, which were classified in the field as well-graded and poorly graded sands. In the upper 20 feet below ground surface (bgs), these sand lenses occurred only over short lateral distances. Based on the limited number of deeper borings, a more continuous thin layer of sand may be present between depths of 35 and 40 feet bgs.

As presented in [Section 2.0](#), 51 piezometers were installed throughout the site as part of the FSW investigation. Comprehensive groundwater flow directions were calculated based on the general uniform spacing and broad coverage of the piezometer locations. [Figures 4 through 7](#) show the shallow groundwater elevations measured on November 1, 2010, April 11, 2011, October 1, 2011, and April 2, 2012 and the resulting contours from the shallow piezometers. The November 2010 and October 2011 groundwater elevations are likely representative of the dry season since no major rainfall had occurred in the 6 months prior to either event. The April 2011 and 2012 measurements were collected toward the ends of the typical annual wet season. Groundwater generally flows onto the site from the northeast and across the site to the southwest. Minor seasonal variation in groundwater flow direction and gradients were observed, as would be expected from wet to dry seasons. Groundwater elevations will continue to be measured bi-annually to gather a comprehensive dataset and complete a more thorough assessment of seasonal variation in groundwater flow.

The horizontal groundwater gradient or slope is estimated from the groundwater contours. In November 2010, the gradient within the northeast portion of the site was approximately 0.008 foot per foot (ft/ft). The gradient within the central portion of the site was slightly flatter at 0.002 ft/ft. The gradient in the southern portion of the site was approximately 0.004 ft/ft. In April 2011, the gradients were slightly steeper in the southern portion of the site (0.008 ft/ft) and slightly shallower in the northeast portion of the site (0.004 ft/ft). The October 2011 gradients were similar to the November 2010 gradients; both periods represent the dry season. Compared with the wet season (April 2011 and April 2012), the dry season gradients are shallower in the central and southern portions of the site and slightly steeper in the northeast portion of the site. The April 2012 gradients were slightly steeper than the April 2011 gradients in the northeast and central portions of the site, and the groundwater levels were also higher in April 2012 than in April 2011.

The variation in gradients is likely influenced by seasonal and local areas of recharge caused by varying surface cover and features and the variation in hydraulic conductivity of the soil. A localized variation in the groundwater gradient is identified near location B150, where the groundwater elevations were higher than in nearby piezometers. This variation may have been caused by past discharge from a broken freshwater pipe identified and repaired in the fall of 2010; however, the continued measurements imply there could be ongoing sources to elevated groundwater from nearby irrigation/landscape maintenance activities. The RFS is predominantly underlain by clayey soil with inherently low permeability; therefore, the reduction in

groundwater level in this area could take years; a noticeable decrease in the mounding has not been observed since the initial groundwater elevations. This mounding is still visible in the most recent contours.

Vertical groundwater gradients were also estimated from the water level measurements at the shallow/deep well pairs. The following table shows the vertical gradients estimated from the water level measurements collected between November 2010 and April 2012.

Vertical Groundwater Gradients (ft/ft)					
Well Pair	November 2010	February 2011	April 2011	October 2011	April 2012
RFS-GW-480	0.25 Up	0.18 Up	0.13 Up	0.23 Up	0.19 Up
RFS-GW-B128	0.031 Dn	0.01 Up	0.046 Up	0.019 Dn	0.091 Dn
RFS-GW-B38	0.015 Up	0.008 Dn	0.04 Dn	0.015 Up	0.059 Dn
RFS-GW-CTP	0.038 Dn	0.013 Up	0.068 Dn	0.006 Dn	0.01 Up

Notes:

Up Upward gradient
Dn Downward gradient

Changes in the vertical gradients are likely the result of seasonal variations in surface water infiltration and recharge and the variability in the aquifer properties from more permeable sands to less permeable clays.

5.0 DATA QUALITY ASSESSMENT

This section provides an overall summary of the data quality for the groundwater samples collected during the April 2012 event. Specific data quality assessments for previous sampling events are presented in each respective summary report and summarized in the following subsections.

5.1 DATA QUALITY OBJECTIVES

Data quality objectives (DQO) were developed during the FSW planning process to help ensure the collection of data appropriate to support defensible decisions. The DQOs stated the need for additional groundwater data at the RFS to develop a hydrogeologic model of the site and to improve overall understanding of groundwater quality. This DQO was achieved through the strategic placement of 51 groundwater monitoring piezometers across the RFS from fenceline to fenceline and also targeted specific locations defined as data gaps in the Current Conditions Report.

The data collected during the first three rounds of groundwater sampling were adequate to create hydraulic gradient maps to help gain a better understanding of the general hydrology at the RFS. Additionally, the chemical data collected improved site knowledge of areas identified as data gaps and previously uncharacterized areas.

All locations were sampled in April 2012 according to the sampling plan and quality assurance project plan in the FSW (Tetra Tech 2010). The analytical data achieved appropriate method detection levels (MDL) for comparison with relevant state and federal groundwater criteria and are presented below, along with comparisons to the previous three rounds of data.

5.2 LABORATORY DATA REVIEW

Assignment of data qualification flags for analytical data from Curtis and Tompkins for the April 2012 event conformed to U.S. Environmental Protection Agency (EPA) Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 2008) and Inorganic Data Review (EPA 2010). Data review specifications require that various data qualifiers be assigned when a deficiency is detected or when a result is less than its detection limit. If no qualifier is assigned to a result that has been reviewed, the data user is assured that no technical deficiencies were identified during validation. The qualification flags used are defined as follows:

- U – Indicates that the chemical was not detected at the numerical detection limit (sample-specific detection limit) noted. Non-detected results from the laboratory are reported in this manner.
- UJ – Indicates that the chemical was not detected; however, the detection limit (sample-specific detection limit) is considered estimated based on problems encountered during laboratory analysis. The associated numerical detection limit is regarded as inaccurate or imprecise. This qualifier is also added to a positive result (reported by the laboratory) if the detected concentration is determined to be attributable to contamination introduced during field sampling or laboratory analysis.

- J – Indicates that the chemical was detected; however, the associated numerical result is not a precise representation of the concentration that is actually present in the sample. The laboratory-reported concentration is considered an estimate of the true concentration.
- R – Indicates that the chemical may or may not be present. The non-detected analytical result reported by the laboratory is considered unreliable and unusable. This qualifier is applied in cases of gross technical deficiencies (for example, a holding time missed by a factor of two times the specified time limit, severe calibration non-compliance, or extremely low analyte recovery in quality control [QC] spike samples).
- Y – Indicates the sample chromatogram does not match the chromatogram for the TPH standard. This flag does not denote a quality issue or QC violation.
- Z – Indicates the sample contains a single peak or peaks in the TPH chromatogram, which is not a hydrocarbon pattern. This flag does not denote a quality issue or QC violation.

The preceding data qualifiers may be categorized as indicating major or minor problems. Major problems are defined as issues that result in the rejection of data and qualification with R. These data are considered invalid and are not used for decision-making unless they are used in a qualitative way and the use is justified and documented. Minor problems are defined as issues resulting in the estimation of data and qualification with U, J, and UJ qualifiers. Estimated analytical results are considered suitable for decision-making unless the data use requirements are stringent and the qualifier indicates a deficiency that is incompatible with the intended data use. A U qualifier does not indicate that a data deficiency exists because all non-detect values are flagged with the U qualifier regardless of whether a quality deficiency has been detected. Y and Z are identifiers for TPH and do not denote quality issues or QC violations or cause the data to be estimated; instead, they identify the pattern in the chromatogram.

5.3 DATA QUALITY REVIEW FINDINGS

The following section addresses quality review findings for the inorganic and organic data collected in April 2012.

A review of the inorganic data quality determined that quality assurance (QA)/QC objectives for bias and precision were met for most analytical results, with the following exceptions:

- Matrix spike (MS) and matrix spike duplicate (MSD) recoveries resulted in qualification of results as “estimated” (“J”) for dissolved barium in one sample, and total barium and lead in one sample.
- Relative percent difference percentages (RPD) between the MS and MSD resulted in qualification of results as estimated “J” for dissolved aluminum in one sample.
- Iron and selenium results were “J” qualified as estimated due to calibration QC violations in one sample.

- Due to laboratory blank contamination, dissolved aluminum results in eight samples, dissolved antimony in seven samples, dissolved arsenic in 10 samples, dissolved cadmium in four samples, dissolved iron results in 11 samples, dissolved mercury results in 19 samples, dissolved molybdenum results in three samples, dissolved selenium results in 15 samples, total aluminum results in three samples, total arsenic results in one sample, total cadmium results in three samples, total iron results in two samples, total molybdenum results in four samples, and total selenium results in four samples are considered nondetect and “UJ” qualified. No results were qualified nondetect due to field blank contamination. Less than 6 percent of the inorganic groundwater data was qualified due to laboratory blank contamination problems.
- Due to serial dilution criteria infractions, dissolved barium results in five samples, dissolved calcium, iron, manganese, and nickel results in one sample, total barium and sodium in one sample, and total magnesium and manganese results in two samples, were “J” qualified as estimated.
- Several inorganic sample results were estimated because they were reported at concentrations between the MDL and the laboratory quantitation limit (QL). The analytical instrument can make reliable qualitative identification of analytes above the MDL but below the QL; however, detected results below the QL are considered quantitatively uncertain. Approximately 17 percent of the inorganic groundwater data was affected, however, these results are considered usable as qualified.

A review of the organic data quality determined that QA/QC objectives for bias and precision were met for most analytical results, with the following exceptions:

- MS/MSD and Laboratory Control Sample (LCS) spike recoveries resulted in qualification of results as estimated (“J”) for seven semivolatile compounds in five samples: 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 2-chlorophenol, bis(2-chloroethyl)ether, and nitrobenzene in one sample, and bis(2-ethylhexyl)phthalate in four samples. Additionally, VOCs (2,2'-dichloropropane, methyl-tert butyl ether, trichloroethene, and vinyl acetate in one sample, and Freon-12 in 10 samples).
- RPDs between the MS and MSD resulted in qualification of results as estimated “J” for 1,1-dichloroethane and vinyl acetate results in one sample and Freon-12 in 10 sample results.
- Surrogate recoveries resulted in qualification of results as estimated “J” for volatile organic compounds and gasoline in one sample.
- Results for Freon-12 and vinyl acetate in four samples were “J” qualified as estimated due to calibration QC violations in multiple samples.

- Due to laboratory blank contamination, bis(2-ethylhexyl)phthalate results in seven samples, acetone results in 19 samples, methylene chloride results in four samples, naphthalene in one sample, diesel results in two samples, and gasoline results in 61 samples are considered nondetect and “UJ” qualified. In addition, three chloroform results were qualified nondetect and “UJ” qualified due to field blank contamination. Less than 2 percent of the organic groundwater data was qualified due to laboratory and field blank contamination problems.
- The results for several organic compounds in a few samples were estimated because they were reported at a concentration between the MDL and the QL. The analytical instrument can make reliable qualitative identification of analytes above the MDL but below the QL; however, detected results below the QL are considered quantitatively uncertain. Less than 2 percent of the organic groundwater data was affected.

Although some qualifiers were added to the data, a final review of the April 2012 and the previous three data sets against the EPA data quality parameters indicated that the data are of high overall quality. The data from all four events meet all the requirements of the precision, accuracy, representativeness, completeness, and comparability described in EPA guidance for quality assurance project plans and the RFS Quality Assurance Project Plan (EPA 2002; Tetra Tech 2010) and are usable for meeting the project DQOs and future risk assessments.

The overall assessment of the sampling program, QA/QC data, and data review indicates the data from this investigation are of acceptable precision, accuracy, representativeness, completeness, and comparability.

5.4 DEVIATIONS

There were no deviations from the March 16, 2012 proposed continued groundwater monitoring memorandum to DTSC (included as [Appendix B](#)), and the groundwater samples were collected consistent with the protocols in the Field Sampling Workplan dated June 2, 2010. The filtering process for the dissolved metals analysis was conducted in the field during this event, consistent with DTSC comments regarding the October 2011 sampling effort. Previously, samples for the dissolved metals analysis were filtered at the analytical laboratory.

6.0 APRIL 2012 DATA EVALUATION

This section provides an overview of the compounds detected during the groundwater sampling conducted between April 2 and 10, 2012. State and federal water quality criteria consistent with the groundwater data evaluation performed at the adjacent Campus Bay site were identified to help evaluate the groundwater data, as presented in [Table 5](#). The comparisons are solely intended to provide a baseline and are not intended to represent remedial or cleanup criteria or triggers for further sampling. Analysis of data and trends from the four rounds of sampling is described in [Section 7.0](#). [Table 6](#) provides a statistical summary of the detected data during the April 2012 groundwater sampling event, and [Tables 7 through 10](#) provide complete results for all detected chemicals compared to water quality criteria. Complete analytical results are included in [Attachment 6](#). Results are compared to California maximum contaminant levels (MCL) and federal MCLs in [Tables 6 through 10](#), and in the text below. Duplicate results are not included in the discussion below or in the statistical summary table.

6.1 VOLATILE ORGANIC COMPOUNDS

Groundwater samples were analyzed for VOCs by EPA Method 8260. VOCs were detected at many sampling locations throughout RFS; twenty of the 71 target VOC analytes were detected (see [Tables 6 and 7](#)). Of the VOCs detected, five compounds — 1,2-dichloroethane, carbon tetrachloride, tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride — exceeded the California MCL, and four compounds — 1,2-dichloroethane, carbon tetrachloride, PCE, and TCE — exceeded the federal MCL:

- 1,2-Dichloroethane was detected at seven of 50 sampling locations with concentrations ranging from 0.2 to 8.2 micrograms per liter ($\mu\text{g/L}$); six locations were equal to or exceeded the California MCL of 0.5 $\mu\text{g/L}$ including one location, B163, which also exceeded the federal MCL of 5 $\mu\text{g/L}$ at a concentration of 8.2 $\mu\text{g/L}$.
- Carbon tetrachloride was detected at five locations, with concentrations ranging from 0.2 to 14 $\mu\text{g/L}$. Concentrations at four locations exceed the California MCL of 0.5 $\mu\text{g/L}$. At one of these four locations, CTP, carbon tetrachloride was detected at a concentration of 14 $\mu\text{g/L}$, which also exceeded the federal MCL of 5 $\mu\text{g/L}$.
- PCE was detected at 18 locations with concentrations ranging from 0.1 to 11 $\mu\text{g/L}$. At the location with the maximum result, B163, the PCE concentration exceeded the California MCL and federal MCL of 5 $\mu\text{g/L}$.
- TCE was detected at 25 locations, 16 of which exceeded the California MCL and federal MCL of 5 $\mu\text{g/L}$. Reported concentrations exceeding the MCLs ranged from 5.4 to 190 $\mu\text{g/L}$. The concentrations of TCE exceeding the MCLs were predominantly found along the eastern RFS property boundary.

- Vinyl chloride was detected at two locations (B163 and B185) with concentrations ranging from 0.2 to 0.9 µg/L. The concentration detected at B163, 0.9 µg/L, exceeded the California MCL of 0.5 µg/L, but is below the federal MCL of 2 µg/L.

6.2 SEMIVOLATILE ORGANIC COMPOUNDS

Groundwater samples were analyzed for SVOCs by EPA Method 8270. PAHs are a subset of SVOCs, analyzed by EPA Method 8270-SIM (selective ion monitoring) to obtain a lower QL and MDL. SVOCs were detected infrequently across the RFS, with 11 of 73 target analytes detected: 1,4-dioxane, 1-methylnaphthalene, 4-methylphenol, acenaphthene, acenaphthylene, anthracene, fluoranthene, fluorine, naphthalene, phenanthrene, and pyrene (see [Table 8](#)). There are no established MCLs for the detected analytes.

- 1,4-Dioxane was detected at concentrations ranging from 0.09 µg/L to 12 µg/L at 13 locations.
- 1-Methylnaphthalene, 4-methylphenol, acenaphthene, acenaphthylene, anthracene, fluoranthene, fluorene, and phenanthrene were detected in one location each; naphthalene and pyrene were detected at three and two locations, respectively.

6.3 METALS

With the exception of silver, metals were detected in all samples submitted for analysis. Unfiltered metals analysis was conducted for samples collected at piezometers FG, B474, EERC, PZ11, B195, CCC2, WTA, B163, ETA, Bulb1, and Bulb2 to confirm unfiltered concentrations identified during the first round of groundwater sampling in November 2010. The samples collected in April 2012 were also submitted to Curtis and Tompkins for analysis; however, the filtrate samples were field filtered. A statistical summary of all detected metals is presented in [Table 6](#), and [Table 9](#) provides complete results for all detected metals compared to water quality criteria. Detections for all metals except essential nutrients (calcium, magnesium, potassium, and sodium) are discussed below.

- Aluminum was detected at 7 of the 11 unfiltered sampling locations, ranging in concentration from 7.9 to 740 µg/L. Additionally, aluminum was detected in 13 of the 50 filtered samples, ranging in concentrations from 6.5 to 600 µg/L. The California MCL for aluminum is 1,000 µg/L and there is no federal MCL for aluminum.
- Antimony was detected at 9 of the 11 unfiltered sampling locations, at concentrations ranging from 0.18 to 3.5 µg/L. Additionally, antimony was detected at 20 of the 50 filtered sampling locations, ranging in concentration from 0.18 to 3.3 µg/L. No detection exceeded the California MCL and federal MCL of 6 µg/L.

- Arsenic was detected at 10 of the 11 unfiltered sampling locations, with concentrations ranging from 0.5 to 9.3 µg/L. Additionally, arsenic was detected at 40 of the 50 filtered sampling locations, with concentrations ranging from 0.39 to 18 µg/L; concentrations at two locations, B197 and DH met or exceeded the California MCL and federal MCL of 10 µg/L at 10 and 18 µg/L, respectively.
- Barium was detected in all unfiltered and filtrate samples with concentrations ranging from 5.2 to 370 µg/L. No detection exceeded the California MCL of 1,000 µg/L or the federal MCL of 2,000 µg/L.
- Beryllium was detected at 5 of the 11 unfiltered sampling locations, with concentrations ranging from 0.21 to 0.98 µg/L. Additionally, beryllium was detected in 10 of the 50 filtered samples, ranging in concentration from 0.21 to 1.1 µg/L. No detection exceeded the California MCL or federal MCL of 4 µg/L.
- Cadmium was detected in 7 of the 11 unfiltered samples at concentrations ranging from 0.11 to 19 µg/L, with the values at locations B163 and PZ11 exceeding the California MCL and federal MCL of 5 µg/L. Additionally, cadmium was detected in 20 of the 50 filtered samples, with concentrations ranging from 0.099 to 22 µg/L. Concentrations at two locations, B163 and PZ11 exceeded the MCLs at 6.2 and 22 µg/L, respectively.
- Chromium was detected at 10 of the 11 unfiltered sampling locations, with concentrations ranging from 0.34 to 9.4 µg/L. Additionally, chromium was detected in 39 of the 50 filtered samples, ranging in concentration from 0.23 to 5.8 µg/L. No detection exceeded the California MCL of 50 µg/L or the federal MCL of 100 µg/L.
- Cobalt was detected at 8 of the 11 unfiltered sampling locations, with concentrations of ranging from 0.1 to 5 µg/L. Cobalt was also detected in 18 of the 50 filtered samples, ranging in concentration from 0.26 to 12 µg/L. There is no MCL for cobalt.
- Copper was detected in 6 of the 11 unfiltered samples, with concentrations ranging from 0.96 to 770 µg/L. Additionally, copper was detected in 15 of the 50 filtered samples, with concentrations ranging from 0.86 to 800 µg/L. No sample concentration exceeded the California MCL or federal MCL of 1,300 µg/L.
- Lead was detected in 3 of the 11 unfiltered samples, ranging in concentration from 0.56 to 0.97 µg/L. No detection exceeded the California MCL or federal MCL of 15 µg/L. Lead was not detected in any of the 50 filtered samples collected.
- Manganese was detected in all unfiltered and in 49 filtered samples, ranging in concentration from 0.36 to 19,000 µg/L. There is no MCL for manganese.
- Mercury was detected at 8 of the 11 unfiltered sampling locations, with concentrations ranging from 0.03 to 2.7 µg/L; the sample from location B195 exceeded the California MCL and federal MCL of 2 µg/L. Mercury was detected in 11 of the 50 filtered samples, with concentrations of 0.026 and 2 µg/L. The sample collected at location B195 was equal to the MCLs.

- Molybdenum was detected at 6 of the 11 unfiltered sampling locations, with concentrations ranging from 0.75 to 9.5 µg/L. Molybdenum was detected in 32 of the 50 filtered samples, with concentrations of 0.22 to 8.7. There are no California or federal MCLs for molybdenum.
- Nickel was detected in 10 of the 11 unfiltered samples with concentrations ranging from 0.41 to 1,200 µg/L, with values at locations B163 and PZ11 exceeding the California MCL of 100 µg/L. Additionally, nickel was detected in 30 of the 50 filtrates samples collected with concentrations ranging from 0.58 to 1,400 µg/L. The samples collected at locations B163 and PZ11 exceeded the California MCL with concentrations of 180 and 1,400 µg/L. There is no federal MCL for nickel.
- Selenium was detected at 5 of the 11 unfiltered sampling locations, with concentrations of 0.45 and 4.8 µg/L. Selenium was also detected in 11 of the 50 filtered samples, ranging in concentrations from 0.28 to 67 µg/L. The sample collected location B150 exceeded the California MCL and federal MCL of 50 µg/L at 67 µg/L.
- Silver was detected in one of the unfiltered samples, with a concentration of 0.74 µg/L, and 3 of the 50 filtered samples, ranging in concentration from 0.18 to 0.6 µg/L. There is no California MCL or federal MCL for silver.
- Thallium was detected at 1 of the 11 unfiltered sampling locations, with a concentration of 0.28 µg/L and 1 of the 50 filtered samples, with a concentration of 0.21 µg/L. No detection exceeded the California MCL or federal MCL of 2 µg/L.
- Vanadium was detected in all of the unfiltered sampling locations and 49 of the 50 filtered samples, ranging in concentration from 0.47 to 7.3 µg/L. There is no California MCL or federal MCL for vanadium.
- Zinc was detected at 7 of the 11 unfiltered sampling locations, with concentrations ranging from 6.7 to 6,600 µg/L. Zinc was also detected in 32 of the 50 filtered samples, ranging in concentration from 3.7 to 7,600 µg/L. There are no California MCL or federal MCLs for zinc.

6.4 TOTAL PETROLEUM HYDROCARBONS

All samples were submitted for TPH analysis. A statistical summary of detected TPH results is provided in [Table 6](#), and [Table 10](#) provides complete results for all detected TPH compounds. There were no detections of motor oil-range organics or TPH as gasoline. There were nine detections of diesel-range organics, with concentrations ranging from 8 to 13 µg/L. There are no established California MCLs or federal MCLs for TPH.

7.0 PHASE I COMPREHENSIVE DATA EVALUATION

This section provides a comprehensive analysis of the compounds detected during the four rounds of groundwater sampling conducted between November 2010 and April 2012. State and federal water quality criteria consistent with the groundwater data evaluation at the adjacent Campus Bay site were identified to help evaluate the groundwater data, as presented in [Table 5](#). The comparisons are solely intended to provide a baseline and are not intended to represent remedial or cleanup criteria or triggers for further sampling. [Table 11](#) presents a statistical summary of all detected chemicals from November 2010 through April 2012. [Tables 12 through 15](#) provide results for the detected chemicals. Complete analytical results are included in [Attachment 6](#).

The initial round of samples was submitted to the EPA Region 9 Laboratory in November 2010 for VOC, SVOC, TPH, metals, TDS, metals, PCB and pesticide analyses. Because no PCBs or pesticides were detected in the initial sampling, these analyses were not included for the next three rounds of sampling. The subsequent three rounds of samples collected in April 2011, October 2011, and April 2012 were submitted to Curtis and Tompkins for analysis.

Very few deviations from the workplan occurred during the four rounds of sampling, and the data from each round was reviewed per the EPA guidance described in [Section 5.0](#). Each round of data met all the requirements of the precision, accuracy, representativeness, completeness, and comparability and was determined to be usable for meeting the project DQOs and future risk assessments.

7.1 VOLATILE ORGANIC COMPOUNDS

Groundwater samples were submitted for analysis of VOCs by EPA Method 8260. VOCs were detected at many sampling locations. Thirty-one of 71 target VOC analytes were detected at the RFS. These results are summarized in [Table 11](#), and all detected results are presented in [Table 12](#). Of the VOCs detected, seven compounds exceeded their respective California MCLs and/or federal MCLs:

- 1,2-Dichloroethane
- Benzene (California MCL only)
- Carbon tetrachloride
- cis-1,2-Dichloroethene
- PCE
- TCE
- Vinyl chloride (California MCL only)

Benzene detections exceeded the California MCL (1 µg/L) at two locations, Bulb1 and Bulb2, in the first round of sampling, but was not detected at these locations during the following three rounds of sampling. No samples exceeded the federal MCL of 5 µg/L. Benzene was detected at locations B163 and B185 at low concentrations, as shown in the following table.

Sample Date	B163	B185	BULB1	BULB2
Nov-10	0.2 J	0.5 U	2.3	4.1
Apr-11	0.3 J	0.7 U	0.5 U	0.5 U
Apr-11 (DUP)	--	0.1 J	--	--
Oct-11	0.3 J	0.1 J	0.5 U	0.5 U
Oct-11 (DUP)	--	0.7 U	--	--
Apr-12	0.4 J	0.1 J	0.5 U	0.5 U

Notes:

Results for benzene are reported in in µg/L.

California MCL is 1 µg/L, the federal MCL is 5 µg/L.

µg/L Micrograms per liter

J Estimated Result

MCL Maximum contaminant level

U Not detected at reporting limit

Carbon tetrachloride was detected at location CTP at concentrations exceeding the federal MCL of 5 µg/L during all four rounds of sampling, averaging 19 µg/L. Carbon tetrachloride has also been detected in some of the piezometer locations downgradient of location CTP (see [Figure 10](#)) at concentrations around 1 µg/L, which exceeds the California MCL of 0.5 µg/L. No source of carbon tetrachloride has been identified in the immediate area or upgradient of the piezometer CTP. The concentrations of carbon tetrachloride at location CTP are considered a new data gap which were further investigated as part of the Phase III Field Sampling Plan (Tetra Tech 2012c). Carbon tetrachloride was also detected at location B185 in all samples, averaging approximately 4 µg/L, but was not detected at any downgradient locations. Carbon tetrachloride detections at this location will continue to be monitored as part of the continued annual groundwater monitoring program.

The remaining five compounds (1,2-dichloroethane, cis-1,2-dichloroethene, PCE, TCE, and vinyl chloride) are chlorinated solvents. The concentrations of these compounds exceeding the MCLs were predominantly detected along the eastern RFS property boundary.

- Concentrations of 1,2-dichloroethane exceeding the California MCL of 0.5 µg/L were detected at locations B120, B163, B185, B195, and B197 – all of which are located in the along the southeastern property line. Results from all four rounds of sampling at location B163 exceed the federal MCL of 5 µg/L.
- Cis-1,2-dichloroethene was detected in two samples at concentrations exceeding the California MCL of 6 µg/L, and in one sample (87 µg/L) exceeding the federal MCL of 70 µg/L at location PZ11.
- PCE was detected at concentrations exceeding the California and federal MCLs of 5 µg/L at locations PZ11 and B163.
- Vinyl chloride was detected at concentrations exceeding the California and federal MCLs of 5 and 0.5 µg/L at locations PZ11 and B163, and none of the concentrations exceed the federal MCL of 2 µg/L.

TCE was detected at 34 of the 50 piezometer locations at the RFS. [Figure 11](#) shows all of the detected concentrations of TCE during the four rounds of sampling. The majority of the detected concentrations are located near the eastern property boundary, with the highest concentrations near the Corporation Yard, although there are detectable levels of TCE across the RFS.

Little to no seasonal influence is apparent in VOC concentrations between the dry and wet season sampling. The first round of sampling does tend to have higher concentrations than the subsequent three rounds; however, this could be due to the use of a different laboratory for the first event.

As a follow-up to the first three rounds of sampling which indicated the presence of TCE in the groundwater in the Corporation Yard, UC Berkeley collected soil samples at 12 locations, at depths from the ground surface to just above groundwater, and submitted the samples for VOC analysis (see [Figure 12](#)). All but two of these samples were ‘non-detect’ for PCE and TCE (Tetra Tech 2012d). In addition, DTSC requested that Zeneca place soil gas wells near the property boundary to better understand the concentrations of VOCs in soil gas. The locations of the soil gas wells are shown on [Figure 12](#). Additional soil samples were collected adjacent to soil gas well SG-121 at location CY19 in August 2012 as part of UC Berkeley’s Phase III Field Sampling Plan to investigate soil near soil gas well SG-121. Samples were collected between 0 to 0.5, 2 to 2.5, 4 to 4.5, and 6 to 6.5 feet bgs; the results were non-detect for all VOCs except acetone in all the soil samples.

In addition to the chemical data analyzed, depth to groundwater data were used to create groundwater contours for the RFS and Campus Bay. While some seasonal variation does exist (see [Figures 4 through 7](#)), the general groundwater flow direction along the property boundary is to the southwest (in the direction from Campus Bay to RFS).

Piezometers along the property boundary will continue to be sampled on an annual basis; any significant changes in VOC concentrations may result in additional investigation. At present, these concentrations are not considered a new data gap and no additional investigation on the RFS side of the property boundary is recommended. VOCs will continue to be sampled for during the continued annual groundwater monitoring, and the data will be analyzed for any trends that may emerge.

7.2 SEMIVOLATILE ORGANIC COMPOUNDS

All groundwater samples were submitted for analysis of SVOCs by EPA Method 8270 and PAHs by EPA Method 8270-SIM. SVOCs were detected infrequently across the RFS. Sixteen of 73 target SVOC analytes were detected:

- 1,4-Dioxane
- 1-Methylnapthalene
- 3/4-Methylphenol
- 4-Methylphenol
- Acenaphthene
- Acenaphthylene
- Anthracene
- Benzoic acid
- Benzyl alcohol
- bis(2-ethylhexyl)phthalate
- Diethylphthalate
- Fluoranthene

- Fluorene
- Naphthalene
- Phenanthrene
- Pyrene

The detected results are presented in [Table 13](#). With the exception of bis(2-ethylhexyl)phthalate, there are no MCLs for the detected compounds. Concentrations of bis(2-ethylhexyl)phthalate exceeded the federal MCL of 6 µg/L in two samples, at two different piezometer locations (B128 and MFA). 1,4-Dioxane was detected at more than half of the piezometer locations at concentrations ranging from 0.03 µg/L to 12 µg/L. The locations of the detections correlate with locations where TCE was detected along the property boundary near the Corporation Yard.

The remainder of the detected SVOC concentrations appear sporadic and trends have not been identified. Compounds including 3/4-methylphenol, 4-methylphenol, anthracene, benzoic acid, benzyl alcohol, diethylphthalate, and phenanthrene were detected at one location during one event each. 1-Methylnaphthalene and acenaphthene were detected in three samples in three piezometers, and acenaphthylene was detected in one piezometer, B300, during three sampling events. Fluoranthene and fluorene were detected at two piezometers (EPA and ETA) during two sampling events. Naphthalene was detected at ten locations, and pyrene was detected at three locations. In the samples collected in April 2012, eight of the SVOC compounds were detected at location EPA, but were not detected in the duplicate collected, supporting that the detections do not represent significant or duplicable contamination. SVOCs will continue to be sampled during the continued annual groundwater monitoring.

7.3 METALS

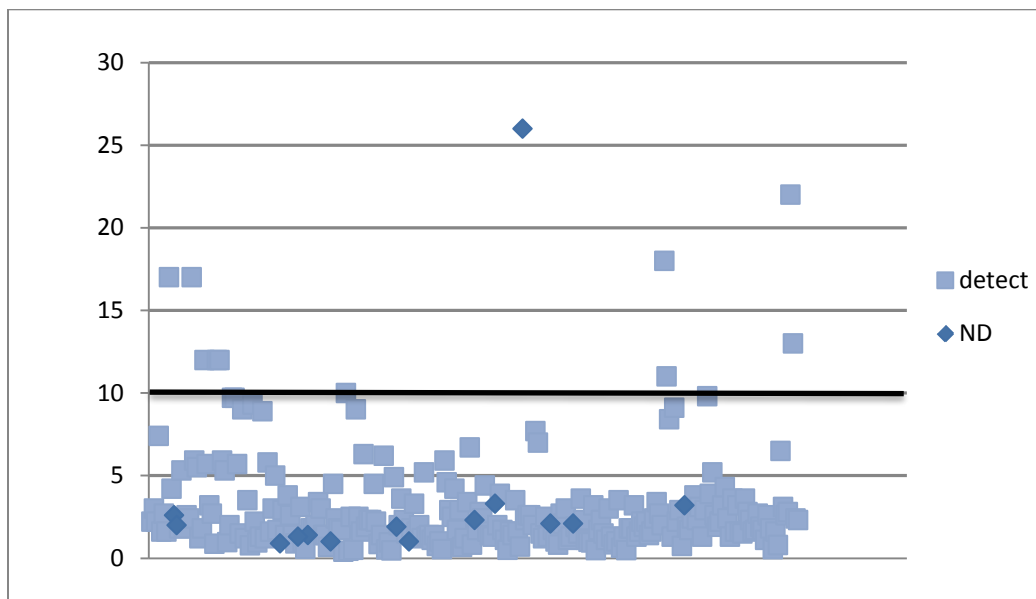
All samples were submitted for metals analysis for all four rounds of sampling. The November 2010 event samples were submitted to the EPA Region 9 Laboratory for analysis of total (unfiltered) metals. Samples collected in April 2011 and October 2011 were submitted to Curtis and Tompkins Laboratory for lab-filtering and metals analysis. Unfiltered metals analysis was conducted during all sampling events for samples collected at 11 piezometers (FG, B474, EERC, PZ11, B195, CCC2, WTA, B163, ETA, Bulb1, and Bulb2) to confirm unfiltered concentrations identified during the first round of groundwater sampling in November 2010. The samples collected in April 2012 were also submitted to Curtis and Tompkins for analysis; however, the filtrate samples were field-filtered per DTSC request.

All of the metals sampled for were detected. Detected results are summarized in [Table 11](#) and presented in full in [Table 14](#). Of the 24 metals sampled, 7 were detected at concentrations exceeding their respective MCLs:

- Aluminum (California MCL only)
- Arsenic
- Cadmium
- Chromium (unfiltered only)
- Copper (unfiltered only)
- Lead (unfiltered only)
- Mercury
- Nickel
- Selenium (filtered only)

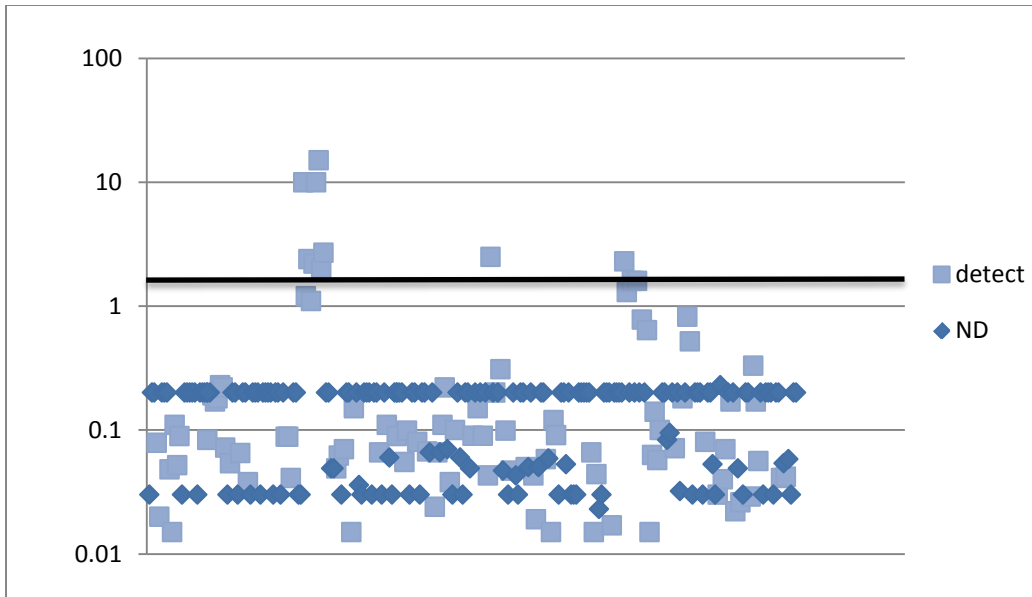
Results for metals that exceeded the California or federal MCLs for both unfiltered and filtered samples are presented below.

- Aluminum was detected in 71 of the 85 unfiltered samples, ranging in concentration from 7.9 to 30,000 $\mu\text{g/L}$. Results from three locations (four samples) exceeded the MCL of 1,000 (ETA, FG, and PZ11). Additionally, aluminum was detected in 22 of the 152 filtered samples, ranging in concentrations from 6.5 to 1,200 $\mu\text{g/L}$. The maximum concentration, from location PZ11, exceeds the California MCL; there is no federal MCL for aluminum. Concentrations of aluminum detected do not support any trends.
- Arsenic was detected in 84 of the 85 unfiltered samples, with concentrations ranging from 0.32 to 22 $\mu\text{g/L}$. Five sample results from three piezometers (Bulb1, EERC, and ETA) exceeded the California and federal MCLs of 10 $\mu\text{g/L}$. Concentrations exceeded the MCL during the first and second round of sampling at Bulb1 and ETA, but did not exceed the MCL during the subsequent rounds. At piezometer EERC, concentrations exceeded the MCL in one round of sampling only. Additionally, arsenic was detected in 140 of the 152 filtered samples, with concentrations ranging from 0.39 to 18 $\mu\text{g/L}$; concentrations at three locations, B197, Bulb1, and DH met or exceeded the California MCL and federal MCL. Arsenic concentrations exceeded MCLs at Bulb1 during the second and third rounds of sampling; however, the sample result was below the MCLs during the last round of sampling. Arsenic also met or exceeded the MCLs in piezometers DH and B197 during one round of sampling each (April 2012). These exceedances appear to be localized as arsenic was generally not detected above MCLs in up-gradient piezometers from Bulb1 and ETA, and mercury was generally not detected above MCLs in piezometers down-gradient of B195, with few exceptions. Arsenic concentrations are plotted below. These piezometers will continue to be sampled annually to assess whether the arsenic concentrations increase or decrease with time.



Plot of all arsenic concentrations – California and federal MCL – 10 $\mu\text{g/L}$, shown as black line on graph

- Cadmium was detected in 28 of 85 unfiltered samples; six of those samples exceeded the California MCL and federal MCL of 5 µg/L at locations B163 and PZ11, as well as CTP. Additionally, cadmium was detected in 51 of the 152 filtered samples at two of the same locations, B163 and PZ11, in multiple rounds of sampling. Piezometers B163 and PZ11 are located near the eastern property boundary where Campus Bay has recently performed pilot studies of substrate injections for VOC degradation. The elevated concentrations of metals at these locations may be due to the reducing conditions in the soil created by the pilot study. These metals were not detected at other locations exceeding their MCLs. Additionally, concentrations of contaminants were slightly higher during the dry season (April to October), which include the April 2011 and April 2012 sampling event; the cause of this increase is not known. Piezometer PZ11 is included in the pilot study performance monitoring being conducted at Campus Bay to assess the effectiveness of substrate injections at reducing VOC concentrations in groundwater underlying the northeastern portion of the RFS and the northwestern portion of Campus Bay. The pilot study report was submitted in September 2012. Piezometer B163 will continue to be monitored annually as part of the continued groundwater monitoring program.
- Chromium was detected in 66 of 85 unfiltered samples; the sample from location FG exceeded the California MCL of 50 µg/L, but not the federal MCL of 100 µg/L. Chromium concentrations did not exceed the MCLs in filtered samples.
- Copper was detected in 58 of the 85 unfiltered samples; the sample from location PZ11, close to the eastern property boundary, exceeded the California and federal MCL of 1,300 µg/L. No unfiltered sample results exceeded the MCLs.
- Lead was detected in 20 of the 85 unfiltered samples; the sample from location FG exceeded the California and federal MCL of 15 µg/L. Lead concentrations did not exceed MCLs in any of the 152 filtered samples collected.
- Mercury was detected in 31 of the 152 unfiltered sampling locations and in 31 or 152 filtered samples. The unfiltered mercury concentrations at location B195 exceeded the California and federal MCLs of 2 µg/L during every sampling round, and exceeded the MCLs at Bulb2 and ETA during the first sampling round. In the unfiltered samples, concentrations at location B195 exceeded the MCLs in the last two rounds of sampling. These exceedances appear to be localized as mercury was generally not detected above MCLs in piezometers down-gradient of B195, with few exceptions. The mercury concentrations are plotted below. Piezometer B195 will continue to be sampled annually to assess whether the mercury concentrations increase or decrease with time.



Plot of all mercury concentrations (logarithmic scale) – California and federal MCL – 2 µg/L, shown as black line on graph

- Nickel was detected in 77 of the 85 unfiltered samples, with values at locations B163 and PZ11 exceeding the California MCL of 100 µg/L in all found rounds of sampling. Concentrations of nickel also exceeded the MCL at location FG during the first round of sampling. Additionally, nickel was detected in 95 of the 152 filtered samples. Samples collected at location PZ11 exceeded the California MCL during the last three rounds of sampling, and samples at location B163 exceeded the MCL during the third round of sampling. There is no federal MCL for nickel.
- Concentrations of selenium did not exceed the California and federal MCL of 50 µg/L in any unfiltered samples. Selenium was detected at 53 of the 152 unfiltered sampling locations, and the concentration at location B150 during the last round of sampling exceeded the MCLs. Concentrations of selenium do not support any trends.

The infrequent exceedance of MCLs in groundwater samples collected over the four rounds of monitoring does not indicate a new data gap and no additional remedial work is warranted at this time. Dissolved metals will continue to be sampled for during the continued annual groundwater monitoring.

7.4 TOTAL PETROLEUM HYDROCARBONS

All samples were submitted for TPH analysis. Motor-oil range TPH was detected in two samples, and diesel and gasoline were detected at low levels at multiple locations, but lacked consistency of location or concentration (see [Table 15](#)). There are no established California or federal MCLs for TPH and a review of the detected data revealed no trends.

7.5 POLYCHLORINATED BIPHENYLS

Samples were collected for PCBs during the November 2010 event only. Aroclor-1248 was detected at one of 51 locations, with an estimated concentration of 0.09 µg/L, which does not exceed the California MCL for PCBs of 0.5 µg/L. Analytical results for PCBs are presented in [Attachment 6](#).

7.6 PERCHLORATES

Samples were collected for perchlorates during the November 2010 event only. Perchlorate was detected at three of 51 locations, with concentrations ranging from 1.6 to 3.1 µg/L. These concentrations do not exceed the California MCL for perchlorate of 6 µg/L. Analytical results for perchlorates are presented in [Attachment 6](#).

7.7 TOTAL DISSOLVED SOLIDS

TDS concentrations across RFS are generally below 2000 milligrams per liter (mg/L), as seen in [Figure 13](#). In the Bulb and transition area, TDS levels are higher, likely due to the effects of the seawater at the marsh. In addition, TDS levels are elevated at piezometers DH and EERC. The elevated TDS levels near the EPA building and former dry house could be due to historic saltwater intrusion to the adjacent storm line during high tide or surge events. The cause of the elevated TDS levels near the EERC building is unknown. [Figure 13](#) presents TDS concentrations and contours from the November 2010 sampling event (Round 1). Round 1 concentrations are representative of conditions present during all rounds of sampling as the TDS levels are generally consistent among events; [Attachment 6](#) presents TDS concentrations measured in all sampling events.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Review of the data collected during the four rounds of Phase I groundwater sampling has satisfied the groundwater data gap identified in the Current Conditions Report. The groundwater results confirm the known volatile contaminants along the eastern property boundary and provide additional support that there are no significant or moderate previously unknown groundwater concerns at the property. Although several chemicals exist at concentrations exceeding the California MCLs and/or the federal MCLs, there are no current or future plans to use groundwater at the RFS as a drinking water source and no additional data gaps have been identified. While the MCLs provide a conservative screening value to compare groundwater data, exceeding an MCL does not warrant the identification of a new data gap or support remedial evaluation at this time. The majority of compounds analyzed as part of the shallow groundwater investigation were non-detect and with the exception of VOCs detected along the eastern property boundary and the carbon tetrachloride at piezometer CTP, no contaminant issues in the shallow groundwater have been identified at the RFS.

Aside from location CTP, the current groundwater and soil sampling data do not indicate that significant or measurable surface spills or soil contamination (if any) has leached to groundwater, which was one of the data gaps identified in the Current Conditions Report. Soil or soil gas sampling will continue within subsequent FSP phases to investigate remaining data gaps not addressed through groundwater characterization.

Annual groundwater monitoring is recommended at a subset of the 50 shallow piezometers to evaluate ongoing groundwater conditions at RFS. Monitoring will consist of chemical analysis at piezometers with sample results exceeding one-half of either the California or federal MCL during any of the previous four monitoring events. Chemical analysis will be conducted in future events for the analytes which exceeded one-half the California or federal MCL. For example, if a groundwater result indicated an exceedence of one-half the MCL for a VOC but did not indicate an exceedence of one-half the MCL for SVOCs or metals, then that sample will be analyzed for VOCs only. All samples collected for metals analysis will be field filtered; unfiltered metals samples will not be used. In addition to chemical analysis, depth to water and other water quality parameters will be measured consistent with previous Phase I groundwater sampling events. Annual sampling is recommended due to the lack of significant variation in the sample results reported between wet (April) and dry (October/November) seasonal events, as presented in [Section 6.0](#).

Proposed continued groundwater monitoring locations are shown on [Figure 14](#), and the proposed analyte list is below. The annual sampling is recommended to be conducted in April of each calendar year. Depth to groundwater measurements will continue to be collected bi-annually at all 50 shallow and 4 deep piezometers to continue the comprehensive assessment of seasonal groundwater flow.

Piezometers Recommended for Future Annual Sampling			
Point Location ID	VOCs (EPA Method 8260B)	SVOCs (EPA Method 8270C)	Field Filtered Metals (EPA Method 6020A/7400 Series)
B120	X		
B128		X	X
B150			X
B158			X
B163	X	X	X
B175S	X		X
B175W	X		
B178	X		X
B180		X	
B185	X		
B195	X		X
B197	X		X
B277	X		
B278	X		
B280A	X	X	
B450	X		X
B473	X		
B474			X
B480	X		X
Bulb1	X		X
Bulb2	X	X	X
CCC2	X	X	X
CCC3	X		X
CCCT	X		
CTP	X	X	X
DH			X
EERC	X		X
EPA	X	X	
ETA	X		X
FG			X
GEO	X		
MFA	X	X	
NRLF			X
PZ11	X		X
PZ8			X
PZ9	X		
RWF	X		

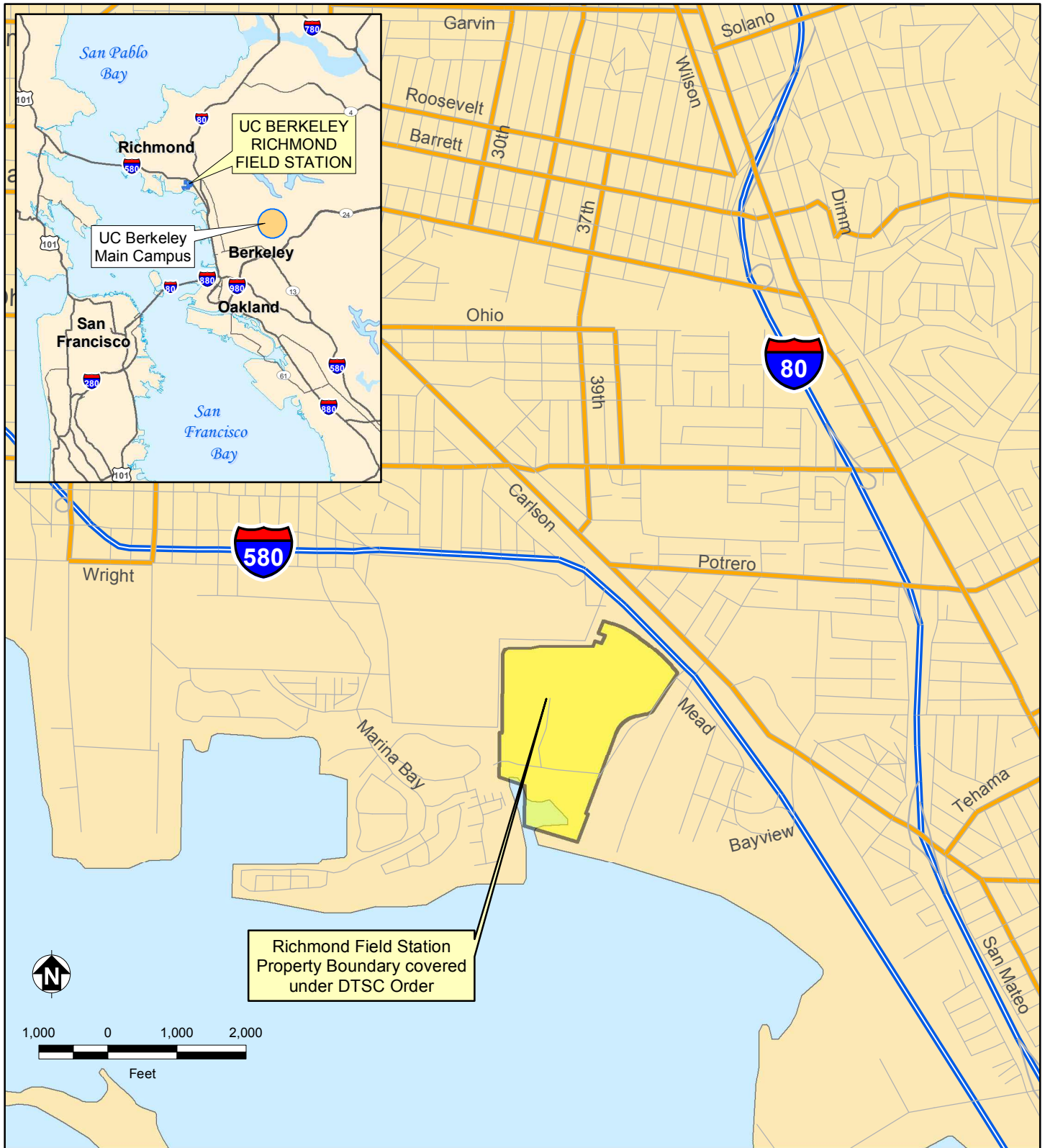
Piezometers Recommended for Future Annual Sampling (Continued)			
Point Location ID	VOCs (EPA Method 8260B)	SVOCs (EPA Method 8270C)	Field Filtered Metals (EPA Method 6020A/7400 Series)
TP1	X		X
TP2	X		
WTA	X	X	

Following the first annual event in April 2013, UC Berkeley will submit a technical memorandum prior to each continued sampling event confirming the proposed locations and analytes.

9.0 REFERENCES

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- Tetra Tech. 2011a. Final Phase I Groundwater Sampling Results, Technical Memorandum, University of California, Berkeley, Richmond Field Station, Richmond, California. August 22.
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- Tetra Tech. 2012d. Final FSP Phase II Sampling Results, Technical Memorandum, University of California, Berkeley, Richmond Field Station, Richmond, California. June 22.
- U.S. Environmental Protection Agency (EPA). 2002. Guidance for Quality Assurance Project Plans. Document Number EPA QA/G-5. December.
- EPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review.” Document Number EPA-540-R-08-01. June.
- EPA. 2010. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review.” Document Number EPA-540-R-10-011. January.

FIGURES



Richmond Field Station
Property Boundary covered
under DTSC Order



Richmond Field Station
University of California, Berkeley

FIGURE 1
SITE LOCATION MAP

Phase I Groundwater Sampling Results





<ul style="list-style-type: none"> Bay Trail Meeker Slough Western Stege Marsh Transition Area (Including Bulb) Upland 	<ul style="list-style-type: none"> Property Boundary Approximate Property Boundary
--	---

Notes:

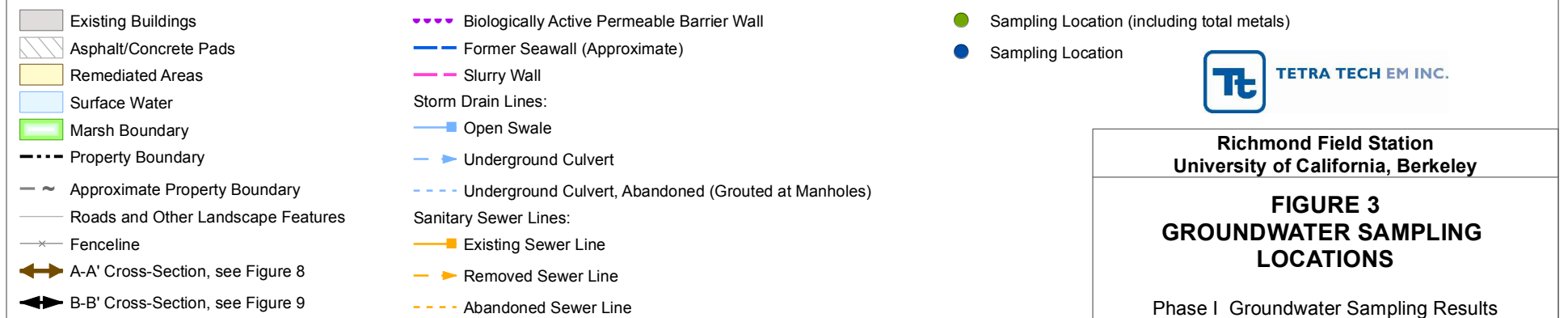
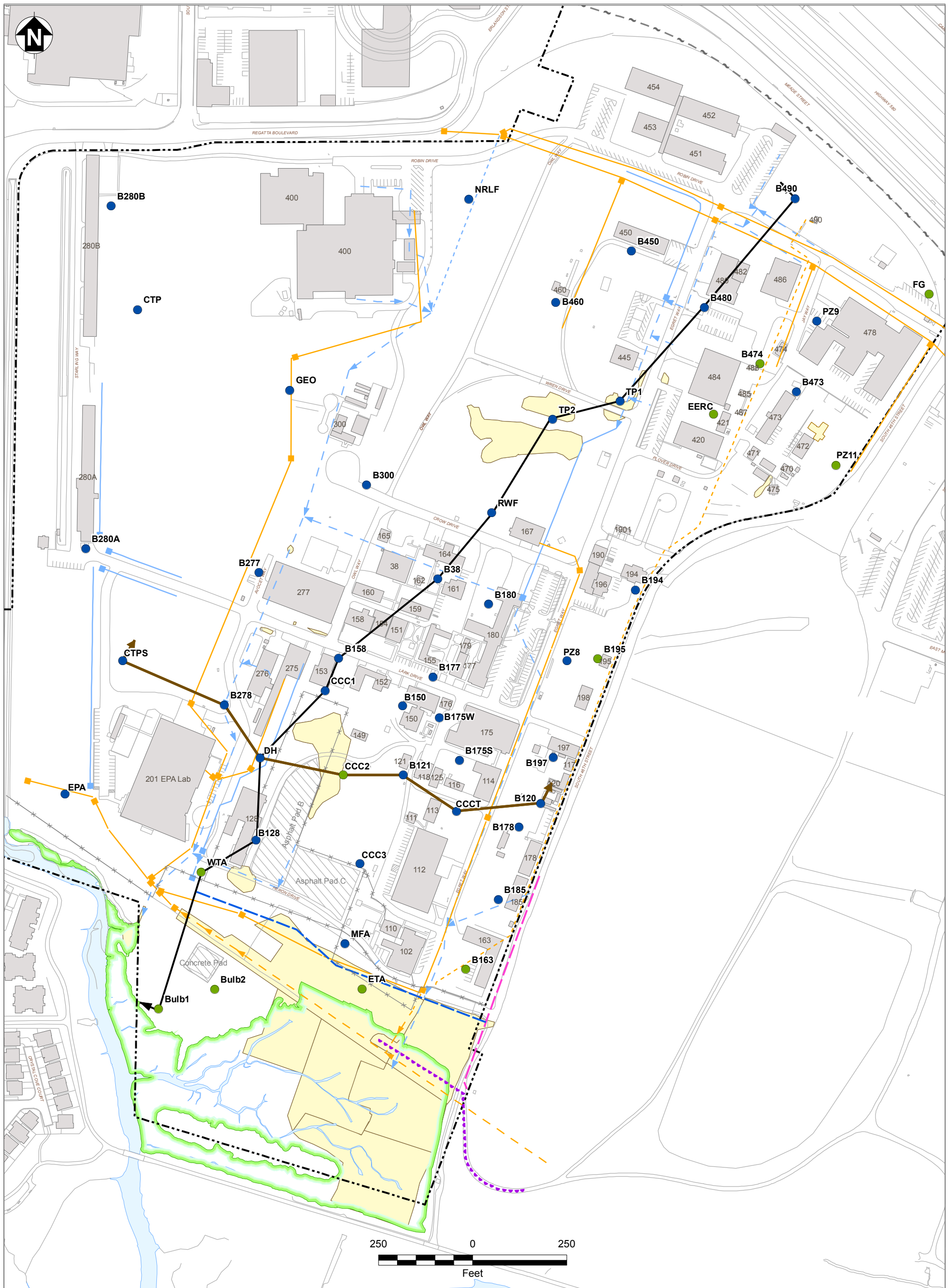
EBRPD	East Bay Regional Parks District
EERC	Earthquake Engineering Research Center
EPA	Environmental Protection Agency
NRLF	Northern Regional Library Facility
RFS	Richmond Field Station



**Richmond Field Station
University of California, Berkeley**

**FIGURE 2
SITE MAP**

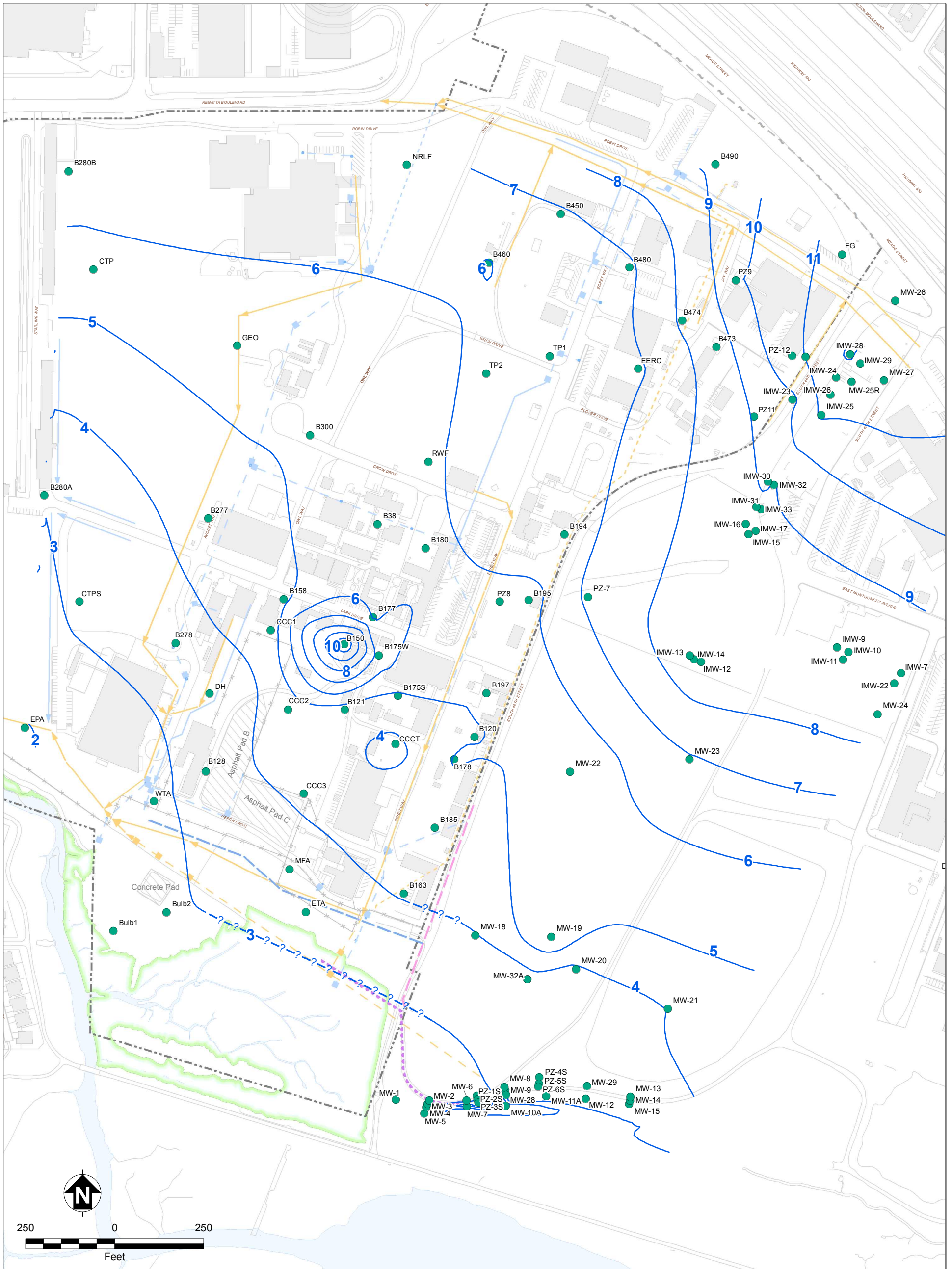
Phase I Groundwater Sampling Results




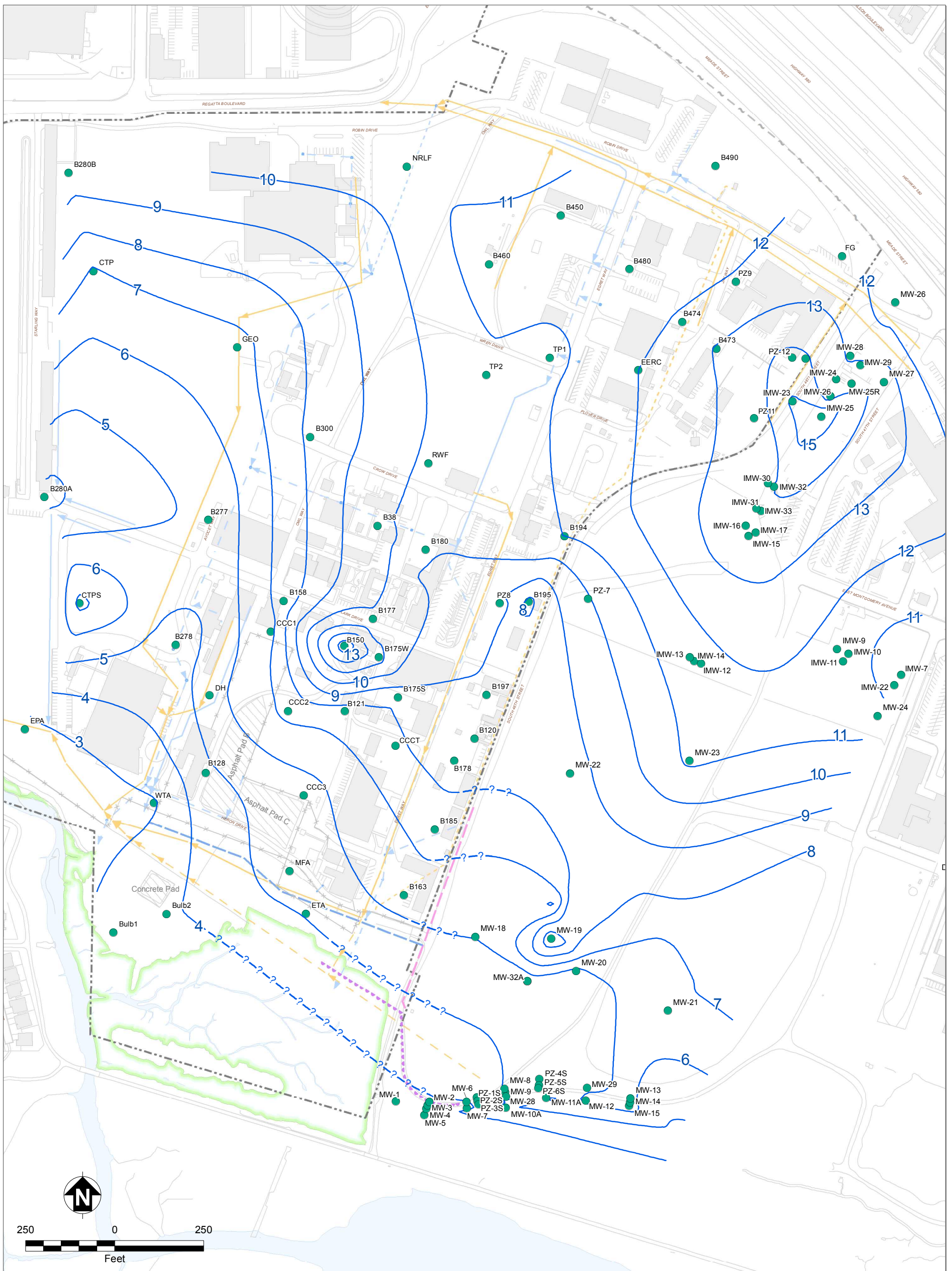
**Richmond Field Station
University of California, Berkeley**

**FIGURE 3
GROUNDWATER SAMPLING
LOCATIONS**

Phase I Groundwater Sampling Results



<ul style="list-style-type: none"> ● Piezometer Location — November 2010 Groundwater Contours - - - Contour Estimated due to Proximity to BAPB Wall, Slurry Wall, or Marsh ■ Existing Building ▨ Asphalt/Concrete Pad ■ Surface Water ■ Marsh Boundary - - - Property Boundary - ~ - Approximate Property Boundary — Roads and Other Landscape Features — Fenceline — Biologically Active Permeable Barrier Wall — Former Seawall (Approximate) — Slurry Wall 	<p>Storm Drain Lines:</p> <ul style="list-style-type: none"> — Open Swale — Underground Culvert — Underground Culvert, Abandoned (Grouted at Manholes) <p>Sanitary Sewer Lines:</p> <ul style="list-style-type: none"> — Existing Sewer Line — Removed Sewer Line — Abandoned Sewer Line <p>Note: BAPB biologically active permeable barrier bgs below ground surface ft feet Groundwater contours given in feet above mean sea level Datum : NAD 83 CA State Plane Zone III</p>	 <p>Richmond Field Station University of California, Berkeley</p> <p>FIGURE 4 SHALLOW GROUNDWATER ELEVATION CONTOURS, NOVEMBER 1, 2010</p> <p>Phase I Groundwater Sampling Results</p>
---	--	---



- Piezometer Location
- April 2011 Groundwater Contours
- ? Contour Estimated due to Proximity to BAPB Wall, Slurry Wall, or Marsh
- Existing Building
- ▨ Asphalt/Concrete Pad
- Surface Water
- Marsh Boundary
- - - Property Boundary
- ~ - ~ Approximate Property Boundary
- Roads and Other Landscape Features
- Fenceline
- Biologically Active Permeable Barrier Wall
- Former Seawall (Approximate)
- Slurry Wall

- Storm Drain Lines:**
- Open Swale
- Underground Culvert
- - - Underground Culvert, Abandoned (Grouted at Manholes)
- Sanitary Sewer Lines:**
- Existing Sewer Line
- Removed Sewer Line
- - - Abandoned Sewer Line

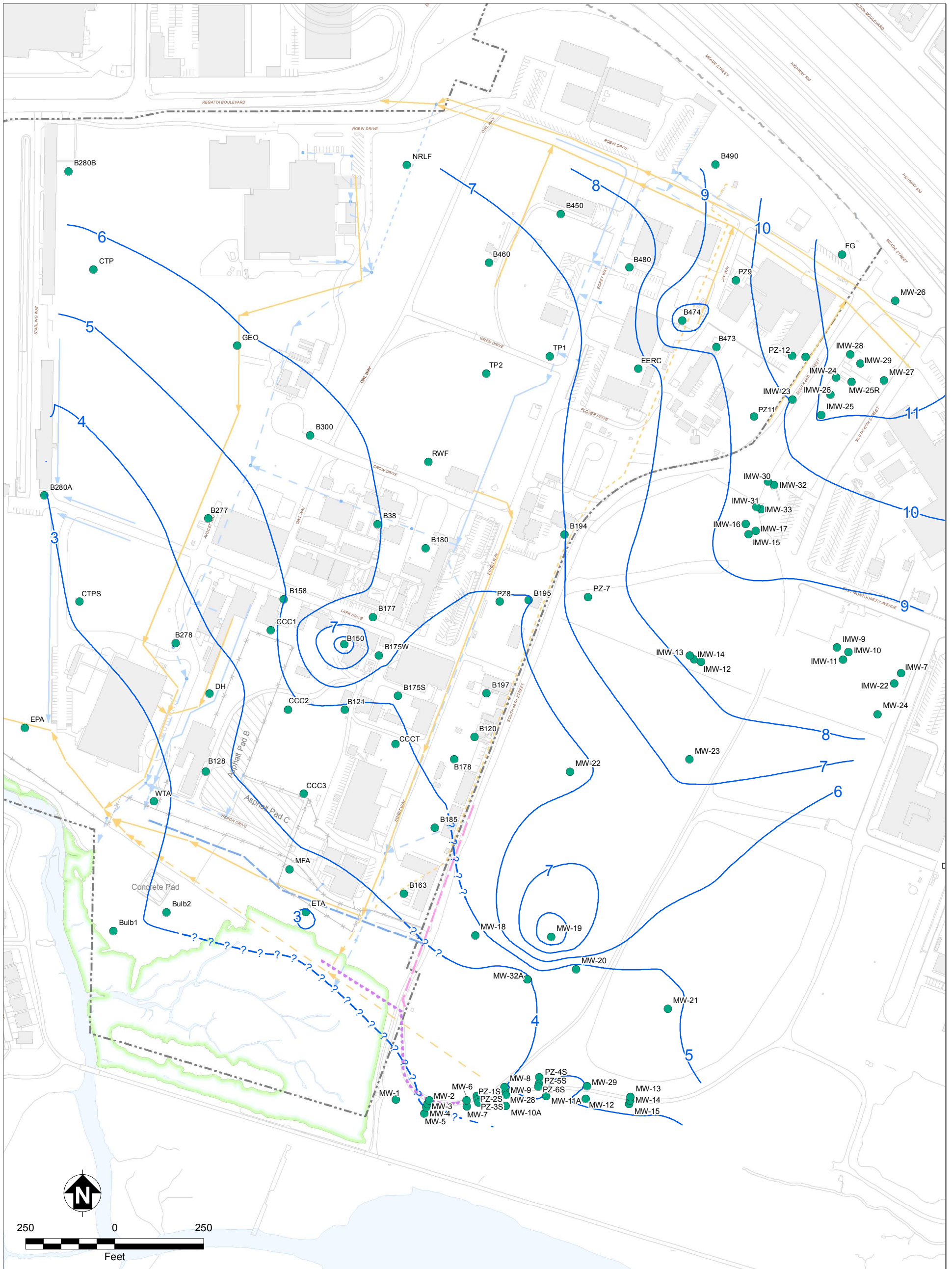
Note:
 BAPB biologically active permeable barrier
 bgs below ground surface
 ft feet
 Groundwater contours given in feet above
 mean sea level




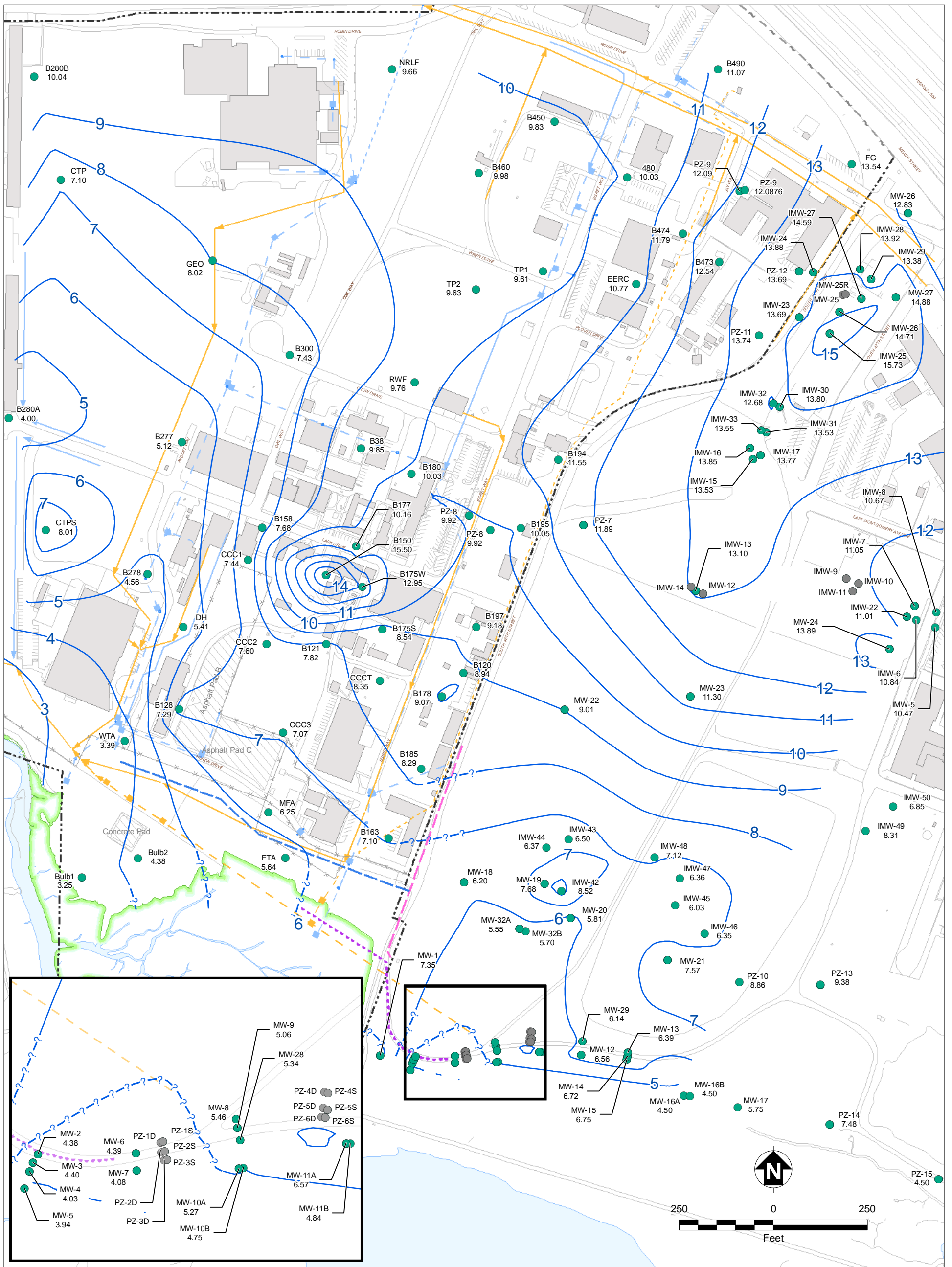
Richmond Field Station
 University of California, Berkeley

**FIGURE 5
 SHALLOW GROUNDWATER
 ELEVATION CONTOURS,
 APRIL 11, 2011**

Phase I Groundwater Sampling Results



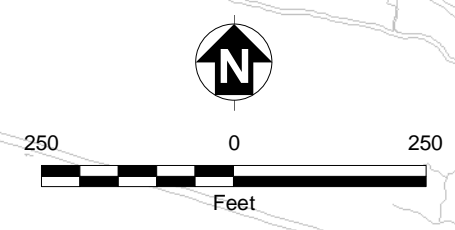
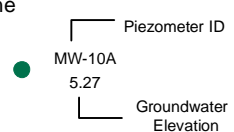
<ul style="list-style-type: none"> ● Piezometer Location — October 2011 Groundwater Contours -? Contour Estimated due to Proximity to BAPB Wall, Slurry Wall, or Marsh ■ Existing Building ▨ Asphalt/Concrete Pad ■ Surface Water ■ Marsh Boundary - - - Property Boundary - ~ Approximate Property Boundary — Roads and Other Landscape Features - x Fenceline ■ Biologically Active Permeable Barrier Wall - - Former Seawall (Approximate) ■ Slurry Wall 	<p>Storm Drain Lines:</p> <ul style="list-style-type: none"> → Open Swale → Underground Culvert - - - Underground Culvert, Abandoned (Grouted at Manholes) <p>Sanitary Sewer Lines:</p> <ul style="list-style-type: none"> → Existing Sewer Line → Removed Sewer Line - - - Abandoned Sewer Line <p>Note: BAPB biologically active permeable barrier bgs below ground surface ft feet Groundwater contours given in feet above mean sea level</p>	 <p>Richmond Field Station University of California, Berkeley</p> <p>FIGURE 6 SHALLOW GROUNDWATER ELEVATION CONTOURS, OCTOBER 3, 2011</p> <p>Phase I Groundwater Sampling Results</p>
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- Piezometer Groundwater Elevation Measured in April 2012
- Piezometer Groundwater Elevation Not Measured in April 2012
- April 2012 Groundwater Contour
- - - Contour Estimated due to Proximity to BAPB Wall, Slurry Wall, or Marsh
- Existing Building
- Asphalt/Concrete Pad
- Surface Water
- Marsh Boundary
- Property Boundary
- Approximate Property Boundary
- Roads and Other Landscape Features
- Fenceline
- Biologically Active Permeable Barrier Wall
- Former Seawall (Approximate)

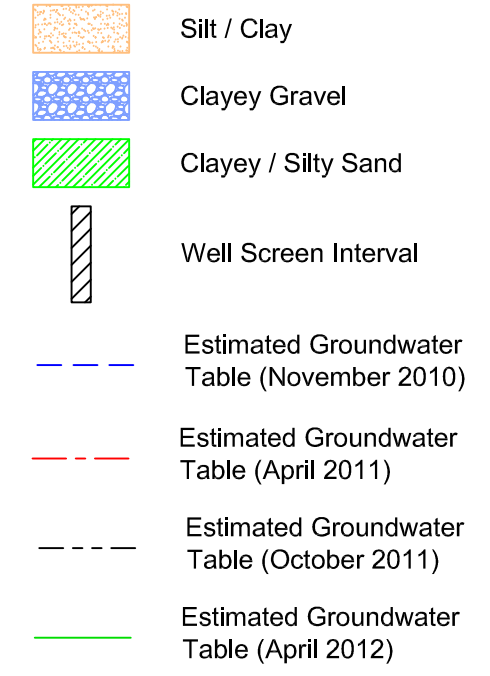
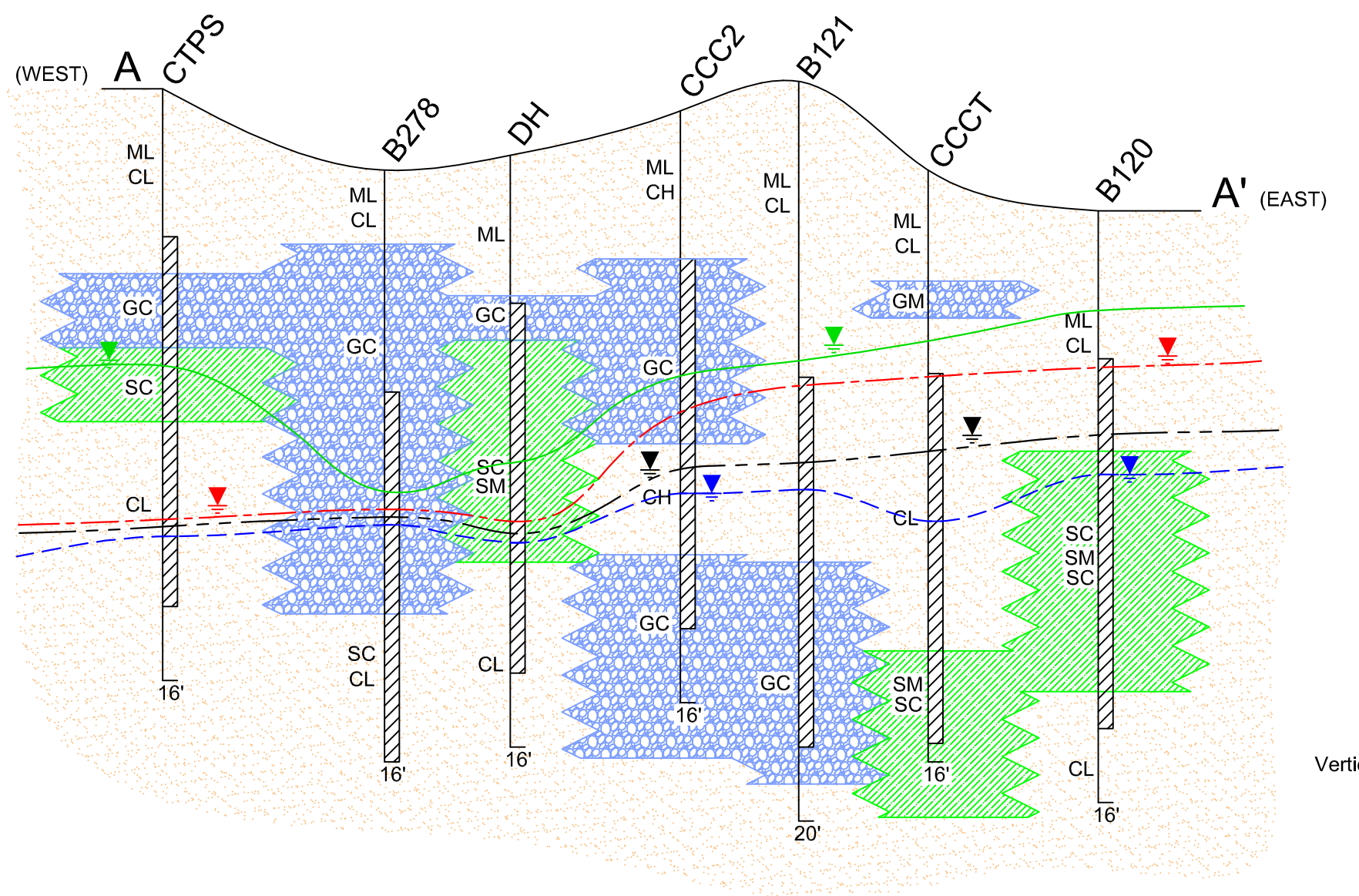
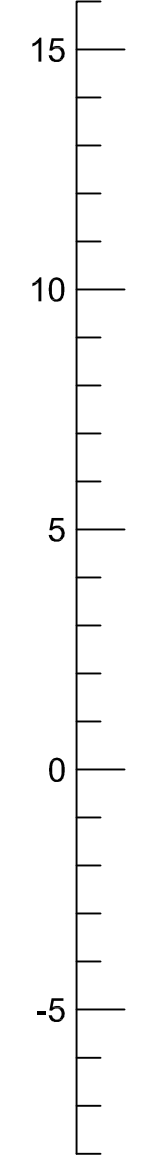
- Slurry Wall
- Storm Drain Lines:**
- Open Swale
- Underground Culvert
- Underground Culvert, Abandoned (Grouted at Manholes)
- Sanitary Sewer Lines:**
- Existing Sewer Line
- Removed Sewer Line
- Abandoned Sewer Line

Notes:
 1. Groundwater contours given in feet above mean sea level.
 2. Groundwater contours were developed for the Richmond Field Station property and land immediately surrounding the property line.
 3. Datum : NAD 83 CA State Plane Zone III



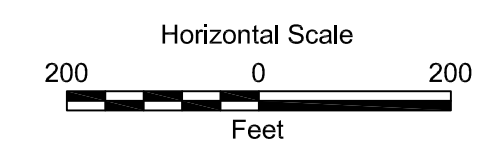
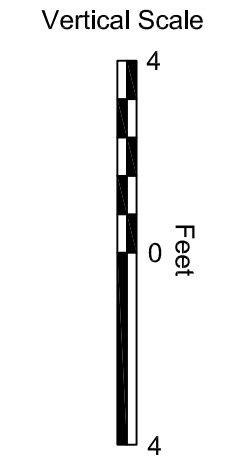
Richmond Field Station
University of California, Berkeley
FIGURE 7
SHALLOW GROUNDWATER
ELEVATION CONTOURS,
APRIL 2, 2012
 Phase I Groundwater Sampling Results

Elevation
(feet mean
sea level)



Unified Soil Classification System

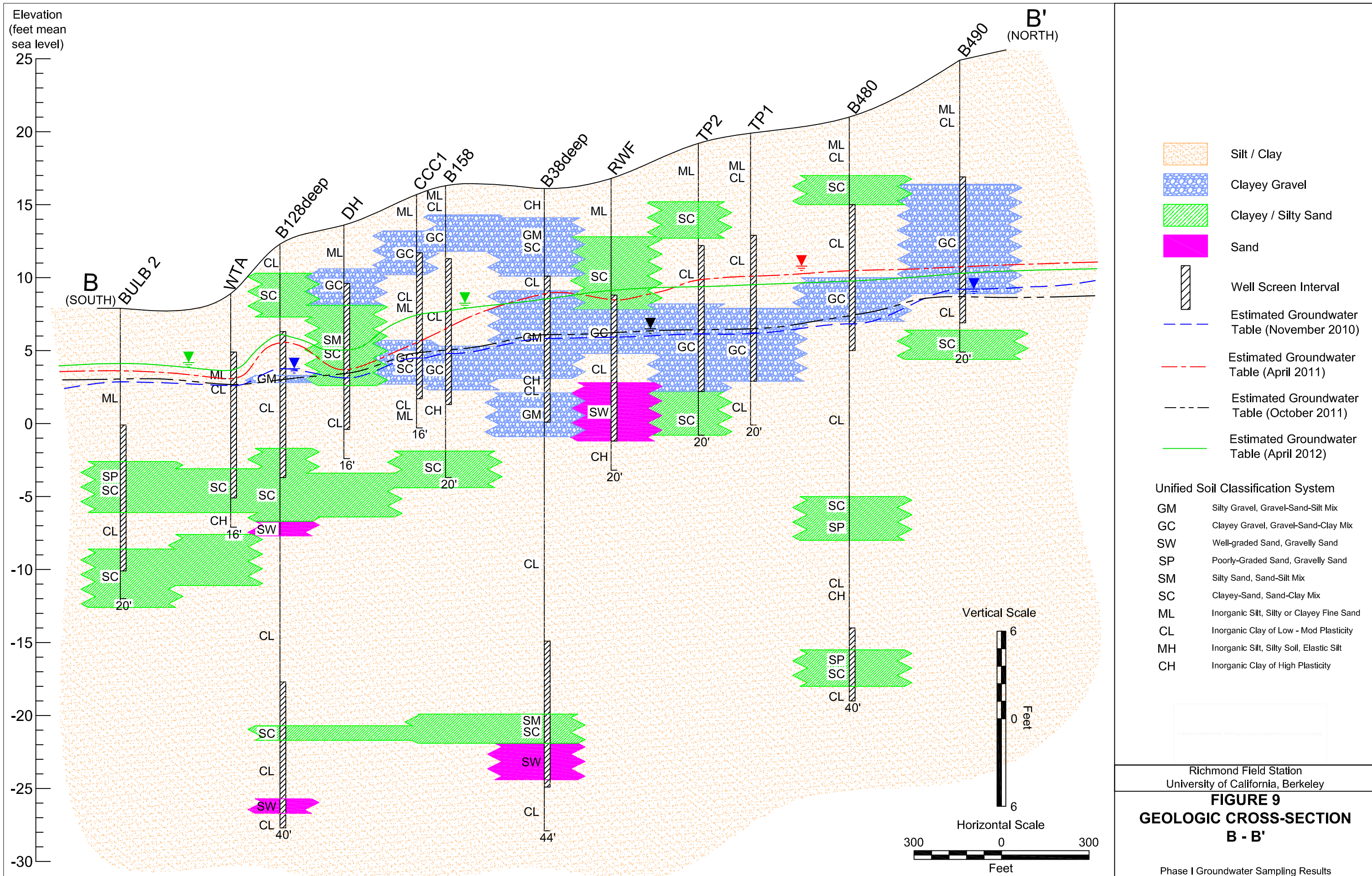
GM	Silty Gravel, Gravel-Sand-Silt Mix
GC	Clayey Gravel, Gravel-Sand-Clay Mix
SW	Well-graded Sand, Gravelly Sand
SP	Poorly-Graded Sand, Gravelly Sand
SM	Silty Sand, Sand-Silt Mix
SC	Clayey-Sand, Sand-Clay Mix
ML	Inorganic Silt, Silty or Clayey Fine Sand
CL	Inorganic Clay of Low - Mod Plasticity
MH	Inorganic Silt, Silty Soil, Elastic Silt
CH	Inorganic Clay of High Plasticity

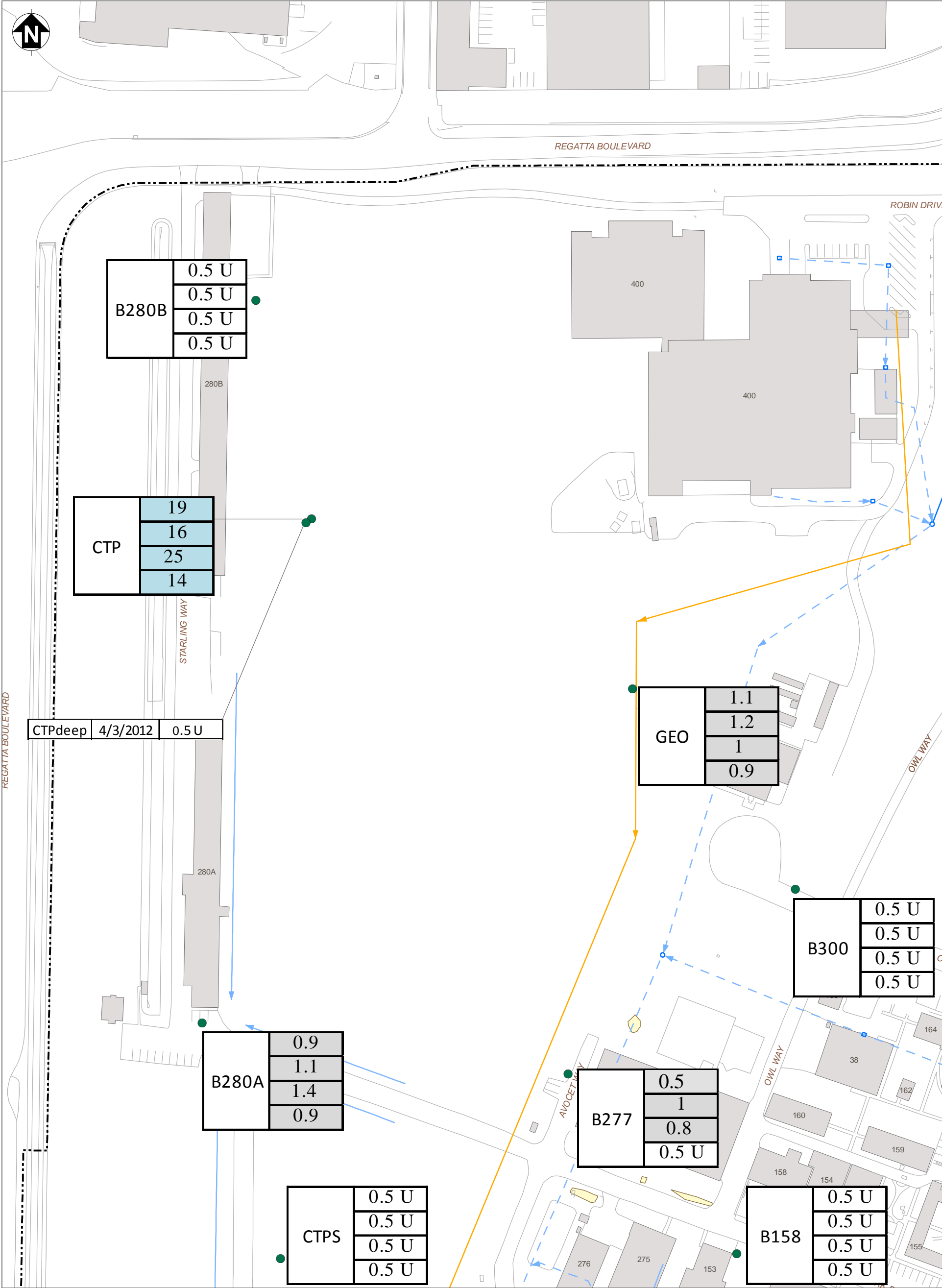


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University of California, Berkeley

FIGURE 8
GEOLOGIC CROSS-SECTION
A - A'

Phase I Groundwater Sampling Results





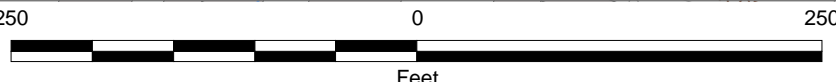
- Existing Buildings
- Asphalt/Concrete Pads
- Remediated Areas
- Property Boundary
- Roads and Other Landscape Features
- Piezometer Location
- Manhole
- Storm Drain Lines:
 - Open Swale
 - Underground Culvert
- Sanitary Sewer Lines:
 - Existing Sewer Line

Notes:
 Only data from the original sample collected from a location is displayed (no duplicate data).

The California MCL for carbon tetrachloride 0.5 ug/L.
 The federal MCL for carbon tetrachloride 5 ug/L.
 Blue highlighting indicates the sample result equals or exceeds the federal MCL.
 Gray highlighting indicates the sample result equals or exceeds the California MCL

Samples are shown in order of collection:
 November 2010
 April 2011
 October 2011
 April 2012

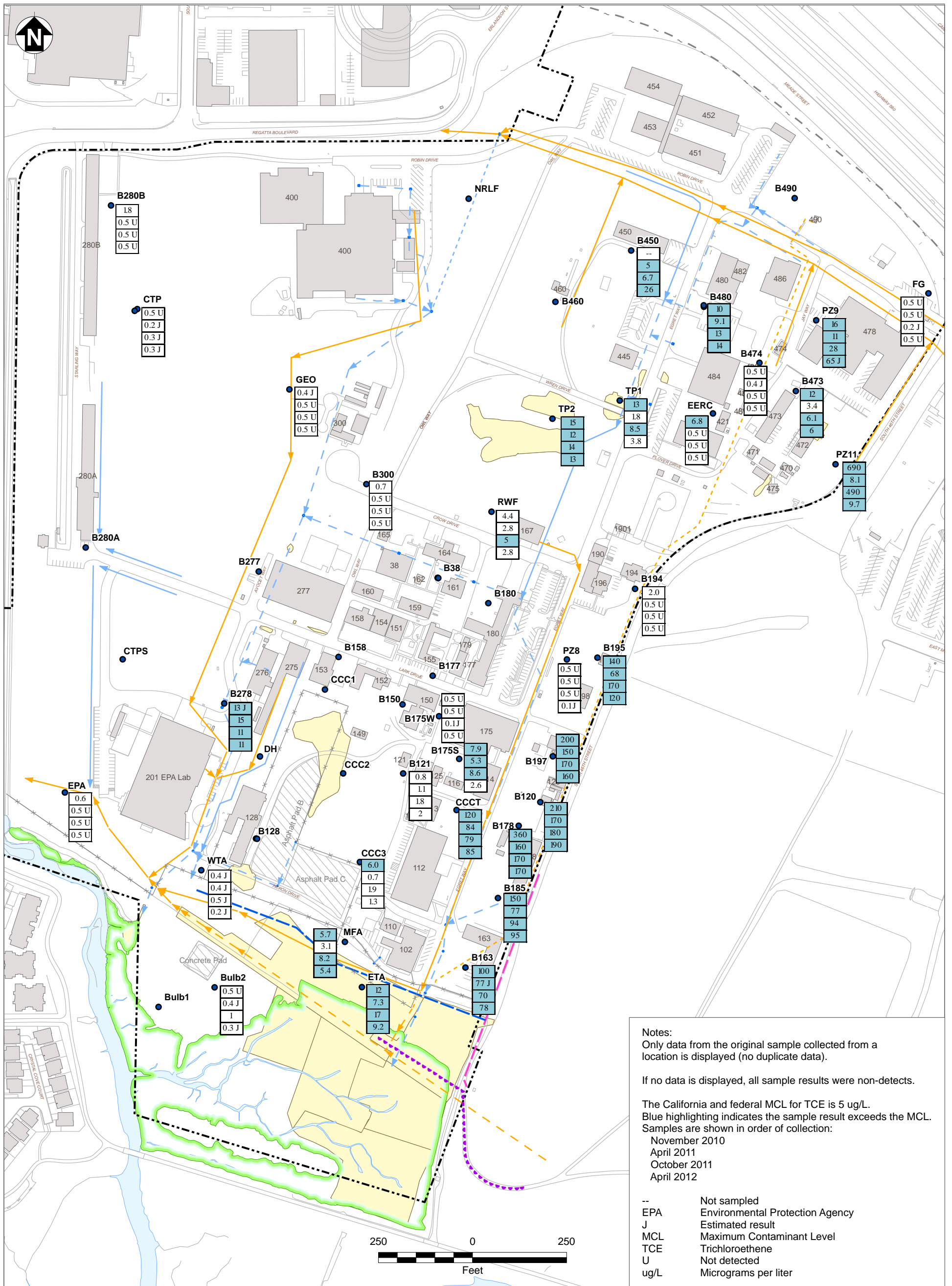
CTP Carbon Tetrachloride Plume
 MCL Maximum Contaminant Level
 U Not detected
 ug/L Micrograms per liter



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University of California, Berkeley

FIGURE 10
CARBON TETRACHLORIDE
RESULTS NEAR PIEZOMETER CTP

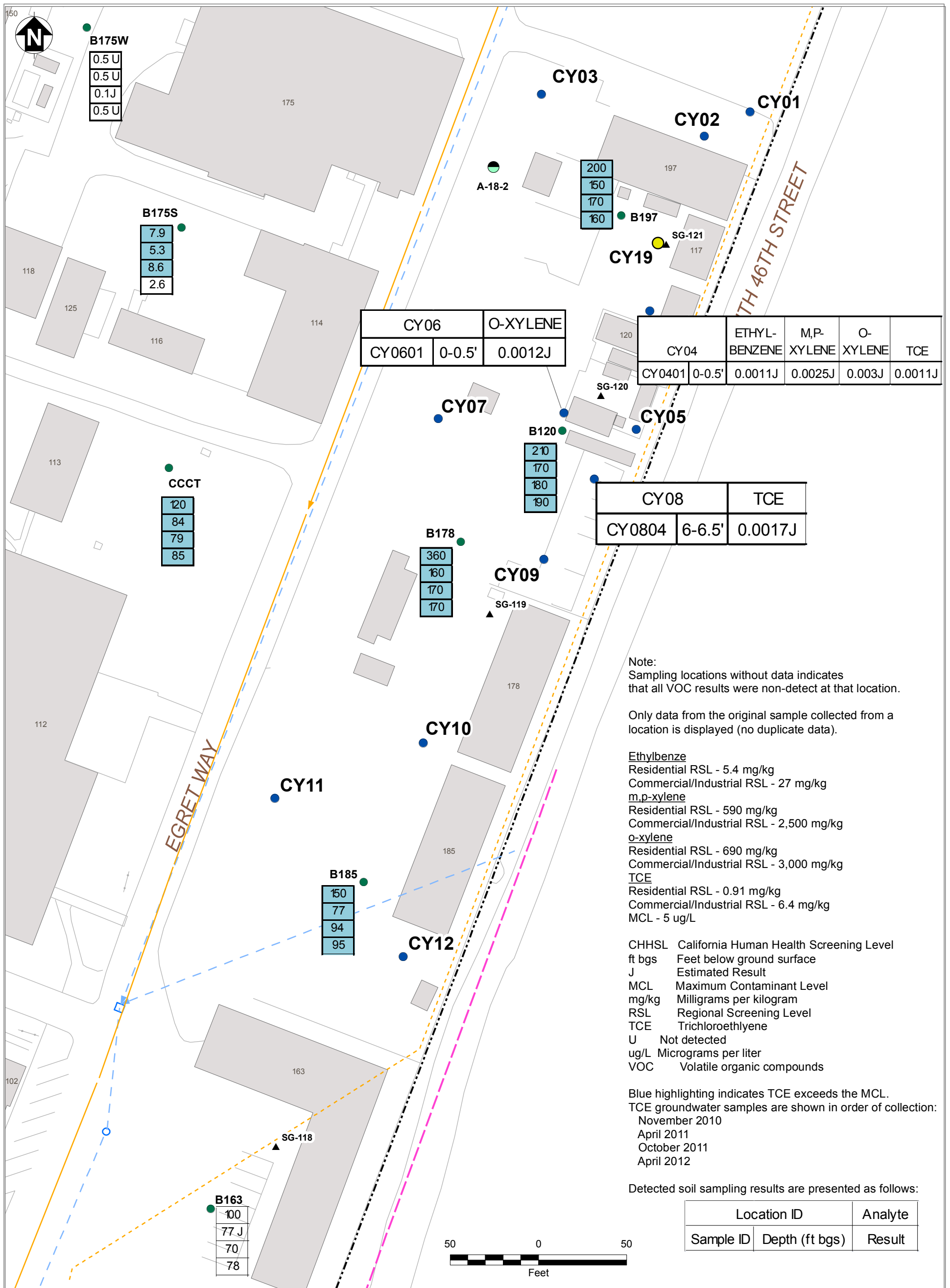
Phase I Groundwater Sampling Results



**Richmond Field Station
 University of California, Berkeley**

**FIGURE 11
 TCE GROUNDWATER
 CONCENTRATIONS**

Phase I Groundwater Sampling Results



CY06		O-XYLENE
CY0601	0-0.5'	0.0012J

CY04		ETHYL-BENZENE	M,P-XYLENE	O-XYLENE	TCE
CY0401	0-0.5'	0.0011J	0.0025J	0.003J	0.0011J

CY08		TCE
CY0804	6-6.5'	0.0017J

Note:
Sampling locations without data indicates that all VOC results were non-detect at that location.

Only data from the original sample collected from a location is displayed (no duplicate data).

- Ethylbenzene
Residential RSL - 5.4 mg/kg
Commercial/Industrial RSL - 27 mg/kg
- m,p-xylene
Residential RSL - 590 mg/kg
Commercial/Industrial RSL - 2,500 mg/kg
- o-xylene
Residential RSL - 690 mg/kg
Commercial/Industrial RSL - 3,000 mg/kg
- TCE
Residential RSL - 0.91 mg/kg
Commercial/Industrial RSL - 6.4 mg/kg
MCL - 5 ug/L

- CHHSL California Human Health Screening Level
- ft bgs Feet below ground surface
- J Estimated Result
- MCL Maximum Contaminant Level
- mg/kg Milligrams per kilogram
- RSL Regional Screening Level
- TCE Trichloroethylene
- U Not detected
- ug/L Micrograms per liter
- VOC Volatile organic compounds

Blue highlighting indicates TCE exceeds the MCL.
TCE groundwater samples are shown in order of collection:
November 2010
April 2011
October 2011
April 2012

Detected soil sampling results are presented as follows:

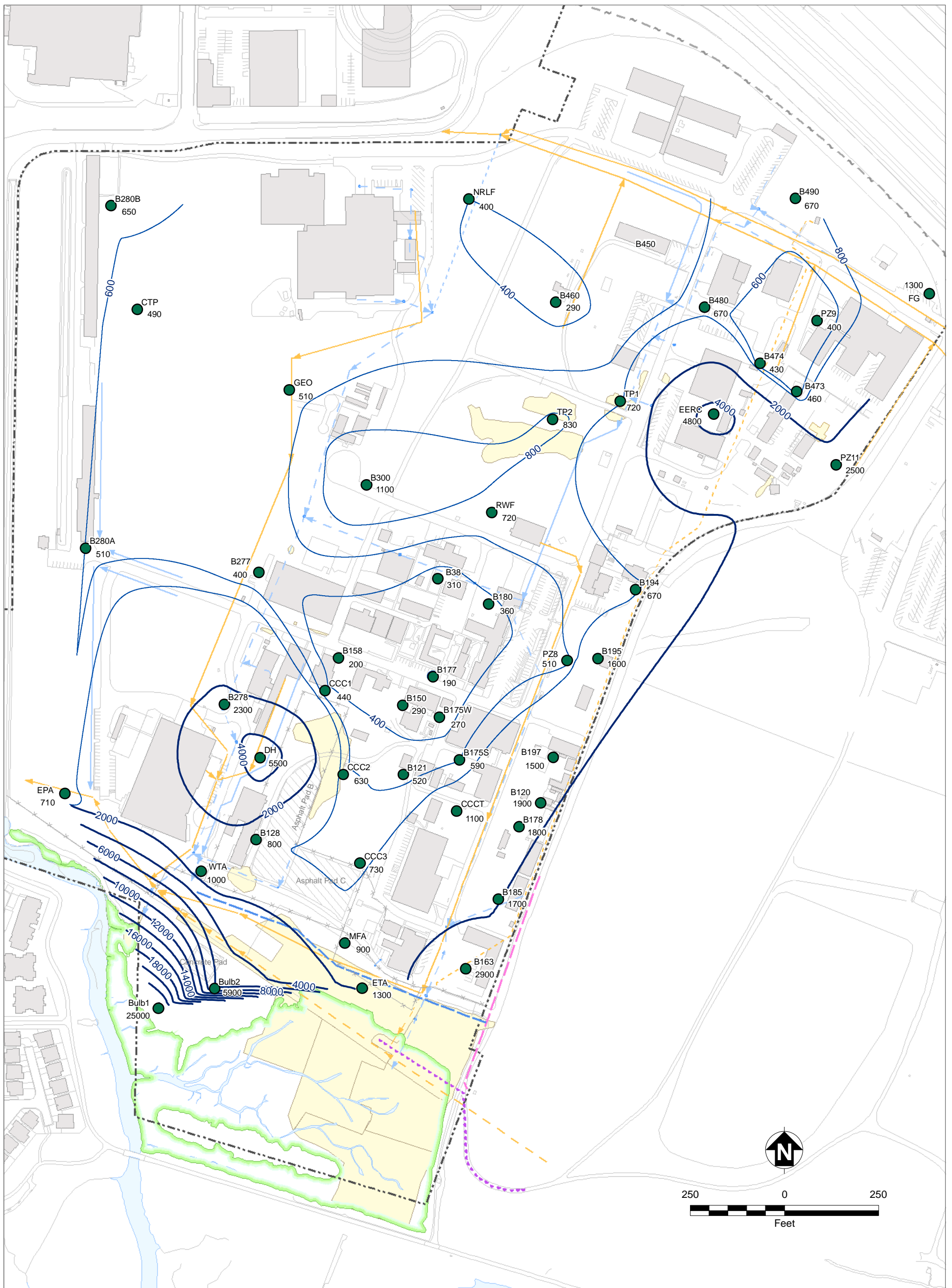
Location ID	Analyte
Sample ID	Depth (ft bgs) Result

- Existing Buildings
 - Asphalt/Concrete Pads
 - Property Boundary
 - Roads and Other Landscape Features
 - Fenceline
 - Slurry Wall
 - Aboveground Storage Tank (AST)
 - Existing Piezometer Location
 - Soil Sampling Location
 - Proposed Soil Sampling Location
 - Zeneca Soil Gas Well Location
- Storm Drain Lines:
- Open Swale
 - Underground Culvert
 - Underground Culvert, Abandoned (Grouted at Manholes)
- Sanitary Sewer Lines:
- Existing Sewer Line
 - Removed Sewer Line
 - Abandoned Sewer Line




Richmond Field Station
University of California, Berkeley

FIGURE 12
SAMPLING RESULTS FOR TCE
IN GROUNDWATER AND
VOCs IN SOIL IN THE
CORPORATION YARD
Phase I Groundwater Sampling Results



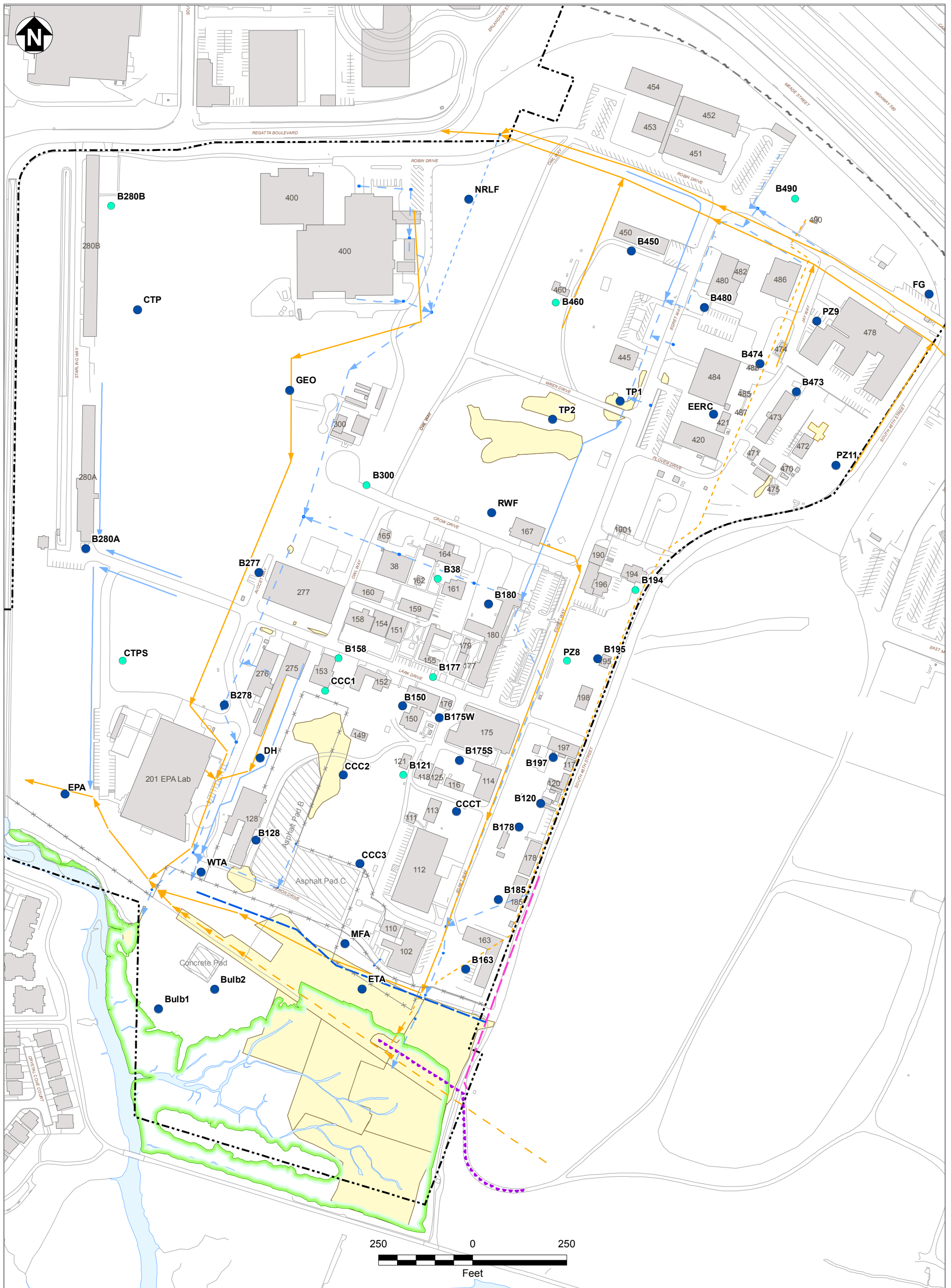
<ul style="list-style-type: none"> ● Piezometer Location -2000- TDS Contour, 2000 Interval -600- TDS Contour, 200 Interval Existing Building Asphalt/Concrete Pad Remediated Area Surface Water Marsh Boundary Property Boundary Approximate Property Boundary Roads and Other Landscape Features Fenceline 	<ul style="list-style-type: none"> Biologically Active Permeable Barrier Wall Former Seawall (Approximate) Slurry Wall Storm Drain Lines: <ul style="list-style-type: none"> Open Swale Underground Culvert Underground Culvert, Abandoned (Grouted at Manholes) Sanitary Sewer Lines: <ul style="list-style-type: none"> Existing Sewer Line Removed Sewer Line Abandoned Sewer Line 	<p>Notes: TDS results were measured during the November 2010 groundwater sampling event.</p> <p>TDS Total dissolved solids</p> <p> Piezometer ID ETA 1300 TDS Value </p>
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Richmond Field Station
University of California, Berkeley

FIGURE 13
TDS RESULTS
AND CONTOURS (NOVEMBER 2010)

Phase I Groundwater Sampling Results



<ul style="list-style-type: none"> Existing Buildings Asphalt/Concrete Pads Remediated Areas Surface Water Marsh Boundary Property Boundary Approximate Property Boundary Roads and Other Landscape Features Fenceline 	<ul style="list-style-type: none"> Biologically Active Permeable Barrier Wall Former Seawall (Approximate) Slurry Wall Storm Drain Lines: <ul style="list-style-type: none"> Open Swale Underground Culvert Underground Culvert, Abandoned (Grouted at Manholes) Sanitary Sewer Lines: <ul style="list-style-type: none"> Existing Sewer Line Removed Sewer Line Abandoned Sewer Line 	<ul style="list-style-type: none"> Proposed Continued Sampling Location No Additional Sampling Proposed
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Richmond Field Station
University of California, Berkeley

FIGURE 14
PROPOSED CONTINUED
GROUNDWATER SAMPLING
LOCATIONS

Phase I Groundwater Sampling Results

TABLES

Table 1: Groundwater Sampling Registry
Phase I April 2012, Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Groundwater Samples										
Sample ID	Point Location ID	Sampling Date	Depth (feet bgs)	Analysis	VOCs	TPH-E	SVOCs	Metals	PAH	TDS
				(EPA Method 8015B modified)	(EPA Method 8260B)	(EPA Method 8015B modified)	(EPA Method 8270C)	(EPA Method 6020A/7400 series)	(EPA Method 8270-SIM)	(EPA Method 160.1)
				2 40mL Amber VOA vials with HCl	2 40mL Amber VOA vials with HCl	500mL Amber	1 Liter Amber	500mL Poly with HNO3	1 Liter Amber	250mL poly
				14 Days	14 Days	14 Days	7/40 days	Metals - 6 Months (except Mercury - 28 Days)	7/40 days	7 days
Sample ID	Point Location ID	Sampling Date	Depth (feet bgs)							
RFSGWB12004	B120	4/3/2012	4-14	X	X	X	X	X	X	X
RFSGWB12104	B121	4/4/2012	8-18	X	X	X	X	X	X	X
RFSGWB12804	B128	4/2/2012	6-16	X	X	X	X	X	X	X
--	B128deep	NS	30-40							
RFSGWB15004	B150	4/4/2012	5.5-15.5	X	X	X	X	X	X	X
RFSGWB15004D	B150	4/4/2012	5.5-15.5	X	X	X	X	X	X	X
RFSGWB15804	B158	4/6/2012	5-15	X	X	X	X	X	X	X
RFSGWB16304	B163	4/2/2012	7-17	X	X	X	X	X	X	X
RFSGWB175S04	B175S	4/4/2012	5-15	X	X	X	X	X	X	X
RFSGWB175W04	B175W	4/4/2012	5-15	X	X	X	X	X	X	X
RFSGWB17704	B177	4/4/2012	9-19	X	X	X	X	X	X	X
RFSGWB17804	B178	4/3/2012	4.5-14.5	X	X	X	X	X	X	X
RFSGWB18004	B180	4/4/2012	6-16	X	X	X	X	X	X	X
RFSGWB18504	B185	4/2/2012	4-14	X	X	X	X	X	X	X
RFSGWB19404	B194	4/4/2012	7-17	X	X	X	X	X	X	X
RFSGWB19504	B195	4/3/2012	6-16	X	X	X	X	X	X	X
RFSGWB19704	B197	4/3/2012	4-14	X	X	X	X	X	X	X
RFSGWB19704D	B197	4/3/2012	4-14	X	X	X	X	X	X	X
RFSGWB27704	B277	4/3/2012	7-17	X	X	X	X	X	X	X
RFSGWB27804	B278	4/5/2012	6-16	X	X	X	X	X	X	X
RFSGWB280A04	B280A	4/3/2012	4-14	X	X	X	X	X	X	X
RFSGWB280B04	B280B	4/3/2012	6-16	X	X	X	X	X	X	X
RFSGWB30004	B300	4/9/2012	7-17	X	X	X	X	X	X	X
RFSGWB3804	B38	4/4/2012	7-17	X	X	X	X	X	X	X
--	B38deep	NS	31-41							
RFSGWB45004	B450	4/6/2012	6-16	X	X	X	X	X	X	X
RFSGWB46004	B460	4/6/2012	8-18	X	X	X	X	X	X	X
RFSGWB47304	B473	4/6/2012	7-17	X	X	X	X	X	X	X
RFSGWB47404	B474	4/9/2012	6-16	X	X	X	X	X	X	X
RFSGWB48004	B480	4/9/2012	6-16	X	X	X	X	X	X	X
--	B480deep	NS	35-40							
RFSGWB49004	B490	4/9/2012	8-18	X	X	X	X	X	X	X
RFSGWBULB1	Bulb1	4/5/2012	8-18	X	X	X	X	X	X	X
RFSGWBULB2	Bulb2	4/5/2012	9-19	X	X	X	X	X	X	X
RFSGWCCC104	CCC1	4/10/2012	3.5-13.5	X	X	X	X	X	X	X
RFSGWCCC204	CCC2	4/10/2012	4-14	X	X	X	X	X	X	X
RFSGWCCC304	CCC3	4/10/2012	4-14	X	X	X	X	X	X	X
RFSGWCCCT04	CCCT	4/4/2012	5.5-15.5	X	X	X	X	X	X	X
RFSGWCTP04	CTP	4/3/2012	7-17	X	X	X	X	X	X	X
--	CTPdeep	NS	30-40							
RFSGWCTPS04	CTPS	4/5/2012	4-14	X	X	X	X	X	X	X
RFSGWDH04A	DH	4/6/2012	3.5-13.5	X	X	X	X	X	X	X
RFSGWEERC04	EERC	4/6/2012	7-17	X	X	X	X	X	X	X
RFSGWEPA04	EPA	4/6/2012	4-14	X	X	X	X	X	X	X
RFSGWEPA04D	EPA	4/6/2012	4-14	X	X	X	X	X	X	X
RFSGWETA04	ETA	4/10/2012	3.5-13.5	X	X	X	X	X	X	X
RFSGWETA04D	ETA	4/10/2012	3.5-13.5	X	X	X	X	X	X	X
RFSGWFG04	FG	4/9/2012	6-16	X	X	X	X	X	X	X
RFSGWGE004	GEO	4/6/2012	6.5-16.5	X	X	X	X	X	X	X
RFSGWMFA	MFA	4/5/2012	3.5-13.5	X	X	X	X	X	X	X
RFSGWNRLF04	NRLF	4/9/2012	9-19	X	X	X	X	X	X	X
RFSGWPZ1104	PZ11	4/5/2012	9-19	X	X	X	X	X	X	X
RFSGWPZ804	PZ8	4/3/2012	8-21	X	X	X	X	X	X	X
RFSGWPZ904	PZ9	4/6/2012	9-20	X	X	X	X	X	X	X
RFSGWRWF04	RWF	4/4/2012	8-18	X	X	X	X	X	X	X
RFSGWTP104	TP1	4/5/2012	7-17	X	X	X	X	X	X	X
RFSGWTP204	TP2	4/9/2012	6-16	X	X	X	X	X	X	X
RFSGWTP204D	TP2	4/9/2012	6-16	X	X	X	X	X	X	X
RFSGWTA04	WTA	4/5/2012	4-14	X	X	X	X	X	X	X

Notes:

bgs	Below ground surface	ml	Milliliters	TPH-E	Total extractable petroleum hydrocarbons
EPA	U.S. Environmental Protection Agency	NS	Not sampled	TPH-P	Total purgeable petroleum hydrocarbons
HCl	Hydrochloric acid	PAH	Polyaromatic hydrocarbons	VOA	Volatile organic analysis
HNO3	Nitric Acid	SVOC	Semivolatile organic compound	VOC	Volatile organic compound
ID	Identification	TDS	Total dissolved solids		

Table 2: Groundwater Elevation Data

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Piezometer Name	Sample Date	TOC Elevation (feet NGVD)	Depth to Water (feet below TOC)	Groundwater Elevation (feet NGVD)
B120	11/1/10	11.72	6.75	4.97
B120	2/10/11	11.72	4.96	6.76
B120	4/11/11	11.72	3.60	8.12
B120	10/3/11	11.72	6.51	5.21
B120	4/2/12	11.72	2.78	8.94
B121	11/1/10	14.77	10.21	4.56
B121	2/10/11	14.77	8.83	5.94
B121	4/11/11	14.77	7.34	7.43
B121	10/3/11	14.77	10.05	4.72
B121	4/2/12	14.77	6.95	7.82
B128	11/1/10	11.62	7.86	3.76
B128	2/10/11	11.62	6.95	4.67
B128	4/11/11	11.62	6.82	4.80
B128	10/3/11	11.62	7.76	3.86
B128	4/2/12	11.62	4.33	7.29
B128deep	11/1/10	12.15	8.82	3.33
B128deep	2/10/11	12.15	7.33	4.82
B128deep	4/11/11	12.15	6.71	5.44
B128deep	10/3/11	12.15	8.56	3.59
B128deep	4/2/12	12.15	6.12	6.03
B150	11/1/10	17.24	6.22	11.02
B150	2/10/11	17.24	6.04	11.20
B150	4/11/11	17.24	3.46	13.78
B150	10/3/11	17.24	8.52	8.72
B150	4/2/12	17.24	1.74	15.50
B158	11/1/10	15.88	11.08	4.80
B158	2/10/11	15.88	9.81	6.07
B158	4/11/11	15.88	8.45	7.43
B158	10/3/11	15.88	10.92	4.96
B158	4/2/12	15.88	8.20	7.68
B163	11/1/10	10.37	6.30	4.07
B163	2/10/11	10.37	5.07	5.30
B163	4/11/11	10.37	3.97	6.40
B163	10/3/11	10.37	6.04	4.33
B163	4/2/12	10.37	3.27	7.10
B175S	11/1/10	15.16	10.31	4.85
B175S	2/10/11	15.16	8.71	6.45
B175S	4/11/11	15.16	7.03	8.13
B175S	10/3/11	15.16	10.11	5.05

Table 2: Groundwater Elevation Data

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Piezometer Name	Sample Date	TOC Elevation (feet NGVD)	Depth to Water (feet below TOC)	Groundwater Elevation (feet NGVD)
B175S	4/2/12	15.16	6.62	8.54
B175W	11/1/10	16.57	9.96	6.61
B175W	2/10/11	16.57	8.20	8.37
B175W	4/11/11	16.57	5.10	11.47
B175W	10/3/11	16.57	10.24	6.33
B175W	4/2/12	16.57	3.62	12.95
B177	11/1/10	17.57	11.66	5.91
B177	2/10/11	17.57	9.69	7.88
B177	4/11/11	17.57	7.49	10.08
B177	10/3/11	17.57	11.43	6.14
B177	4/2/12	17.57	7.41	10.16
B178	11/1/10	10.67	5.61	5.06
B178	2/10/11	10.67	3.94	6.73
B178	4/11/11	10.67	2.22	8.45
B178	10/3/11	10.67	5.38	5.29
B178	4/2/12	10.67	1.60	9.07
B180	11/1/10	15.02	9.11	5.91
B180	2/10/11	15.02	7.03	7.99
B180	4/11/11	15.02	4.93	10.09
B180	10/3/11	15.02	8.82	6.20
B180	4/2/12	15.02	4.99	10.03
B185	11/1/10	10.01	5.38	4.63
B185	2/10/11	10.01	3.90	6.11
B185	4/11/11	10.01	2.53	7.48
B185	10/3/11	10.01	5.18	4.83
B185	4/2/12	10.01	1.72	8.29
B194	11/1/10	18.30	11.75	6.55
B194	2/10/11	18.30	9.19	9.11
B194	4/11/11	18.30	7.28	11.02
B194	10/3/11	18.30	11.32	6.98
B194	4/2/12	18.30	6.75	11.55
B195	11/1/10	14.28	8.66	5.62
B195	2/10/11	14.28	6.50	7.78
B195	4/11/11	14.28	6.57	7.71
B195	10/3/11	14.28	8.37	5.91
B195	4/2/12	14.28	4.23	10.05
B197	11/1/10	13.01	7.94	5.07
B197	2/10/11	13.01	6.16	6.85
B197	4/11/11	13.01	4.25	8.76

Table 2: Groundwater Elevation Data

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Piezometer Name	Sample Date	TOC Elevation (feet NGVD)	Depth to Water (feet below TOC)	Groundwater Elevation (feet NGVD)
B197	10/3/11	13.01	7.70	5.31
B197	4/2/12	13.01	3.83	9.18
B277	11/1/10	14.82	10.46	4.36
B277	2/10/11	14.82	10.10	4.72
B277	4/11/11	14.82	9.77	5.05
B277	10/3/11	14.82	10.41	4.41
B277	4/2/12	14.82	9.70	5.12
B278	11/1/10	12.75	9.14	3.61
B278	2/10/11	12.75	8.90	3.85
B278	4/11/11	12.75	8.44	4.31
B278	10/3/11	12.75	9.13	3.62
B278	4/2/12	12.75	8.19	4.56
B280A	11/1/10	14.04	10.99	3.05
B280A	2/10/11	14.04	10.84	3.20
B280A	4/11/11	14.04	10.40	3.64
B280A	10/3/11	14.04	11.07	2.97
B280A	4/2/12	14.04	10.04	4.00
B280B	11/1/10	19.59	12.98	6.61
B280B	2/10/11	19.59	12.66	6.93
B280B	4/11/11	19.59	9.98	9.61
B280B	10/3/11	19.59	13.00	6.59
B280B	4/2/12	19.59	9.55	10.04
B300	11/1/10	18.16	12.95	5.21
B300	2/10/11	18.16	11.50	6.66
B300	4/11/11	18.16	9.97	8.19
B300	10/3/11	18.16	12.40	5.76
B300	4/2/12	18.16	10.73	7.43
B38	11/1/10	15.78	9.95	5.83
B38	2/10/11	15.78	7.93	7.85
B38	4/11/11	15.78	5.85	9.93
B38	10/3/11	15.78	9.80	5.98
B38	4/2/12	15.78	5.93	9.85
B38deep	11/1/10	15.84	9.81	6.03
B38deep	2/10/11	15.84	8.10	7.74
B38deep	4/11/11	15.84	6.50	9.34
B38deep	10/3/11	15.84	9.66	6.18
B38deep	4/2/12	15.84	6.78	9.06
B450	11/1/10	21.34	14.50	6.84
B450	2/10/11	21.34	12.36	8.98

Table 2: Groundwater Elevation Data

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Piezometer Name	Sample Date	TOC Elevation (feet NGVD)	Depth to Water (feet below TOC)	Groundwater Elevation (feet NGVD)
B450	4/11/11	21.34	10.20	11.14
B450	10/3/11	21.34	14.05	7.29
B450	4/2/12	21.34	11.51	9.83
B460	11/1/10	21.42	15.45	5.97
B460	2/10/11	21.42	12.58	8.84
B460	4/11/11	21.42	9.87	11.55
B460	10/3/11	21.42	14.82	6.60
B460	4/2/12	21.42	11.44	9.98
B473	11/1/10	22.29	13.78	8.51
B473	2/10/11	22.29	11.65	10.64
B473	4/11/11	22.29	9.21	13.08
B473	10/3/11	22.29	13.23	9.06
B473	4/2/12	22.29	9.75	12.54
B474	11/1/10	23.67	15.52	8.15
B474	2/10/11	23.67	13.70	9.97
B474	4/11/11	23.67	11.55	12.12
B474	10/3/11	23.67	13.00	10.67
B474	4/2/12	23.67	11.88	11.79
B480	11/1/10	20.84	14.01	6.83
B480	2/10/11	20.84	11.78	9.06
B480	4/11/11	20.84	9.45	11.39
B480	10/3/11	20.84	13.56	7.28
B480	4/2/12	20.84	10.81	10.03
B480deep	11/1/10	21.07	9.55	11.52
B480deep	2/10/11	21.07	8.60	12.47
B480deep	4/11/11	21.07	7.16	13.91
B480deep	10/3/11	21.07	9.54	11.53
B480deep	4/2/12	21.07	7.44	13.63
B490	11/1/10	24.41	15.20	9.21
B490	2/10/11	24.41	14.08	10.33
B490	4/11/11	24.41	13.11	11.30
B490	10/3/11	24.41	15.24	9.17
B490	4/2/12	24.41	13.34	11.07
Bulb1	11/1/10	7.19	4.76	2.43
Bulb1	2/10/11	7.19	4.12	3.07
Bulb1	4/11/11	7.19	4.11	3.08
Bulb1	10/3/11	7.19	5.09	2.10
Bulb1	4/2/12	7.19	3.94	3.25
Bulb2	11/1/10	7.46	4.60	2.86

Table 2: Groundwater Elevation Data

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Piezometer Name	Sample Date	TOC Elevation (feet NGVD)	Depth to Water (feet below TOC)	Groundwater Elevation (feet NGVD)
Bulb2	2/10/11	7.46	3.94	3.52
Bulb2	4/11/11	7.46	3.61	3.85
Bulb2	10/3/11	7.46	3.74	3.72
Bulb2	4/2/12	7.46	3.08	4.38
CCC1	11/1/10	15.38	10.89	4.49
CCC1	2/10/11	15.38	7.36	8.02
CCC1	4/11/11	15.38	8.65	6.73
CCC1	10/3/11	15.38	10.67	4.71
CCC1	4/2/12	15.38	7.94	7.44
CCC2	11/1/10	14.60	10.14	4.46
CCC2	2/10/11	14.60	8.88	5.72
CCC2	4/11/11	14.60	7.31	7.29
CCC2	10/3/11	14.60	9.90	4.70
CCC2	4/2/12	14.60	7.00	7.60
CCC3	11/1/10	11.67	7.56	4.11
CCC3	2/10/11	11.67	6.33	5.34
CCC3	4/11/11	11.67	6.21	5.46
CCC3	10/3/11	11.67	7.35	4.32
CCC3	4/2/12	11.67	4.60	7.07
CCCT	11/1/10	12.13	8.42	3.71
CCCT	2/10/11	12.13	5.86	6.27
CCCT	4/11/11	12.13	4.25	7.88
CCCT	10/3/11	12.13	7.23	4.90
CCCT	4/2/12	12.13	3.78	8.35
CTP	1/12/00	17.27	11.95	5.32
CTP	2/10/11	17.27	9.61	7.66
CTP	4/11/11	17.27	7.94	9.33
CTP	10/3/11	17.27	11.72	5.55
CTP	4/2/12	17.27	10.17	7.10
CTPdeep	11/1/10	17.67	11.77	5.90
CTPdeep	2/10/11	17.67	11.22	6.45
CTPdeep	4/11/11	17.67	10.40	7.27
CTPdeep	10/3/11	17.67	12.20	5.47
CTPdeep	4/2/12	17.67	10.45	7.22
CTPS	11/1/10	15.25	12.67	2.58
CTPS	2/10/11	15.25	11.46	3.79
CTPS	4/11/11	15.25	11.68	3.57
CTPS	10/3/11	15.25	12.05	3.20
CTPS	4/2/12	15.25	7.24	8.01

Table 2: Groundwater Elevation Data

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Piezometer Name	Sample Date	TOC Elevation (feet NGVD)	Depth to Water (feet below TOC)	Groundwater Elevation (feet NGVD)
DH	11/1/10	13.25	14.99	-1.74
DH	2/10/11	13.25	12.64	0.61
DH	4/11/11	13.25	9.84	3.41
DH	10/3/11	13.25	9.90	3.35
DH	4/2/12	13.25	7.84	5.41
EERC	11/1/10	21.84	8.65	13.19
EERC	2/10/11	21.84	8.56	13.28
EERC	4/11/11	21.84	7.92	13.92
EERC	10/3/11	21.84	14.26	7.58
EERC	4/2/12	21.84	11.07	10.77
EPA	11/1/10	10.59	4.12	6.47
EPA	2/10/11	10.59	3.10	7.49
EPA	4/11/11	10.59	2.49	8.10
EPA	10/3/11	10.59	8.61	1.98
EPA	4/2/12	10.59	7.94	2.65
ETA	11/1/10	7.54	13.92	-6.38
ETA	2/10/11	7.54	13.48	-5.94
ETA	4/11/11	7.54	12.75	-5.21
ETA	10/3/11	7.54	4.62	2.92
ETA	4/2/12	7.54	1.90	5.64
FG	11/1/10	25.31	10.79	14.52
FG	2/10/11	25.31	9.04	16.27
FG	4/11/11	25.31	9.74	15.57
FG	10/3/11	25.31	13.85	11.46
FG	4/2/12	25.31	11.77	13.54
GEO	11/1/10	16.37	4.55	11.82
GEO	2/10/11	16.37	3.59	12.78
GEO	4/11/11	16.37	2.67	13.70
GEO	10/3/11	16.37	10.42	5.95
MFA	11/1/10	8.23	16.11	-7.88
MFA	2/10/11	8.23	13.45	-5.22
MFA	4/11/11	8.23	11.99	-3.76
MFA	10/3/11	8.23	4.41	3.82
MFA	4/2/12	8.23	1.98	6.25
NRLF	11/1/10	22.62	10.53	12.09
NRLF	2/10/11	22.62	8.42	14.20
NRLF	4/11/11	22.62	6.26	16.36
NRLF	10/3/11	22.62	15.83	6.79
NRLF	4/2/12	22.62	12.96	9.66

Table 2: Groundwater Elevation Data

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Piezometer Name	Sample Date	TOC Elevation (feet NGVD)	Depth to Water (feet below TOC)	Groundwater Elevation (feet NGVD)
PZ11	11/1/10	21.48	12.41	9.07
PZ11	2/10/11	21.48	NA	NA
PZ11	4/11/11	21.48	8.08	13.40
PZ11	10/3/11	21.48	12.10	9.38
PZ11	4/2/12	21.48	7.74	13.74
PZ8	11/1/10	14.12	8.45	5.67
PZ8	2/10/11	14.12	NA	NA
PZ8	4/11/11	14.12	4.56	9.56
PZ8	10/3/11	14.12	8.21	5.91
PZ8	4/2/12	14.12	4.20	9.92
PZ9	11/1/10	23.29	13.75	9.54
PZ9	2/10/11	23.29	NA	NA
PZ9	4/11/11	23.29	11.21	12.08
PZ9	10/3/11	23.29	13.52	9.77
PZ9	4/2/12	23.29	11.20	12.09
RWF	11/1/10	16.46	10.12	6.34
RWF	2/10/11	16.46	8.88	7.58
RWF	4/11/11	16.46	7.59	8.87
RWF	10/3/11	16.46	10.21	6.25
RWF	4/2/12	16.46	6.70	9.76
TP1	11/1/10	19.33	13.11	6.22
TP1	2/10/11	19.33	10.90	8.43
TP1	4/11/11	19.33	8.59	10.74
TP1	10/3/11	19.33	12.61	6.72
TP1	4/2/12	19.33	9.72	9.61
TP2	11/1/10	18.91	12.77	6.14
TP2	2/10/11	18.91	10.57	8.34
TP2	4/11/11	18.91	8.15	10.76
TP2	10/3/11	18.91	12.28	6.63
TP2	4/2/12	18.91	9.28	9.63
WTA	11/1/10	8.61	6.01	2.60
WTA	4/2/12	8.61	5.22	3.39
WTA	2/10/11	8.61	5.84	2.77
WTA	4/11/11	8.61	5.73	2.88
WTA	10/3/11	8.61	6.01	2.60

Notes:

NA

Not available

NGVD

National Geodetic Vertical Datum of 1929

TOC

Top of casing

Table 3: Piezometer Completion Summary

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Piezometer Name	Well Installation Date	Total Depth (ft bgs)	Casing Diameter (inches)	Screen Interval (ft bgs)	Development Date	Development Gallons Purged	Round 1 Sampling Date	Round 2 Sampling Date	Round 3 Sampling Date	Round 4 Sampling Date	TOC (a)	Approximate Ground Surface Elevation (a)
B120	8/2/10	14	2.0 PVC	4-14	8/19/10	26	9/9/10	4/15/11	10/4/11	4/3/2012	11.72	12.12
B121	8/3/10	18	2.0 PVC	8-18	8/16/10	53	9/8/10	4/13/11	10/4/11	4/4/2012	14.77	15.55
B128	8/12/10	16	2.0 PVC	6-16	8/31/10	33	9/23/10	4/18/11	10/4/11	4/2/2012	11.62	12.21
B128deep	8/12/10	40	2.0 PVC	30-40	9/1/10	65	10/15/10	--	--	NS	12.15	12.26
B150	8/3/10	15.5	2.0 PVC	5.5-15.5	8/17/10	28	9/8/10	4/13/11	10/5/11	4/4/2012	17.24	17.51
B158	8/11/10	15	2.0 PVC	5-15	8/18/10	19	9/8/10	4/15/11	10/5/11	4/6/2012	15.88	16.33
B163	7/26/10	17.5	2.0 PVC	7-17	8/16/10	53	9/2/10	4/12/11	10/3/11	4/2/2012	10.37	10.60
B175S	8/3/10	15	2.0 PVC	5-15	8/17/10	22	9/3/10	4/13/11	10/4/11	4/4/2012	15.16	15.45
B175W	8/3/10	15	2.0 PVC	5-15	8/17/10	32	9/8/10	4/13/11	10/4/11	4/4/2012	16.57	17.21
B177	8/11/10	19	2.0 PVC	9-19	8/31/10	32	9/23/10	4/18/11	10/5/11	4/4/2012	17.57	17.81
B178	8/2/10	14.5	2.0 PVC	4.5-14.5	8/19/10	32	9/2/10	4/15/11	10/4/11	4/3/2012	10.67	11.33
B180	8/11/10	16	2.0 PVC	6-16	8/24/10	24	9/15/10	4/13/11	10/6/11	4/4/2012	15.02	15.30
B185	8/2/10	14	2.0 PVC	4-14	8/20/10	31	9/2/10	4/15/11	10/3/11	4/2/2012	10.01	10.08
B194	7/30/10	17	2.0 PVC	7-17	8/23/10	34	9/9/10	4/13/11	10/4/11	4/4/2012	18.30	18.84
B195	7/30/10	16	2.0 PVC	6-16	8/20/10	29	9/9/10	4/13/11	10/4/11	4/3/2012	14.28	14.91
B197	7/30/10	14	2.0 PVC	4-14	8/19/10	25	9/9/10	4/13/11	10/4/11	4/3/2012	13.01	13.37
B277	7/29/10	17.5	2.0 PVC	7-17	8/19/10	25	9/15/10	4/18/11	10/5/11	4/3/2012	14.82	15.69
B278	7/29/10	16.5	2.0 PVC	6-16	8/18/10	26	9/16/10	4/19/11	10/5/11	4/5/2012	12.75	13.17
B280A	7/29/10	14.5	2.0 PVC	4-14	8/19/10	13	9/16/10	4/14/11	10/6/11	4/3/2012	14.04	14.21
B280B	8/6/10	16	2.0 PVC	6-16	8/26/10	6	10/1/10	4/14/11	10/6/11	4/3/2012	19.59	19.89
B300	7/29/10	17	2.0 PVC	7-17	8/24/10	21	9/9/10	4/15/11	10/6/11	4/9/2012	18.16	18.72
B38	8/10/10	17	2.0 PVC	7-17	8/24/10	24	9/15/10	4/19/11	10/6/11	4/4/2012	15.78	16.08
B38deep	8/10/10	41	2.0 PVC	31-41	8/24/10	47	10/18/10	--	--	NS	15.84	16.09
B450	8/5/10	16	2.0 PVC	6-16	8/25/10	10	NS	4/19/11	10/10/11	4/6/2012	21.34	21.76
B460	8/5/10	18	2.0 PVC	8-18	8/25/10	12	9/15/10	4/20/11	10/7/11	4/6/2012	21.42	21.96
B473	8/9/10	17	2.0 PVC	7-17	8/31/10	12.5	9/24/10	4/20/11	10/7/11	4/6/2012	22.29	22.50
B474	8/9/10	16	2.0 PVC	6-16	8/27/10	17.5	9/23/10	4/20/11	10/7/11	4/9/2012	23.67	21.85
B480	8/5/10	16	2.0 PVC	6-16	8/27/10	10	9/24/10	4/19/11	10/7/11	4/9/2012	20.84	21.04
B480deep	8/12/10	40	2.0 PVC	35-40	8/27/10	52	10/15/10	--	--	NS	21.07	21.19
B490	8/6/10	18	2.0 PVC	8-18	8/30/10	27	9/16/10	4/20/11	10/10/11	4/9/2012	24.41	24.95
Bulb1	9/29/10	18	2.0 PVC	8-18	10/19/10	30	10/19/10	4/12/11	9/30/11	4/5/2012	7.19	7.83
Bulb2	9/29/10	19	2.0 PVC	9-19	10/19/10	35	10/19/10	4/12/11	9/30/11	4/5/2012	7.46	7.91
CCC1	7/27/10	14	2.0 PVC	3.5-13.5	8/18/10	11.5	9/8/10	4/14/11	10/5/11	4/10/2012	15.38	15.67
CCC2	7/27/10	14	2.0 PVC	4-14	8/16/10	19	9/8/10	4/14/11	10/4/11	4/10/2012	14.60	14.75
CCC3	7/27/10	15	2.0 PVC	4-14	8/16/10	27	9/3/10	9/3/10	10/4/11	4/10/2012	11.67	12.13
CCCT	8/2/10	15.5	2.0 PVC	5.5-15.5	8/20/10	31	9/3/10	4/18/11	10/3/11	4/4/2012	12.13	13.19
CTP	7/30/10	17	2.0 PVC	7-17	8/26/10	20	9/30/10	4/14/11	10/6/11	4/3/2012	17.27	18.26
CTPdeep	8/12/10	40	2.0 PVC	30-40	8/26/10	47	10/15/10	--	--	NS	17.67	18.16
CTPS	7/28/10	14	2.0 PVC	4-14	8/19/10	7	9/30/2010, 10/1/10 and 10/18/10	4/19/11	10/10/11	4/5/2012	15.25	15.43
DH	7/27/10	13.5	2.0 PVC	3.5-13.5	8/18/10	13	9/30/10	4/14/11	10/5/11	4/6/2012	13.25	13.55

Table 3: Piezometer Completion Summary

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Piezometer Name	Well Installation Date	Total Depth (ft bgs)	Casing Diameter (inches)	Screen Interval (ft bgs)	Development Date	Development Gallons Purged	Round 1 Sampling Date	Round 2 Sampling Date	Round 3 Sampling Date	Round 4 Sampling Date	TOC (a)	Approximate Ground Surface Elevation (a)
EERC	8/9/10	17	2.0 PVC	7-17	8/31/10	7.5	10/1/2010 and 10/15/10	4/20/11	10/7/11	4/6/2012	21.84	22.01
EPA	7/28/10	14	2.0 PVC	4-14	8/19/10	13.5	9/16/10	4/19/11	10/6/11	4/6/2012	10.59	11.20
ETA	7/28/10	14	2.0 PVC	3.5-13.5	9/2/10	32	9/24/10	4/12/11	9/30/11	4/10/2012	7.54	7.72
FG	8/6/10	16	2.0 PVC	6-16	8/30/10	7	9/23/10	4/19/11	10/10/11	4/9/2012	25.31	25.79
GEO	7/26/10	17.5	2.0 PVC	6.5-16.5	9/1/10	20	9/3/10	4/20/11	10/6/11	4/6/2012	16.37	16.73
MFA	7/28/10	13.5	2.0 PVC	3.5-13.5	9/2/10	37	9/24/10	4/12/11	10/3/11	4/5/2012	8.23	8.51
NRLF	7/26/10	19.5	2.0 PVC	9-19	8/26/10	10	9/16/10	4/20/11	10/6/11	4/9/2012	22.62	22.99
PZ11	10/6/09	19	2.0 PVC	9-19	unk	unk	10/15/10	4/20/11	10/10/11	4/5/2012	21.48	21.73
PZ8	4/12/07	21	2.0 PVC	8-21	unk	unk	10/1/10	4/18/11	10/4/11	4/3/2012	14.12	14.52
PZ9	4/12/07	20	2.0 PVC	9-20	unk	unk	9/24/10	4/20/11	10/7/11	4/6/2012	23.29	23.72
RWF	8/4/10	18	2.0 PVC	8-18	8/23/10	30	9/15/10	4/18/11	10/6/11	4/4/2012	16.46	16.78
TP1	8/5/10	17	2.0 PVC	7-17	8/23/10	13	9/29/10	4/18/11	10/7/11	4/5/2012	19.33	19.91
TP2	8/4/10	16	2.0 PVC	6-16	8/23/10	20	9/29/10	4/18/11	10/7/11	4/9/2012	18.91	19.24
WTA	7/27/10	14	2.0 PVC	4-14	8/18/10	28	9/30/10	4/14/11	10/5/11	4/5/2012	8.61	8.93

Notes:

Total depth of boring assumed to be bottom of screen unless otherwise specified on boring log or well completion form.

(a) Ground surface elevation and TOC given in feet above mean sea level

ft bgs Feet below ground surface
 NS Not Sampled
 PVC Polyvinyl chloride
 TOC Top of casing
 unk Unknown

Table 4: Groundwater Sampling Parameters Summary

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Total Dissolved Solids (mg/L)	pH	Temperature (C)	Specific Conductance (umhos/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
RFSGWB12004	2190	6.89	15	2.84	53.3	0.28	314
RFSGWB12104	510	6.91	15.81	0.85	19.5	0.61	291
RFSGWB12804	440	6.09	15.01	0.679	41	1.86	304
RFSGWB15004	150	6.67	14.19	0.322	32.1	880	284
RFSGWB15004D	190	--	--	--	--	--	--
RFSGWB15804	200	6.62	15.55	0.263	53.1	3.35	265
RFSGWB16304	2700	5.81	16.96	3.23	68.7	0.74	312
RFSGWB175S04	550	6.69	15.62	0.864	23	2.5	292
RFSGWB175W04	210	6.59	16.21	0.355	12.4	1.53	284
RFSGWB17704	270	6.19	15.38	0.476	40.3	4.49	288
RFSGWB17804	2190	6.84	15.38	3.01	19.5	0.36	316
RFSGWB18004	260	7.27	15.09	0.435	47.1	7.59	284
RFSGWB18504	1670	6.56	15.05	2.1	44.4	0.32	309
RFSGWB19404	570	6.84	13.13	0.928	35.4	2.22	292
RFSGWB19504	790	6.89	14.69	1.081	42.1	3.66	292
RFSGWB19704	2290	6.77	16.12	2.99	47.6	0.34	265
RFSGWB19704D	2240	--	--	--	--	--	--
RFSGWB27704	420	7.34	15.71	0.737	18.2	0.28	292
RFSGWB27804	NS	6.9	15.13	3.41	9.6	1.43	301
RFSGWB280A04	540	6.92	16.33	0.885	15.9	0.32	293
RFSGWB280B04	490	7.4	15.3	0.895	21.6	6.71	293
RFSGWB30004	1680	6.62	15.84	2.78	5	0.23	268
RFSGWB3804	240	6.54	14.5	0.408	9.2	1.72	285
RFSGWB45004	770	6.61	16.42	1.208	21.6	3.31	280
RFSGWB46004	270	6.77	14.94	0.433	5.5	1.61	275
RFSGWB47304	300	6.85	15.57	0.486	18.2	6.58	275
RFSGWB47404	250	6.81	15.38	0.369	22.6	0.25	266
RFSGWB48004	640	6.86	16.47	1.008	10	1.78	273
RFSGWB49004	550	6.95	15.67	0.905	6.1	1.66	273
RFSGWBULB104	NS	8.08	14.13	40.6	14.2	0.25	305
RFSGWBULB204	NS	7.08	14.83	8.72	28.2	0.35	301
RFSGWCCC104	640	7.03	14.87	0.999	14.2	1.61	274
RFSGWCCC204	1140	6.8	14.77	1.97	13	0.4	275
RFSGWCCC304	740	7.1	14.51	1.14	10.7	0.6	273
RFSGWCCCT04	1240	6.96	14.3	1.82	18.6	0.3	290
RFSGWCTP04	540	7.03	15.17	0.91	35.8	1.08	292
RFSGWDH04A	4580	6.26	14.86	7.26	21.8	0.23	281
RFSGWEERC04	4190	6.78	14.8	4.99	5.9	1.62	286
RFSGWEPA04	1050	7.19	15.09	1.65	3.9	0.33	281
RFSGWEPA04D	1100	--	--	--	--	--	--

Table 4: Groundwater Sampling Parameters Summary
Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Total Dissolved Solids (mg/L)	pH	Temperature (C)	Specific Conductance (umhos/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
RFSGWETA04	1510	7.03	13.98	2.22	115	0.4	277
RFSGWETA04D	1510	--	--	--	--	--	--
RFSGWFG04	500	6.51	16.62	0.699	21.5	5.48	273
RFSGWGEO04	570	7.14	15.02	0.951	5.3	1.3	280
RFSGWMFA04	NS	7	14.83	1.082	18.9	0.22	303
RFSGWNRLF04	430	6.9	15.5	0.713	4.1	0.38	258
RFSGWPZ1104		5.05	14.81	2.9	10.4	1.27	290
RFSGWPZ804	560	6.72	15.35	0.868	47.1	0.36	288
RFSGWPZ904	450	6.62	16.81	0.712	8.2	0.23	279
RFSGWRWF04	720	6.76	15.57	1.152	62.6	0.28	293
RFSGWTP104	NS	6.83	17.18	3.02	12	0.27	286
RFSGWTP204	820	6.76	16.5	1.221	18.3	0.56	273
RFSGWTP204D	790	--	--	--	--	--	--
RFSGWWTA04	NS	7.14	14.92	1.72	88	0.22	287

-- Not sampled
C Celsius
DO Dissolved Oxygen
ID Identification
mg/L Milligrams per liter
mV Millivolts
NTU Nephelometric Turbidity Units
ORP Oxidation reduction potential
umhos/cm Micromhms per centimeter

Table 5: State and Federal Water Quality Criteria in ug/L
Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Chemical	Human Health Risk-Based SSGs (1)			Aquatic Criteria (2)			Drinking Water Standard (3)	MCL (4)			SWRCB			EPA 2004 PRG		EPA 2010 RSL		
	Upland			Near BAPB	Uplands	Lower horizon		California	EPA	Secondary	Drinking Water Criteria (5)	Non-Drinking Water Criteria (6)	Surface Water Screening Levels, Estuary Habitats (7)	Cancer (8)	Non-cancer (8)	Tapwater (Cancer) (9)	Tapwater (Non-cancer) (9)	
	On-Site Residential	On-Site Commercial/Industrial Worker	On-Site Groundskeeper/Maintenance Worker	5x Aquatic Criteria	40x Aquatic Criteria	160x Aquatic Criteria												
VOCs																		
1,1-Dichloroethene	1,900	8900	630000	160	3.2	6		6	7		6	25	3				340	
1,2-Dichloroethane	120	360	2900	5000	99	0.5		0.5	5		0.5	200	99			0.15	640	
1,2-Dichloropropane	120	370	1900	2000	39	5		5	5		5	100	10			0.39	8	
2-Butanone (MEK)	2,800,000	13000000	140000000								4200	14000	8,400				7,100	
Acetone	7,900,000	37000000	220000000								1500	1500	1,500				22,000	
Benzene	20	61	440	3600	71	1		1	5		1	46	71			0.41	44	
Carbon tetrachloride								0.5	5		0.5	9.3	4			0.44	86	
Chlorobenzene	250,000	1100000	140000	1100000	21000	70			100		25	25	50				91	
Chloroform	130	400	2500	24000	470	80					70	330	470			0.91	130	
cis-1,2-Dichloroethene	7,200	34000	270000			6		6	70		6	590	22,000				370	
Dibromomethane																61		
Naphthalene	210	640	90								17	24	21					
Tetrachloroethene	38	110	22	440	8.9	5		5	5		5	120	9			0.11	220	
Toluene								150	1000		40	130	40				2,300	
trans-1,2-Dichloroethene	6,700	31000	510000	7000000	140000	10		10	100		10	590	260				110	
Trichloroethene	180	540	2700	4100	81	5		5	5		5	360	81			2		
Vinyl chloride	1	3.6	300	26000	530	0.5		0.5	2		0.5	3.8	530			0.016	72	
SVOCs																		
1-Methylnaphthalene																	2.3	2600
1,4-Dioxane											3	5000	5000				6.1	3700
Acenaphthene																		
Bis(2-ethylhexyl) phthalate									6		4	32	5.9			4.8	730	
Fluoranthene											8	8	8				1500	
Fluorene											3.9	3.9	30				1500	
Naphthalene											17	24	21			0.14	6.2	
Pyrene											2	2	2			180	1100	
Metals																		
Aluminum								1000		200								37000
Antimony			150000	220000	1700000	6900000		6	6		6	30	500				15	
Arsenic			110	180	1400	5800		10	10		36	36	0.14	0.071		0.045	11	
Barium			75000000					1000	1000	2000	1000	1000	1000				7300	
Beryllium								4	4		0.53	0.53	0.53				73	
Boron											1.6	1.6	1.6				7300	
Cadmium			190000	47	370	1500		5	5	5	0.25	0.25	9.3				18	
Calcium																		
Chromium			56000000					50	50	100	50	180	180					
Cobalt											3	3	3				11	
Copper			15000000	16	120	500	1300	1300	1300	1000	3.1	3.1	3.1				1500	
Iron										300							26000	
Lead				41	320	1300	15	15	15		2.5	2.5	5.6					
Magnesium																		
Manganese										50							880	
Mercury			110000	11	84	340	2	2	2		0.025	0.025	0.025				0.57	
Molybdenum											35	240	240				180	
Nickel			93000000	41	330	1300	100	100			8.2	8.2	8.2				730	
Potassium																		
Selenium			1900000	25	200	800	50	50	50		5	5	71				180	
Silver			3100000	9.5	76	300	100			100	0.19	0.19	0.19				180	
Sodium																		
Thallium			25000	320	2500	10000	2	2	2		2	4	4					
Vanadium			370000								15	19	19				180	
Zinc			18000000	410	3200	13000	5000			5000	81	81	81				11000	
Hardness, as CaCO3 IN mg/L																		

Table 5: State and Federal Water Quality Criteria in ug/L
Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Chemical	Human Health Risk-Based SSGs (1)			Aquatic Criteria (2)			Drinking Water Standard (3)	MCL (4)			SWRCB			EPA 2004 PRG		EPA 2010 RSL	
	Upland			Near BAPB	Uplands	Lower horizon		California	EPA	Secondary	Drinking Water Criteria (5)	Non-Drinking Water Criteria (6)	Surface Water Screening Levels, Estuary Habitats (7)	Cancer (8)	Non-cancer (8)	Tapwater (Cancer) (9)	Tapwater (Non-cancer) (9)
	On-Site Residential	On-Site Commercial/Industrial Worker	On-Site Groundskeeper/Maintenance Worker	5x Aquatic Criteria	40x Aquatic Criteria	160x Aquatic Criteria											
TPH																	
TPH as Gasoline											100	210					
TPH - Diesel Range Organics																	
TPH - Oil Range Organics																	
Explosive Residue																	
RDX																	

- Notes:
- (1) Groundwater SSGs are developed in Appendix G of the Campus Bay Revised HHRA (EKI 2008a). The formulas used to calculate the SSGs are presented in Appendix H of the Revised HHRA.
 - (2) The aquatic criteria are the more stringent of the 10x Human Consumption of Aquatic organisms value and the Salt Water Aquatic Criteria Value, presented in the Quarterly Groundwater and Surface Water Monitoring Report (Arcadis 2010). The dilution factors of 5, 40, and 160 for groundwater are developed and presented in Appendix I of the Draft Feasibility Study and Remedial Action Plans for Lots 1, 2, and 3 (EKI 2008b).
 - (3) The drinking water criteria are the more stringent of the federal (EPA 2009) and California (CDPH 2008) primary and secondary maximum contaminant levels (MCL).
 - (4) <http://www.cdph.ca.gov/certic/drinkingwater/Documents/DWdocuments/EPAandCDPH-11-28-2008.pdf>
<http://water.epa.gov/drink/contaminants/index.cfm>
 - (5) Values taken from the California Regional Water Quality Control Board 2008 Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table F- (http://www.swrcb.ca.gov/sanfranciscobay/water_issues/available_documents/ESL_May_2008.pdf)
 - (6) Values taken from the California Regional Water Quality Control Board 2008 Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table F- (http://www.swrcb.ca.gov/sanfranciscobay/water_issues/available_documents/ESL_May_2008.pdf)
 - (7) Values taken from the California Regional Water Quality Control Board 2008 Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table F- (http://www.swrcb.ca.gov/sanfranciscobay/water_issues/available_documents/ESL_May_2008.pdf)
 - (8) EPA 2004 Regional Screening Levels (formerly Preliminary Remediation Goals) (http://www.epa.gov/region9/superfund/prg/)
 - (9) EPA 2010 Regional Screening Levels for tap water (http://www.epa.gov/reg3hwmd/risk/human/)

µg/L Micrograms per liter
BAPB Biologically active permeable barrier
CDPH California Department of Public Health
HHRA Human health risk assessment
EPA U.S. Environmental Protection Agency
mg/L Milligrams per liter
PRG Preliminary remediation goal
RDX Cyclotrimethylenetrinitramine
RSL Regional Screening Level
SSG Site-specific goal
SVOC Semivolatile organic compound
SWRCB State Water Resources Control Board
TPH Total petroleum hydrocarbons
VOC Volatile organic compound

Sources:
CDPH. 2008. "Maximum Contaminant Levels and regulatory Dates for Drinking Water U.S EPA vs. California, November 2008."
EKI 2008a. Revised Human Health Risk Assessment and Calculation of Site Specific Goals for Lot 1, 2 and 3, Campus Bay Site, Richmond, California, April 30, 2008.
EKI 2008b. Draft Feasibility Study and Remedial Action Plan for Lots 1, 2, and 3, Campus Bay Site, Richmond, California, December 23, 2008.
EPA. 2009. "National Primary Drinking Water Regulations - List of Contaminants and their MCLs." Available on-line at: <<http://water.epa.gov/drink/contaminants/index.cfm#List>>.

TABLE 6: STATISTICAL SUMMARY OF CHEMICALS DETECTED IN APRIL 2012

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Analyte	Detection Frequency ^a	Maximum Detected Result	Average Detected Result	Location of Maximum Detected Result	Number of Locations with Detected Results	California MCL ^b	Number of Samples with Results Greater than or Equal to California MCL	Federal MCL ^c	Number of Samples with Results Greater than or Equal to Federal MCL
Metals (µg/L)									
Unfiltered (Total)									
ALUMINUM	7/11	740	232	PZ11	7	1,000	0	NC	0
ANTIMONY	9/11	3.5	1.6	B163	9	6	0	6	0
ARSENIC	10/11	9.3	3.0	BULB1	10	10	0	10	0
BARIUM	11/11	370 J	63.9	BULB2	11	1,000	0	2,000	0
BERYLLIUM	5/11	0.98 J	0.57	PZ11	5	4	0	4	0
CADMIUM	7/11	19	4.0	PZ11	7	5	2	5	2
CALCIUM	11/11	320,000	144,000	EERC	11	NC	0	NC	0
CHROMIUM	10/11	9.4	2.2	CCC2	10	50	0	100	0
COBALT	8/11	5	1.6	B163	8	NC	0	NC	0
COPPER	6/11	770	131	PZ11	6	1,300	0	1,300	0
IRON	7/11	3,100	764	BULB2	7	NC	0	NC	0
LEAD	3/11	0.97 J	0.94	B474	3	15	0	15	0
MAGNESIUM	11/11	860,000	182,000	BULB1	11	NC	0	NC	0
MANGANESE	11/11	17,000	2,690	B163	11	NC	0	NC	0
MERCURY	8/11	2.7	0.49	B195	8	2	1	2	1
MOLYBDENUM	6/11	9.5	4.7	B474	6	NC	0	NC	0
NICKEL	10/11	1,200	143	PZ11	10	100	2	NC	0
POTASSIUM	10/11	260,000	30,200	BULB1	10	NC	0	NC	0
SELENIUM	5/11	4.8	1.7	CCC2	5	50	0	50	0
SILVER	1/11	0.74 J	0.74	ETA	1	NC	0	NC	0
SODIUM	11/11	7,300,000	919,000	BULB1	11	NC	0	NC	0
THALLIUM	1/11	0.28 J	0.28	ETA	1	2	0	2	0
VANADIUM	11/11	4.5	2.3	BULB1	11	NC	0	NC	0
ZINC	7/11	6,600	958	PZ11	7	NC	0	NC	0
Filtered (Dissolved)									
ALUMINUM	13/50	600	69.1	PZ11	13	1,000	0	NC	0
ANTIMONY	20/50	3.3	0.71	B450	20	6	0	6	0
ARSENIC	40/50	18	3.1	DH	40	10	2	10	2

TABLE 6: STATISTICAL SUMMARY OF CHEMICALS DETECTED IN APRIL 2012 (Continued)

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Analyte	Detection Frequency ^a	Maximum Detected Result	Average Detected Result	Location of Maximum Detected Result	Number of Locations with Detected Results	California MCL ^b	Number of Samples with Results Greater than or Equal to California MCL	Federal MCL ^c	Number of Samples with Results Greater than or Equal to Federal MCL
Metals (µg/L)									
Filtered (Dissolved)									
BARIUM	50/50	370 J	57.0	BULB2	50	1,000	0	2,000	0
BERYLLIUM	10/50	1.1	0.40	PZ11	10	4	0	4	0
CADMIUM	20/50	22	1.8	PZ11	20	5	2	5	2
CALCIUM	50/50	510,000	99,400	DH	50	NC	0	NC	0
CHROMIUM	39/50	5.8	1.2	WTA	39	50	0	100	0
COBALT	18/50	12	2.1	DH	18	NC	0	NC	0
COPPER	15/50	800	54.6	PZ11	15	1,300	0	1,300	0
IRON	16/50	10,000	1,320	DH	16	NC	0	NC	0
MAGNESIUM	50/50	970,000	93,000	BULB1	50	NC	0	NC	0
MANGANESE	49/50	19,000	1,460	DH	49	NC	0	NC	0
MERCURY	11/50	2	0.29	B195	11	2	1	2	1
MOLYBDENUM	32/50	8.7	1.9	B474	32	NC	0	NC	0
NICKEL	30/50	1,400	59.6	PZ11	30	100	2	NC	0
POTASSIUM	39/50	270,000	9,270	BULB1	39	NC	0	NC	0
SELENIUM	11/50	67	7.2	B150	11	50	1	50	1
SILVER	3/50	0.6 J	0.38	B128	3	NC	0	NC	0
SODIUM	50/50	8,000,000	302,000	BULB1	50	NC	0	NC	0
THALLIUM	1/50	0.21 J	0.21	MFA	1	2	0	2	0
VANADIUM	49/50	7.3	3.5	B158	49	NC	0	NC	0
ZINC	32/50	7,600	258	PZ11	32	NC	0	NC	0
Volatile Organic Compounds (µg/L)									
1,1-DICHLOROETHENE	5/50	0.4 J	0.24	B163	5	6	0	7	0
1,2-DICHLOROETHANE	7/50	8.2	1.7	B163	7	0.5	6	5	1
1,4-DICHLOROBENZENE	1/50	0.1 J	0.10	PZ8	1	NC	0	NC	0
BENZENE	2/50	0.4 J	0.25	B163	2	1	0	5	0
CARBON DISULFIDE	3/50	24	8.3	DH	3	NC	0	NC	0
CARBON TETRACHLORIDE	5/50	14	4.2	CTP	5	0.5	4	5	1

TABLE 6: STATISTICAL SUMMARY OF CHEMICALS DETECTED IN APRIL 2012 (Continued)

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Analyte	Detection Frequency ^a	Maximum Detected Result	Average Detected Result	Location of Maximum Detected Result	Number of Locations with Detected Results	California MCL ^b	Number of Samples with Results Greater than or Equal to California MCL	Federal MCL ^c	Number of Samples with Results Greater than or Equal to Federal MCL
Volatile Organic Compounds (µg/L)									
CHLOROBEZENE	4/50	7.5	2.5	B163	4	NC	0	100	0
CHLOROFORM	11/50	6.6	1.3	CTP	11	NC	0	NC	0
CIS-1,2-DICHLOROETHENE	13/50	3	1.5	B120, B163	13	6	0	70	0
ETHYLBENZENE	1/50	0.1 J	0.10	BULB2	1	NC	0	NC	0
ISOPROPYLBENZENE	1/50	0.3 J	0.30	BULB2	1	NC	0	NC	0
M,P-XYLENE	1/50	0.2 J	0.20	BULB2	1	NC	0	100,000	0
METHYL TERT-BUTYL ETHER	2/50	0.6	0.40	BULB2	2	13	0	NC	0
O-XYLENE	1/50	0.3 J	0.30	BULB2	1	NC	0	100,000	0
P-ISOPROPYLTOLUENE	2/50	0.2 J	0.15	B300	2	NC	0	NC	0
SEC-BUTYLBENZENE	1/50	0.1 J	0.10	BULB2	1	NC	0	NC	0
TETRACHLOROETHENE	18/50	11	1.4	B163	18	5	1	5	1
TRANS-1,2-DICHLOROETHENE	5/50	1	0.42	ETA	5	10	0	100	0
TRICHLOROETHENE	25/50	190	42.8	B120	25	5	16	5	16
VINYL CHLORIDE	2/50	0.9	0.55	B163	2	0.5	1	2	0
Semivolatile Organic Compounds (µg/L)									
1,4-DIOXANE	13/50	12	1.7	ETA	13	NC	0	NC	0
1-METHYLNAPHTHALENE	1/50	0.05 J	0.050	EPA	1	NC	0	NC	0
4-METHYLPHENOL	1/50	3.2 J	3.2	DH	1	NC	0	NC	0
ACENAPHTHENE	1/50	0.2	0.20	EPA	1	NC	0	NC	0
ACENAPHTHYLENE	1/50	0.2	0.20	B300	1	NC	0	NC	0
ANTHRACENE	1/50	0.02 J	0.020	B473	1	NC	0	NC	0
FLUORANTHENE	1/50	0.04 J	0.040	EPA	1	NC	0	NC	0
FLUORENE	1/50	0.03 J	0.030	EPA	1	NC	0	NC	0
NAPHTHALENE	3/50	0.4	0.15	EPA	3	NC	0	NC	0
PHENANTHRENE	1/50	0.02 J	0.020	EPA	1	NC	0	NC	0
PYRENE	2/50	0.03 J	0.025	ETA	2	NC	0	NC	0

TABLE 6: STATISTICAL SUMMARY OF CHEMICALS DETECTED IN APRIL 2012 (Continued)

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Analyte	Detection Frequency ^a	Maximum Detected Result	Average Detected Result	Location of Maximum Detected Result	Number of Locations with Detected Results	California MCL ^b	Number of Samples with Results Greater than or Equal to California MCL	Federal MCL ^c	Number of Samples with Results Greater than or Equal to Federal MCL
Petroleum Hydrocarbons (mg/L)									
<u>Diesel/Motor Oil Range (extractables)</u>									
DIESEL RANGE ORGANICS	9/50	0.013 J	0.011	BULB2, CTPS, TP1	9	NC	0	NC	0
<u>Gasoline Range (purgeables)</u>									
None Detected	0/ 50	ND	ND	-	0	-	0	-	0
Solids (mg/L)									
TOTAL DISSOLVED SOLIDS	42/42	4,580	972	DH	42	NC	0	NC	0

- Notes:
- a Total number of samples does not include duplicates.
 - b California MCLs are from CDPH (2008).
 - c Federal MCLs are from EPA (2009).
 - Not applicable
 - CDPH California Department of Public Health
 - EPA U.S. Environmental Protection Agency
 - J Estimated value
 - MCL Maximum contaminant level
 - mg/L Milligrams per liter
 - NC No criteria
 - ND None detected
 - µg/L Micrograms per liter

California Department of Public Health (CDPH). 2008. "Maximum Contaminant Levels and regulatory Dates for Drinking Water U.S EPA vs. California, November 2008." Available on-line at: <http://www.cdph.ca.gov/certlic/drinkingwater/Documents/DWdocuments/EPAandCDPH-11-28-2008.pdf>. Updated November 28.

U.S. Environmental Protection Agency (EPA). 2009. "National Primary Drinking Water Regulations - List of Contaminants and their MCLs." Available on-line at: <http://water.epa.gov/drink/contaminants/index.cfm#List>.

Table 7: April 2012 VOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	1,1-Dichloroethene	1,2-Dichloroethane	1,4-Dichlorobenzene	Benzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	m-p-Xylene	Methyl tert butyl ether	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
On site Residential	1900	120	150	20		2.8	2.5E+05	130	7,200								38	6700	180	1.2
On-site Commercial/Industrial	8900	360	460	61		8.5	1.1E+06	400	34,000								110	31000	540	3.6
On site groundskeeper/maintenance	6.3E+05	2900	1900	440		160	1.4E+05	2,500	2.7E+05								22	5.1E+05	2700	300
5x aquatic criteria	160	5000	130000	3600		220	1.1E+06	24,000									440	7.0E+06	4100	26000
40x aquatic criteria	1,300	40,000	2600	28000		1800	8.4E+06	1.9E+05									3500	5.6E+07	32,000	2.1E+05
160x aquatic criteria	5,100	160,000	5	110,000		7,000	3.4E+07	7.5E+05									14,000	2.2E+08	1.3E+05	8.4E+05
Storm-water criteria																				
Drinking water Standards																				
California MCLs	6	0.5		1		0.5			6				13				5	10	5	0.5
Federal MCLs	7	5		5		5	100		70			1.0E+05		1.0E+05		5	100	5	2	
Secondary MCLs												5								
SWRCB Groundwater (drinking water source)	6	0.5	5	1		0.5	25	70	6	30		20		20			5	10	5	0.5
SWRCB Groundwater (not drinking water source)	25	200	15	46		9.3	25	330	590	43		100		100			120	590	360	3.8
SWRCB Surface water (marine)	3.2	99	11	71		4.4	50	470	22,000	30		100		100			8.9	260	81	530
Cal-modified 2004 PRGs (cancer)																				
Cal-modified 2004 PRGs (non-cancer)																240				
EPA 2011 RSL tapwater (cancer)		0.15		0.41		0.44		0.91					12				0.11		2	0.016
EPA 2010 RSL tapwater (non-cancer)	340						91		73									110		
RFGWB12004	1.3 U	0.6 J	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.7 J	1.3 U	190	1.3 U
RFGWB12104	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	2	0.5 U
RFGWB12804	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB15004	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U
RFGWB15004D	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U
RFGWB15804	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.6 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB16304	0.4 J	8.2	0.5 U	0.4 J	0.5 U	0.5 U	7.5	2.3	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	11	0.4 J	78	0.9
RFGWB175S04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.6	0.5 U
RFGWB175W04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.7	0.5 U	0.5 U	0.5 U
RFGWB17704	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB17804	1.7 U	0.5 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	170	1.7 U
RFGWB18004	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB18504	0.5 U	1.1	0.5 U	0.1 J	0.5 U	4.8	1.2	0.9	1.1	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	95	0.2 J
RFGWB19404	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB19504	1 U	0.6 J	1 U	1 U	1 U	1 U	0.9 J	1 U	1.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.8	0.3 J	120	1 U
RFGWB19704	0.3 J	0.7 J	1 U	1 U	1 U	1 U	1 U	1 U	2.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.1	0.3 J	160	1 U
RFGWB19704D	1 U	0.7 J	1 U	1 U	1 U	1 U	1 U	1 U	2.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.9 J	0.3 J	170	1 U
RFGWB27704	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB27804	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	11	0.5 U
RFGWB280A04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB280B04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB30004	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB3804	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB45004	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	26	0.5 U	0.5 U
RFGWB46004	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB47304	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	6	0.5 U
RFGWB47404	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFGWB48004	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	14	0.5 U
RFGWB49004	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 7: April 2012 VOC Detected Results
Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	1,1-Dichloroethene	1,2-Dichloroethane	1,4-Dichlorobenzene	Benzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl tert butyl ether	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
On site Residential	1900	120	150	20	2.8	2.5E+05	130	7,200									38	6700	180	1.2
On-site Commercial/Industrial	8900	360	460	61	8.5	1.1E+06	400	34,000								110	31000	540	3.6	
On site groundskeeper/maintenance	6.3E+05	2900	1900	440	160	1.4E+05	2,500	2.7E+05								22	5.1E+05	2700	300	
5x aquatic criteria	160	5000	130000	3600	220	1.1E+06	24,000									440	7.0E+06	4100	26000	
40x aquatic criteria	1,300	40,000	2600	28000	1800	8.4E+06	1.9E+05									3500	5.6E+07	32,000	2.1E+05	
160x aquatic criteria	5,100	160,000	5	110,000	7,000	3.4E+07	7.5E+05									14,000	2.2E+08	1.3E+05	8.4E+05	
Storm-water criteria																				
Drinking water Standards																				
California MCLs	6	0.5		1	0.5			6					13			5	10	5	0.5	
Federal MCLs	7	5		5	5	100		70				1.0E+05	1.0E+05		5	100	5	2		
Secondary MCLs													5							
SWRCB Groundwater (drinking water source)	6	0.5	5	1	0.5	25	70	6	30		20		20			5	10	5	0.5	
SWRCB Groundwater (not drinking water source)	25	200	15	46	9.3	25	330	590	43		100		100			120	590	360	3.8	
SWRCB Surface water (marine)	3.2	99	11	71	4.4	50	470	22,000	30		100		100			8.9	260	81	530	
Cal-modified 2004 PRGs (cancer)																				
Cal-modified 2004 PRGs (non-cancer)																240				
EPA 2011 RSL tapwater (cancer)		0.15		0.41	0.44		0.91						12			0.11		2	0.016	
EPA 2010 RSL tapwater (non-cancer)	340					91		73									110			
RFSGWBULB104	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWBULB204	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.3 J	0.1 J	0.3 J	0.2 J	0.6	0.3 J	0.5 U	0.1 J	0.5 U	0.5 U	0.3 J	0.5 U
RFSGWCCC104	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWCCC204	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1	0.5 U	0.5 U	0.5 U
RFSGWCCC304	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3	0.5 U
RFSGWCCCT04	0.2 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	85	0.5 U
RFSGWCTP04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	14	0.5 U	6.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U
RFSGWCTPS04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWDH04	0.5 U	0.5 U	0.5 U	0.5 U	24	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWEERC04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWEP04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWEP04D	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWETA04	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	9.2	0.5 U
RFSGWETA04D	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	9.3	0.5 U
RFSGWFG04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWGEO04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.8 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWMFA04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.4	0.5 U
RFSGWNRLF04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWZ1104	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	9.7	0.5 U	0.5 U
RFSGWZ804	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	1.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.1 J	0.5 U
RFSGWZ904	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.5 U	65 J	0.5 U
RFSGWRWF04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	2.8	0.5 U	0.5 U
RFSGWTP104	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.8	0.5 U
RFSGWTP204	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	13	0.5 U	0.5 U
RFSGWTP204D	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	12	0.5 U	0.5 U
RFSGWTA04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3	0.5 U	0.2 J	0.5 U	0.5 U

Notes:
Indicates the value equals or exceeds both the California and Federal MCL
Indicates the value equals or exceeds the California MCL
Indicates the value equals or exceeds one-half of the California or Federal MCL up to the MCL
All results are presented in µg/L.
µg/L Micrograms per liter
EPA U.S. Environmental Protection Agency
ID Identification
J Estimated value
MCL Maximum contaminant level
PRG Preliminary Remediation Goals
RSL Regional Screening Level
SWRCB State Water Resources Control Board
U Not detected
VOC Volatile organic compound

Table 8: April 2012 Complete SVOC Detected Results
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MCL												
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SWRCB Groundwater (not drinking water source)		5000			23			8	3.9	24		2
SWRCB Surface water (marine)		5000		20000				8000	30000	21000		2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06		2200		1500	1500		6.2		1100
EPA 2004 PRGs (non-cancer)					370							180
RFGWB12004	LPAH	1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWB12004	SVOA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB12104	LPAH	1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWB12104	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB12804	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB12804	SVOA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB15004	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB15004	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB15004D	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB15004D	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB15804	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB15804	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB16304	LPAH	0.09 J	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB16304	SVOA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB175S04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB175S04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB175W04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB175W04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB17704	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB17704	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB17804	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB17804	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB18004	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB18004	SVOA	NA	NA	9.7 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB18504	LPAH	4.4	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB18504	SVOA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB19404	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19404	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB19504	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19504	SVOA	NA	NA	9.5 U	NA	NA	NA	NA	NA	NA	NA	NA

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Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylnaphthalene	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
MCL												
SWRCB Groundwater (drinking water source)		3		20			8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000		23			8	3.9	24			2
SWRCB Surface water (marine)		5000		20000			8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06	2200			1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)				370								180
RFGWB19704	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19704	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB19704D	LPAH	1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWB19704D	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB27704	LPAH	0.1 J	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWB27704	SVOA	NA	NA	9.5 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB27804	LPAH	1.1	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB27804	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB280A04	LPAH	0.2 J	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB280A04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB280B04	LPAH	1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWB280B04	SVOA	NA	NA	9.5 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB30004	LPAH	0.8 J	0.09 U	NA	0.09 U	0.2	0.09 U	0.09 U	0.09 U	0.02 J	0.09 U	0.09 U
RFGWB30004	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB3804	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB3804	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB45004	LPAH	0.5 J	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB45004	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB46004	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB46004	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB47304	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.02 J	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB47304	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB47404	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB47404	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB48004	LPAH	0.1 J	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB48004	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWB49004	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB49004	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWBULB104	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWBULB104	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA

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Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylnaphthalene	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
MCL												
SWRCB Groundwater (drinking water source)		3			20			8	3.9	17		2
SWRCB Groundwater (not drinking water source)		5000			23			8	3.9	24		2
SWRCB Surface water (marine)		5000			20000			8000	30000	21000		2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06		2200			1500	1500	6.2		1100
EPA 2004 PRGs (non-cancer)					370							180
RFGWBULB204	LPAH	1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWBULB204	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWCCC104	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWCCC104	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWCCC204	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWCCC204	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWCCC304	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWCCC304	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWCCCT04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWCCCT04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWCTP04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWCTP04	SVOA	NA	NA	9.5 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWCTPS04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWCTPS04	SVOA	NA	NA	9.5 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWDH04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.03 J	0.09 U	0.09 U
RFGWDH04A	SVOA	NA	NA	3.2 J	NA	NA	NA	NA	NA	NA	NA	NA
RFGWEERC04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWEERC04	SVOA	NA	NA	9.5 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWEPA04	LPAH	0.5 J	0.05 J	NA	0.2	0.09 U	0.09 U	0.04 J	0.03 J	0.4	0.02 J	0.02 J
RFGWEPA04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWEPA04D	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWEPA04D	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWETA04	LPAH	12	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.03 J
RFGWETA04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWETA04D	LPAH	12	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.03 J
RFGWETA04D	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWFG04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWFG04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWGEO04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWGEO04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA

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EPA 2004 PRGs (non-cancer)					370							180
RFGWMFA04	LPAH	1.2	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWMFA04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWNRLF04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWNRLF04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWPZ1104	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWPZ1104	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWPZ804	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWPZ804	SVOA	NA	NA	9.7 UJ	NA	NA	NA	NA	NA	NA	NA	NA
RFGWPZ904	LPAH	1	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWPZ904	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWRWF04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWRWF04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWTP104	LPAH	1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWTP104	SVOA	NA	NA	9.5 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWTP204	LPAH	0.3 J	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWTP204	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWTP204D	LPAH	0.4 J	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWTP204D	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA
RFGWWTA04	LPAH	0.9 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWWTA04	SVOA	NA	NA	9.4 U	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

No California or federal MCLs are available for SVOCs detected in April 2012.

All results are presented in µg/L.

Samples were analyzed for both SVOCs and LPAH. Results for both LPAH and SVOA8270 analysis are shown.

µg/L	Micrograms per liter	PRG	Preliminary Remediation Goals
EPA	U.S. Environmental Protection Agency	RSL	Regional Screening Level
ID	Identification	SVOA	Semivolatile organic analysis
J	Estimated value	SVOC	Semivolatile organic compound
LPAH	Low-level PAH	SWRCB	State Water Resources Control Board
MCL	Maximum contaminant level	U	Not detected

Table 10: April 2012 TPH Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics	TPH as Gasoline	TPH - Oil Range Organics
SWRCB Groundwater (drinking water source)	100		
SWRCB Groundwater (not drinking water source)	210		
RFGWB12004	50 U	97 UJ	300 U
RFGWB12104	50 U	50 UJ	300 U
RFGWB12804	50 UJ	50 UJ	300 U
RFGWB15004	50 U	50 UJ	300 U
RFGWB15004D	50 U	50 UJ	300 U
RFGWB15804	50 U	50 UJ	300 U
RFGWB16304	50 UJ	50 UJ	300 U
RFGWB175S04	50 U	50 UJ	300 U
RFGWB175W04	50 U	50 UJ	300 U
RFGWB17704	50 U	50 UJ	300 U
RFGWB17804	11 J	94 UJ	300 U
RFGWB18004	50 U	50 UJ	300 U
RFGWB18504	50 U	50 UJ	300 U
RFGWB19404	50 U	50 UJ	300 U
RFGWB19504	50 U	88 UJ	300 U
RFGWB19704	50 U	92 UJ	300 U
RFGWB19704D	50 U	95 UJ	300 U
RFGWB27704	50 U	50 UJ	300 U
RFGWB27804	10 J	50 UJ	300 U
RFGWB280A04	50 U	50 UJ	300 U
RFGWB280B04	50 U	50 UJ	300 U
RFGWB30004	8.6 J	50 UJ	300 U
RFGWB3804	50 U	50 UJ	300 U
RFGWB45004	50 U	50 UJ	300 U
RFGWB46004	50 U	50 UJ	300 U
RFGWB47304	50 U	50 UJ	300 U
RFGWB47404	50 U	50 UJ	300 U
RFGWB48004	50 U	50 UJ	300 U
RFGWB49004	8 J	50 UJ	300 U
RFGWBULB104	50 U	50 UJ	300 U
RFGWBULB204	13 J	50 UJ	300 U
RFGWCCC104	49 U	50 UJ	290 U
RFGWCCC204	49 U	50 UJ	290 U
RFGWCCC304	49 U	50 UJ	290 U
RFGWCCCT04	50 U	54 UJ	300 U
RFGWCTP04	50 U	50 UJ	300 U
RFGWCTPS04	13 J	50 UJ	300 U
RFGWDH04A	8.5 J	50 UJ	300 U
RFGWEERC04	50 U	50 UJ	300 U
RFGWEPA04	50 U	50 UJ	300 U
RFGWEPA04D	50 U	50 UJ	300 U
RFGWETA04	49 U	50 UJ	290 U
RFGWETA04D	49 U	50 UJ	290 U
RFGWFG04	50 U	50 UJ	300 U
RFGWGEO04	50 U	50 UJ	300 U
RFGWMFA04	50 U	50 UJ	300 U
RFGWNRLF04	50 U	50 UJ	300 U
RFGWPZ1104	50 U	50 UJ	300 U
RFGWPZ804	50 U	50 UJ	300 U
RFGWPZ904	50 U	50 UJ	300 U

Table 10: April 2012 TPH Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics	TPH as Gasoline	TPH - Oil Range Organics
SWRCB Groundwater (drinking water source)	100		
SWRCB Groundwater (not drinking water source)	210		
RFGWRWF04	50 U	50 UJ	300 U
RFGWTP104	13 J	50 UJ	300 U
RFGWTP204	50 U	50 UJ	300 U
RFGWTP204D	50 U	50 UJ	300 U
RFGWWT A04	9.9 J	50 UJ	300 U

Notes:

All results are presented in µg/L.

µg/L

ID

J

SWRCB

TPH

U

Micrograms per liter

Identification

Estimated value

State Water Resources Control Board

Total petroleum hydrocarbons

Not detected

TABLE 11: STATISTICAL SUMMARY OF CHEMICALS DETECTED FROM NOVEMBER 2010 THROUGH APRIL 2012Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Analyte	Detection Frequency ^a	Maximum Detected Result	Average Detected Result	Location of Maximum Detected Result	Number of Locations with Detected Results	California MCL ^b	Number of Samples with Results Greater than or Equal to California MCL	Federal MCL ^c	Number of Samples with Results Greater than or Equal to Federal MCL
Metals (µg/L)									
Unfiltered (Total)									
ALUMINUM	71/85	30,000	617	FG	46	1,000	4	NC	0
ANTIMONY	28/85	4	1.1	CCC2	12	6	0	6	0
ARSENIC	84/85	22	3.6	ETA	52	10	5	10	5
BARIUM	85/85	540	57.1	BULB2	52	1,000	0	2,000	0
BERYLLIUM	10/85	2.6	0.84	FG	8	4	0	4	0
BORON	49/49	1,700	191	BULB1	49	NC	0	NC	0
CADMIUM	28/85	35	3.5	PZ11	12	5	6	5	6
CALCIUM	85/85	530,000	126,000	DH	52	NC	0	NC	0
CHROMIUM	66/85	50	3.3	FG	44	50	1	100	0
COBALT	61/85	49	2.8	FG	36	NC	0	NC	0
COPPER	58/85	1,300	40.5	PZ11	41	1,300	1	1,300	1
IRON	54/85	34,000	1,200	FG	35	NC	0	NC	0
LEAD	20/85	33	4.2	FG	10	15	1	15	1
MAGNESIUM	85/85	980,000	127,000	BULB1	52	NC	0	NC	0
MANGANESE	85/85	20,000	1,900	B163	52	NC	0	NC	0
MERCURY	40/85	15	1.1	B195	22	2	6	2	6
MOLYBDENUM	73/85	33	3.0	BULB1	52	NC	0	NC	0
NICKEL	77/85	2,400	70.2	PZ11	48	100	9	NC	0
POTASSIUM	80/85	300,000	14,200	BULB1	48	NC	0	NC	0
SELENIUM	21/85	8.6	2.3	BULB1	12	50	0	50	0
SILVER	1/85	0.74 J	0.74	ETA	1	NC	0	NC	0
SODIUM	85/85	9,700,000	540,000	BULB1	52	NC	0	NC	0
THALLIUM	12/85	0.63 J	0.26	CCC2	12	2	0	2	0
VANADIUM	63/85	91	4.5	FG	35	NC	0	NC	0
ZINC	60/85	13,000	364	PZ11	42	NC	0	NC	0
Filtered (Dissolved)									
ALUMINUM	22/152	1,200	113	PZ11	18	1,000	1	NC	0
ANTIMONY	85/152	4.1	0.63	B178	45	6	0	6	0

TABLE 11: STATISTICAL SUMMARY OF CHEMICALS DETECTED FROM NOVEMBER 2010 THROUGH APRIL 2012 (Continued)

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Analyte	Detection Frequency ^a	Maximum Detected Result	Average Detected Result	Location of Maximum Detected Result	Number of Locations with Detected Results	California MCL ^b	Number of Samples with Results Greater than or Equal to California MCL	Federal MCL ^c	Number of Samples with Results Greater than or Equal to Federal MCL
Metals (µg/L)									
Filtered (Dissolved)									
ARSENIC	140/152	18	2.7	DH	52	10	4	10	4
BARIUM	152/152	370 J	48.6	BULB2	52	1,000	0	2,000	0
BERYLLIUM	22/152	2.1 J	0.39	PZ11	18	4	0	4	0
CADMIUM	51/152	30	2.0	PZ11	36	5	6	5	6
CALCIUM	152/152	810,000	99,600	DH	52	NC	0	NC	0
CHROMIUM	103/152	13	1.3	CCC2	44	50	0	100	0
COBALT	57/152	12	1.6	DH	32	NC	0	NC	0
COPPER	73/152	1,200	36.2	PZ11	48	1,300	0	1,300	0
IRON	39/152	10,000	787	DH	27	NC	0	NC	0
LEAD	46/152	4.6	0.95	B195	41	15	0	15	0
MAGNESIUM	151/152	1,400,000	91,800	BULB1	52	NC	0	NC	0
MANGANESE	144/152	20,000	1,170	B163	51	NC	0	NC	0
MERCURY	31/152	10	0.54	B195	27	2	2	2	2
MOLYBDENUM	66/152	18	2.2	B474	42	NC	0	NC	0
NICKEL	95/152	1,700 J	47.0	PZ11	48	100	6	NC	0
POTASSIUM	140/152	270,000	6,900	BULB1	52	NC	0	NC	0
SELENIUM	53/152	67	3.0	B150	37	50	1	50	1
SILVER	11/152	0.6 J	0.20	B128	10	NC	0	NC	0
SODIUM	152/152	8,200,000	262,000	BULB1	52	NC	0	NC	0
THALLIUM	24/152	1.6	0.26	B195	23	2	0	2	0
VANADIUM	144/152	14	3.8	EXT	52	NC	0	NC	0
ZINC	119/152	10,000	186	PZ11	51	NC	0	NC	0
Volatile Organic Compounds (µg/L)									
1,1,1-TRICHLOROETHANE	1/201	0.2 J	0.20	B450	1	200	0	200	0
1,1-DICHLOROETHENE	16/201	2.4 J	0.48	PZ11	8	6	0	7	0
1,2-DICHLOROETHANE	28/201	9	1.7	B163	8	0.5	20	5	4
1,2-DICHLOROPROPANE	3/201	0.5	0.47	WTA	1	5	0	5	0

TABLE 11: STATISTICAL SUMMARY OF CHEMICALS DETECTED FROM NOVEMBER 2010 THROUGH APRIL 2012 (Continued)

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Analyte	Detection Frequency ^a	Maximum Detected Result	Average Detected Result	Location of Maximum Detected Result	Number of Locations with Detected Results	California MCL ^b	Number of Samples with Results Greater than or Equal to California MCL	Federal MCL ^c	Number of Samples with Results Greater than or Equal to Federal MCL
Volatile Organic Compounds (µg/L)									
1,4-DICHLOROBENZENE	1/201	0.1 J	0.10	PZ8	1	NC	0	NC	0
2-BUTANONE	9/201	200	59.1	NRLF	9	NC	0	NC	0
4-METHYL-2-PENTANONE	1/152	1.5 J	1.5	B300	1	NC	0	NC	0
ACETONE	8/201	40 J	10.7	B474	8	NC	0	NC	0
BENZENE	8/201	4.1	0.98	BULB2	4	1	2	5	0
BROMOMETHANE	3/201	0.4 J	0.27	B38	3	NC	0	NC	0
CARBON DISULFIDE	4/152	24	6.4	DH	3	NC	0	NC	0
CARBON TETRACHLORIDE	23/201	25	4.6	CTP	7	0.5	20	5	5
CHLOROBENZENE	12/201	8.4	3.1	B163	5	NC	0	100	0
CHLOROFORM	64/201	9.5	1.6	B177	26	NC	0	NC	0
CHLOROMETHANE	2/201	5.1	4.1	B300	2	NC	0	NC	0
CIS-1,2-DICHLOROETHENE	49/201	87	3.9	PZ11	16	6	2	70	1
ETHYLBENZENE	1/201	0.1 J	0.10	BULB2	1	NC	0	NC	0
ISOPROPYLBENZENE	1/201	0.3 J	0.30	BULB2	1	NC	0	NC	0
M,P-XYLENE	2/201	0.4 J	0.30	B195	2	NC	0	100,000	0
METHYL TERT-BUTYL ETHER	8/201	0.9	0.40	BULB2	4	13	0	NC	0
METHYLENE CHLORIDE	3/201	0.6	0.50	EPA	3	NC	0	NC	0
NAPHTHALENE	1/4	1.6 J	1.6	B300	1	NC	0	NC	0
O-XYLENE	1/201	0.3 J	0.30	BULB2	1	NC	0	100,000	0
P-ISOPROPYLTOLUENE	5/201	3.5	0.84	B300	3	NC	0	NC	0
SEC-BUTYLBENZENE	1/201	0.1 J	0.10	BULB2	1	NC	0	NC	0
TERT-BUTYLBENZENE	1/201	0.1 J	0.10	B300	1	NC	0	NC	0
TETRACHLOROETHENE	67/201	67	3.2	PZ11	24	5	6	5	6
TOLUENE	4/201	6.8	2.9	BULB2	4	150	0	1,000	0
TRANS-1,2-DICHLOROETHENE	21/201	9.6	0.90	PZ11	9	10	0	100	0
TRICHLOROETHENE	103/201	690	54.3	PZ11	34	5	69	5	69
VINYL CHLORIDE	10/201	1.2	0.53	B163	4	0.5	5	2	0

TABLE 11: STATISTICAL SUMMARY OF CHEMICALS DETECTED FROM NOVEMBER 2010 THROUGH APRIL 2012 (Continued)Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Analyte	Detection Frequency ^a	Maximum Detected Result	Average Detected Result	Location of Maximum Detected Result	Number of Locations with Detected Results	California MCL ^b	Number of Samples with Results Greater than or Equal to California MCL	Federal MCL ^c	Number of Samples with Results Greater than or Equal to Federal MCL
Semivolatile Organic Compounds (µg/L)									
1,4-DIOXANE	63/201	12	1.6	ETA	26	NC	0	NC	0
1-METHYLNAPHTHALENE	3/201	0.05 J	0.039	EPA	3	NC	0	NC	0
3/4-METHYLPHENOL	1/42	13	13.0	CTP	1	NC	0	NC	0
4-METHYLPHENOL	1/159	3.2 J	3.2	DH	1	NC	0	NC	0
ACENAPHTHENE	3/203	0.2	0.12	EPA	3	NC	0	NC	0
ACENAPHTHYLENE	3/203	4.9	1.7	B300	1	NC	0	NC	0
ANTHRACENE	1/203	0.02 J	0.020	B473	1	NC	0	NC	0
BENZOIC ACID	1/152	180 J	180	B300	1	NC	0	NC	0
BENZYL ALCOHOL	1/201	73 J	73.0	B300	1	NC	0	NC	0
BIS(2-ETHYLHEXYL)PHTHALATE	7/201	27	6.0	MFA	7	NC	0	6	2
DIETHYLPHTHALATE	1/201	0.6 J	0.60	EERC	1	NC	0	NC	0
FLUORANTHENE	2/203	0.041 J	0.041	ETA	2	NC	0	NC	0
FLUORENE	2/203	0.17	0.10	ETA	2	NC	0	NC	0
NAPHTHALENE	12/201	0.4	0.074	EPA	10	NC	0	NC	0
PHENANTHRENE	1/203	0.02 J	0.020	EPA	1	NC	0	NC	0
PYRENE	5/203	0.088	0.040	ETA	3	NC	0	NC	0
PCBs/Pesticides (µg/L)									
PCBs									
AROCLOR-1248	1/51	0.09 J	0.090	B120	1	NC	0	NC	0
Pesticides									
None Detected	0/ 49	ND	ND	-	0	-	0	-	0
Petroleum Hydrocarbons (mg/L)									
Diesel/Motor Oil Range (extractables)									
DIESEL RANGE ORGANICS	33/200	0.37 ZJ	0.060	B474	27	NC	0	NC	0
MOTOR OIL RANGE ORGANICS	2/200	0.13 J	0.11	PZ9	2	NC	0	NC	0
Gasoline Range (purgeables)									
GASOLINE RANGE ORGANICS	30/201	0.31 ZJ	0.077	PZ11	19	NC	0	NC	0

TABLE 11: STATISTICAL SUMMARY OF CHEMICALS DETECTED FROM NOVEMBER 2010 THROUGH APRIL 2012 (Continued)

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Analyte	Detection Frequency ^a	Maximum Detected Result	Average Detected Result	Location of Maximum Detected Result	Number of Locations with Detected Results	California MCL ^b	Number of Samples with Results Greater than or Equal to California MCL	Federal MCL ^c	Number of Samples with Results Greater than or Equal to Federal MCL
Explosives (µg/L)									
PERCHLORATE	3/52	3.1	2.2	B185	3	6	0	NC	0
Hardness (mg/L)									
HARDNESS	49/49	4,400	638	BULB1	49	NC	0	NC	0
Solids (mg/L)									
TOTAL DISSOLVED SOLIDS	196/196	27,600	1,410	BULB1	56	NC	0	NC	0

- Notes:
- a Total number of samples does not include duplicates.
 - b California MCLs are from CDPH (2008).
 - c Federal MCLs are from EPA (2009).
 - Not applicable
 - CDPH California Department of Public Health
 - EPA U.S. Environmental Protection Agency
 - J Estimated value
 - MCL Maximum contaminant level
 - mg/L Milligrams per liter
 - NC No criteria
 - ND None detected
 - PCB Polychlorinated biphenyl
 - TPH Total petroleum hydrocarbons
 - Z Chromatographic pattern does not resemble TPH fuel pattern (individual peaks)

California Department of Public Health (CDPH). 2008. "Maximum Contaminant Levels and regulatory Dates for Drinking Water U.S EPA vs. California, November 2008." Available on-line at: <http://www.cdph.ca.gov/certlic/drinkingwater/Documents/DWdocuments/EPAandCDPH-11-28-2008.pdf>. Updated November 28.

U.S. Environmental Protection Agency (EPA). 2009. "National Primary Drinking Water Regulations - List of Contaminants and their MCLs." Available on-line at: <http://water.epa.gov/drink/contaminants/index.cfm#List>.

Table 12: Complete VOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	2-Bromobenzene (MEX)	4-Methyl-2-pentanone	Acetone	Benzene	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	Chloroethane	cis-1,2-Dichloroethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl tert-butyl ether	Methylene chloride	Naphthalene	o-Xylene	Propyltoluene	sec-Butylbenzene	tert-Butylbenzene	Tetrahydrofuran	Toluene	trans-1,2-Dichloroethane	Trichloroethene	Vinyl chloride		
On site Residential	1900	120	120	150	2.8E+06		7.9E+06	20			2.8	2.5E+05	130		7,200							210					38	3500	6700	180	1.2		
On-site Commercial/Industrial	8900	360	370	460	1.3E+07		3.7E+07	61			8.5	1.1E+06	400		34,000							640					110	1.6E+05	31000	540	3.6		
On site groundskeeper/maintenance	6.3E+05	2900	1900	1900	14000000		22000000	440			160	1.4E+05	2,500		2.7E+05							90					22	5.7E+05	5.1E+05	2700	300		
5x aquatic criteria	160	5000	2000	130000				3600			220	1.1E+06	24,000														440	1.0E+07	7.0E+06	4100	26000		
40x aquatic criteria	1,300	40,000	16,000	2,600				28,000			1,800	8.4E+06	1.9E+05														3,500	8.0E+07	5.6E+07	32,000	2.1E+05		
160x aquatic criteria	5,100	160,000	62,000	5				110,000			7,000	3.4E+07	7.5E+05														14,000	3.2E+08	2.2E+08	1.3E+05	8.4E+05		
Storm-water criteria																																	
Drinking water Standards																																	
California MCLs	200	6	0.5	5				1			0.5				6				13							5	150	10	5	0.5			
Federal MCLs	200	7	5	5				5			5	100			70			1.0E+05				1.0E+05				5	1000	100	5	2			
Secondary MCLs																			5														
SWRCB Groundwater (drinking water source)	62	6	0.5	5	5	4200		1500	1	9.8	0.5	25	70	41	6	30					17	20				5	40	10	5	0.5			
SWRCB Groundwater (not drinking water source)	62	25	200	100	15	14,000		1,500	46	160	9.3	25	330	41	590	43					24	100				120	130	590	360	3.8			
SWRCB Surface water (marine)	3100	3.2	99	10	11	8400		1500	71	3200	4.4	50	470	3200	22,000	30					21	100				8.9	40	260	81	530			
Cal-modified 2004 PRGs (cancer)																																	
Cal-modified 2004 PRGs (non-cancer)																									240	240							
EPA 2011 RSL tapwater (cancer)			0.15	0.39				0.41			0.44		0.91							12		0.14											
EPA 2010 RSL tapwater (non-cancer)	9300	340						22000		8.7		91	0.91															2300	110			0.016	

Notes:
Indicates the value equals or exceeds both the California and Federal MCL
Indicates the value equals or exceeds the California MCL
Indicates the value equals or exceeds one-half the California or Federal MCL up to the MCL
 All results are presented in µg/L.

µg/L Micrograms per liter
 EPA U.S. Environmental Protection Agency
 ID Identification
 J Estimated value
 MCL Maximum contaminant level
 NA Not sampled
 PRG Preliminary Remediation Goals
 RSL Regional Screening Level
 SWRCB State Water Resources Control Board
 U Not detected
 VOC Volatile organic compound

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1- Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWB12001	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWB12001	SVOA8270	0.9 U	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWB12002	LPAH	0.03 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB12002	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB12003	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB12003	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB12004	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWB12004	SVOA	NA	NA	NA	9.6 U	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	NA	NA	NA	NA	NA
RFSGWB12101	LPAH	NA	0.048 U	NA	NA	0.048 U	0.048 U	0.048 U	NA	NA	NA	NA	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
RFSGWB12101	SVOA8270	0.9 U	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWB12102	LPAH	0.06 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB12102	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB12103	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB12103	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWB12104	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWB12104	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB12801	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWB12801	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	6.2	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB12801D	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWB12801D	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB12802	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB12802	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB12803	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB12803	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB12804	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB12804	SVOA	NA	NA	NA	9.6 U	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	NA	NA	NA	NA	NA
RFSGWB15001	LPAH	NA	0.048 U	NA	NA	0.048 U	0.048 U	0.048 U	NA	NA	NA	NA	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
RFSGWB15001	SVOA8270	1 U	NA	4.8 U	NA	1 U	1 U	1 U	NA	4.8 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB15002	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB15002	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

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Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWB15003	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB15003	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB15003D	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB15003D	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB15004	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB15004	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWB15004D	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB15004D	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB15801	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWB15801	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB15802	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB15802	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB15803	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB15803	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	2.4 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWB15804	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB15804	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB16301	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWB16301	SVOA8270	0.5 J	NA	NA	5 U	1 U	1 U	1 U	NA	5 U	5.7	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB16302	LPAH	0.2 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB16302	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 UJ	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB16303	LPAH	0.2 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB16303	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB16304	LPAH	0.09 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB16304	SVOA	NA	NA	NA	9.6 U	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	NA	NA	NA	NA	NA
RFSGWB175S01	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWB175S01	SVOA8270	0.9 U	NA	NA	4.7 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWB175S02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB175S02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB175S03	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB175S03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB175S04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB175S04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1- Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFGWB175W01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFGWB175W01	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFGWB175W02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB175W02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB175W03	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB175W03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB175W04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB175W04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB17701	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFGWB17701	SVOA8270	0.9 U	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFGWB17702	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB17702	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB17703	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB17703	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB17704	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB17704	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB17801	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFGWB17801	SVOA8270	1 U	NA	NA	5 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFGWB17802	LPAH	0.04 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB17802	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB17803	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB17803	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB17804	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB17804	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB18001	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFGWB18001	SVOA8270	1 U	NA	4.8 U	NA	1 U	1 U	1 U	NA	4.8 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFGWB18002	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB18002	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 UJ	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB18003	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWB18003	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB18003D	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB18003D	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	20 UJ	9.4 U	NA	NA	NA	NA	NA

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EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFGWB18004	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB18004	SVOA	NA	NA	NA	9.7 U	NA	NA	NA	49 U	9.7 U	9.7 U	9.7 U	NA	NA	NA	NA	NA
RFGWB18501	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFGWB18501	SVOA8270	10	NA	NA	4.7 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.5 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFGWB18502	LPAH	6	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.02 J
RFGWB18502	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	20 UJ	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB18502D	LPAH	6.8	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB18502D	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB18503	LPAH	6.1	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB18503	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB18503D	LPAH	6.3	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB18503D	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB18504	LPAH	4.4	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB18504	SVOA	NA	NA	NA	9.6 U	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	NA	NA	NA	NA	NA
RFGWB19401	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFGWB19401	SVOA8270	0.9 U	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFGWB19402	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19402	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 UJ	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB19403	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19403	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB19404	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19404	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB19501	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFGWB19501	SVOA8270	0.9 U	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFGWB19502	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19502	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB19502D	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19502D	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB19503	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 UJ	NA	NA	NA	NA	0.09 UJ	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19503	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB19504	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB19504	SVOA	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	NA	NA	NA	NA	NA

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWB19701	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWB19701	SVOA8270	0.9 U	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWB19701D	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWB19701D	SVOA8270	1 U	NA	4.8 U	NA	1 U	1 U	1 U	NA	4.8 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB19702	LPAH	0.04 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB19702	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB19703	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB19703	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB19704	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB19704	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB19704D	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWB19704D	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB27701	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWB27701	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB27702	LPAH	0.2 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB27702	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB27703	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB27703	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB27704	LPAH	0.1 J	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWB27704	SVOA	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	NA	NA	NA	NA	NA
RFSGWB27801	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWB27801	SVOA8270	1.4	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB27802	LPAH	1.1	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB27802	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB27803	LPAH	0.9 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB27803	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB27804	LPAH	1.1	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB27804	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB280A01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.035 J	0.05 U	0.05 U
RFSGWB280A01	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB280A02	LPAH	0.2 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB280A02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWB280A03	LPAH	0.2 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB280A03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWB280A04	LPAH	0.2 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB280A04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB280B01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWB280B01	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB280B02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB280B02	SVOA	NA	10 U	NA	10 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
RFSGWB280B03	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB280B03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB280B04	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWB280B04	SVOA	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	NA	NA	NA	NA	NA
RFSGWB30001	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWB30001	SVOA8270	1.4	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWB30002	LPAH	0.1 J	0.09 U	NA	NA	0.09 U	0.08 J	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB30002	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB30003	LPAH	5.9	0.5 U	NA	NA	0.5 U	4.9	0.5 U	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RFSGWB30003	SVOA8270	NA	NA	NA	97 U	NA	NA	NA	180 J	73 J	97 U	97 U	NA	NA	NA	NA	NA
RFSGWB30004	LPAH	0.8 J	0.09 U	NA	NA	0.09 U	0.2	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.02 J	0.09 U	0.09 U
RFSGWB30004	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB3801	LPAH	NA	0.05 UJ	NA	NA	0.05 UJ	0.05 UJ	0.05 UJ	NA	NA	NA	NA	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
RFSGWB3801	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB3802	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB3802	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB3802D	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB3802D	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB3803	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB3803	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB3804	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB3804	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	13 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWB45002	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB45002	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWB45003	LPAH	0.3 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.02 J	0.09 U	0.09 U
RFSGWB45003	SVOA8270	NA	NA	NA	9.6 UJ	NA	NA	NA	48 UJ	9.6 UJ	9.6 UJ	9.6 UJ	NA	NA	NA	NA	NA
RFSGWB45004	LPAH	0.5 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB45004	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWB46001	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWB46001	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB46002	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 UJ
RFSGWB46002	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB46003	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB46003	SVOA8270	NA	NA	NA	9.6 U	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	NA	NA	NA	NA	NA
RFSGWB46004	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB46004	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWB47301	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWB47301	SVOA8270	0.5 J	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	0.5 J	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB47302	LPAH	0.06 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB47302	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB47303	LPAH	0.3 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB47303	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB47304	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.02 J	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB47304	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB47401	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWB47401	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB47402	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB47402	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWB47403	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB47403	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB47404	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB47404	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWB48001	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWB48001	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	0.8 J	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWB48002	LPAH	0.2 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWB48002	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1- Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFGWB48003	LPAH	0.3 J	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWB48003	SVOA8270	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	NA	NA	NA	NA	NA
RFGWB48004	LPAH	0.1 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB48004	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB49001	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFGWB49001	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFGWB49002	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB49002	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWB49003	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB49003	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWB49004	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWB49004	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWBULB101	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFGWBULB101	SVOA8270	0.9 U	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.6 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFGWBULB102	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWBULB102	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWBULB103	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWBULB103	SVOA8270	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	NA	NA	NA	NA	NA
RFGWBULB104	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWBULB104	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWBULB201	LPAH	NA	0.033 J	NA	NA	0.062	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.19	0.05 U	0.05 U
RFGWBULB201	SVOA8270	1.3	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFGWBULB202	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWBULB202	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFGWBULB203	LPAH	1.2	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWBULB203	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	19 UJ	9.4 U	NA	NA	NA	NA	NA
RFGWBULB204	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFGWBULB204	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFGWCCC101	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFGWCCC101	SVOA8270	0.9 U	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFGWCCC102	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFGWCCC102	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWCCC103	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCC103	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWCCC104	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCC104	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWCCC201	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWCCC201	SVOA8270	1 U	NA	4.8 U	NA	1 U	1 U	1 U	NA	4.8 U	0.6 J	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWCCC202	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWCCC202	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWCCC203	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCC203	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWCCC204	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCC204	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWCCC301	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWCCC301	SVOA8270	0.9 U	NA	NA	4.7 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWCCC301D	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWCCC301D	SVOA8270	0.9 U	NA	NA	4.7 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	1 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWCCC302	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCC302	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 UJ	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWCCC303	LPAH	0.1 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCC303	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWCCC303D	LPAH	0.1 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCC303D	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWCCC304	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCC304	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWCCCT01	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWCCCT01	SVOA8270	0.9 U	NA	NA	4.7 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWCCCT02	LPAH	0.1 J	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWCCCT02	SVOA	NA	9.5 U	NA	9.5 U	9.5 U	9.5 U	9.5 U	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
RFSGWCCCT03	LPAH	0.08 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCCT03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWCCCT04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCCCT04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
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EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWCTP01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWCTP01	SVOA8270	1 U	NA	13	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWCTP01D	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWCTP01D	SVOA8270	1 U	NA	9	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWCTP02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCTP02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWCTP03	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCTP03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWCTP04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCTP04	SVOA	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	NA	NA	NA	NA	NA
RFSGWCTPS01A	SVOA8270	1.2 U	NA	6 U	NA	1.2 U	1.2 U	1.2 U	NA	6 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
RFSGWCTPS01B	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWCTPS02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCTPS02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWCTPS03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWCTPS03A	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.02 J	0.1 U	0.1 U
RFSGWCTPS04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWCTPS04	SVOA	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	NA	NA	NA	NA	NA
RFSGWDH01	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWDH01	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWDH02	LPAH	0.04 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWDH02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 UJ	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWDH03	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWDH03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	2.2 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWDH04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.03 J	0.09 U	0.09 U
RFSGWDH04A	SVOA	NA	NA	NA	3.2 J	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWEERC01	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	0.6 J	1 U	1 U	1 U	1 U	1 U
RFSGWEERC01A	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWEERC02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWEERC02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWEERC03	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWEERC03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1- Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWEEERC04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWEEERC04	SVOA	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 UJ	9.5 U	NA	NA	NA	NA	NA
RFSGWEP A01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.042 J	0.05 U	0.05 U
RFSGWEP A01	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWEP A02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWEP A02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWEP A03	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.02 J	0.1 U	0.1 U
RFSGWEP A03	SVOA8270	NA	NA	NA	9.8 U	NA	NA	NA	49 U	9.8 U	9.8 UJ	9.8 U	NA	NA	NA	NA	NA
RFSGWEP A04	LPAH	0.5 J	0.05 J	NA	NA	0.2	0.09 U	0.09 U	NA	NA	NA	NA	0.04 J	0.03 J	0.4	0.02 J	0.02 J
RFSGWEP A04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWEP A04D	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWEP A04D	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWETA01	LPAH	NA	0.033 J	NA	NA	0.11	0.05 U	0.05 U	NA	NA	NA	NA	0.041 J	0.17	0.05 U	0.05 U	0.088
RFSGWETA01	SVOA8270	12	NA	4.7 U	NA	0.9 U	0.9 U	0.9 U	NA	4.7 U	1.1	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWETA01D	LPAH	NA	0.032 J	NA	NA	0.11	0.05 U	0.05 U	NA	NA	NA	NA	0.035 J	0.16	0.05 U	0.05 U	0.074
RFSGWETA01D	SVOA8270	12	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	0.5 J	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWETA02	LPAH	8.1	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWETA02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWETA03	LPAH	6.1	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.04 J
RFSGWETA03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWETA04	LPAH	12	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.03 J
RFSGWETA04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWETA04D	LPAH	12	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.03 J
RFSGWETA04D	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWFG01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWFG01	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWFG02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWFG02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWFG02D	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWFG02D	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWFG03	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWFG03	SVOA8270	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	NA	NA	NA	NA	NA

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWFG04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWFG04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWGEO01	LPAH	NA	0.047 U	NA	NA	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
RFSGWGEO01	SVOA8270	0.9 U	NA	NA	4.7 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
RFSGWGEO02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 UJ
RFSGWGEO02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWGEO03	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWGEO03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWGEO04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWGEO04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWMFA01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWMFA01	SVOA8270	2.3	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	27	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWMFA02	LPAH	1.1	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWMFA02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWMFA03	LPAH	1.7	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWMFA03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWMFA04	LPAH	1.2	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWMFA04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWNRLF01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.029 J	0.05 U	0.05 U
RFSGWNRLF01	SVOA8270	1 U	NA	4.8 U	NA	1 U	1 U	1 U	NA	4.8 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWNRLF02	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 UJ
RFSGWNRLF02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 UJ	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWNRLF03	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWNRLF03	SVOA8270	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 UJ	9.5 U	NA	NA	NA	NA	NA
RFSGWNRLF04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWNRLF04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWPZ1101	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWPZ1101	SVOA8270	0.7 J	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWPZ1102	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWPZ1102	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWPZ1103	LPAH	0.3 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWPZ1103	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylphtalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWPZ1104	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWPZ1104	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWPZ801	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWPZ801	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWPZ802	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWPZ802	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWPZ803	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWPZ803	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWPZ804	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWPZ804	SVOA	NA	NA	NA	9.7 UJ	NA	NA	NA	49 UJ	9.7 UJ	9.7 UJ	9.7 UJ	NA	NA	NA	NA	NA
RFSGWPZ901	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWPZ901	SVOA8270	1.6	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWPZ902	LPAH	0.9 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 UJ
RFSGWPZ902	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWPZ903	LPAH	1.2	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWPZ903	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWPZ903D	LPAH	1.2	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWPZ903D	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWPZ904	LPAH	1	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWPZ904	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWRWF01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWRWF01	SVOA8270	0.7 J	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWRWF02	LPAH	0.06 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWRWF02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWRWF03	LPAH	0.6 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWRWF03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWRWF04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWRWF04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWTP101	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.036 UJ
RFSGWTP101	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWTP102	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWTP102	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1-Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL											6						
SWRCB Groundwater (drinking water source)		3				20				4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000				23				32		8	3.9	24			2
SWRCB Surface water (marine)		5000				20000				5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8					0.14		
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06			2200				730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)						370											180
RFSGWTP103	LPAH	0.05 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWTP103	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWTP104	LPAH	1 U	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWTP104	SVOA	NA	NA	NA	9.5 U	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	NA	NA	NA	NA	NA
RFSGWTP201	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWTP201	SVOA8270	1.1	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWTP202	LPAH	0.7 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWTP202	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWTP203	LPAH	0.9 J	0.1 U	NA	NA	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
RFSGWTP203	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWTP204	LPAH	0.3 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWTP204	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA
RFSGWTP204D	LPAH	0.4 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWTP204D	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	23 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWTA01	LPAH	NA	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
RFSGWTA01	SVOA8270	1 U	NA	5 U	NA	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
RFSGWTA02	LPAH	0.06 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWTA02	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 UJ	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWTA02D	LPAH	0.07 J	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWTA02D	SVOA	NA	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RFSGWTA03	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWTA03	SVOA8270	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	3.3 UJ	9.4 U	NA	NA	NA	NA	NA
RFSGWTA04	LPAH	0.9 U	0.09 U	NA	NA	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
RFSGWTA04	SVOA	NA	NA	NA	9.4 U	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	NA	NA	NA	NA	NA

Table 13: Complete SVOC Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	SVOA8270/ LPAH Analysis	1,4-Dioxane	1- Methylnaphthalene	3/4-Methylphenol	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzoic acid	Benzyl alcohol	Bis(2-ethylhexyl) phthalate	Diethyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
Federal MCL										6							
SWRCB Groundwater (drinking water source)		3			20					4		8	3.9	17			2
SWRCB Groundwater (not drinking water source)		5000			23					32		8	3.9	24			2
SWRCB Surface water (marine)		5000			20000					5.9		8000	30000	21000			2000
EPA 2010 RSL tapwater (cancer)		6.1	2300							4.8				0.14			
EPA 2010 RSL tapwater (non-cancer)		3700	2.6E+06		2200					730		1500	1500	6.2			1100
EPA 2004 PRGs (non-cancer)					370												180

Notes:

Indicates the value exceeds the federal MCL

All results are presented in µg/L.

Some samples were analyzed for both SVOCs and LPAH. Results for both LPAH and SVOA8270 analysis are shown for those samples.

- µg/L Micrograms per liter
- EPA U.S. Environmental Protection Agency
- ID Identification
- J Estimated value
- LPAH Low-level PAH
- MCL Maximum contaminant level
- NA Not sampled
- PRG Preliminary Remediation Goals
- RSL Regional Screening Level
- SVOA Semivolatile organic analysis
- SVOC Semivolatile organic compound
- SWRCB State Water Resources Control Board
- U Not detected

Table 14: Complete Metals Detected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	Filtered/ Unfiltered	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
On site Residential																										
On-site Commercial/Industrial																										
On site groundskeeper/maintenance		1.5E+05	1.1E+02	75,000,000				1.9E+05	5.6E+08		1.5E+07						1.1E+05	9.3E+07	1.9E+06	3,100,000		25,000	370,000		180,000.00	
5x aquatic criteria		2.2E+05	180					47			16		41				11	41	25	9.5		320			410	
40x aquatic criteria		1,700,000	1,400					370			120		320				84	330	200	76		2,500			3,200	
160x aquatic criteria		6.9E+06	5,800					1,500			500		1300				340	1,300	800	300		10,000			13,000	
Storm-water criteria		4300	36					1.1	180		3.1		2.5				0.003	8.2	5	1.9		6.3			81	
Drinking water Standards		6	10	1,000				5	50		1,300		15				2	100	50	100		2			5,000	
California MCLs		1,000	6	10	1,000	4		5	50		1,300		15				2	100	50	100		2				
Federal MCLs		6	10	2,000	4			5	100		1,300		15				2				50		2			
Secondary MCLs		200									1,000	300			50						100				5,000	
SWRCB GW (drinking water source)		6	36	1,000	0.53			0.25	50	3	3.1		2.5				0.025	35	8.2	5	0.19	2	15		81	
SWRCB GW (not drinking water source)		30	36	1,000	0.53			0.25	180	3	3.1		2.5				0.025	240	8.2	5	0.19	4	19		81	
SWRCB Surface water (marine)		500	0.14	1,000	0.53			9.3	180	3	3.1		5.6				0.025	240	8.2	71	0.19	4	19		81	
Cal-modified 2004 PRGs (cancer)				0.071																						
Cal-modified 2004 PRGs (non-cancer)																										
EPA 2011 RSL tapwater (cancer)				0.045																						
EPA 2010 RSL tapwater (non-cancer)		37,000	15		7,300	73		18			11	1,500	26,000			880	.63	180	180		180	180		180	11,000	
RFGWWTA01	Unfiltered	30	1 U	2.2	36	0.5 U	150	1 U	110000	9.5	0.33 J	2 U	100 U	2 U	66000	48	0.03 U	1.4	1.5	2100	2 U	0.5 U	150000	2 U	3 J	5 U
RFGWWTA02	Filtered	75 U	0.51 J	1.3 J	36	3.2 UJ	NA	2 U	99000	6	1 U	11	89 U	1.9 U	61000	21	0.2 U	1.9 UJ	0.97 J	1100	2.5 U	1.7 U	120000	0.093 J	3.8	4.3 J
RFGWWTA02	Unfiltered	86	1 U	1.5 J	39	1 U	NA	0.34 J	100000	6	0.17 J	1 U	100 UJ	1 U	63000	31	0.041 J	1 UJ	2.9 U	1200	1 U	1 U	130000	1 U	4.1	5 UJ
RFGWWTA02D	Filtered	75 U	1.1 U	1.6 J	37	3.2 UJ	NA	2 U	93000	6.1	1 U	3	89 U	1.9 U	61000	20	0.2 U	1.9 UJ	1 J	1100	2.5 U	1.7 U	120000	0.1 J	4.1	9 U
RFGWWTA02D	Unfiltered	66	1 U	1.7 J	39	1 U	NA	0.47 J	110000	6.1	0.16 J	1 U	80 UJ	1 U	64000	29	0.042 J	1 UJ	2.9 U	1200	1 U	1 U	130000	1 U	4.1	9 U
RFGWWTA03	Filtered	50 U	1 U	0.55 J	41	1 UJ	NA	1 U	100000	4.5	1 U	1 U	50 U	1 U	64000 J	93	0.2 U	0.25 J	1 U	1300	1 U	1 U	140000	1 U	4.1	5 U
RFGWWTA03	Unfiltered	150	1 U	1.6	47	1 U	NA	0.25 J	98000	5.1	0.49 J	5.2 U	270	0.17 J	67000 J	120 J	0.2 U	1.2	2.7 UJ	1100	0.66 J	1 U	130000	0.15 J	5.2	5.6
RFGWWTA04	Filtered	17 J	1 U	2.4	55	1 U	NA	1 U	100000	5.8	1 U	2.3 U	8.1 UJ	1 U	60000	26	0.03 UJ	1.3 UJ	1.1	990	1 U	1 U	150000	1 U	5.1	20 U
RFGWWTA04	Unfiltered	87 UJ	0.23 J	2.3	48	1 U	NA	0.35 UJ	90000	5.2	1 U	2.3 U	68 UJ	1 U	55000	46	0.2 U	1.5 UJ	1 U	500	0.97 UJ	1 U	140000	1 U	3.9	6.7 J

Notes

Indicates the value equals or exceeds both the California and Federal MCL

Indicates the value equals or exceeds the California MCL

All results are presented in µg/L.

- µg/L Micrograms per liter
- EPA U.S. Environmental Protection Agency
- ID Identification
- J Estimated value
- MCL Maximum Contaminant Level
- NA Not sampled
- PRG Preliminary Remediation Goals
- RSL Regional Screening Levels
- SWRCB State Water Resources Control Board
- U Not detected

Table 15: Complete TPH Dected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics		
	TPH as Gasoline	TPH as Gasoline	TPH - Oil Range Organics
SWRCB GW (drinking water source)	100		
SWRCB GW (not drinking water source)	210		
RMSGWB12001	240 U	70 J	950 U
RMSGWB12002	86	50 U	300 U
RMSGWB12003	13 J	100 J	300 U
RMSGWB12004	50 U	97 UJ	300 U
RMSGWB12101	250 U	50 U	1000 U
RMSGWB12102	50 U	50 U	300 U
RMSGWB12103	50 U	21 J	300 U
RMSGWB12104	50 U	50 UJ	300 U
RMSGWB12801	250 U	50 U	1000 U
RMSGWB12801-D	250 U	50 U	1000 U
RMSGWB12802	50 U	50 U	300 U
RMSGWB12803	28 J	15 J	300 U
RMSGWB12804	50 UJ	50 UJ	300 U
RMSGWB15001	240 U	50 U	950 U
RMSGWB15003	50 U	11 J	300 U
RMSGWB15003D	50 U	8.1 J	300 U
RMSGWB15004	50 U	50 UJ	300 U
RMSGWB15004D	50 U	50 UJ	300 U
RMSGWB15801	240 U	50 U	950 U
RMSGWB15803	50 U	10 J	300 U
RMSGWB15804	50 U	50 UJ	300 U
RMSGWB16301	200 J	46 J	1000 U
RMSGWB16302	64 J	50 U	300 U
RMSGWB16303	11 J	62 J	300 U
RMSGWB16304	50 UJ	50 UJ	300 U
RMSGWB175S01	240 U	50 U	950 U
RMSGWB175S02	50 U	53 U	300 U
RMSGWB175S03	17 J	19 J	300 U
RMSGWB175S04	50 U	50 UJ	300 U

Table 15: Complete TPH Dected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics		
	TPH as Gasoline	TPH as Gasoline	TPH - Oil Range Organics
SWRCB GW (drinking water source)	100		
SWRCB GW (not drinking water source)	210		
RFSGWB175W01	250 U	50 U	1000 U
RFSGWB175W02	12 U	52 U	300 U
RFSGWB175W03	51 J	36 J	91 J
RFSGWB175W04	50 U	50 UJ	300 U
RFSGWB17701	240 U	50 U	950 U
RFSGWB17702	50 U	50 U	300 U
RFSGWB17703	50 U	12 J	300 U
RFSGWB17704	50 U	50 UJ	300 U
RFSGWB17801	250 U	63 J	1000 U
RFSGWB17802	73 U	50 U	300 U
RFSGWB17803	50 U	120 J	300 U
RFSGWB17804	11 J	94 UJ	300 U
RFSGWB18001	250 U	50 U	1000 U
RFSGWB18002	50 U	50 U	300 U
RFSGWB18003	50 U	21 J	300 U
RFSGWB18003D	50 U	21 J	300 U
RFSGWB18004	50 U	50 UJ	300 U
RFSGWB18501	240 J	36 J	950 U
RFSGWB18502	50 U	50 U	300 U
RFSGWB18502D	62 U	50 U	300 U
RFSGWB18503	50 U	55 J	300 U
RFSGWB18503D	50 U	48 J	300 U
RFSGWB18504	50 U	50 UJ	300 U
RFSGWB19401	240 U	50 U	950 U
RFSGWB19402	50 U	50 U	300 U
RFSGWB19403	50 U	22 J	300 U
RFSGWB19404	50 U	50 UJ	300 U
RFSGWB19501	240 U	59 J	950 U
RFSGWB19502	50 U	50 U	300 U
RFSGWB19502D	51 J	50 U	300 U
RFSGWB19503	50 U	150 J	300 U
RFSGWB19504	50 U	88 UJ	300 U

Table 15: Complete TPH Dected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics		
	TPH as Gasoline	TPH as Gasoline	TPH - Oil Range Organics
SWRCB GW (drinking water source)	100		
SWRCB GW (not drinking water source)	210		
RFSGWB19701	250 U	73 J	1000 U
RFSGWB19701-D	240 U	74 J	950 U
RFSGWB19702	100 J	50 U	300 U
RFSGWB19703	50 U	110 J	300 U
RFSGWB19704	50 U	92 UJ	300 U
RFSGWB19704D	50 U	95 UJ	300 U
RFSGWB27701	250 U	50 U	1000 U
RFSGWB27702	50 U	50 U	300 U
RFSGWB27703	50 U	9.3 J	300 U
RFSGWB27704	50 U	50 UJ	300 U
RFSGWB27801	250 U	50 U	1000 U
RFSGWB27802	19 J	50 U	300 U
RFSGWB27803	50 U	15 J	300 U
RFSGWB27804	10 J	50 UJ	300 U
RFSGWB280A01	250 U	50 U	1000 U
RFSGWB280A02	50 U	50 U	300 U
RFSGWB280A03	50 U	16 J	300 U
RFSGWB280A04	50 U	50 UJ	300 U
RFSGWB280B01	250 U	50 U	1000 U
RFSGWB280B02	50 U	50 U	300 U
RFSGWB280B03	50 U	20 J	300 U
RFSGWB280B04	50 U	50 UJ	300 U
RFSGWB30001	240 U	50 U	950 U
RFSGWB30002	50 U	50 U	300 U
RFSGWB30003	330 J	210 J	300 U
RFSGWB30004	8.6 J	50 UJ	300 U
RFSGWB3801	250 U	50 U	1000 U
RFSGWB3802	50 U	50 U	300 U
RFSGWB3802D	50 U	50 U	300 U
RFSGWB3803	50 U	17 J	300 U
RFSGWB3804	50 U	50 UJ	300 U

Table 15: Complete TPH Dected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics		
	TPH as Gasoline	TPH - Oil Range Organics	
SWRCB GW (drinking water source)	100		
SWRCB GW (not drinking water source)	210		
RFSGWB45002	18 J	13 J	300 U
RFSGWB45003	50 U	20 J	300 U
RFSGWB45004	50 U	50 UJ	300 U
RFSGWB46001	250 U	50 U	1000 U
RFSGWB46002	50 U	50 U	300 U
RFSGWB46003	50 U	14 J	300 U
RFSGWB46004	50 U	50 UJ	300 U
RFSGWB47301	250 U	50 U	1000 U
RFSGWB47302	50 U	50 U	300 U
RFSGWB47303	50 U	14 J	300 U
RFSGWB47304	50 U	50 UJ	300 U
RFSGWB47401	370 J	49 J	1000 U
RFSGWB47402	50 U	50 U	300 U
RFSGWB47403	50 U	36 J	300 U
RFSGWB47404	50 U	50 UJ	300 U
RFSGWB48001	250 U	50 U	1000 U
RFSGWB48002	19 J	14 J	300 U
RFSGWB48003	50 U	19 J	300 U
RFSGWB48004	50 U	50 UJ	300 U
RFSGWB49001	250 U	50 U	1000 U
RFSGWB49002	50 U	50 U	300 U
RFSGWB49003	50 U	14 J	300 U
RFSGWB49004	8 J	50 UJ	300 U
RFSGWBULB101	240 U	38 J	950 U
RFSGWBULB102	50 U	50 U	300 U
RFSGWBULB103	50 U	21 J	300 U
RFSGWBULB104	50 U	50 UJ	300 U
RFSGWBULB201	170 J	77	1000 U
RFSGWBULB202	50 U	7.8 J	300 U
RFSGWBULB203	50 U	13 J	300 U
RFSGWBULB204	13 J	50 UJ	300 U

Table 15: Complete TPH Dected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics		
	TPH as Gasoline	TPH as Gasoline	TPH - Oil Range Organics
SWRCB GW (drinking water source)	100		
SWRCB GW (not drinking water source)	210		
RFSGWCCC101	240 U	50 U	950 U
RFSGWCCC102	50 U	50 U	300 U
RFSGWCCC103	12 J	9.5 J	300 U
RFSGWCCC104	49 U	50 UJ	290 U
RFSGWCCC201	250 U	50 U	1000 U
RFSGWCCC202	50 U	50 U	300 U
RFSGWCCC203	14 J	28 J	300 U
RFSGWCCC204	49 U	50 UJ	290 U
RFSGWCCC301	240 U	50 U	950 U
RFSGWCCC301-D	250 U	50 U	1000 U
RFSGWCCC302	50 U	50 U	300 U
RFSGWCCC303	18 J	17 J	300 U
RFSGWCCC303D	50 U	18 J	300 U
RFSGWCCC304	49 U	50 UJ	290 U
RFSGWCCCT01	240 U	38 J	940 U
RFSGWCCCT02	55 U	50 U	300 U
RFSGWCCCT03	50 U	46 J	300 U
RFSGWCCCT04	50 U	54 UJ	300 U
RFSGWCTP01	250 U	50 U	1000 U
RFSGWCTP01-D	250 U	50 U	1000 U
RFSGWCTP02	50 U	50 U	300 U
RFSGWCTP03	50 U	19 J	300 U
RFSGWCTP04	50 U	50 UJ	300 U
RFSGWCTPS01	250 U	50 U	1000 U
RFSGWCTPS02	13 J	50 U	300 U
RFSGWCTPS03	50 U	30 J	300 U
RFSGWCTPS04	13 J	50 UJ	300 U
RFSGWWDH01	250 U	50 U	1000 U
RFSGWWDH02	50 U	50 U	300 U
RFSGWWDH03	50 U	13 J	300 U
RFSGWWDH04A	8.5 J	50 UJ	300 U

Table 15: Complete TPH Dected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics		
	TPH as Gasoline	TPH - Oil Range Organics	
SWRCB GW (drinking water source)	100		
SWRCB GW (not drinking water source)	210		
RFSGWEERC01	160 J	50 U	1000 U
RFSGWEERC02	50 U	50 U	300 U
RFSGWEERC03	50 U	26 J	300 U
RFSGWEERC04	50 U	50 UJ	300 U
RFSGWEP A01	250 U	50 U	1000 U
RFSGWEP A02	13 J	50 U	300 U
RFSGWEP A03	12 J	16 J	300 U
RFSGWEP A04	50 U	50 UJ	300 U
RFSGWEP A04D	50 U	50 UJ	300 U
RFSGWETA01	120 J	50 U	1000 U
RFSGWETA01-D	120 J	50 U	1000 U
RFSGWETA02	50 U	14 J	300 U
RFSGWETA03	14 J	25 J	300 U
RFSGWETA04	49 U	50 UJ	290 U
RFSGWETA04D	49 U	50 UJ	290 U
RFSGWFG01	250 U	50 U	1000 U
RFSGWFG02	21 J	50 U	300 U
RFSGWFG02D	16 J	50 U	300 U
RFSGWFG03	50 U	13 J	300 U
RFSGWFG04	50 U	50 UJ	300 U
RFSGWGEO01	240 U	50 U	950 U
RFSGWGEO02	50 U	50 U	300 U
RFSGWGEO03	50 U	18 J	300 U
RFSGWGEO04	50 U	50 UJ	300 U
RFSGWMFA01	250 U	50 U	1000 U
RFSGWMFA02	50 U	50 U	300 U
RFSGWMFA03	36 J	17 J	300 U
RFSGWMFA04	50 U	50 UJ	300 U
RFSGWNRFL01	120 J	41 J	1000 U
RFSGWNRFL02	50 U	50 U	300 U
RFSGWNRFL03	50 U	20 J	300 U
RFSGWNRFL04	50 U	50 UJ	300 U

Table 15: Complete TPH Dected Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum

University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics		
	TPH as Gasoline	TPH as Gasoline	TPH - Oil Range Organics
SWRCB GW (drinking water source)	100		
SWRCB GW (not drinking water source)	210		
RFSGWPZ1101	250 U	310 J	1000 U
RFSGWPZ1102	50 U	50 U	300 U
RFSGWPZ1103	50 U	210 J	300 U
RFSGWPZ1104	50 U	50 UJ	300 U
RFSGWPZ801	250 U	50 U	1000 U
RFSGWPZ802	50 U	50 U	300 U
RFSGWPZ803	50 U	22 J	300 U
RFSGWPZ804	50 U	50 UJ	300 U
RFSGWPZ901	250 U	50 U	1000 U
RFSGWPZ902	50 U	50 U	300 U
RFSGWPZ903	50 U	26 J	130 J
RFSGWPZ903D	50 U	25 J	300 U
RFSGWPZ904	50 U	50 UJ	300 U
RFSGWRWF01	240 U	50 U	950 U
RFSGWRWF02	50 U	50 U	300 U
RFSGWRWF03	50 U	23 J	300 U
RFSGWRWF04	50 U	50 UJ	300 U
RFSGWTP101	240 U	50 U	950 U
RFSGWTP102	50 U	50 U	300 U
RFSGWTP103	50 U	19 J	300 U
RFSGWTP104	13 J	50 UJ	300 U
RFSGWTP201	250 U	50 U	1000 U
RFSGWTP202	50 U	50 U	300 U
RFSGWTP203	31 J	20 J	300 U
RFSGWTP204	50 U	50 UJ	300 U
RFSGWTP204D	50 U	50 UJ	300 U
RFSGWTA01	250 U	50 U	1000 U
RFSGWTA02	50 U	50 U	300 U
RFSGWTA02D	50 U	50 U	300 U
RFSGWTA03	50 U	13 J	300 U
RFSGWTA04	9.9 J	50 UJ	300 U

Table 15: Complete TPH Decteded Results

Phase I April 2012 Groundwater Sampling Results, Technical Memorandum
 University of California, Berkeley, Richmond Field Station, Richmond, California

Sample ID	TPH - Diesel Range Organics	TPH as Gasoline	TPH - Oil Range Organics
SWRCB GW (drinking water source)	100		
SWRCB GW (not drinking water source)	210		

Notes:

All results are presented in µg/L.

- | | |
|-------|--|
| µg/L | Micrograms per liter |
| ID | Identification |
| J | Estimated value |
| SWRCB | State Water Resources Control Board |
| TPH | Total petroleum hydrocarbons |
| U | Not detected |
| Y | Sample exhibits chromatographic pattern which does not resemble the standard pattern |
| Z | Sample exhibits unknown single peak or peaks |

APPENDIX A
RESPONSE TO COMMENTS



Matthew Rodriguez
Secretary for
Environmental Protection



Department of Toxic Substances Control

Deborah O. Raphael, Director
700 Heinz Avenue
Berkeley, California 94710-2721



Edmund G. Brown Jr.
Governor

October 23, 2012

Mr. Greg Haet
EH&S Associate Director, Environmental Protection
317 University Hall, No 1150
Berkeley, California 94720

Dear Mr. Haet:

The Department of Toxic Substances Control (DTSC) received the document titled *Draft Phase I November 2010 through April 2012 Groundwater Sampling Results Technical Memorandum* (Tech Memo). The September 05, 2012 Tech Memo was prepared by Tetra Tech EM Inc. for the University of California, Richmond Field Station. The Tech Memo provides ground water sampling data that were collected from the shallow water bearing zone in November 2010, April 2011, October 2011, and April 2012, representing two dry and two wet season sampling events. We have reviewed the document and have the following comments and recommendations.

1. Section 7.0 Conclusions and Recommendations: The Tech Memo proposes annual ground water monitoring in April for those wells where drinking water maximum contaminant levels (MCLs) were exceeded in any of the previous four monitoring events. Also, analyses would be limited to the methods that include the analytes detected at concentrations greater than MCLs. We assume that MCLs will be identified as ARARs where ground water meets Water Board (RWQCB) criteria for drinking water. DTSC concurs with the proposal to sample annually and to limit analytical methods, but with the sampling frequency reduced to annually the sampling criteria should be detections at one-half of the MCLs until contaminant concentrations are determined to be less than MCLs and decreasing. If decreasing trends are not apparent and concentrations have exceeded one-half the MCLs in the one of the four most recent sampling events, then annual sampling would continue. If no concentrations exceed one-half the MCL in the four most recent sampling events then the well would not be sampled. Also, ground water sampling and analysis may be required as part of the five year review cycle.
2. The table on Page 22 indicates wells and analytical methods proposed for sampling. For comparison purposes, please amend the table to also indicate wells to be sampled and analytical methods based on a one-half of the MCLs criterion.

3. Monitoring capability needs to be maintained in VOC areas to assess potential vapor intrusion risks.
4. One of the purposes of the document is to summarize the site hydrogeology and to evaluate the data collected. To provide a more complete picture of the site conditions, prepare representative cross-sections of the site and maps depicting concentrations of the most frequently detected site contaminants. On maps, post ground water elevations or chemical concentrations (the Z values) in addition to the well identifications.
5. Cover letter: The dates cited in the first two sentences of the letter should be corrected.
6. Page 5, Paragraph 4: Correct the text that states "*The RFS is predominantly made of clayey soil with inherently low permeability...*" For example, the Richmond Field Station is predominantly underlain by...
7. Page 7, Paragraph 4: The text indicates that the April 2012 analytical results are compared to the first round of data. Ensure and clarify that the April results are compared to analytical results from the all of the completed sampling events.
8. The use of the word only: As in, "*only 20 of the 71 target analytes were detected at the site.*" This language may be misleading to a casual reader. Please delete the word only in order to provide an objective accounting of the site conditions. Detection of a single analyte may be significant.

Specific examples of this practice include:

- Page 11, Paragraph 2: Discussing VOCs, the text states "*...only 20 of the 71 target analytes were detected...*"
 - Page 11, last paragraph: Discussing semivolatile organic compounds (SVOCs) "*...only 11 of 73 target analytes...*"
 - Page 15, Paragraph 4, discussing VOC detections "*...only 30 of 71 target analytes...*"
 - Page 17, discussing SVOC detections "*...only 14 of 73 target analytes...*"
9. Page 11, second bullet: Amend the discussion to incorporate the California MCL of 0.5 ug/L.
 10. Page 19, Section 6.3, Metals: Revise the statement so that the dry season is identified as April to October.
 11. Figure 11, Proposed Continued Groundwater Sampling Locations: The figure needs to be revised to indicate that piezometers B128 and GEO will continue to be

sampled. In addition, the identification of location "GWF" should be revised to "GEO".

12. Attachment 1: The Monitoring Well Sampling Forms for B197, DH, and WTA all indicate that there was some type of obstruction in each well and roots or plant matter were present in the groundwater sample. State what actions will be taken to clear obstructions and how the plant matter will be removed and the wells rehabilitated.
13. Attachment 2, Summary of Complete Analytical Results for Groundwater Samples: The results for thallium should be checked and corrected as needed.

Please submit a response to these comments within 21 days of the date of this letter. Replacement pages may be submitted rather than a new hard copy; however, please provide us with a CD containing the complete revised report. If you have any questions, please contact Lynn Nakashima at (510) 540-3839 or email at lnakashi@dtsc.ca.gov.

Sincerely,



Lynn Nakashima, Project Manager
Senior Hazardous Substances Scientist
Brownfields and Environmental
Restoration Program
Berkeley Office - Cleanup Operations



Mark Vest, P.G.
Senior Engineering Geologist
Brownfields and Environmental
Restoration Program
Sacramento Office - Geologic Services

cc: Karl Hans
University of California, Berkeley
Environmental Health & Safety
317 University Hall, No 1150
Berkeley, California 94720

Jason Brodersen
Tetra Tech EM Inc.
1999 Harrison Street, Suite 500
Oakland, CA 94612

Draft Phase I November 2010 through April 2012 Groundwater Sampling Results Technical Memorandum
University of California, Richmond Field Station
September 5, 2012

Response to Comments
Department of Toxic Substances Control, October 23, 2012

November 13, 2012

Page 1 of 4

UC Berkeley Ref. No.	Page / Sect No.	DTSC Comment	UC Berkeley Response
1	Section 7.0 Conclusions and Recommendations	The Tech Memo proposes annual ground water monitoring in April for those wells where drinking water maximum contaminant levels (MCLs) were exceeded in any of the previous four monitoring events. Also, analyses would be limited to the methods that include the analytes detected at concentrations greater than MCLs. We assume that MCLs will be identified as ARARs where ground water meets Water Board (RWQCB) criteria for drinking water. DTSC concurs with the proposal to sample annually and to limit analytical methods; but with the sampling frequency reduced to annually the sampling criteria should be detections at one-half of the MCLs until contaminant concentrations are determined to be less than MCLs and decreasing. If decreasing trends are not apparent and concentrations have exceeded one-half the MCLs in the one of the four most recent sampling events, then annual sampling would continue. If no concentrations exceed one-half the MCL in the four most recent sampling events then the well would not be sampled. Also, ground water sampling and analysis may be required as part of the five year review cycle.	The data from the four sampling events have been reviewed and the suggested criterion has been incorporated into the appropriate sections of the Tech Memo. This revised criterion has been incorporated into the recommended number of sampled wells and the sampled analytes at all proposed continued sampling locations.
2	Page 22	The table indicates wells and analytical methods proposed for sampling. For comparison purposes, please amend the table to also indicate wells to be sampled and analytical methods based on a one-half of the MCLs criterion.	This table has been amended as noted to account for the one-half MCL criterion.
3	NA	Monitoring capability needs to be maintained in VOC areas to assess potential vapor intrusion risks.	UC Berkeley is not considering abandoning or closing any of the monitoring wells; there is monitoring capability for future needs.

Draft Phase I November 2010 through April 2012 Groundwater Sampling Results Technical Memorandum
University of California, Richmond Field Station
September 5, 2012

Response to Comments
Department of Toxic Substances Control, October 23, 2012

November 13, 2012

Page 2 of 4

UC Berkeley Ref. No.	Page / Sect No.	DTSC Comment	UC Berkeley Response
4	NA	One of the purposes of the document is to summarize the site hydrogeology and to evaluate the data collected. To provide a more complete picture of the site conditions, prepare representative cross-sections of the site and maps depicting concentrations of the most frequently detected site contaminants. On maps, post ground water elevations or chemical concentrations (the Z values) in addition to the well identifications.	The Tech Memo has been updated to include two representative cross-sections consistent with the cross-sections submitted in the technical memorandum for the first monitoring event, including groundwater levels from all four sampling events. The concentrations of the primary contaminants of concern (carbon tetrachloride, TCE and some VOCs), which are the most frequently detected site contaminants, are shown in Figures 8, 9, and 10 of the draft Tech Memo. In addition, the geologic boring logs, well completion logs, and well development logs for the 51 piezometers installed in the Phase I field effort, as well as the rationale for groundwater piezometer locations and depths are presented in Attachments 1 through 3 of this Tech Memo.
5	Cover Letter	The dates cited in the first two sentences of the letter should be corrected.	The dates have been corrected.
6	Page 5, Paragraph 4	Correct the text that states “ <i>The RFS is predominantly made of clayey soil with Inherently low permeability...</i> ” For example, the Richmond Field Station is predominantly underlain by...	The text has been amended.
7	Page 7, Paragraph 4	The text indicates that the April 2012 analytical results are compared to the first round of data. Ensure and clarify that the April results are compared to analytical results from the all of the completed sampling events.	The text has been amended as noted.

Draft Phase I November 2010 through April 2012 Groundwater Sampling Results Technical Memorandum
University of California, Richmond Field Station
September 5, 2012

Response to Comments
Department of Toxic Substances Control, October 23, 2012

November 13, 2012

Page 3 of 4

UC Berkeley Ref. No.	Page / Sect No.	DTSC Comment	UC Berkeley Response
8	NA	<p>The use of the word only: As in, “<i>only 20 of the 71 target analytes were detected at the site.</i>” This language may be misleading to a casual reader. Please delete the word only in order to provide an objective accounting of the site conditions. Detection of a single analyte may be significant.</p> <p>Specific examples of this practice include:</p> <ul style="list-style-type: none"> • Page 11, Paragraph 2: Discussing VOCs, the text states “<i>...only 20 of the 71 target analytes were detected...</i>” • Page 11, last paragraph: Discussing semivolatile organic compounds (SVOCs) “<i>...only 11 of 73 target analytes...</i>” • Page 15, Paragraph 4, discussing VOC detections “<i>...only 30 of 71 target analytes...</i>” • Page 17, discussing SVOC detections “<i>...only 14 of 73 target analytes ...</i>” 	<p>All appropriate references throughout the document using the word “only” qualifying sample numbers or results have been amended.</p>
9	Page 11, 2nd Bullet	<p>Amend the discussion to incorporate the California MCL of 0.5 µg/L.</p>	<p>The text has been amended as noted. Where California MCLs are available, a comparison to the California MCL has been added for all other chemicals as well.</p>
10	Page 19, Section 6.3	<p>Metals: Revise the statement so that the dry season is identified as April to October.</p>	<p>The text has been amended as noted.</p>
11	Figure 11	<p>Proposed Continued Groundwater Sampling Locations: The figure needs to be revised to indicate that piezometers B128 and GEO will continue to be sampled. In addition, the identification of location “GWF” should be revised to “GEO”.</p>	<p>The Proposed Continued Groundwater Sampling Locations figure has been modified as noted. With the change to one-half of the MCLs sampling criteria, Figure 13 in the final report has also been modified to include several additional proposed continued sampling locations.</p>

Draft Phase I November 2010 through April 2012 Groundwater Sampling Results Technical Memorandum
University of California, Richmond Field Station
September 5, 2012

Response to Comments
Department of Toxic Substances Control, October 23, 2012

November 13, 2012

Page 4 of 4

UC Berkeley Ref. No.	Page / Sect No.	DTSC Comment	UC Berkeley Response
12	Attachment 1	The Monitoring Well Sampling Forms for B197, DH, and WTA all indicate that there was some type of obstruction in each well and roots or plant matter were present in the groundwater sample. State what actions will be taken to clear obstructions and how the plant matter will be removed and the wells rehabilitated.	UC Berkeley conducted a cursory well inspection on November 8, 2012 of the three piezometers. Piezometers B197 and DH have plant roots growing into the screened interval. No roots or obstructions were found in piezometer WTA. UC Berkeley will redevelop piezometers B197 and DH before the April 2012 sampling event to attempt to remove the roots and refresh development. If roots return, UC Berkeley will abandon the piezometers and reinstall them. No action will be taken for piezometer WTA, as the structure has not been compromised.
13	Attachment 2	Summary of Complete Analytical Results for Groundwater Samples: The results for thallium should be checked and corrected as needed.	Attachment 2 (Attachment 5 in the final report) has been revised and regenerated to correct the noted issue and to make the format more user-friendly.

APPENDIX B
MARCH 16, 2012 PROPOSED CONTINUED GROUNDWATER MONITORING
MEMORANDUM, APRIL 2012



March 16, 2012

Lynn Nakashima
Project Manager
Department of Toxic Substances Control
700 Heinz Avenue
Berkeley, CA 94710

**Subject: Proposed Continued Groundwater Monitoring, April 2012
University of California, Berkeley, Richmond Field Station, Richmond, California**

Dear Ms. Nakashima:

Tetra Tech EM Inc. (Tetra Tech) was contracted by the University of California (UC) Berkeley to conduct sampling activities at Richmond Field Station (RFS), in Richmond, California. The scope of the sampling was outlined in the Phase I Groundwater Field Sampling Workplan (FSW), dated June 2, 2010. The first phase of FSW implementation was the installation and sampling of shallow groundwater monitoring piezometers, which was conducted in October 2010. UC Berkeley collected the second and third rounds of groundwater samples in April and October 2011. The results of these sampling events are presented in the Final Revision 1, Phase I Groundwater Sampling Results Technical Memorandum, August 22, 2011; Final Revision 1, Phase I April 2011 Groundwater Sampling Results Technical Memorandum, February 1, 2012; and Final Phase I October 2011 Groundwater Sampling Results Technical Memorandum, dated February 29, 2012.

UC Berkeley proposes to collect a fourth round of groundwater data beginning April 2, 2012, concurrent with the ongoing biannual sampling at the adjacent Campus Bay site, to evaluate seasonal fluctuations of chemical concentrations and groundwater elevations. The sampling event will follow the Proposed Continued Groundwater Monitoring Locations workplan dated March 25, 2011 approved by DTSC on March 29, 2011 and summarized below.

Sample Locations

All 50 previously sampled locations (which include the 47 shallow piezometers installed by UC Berkeley during 2010, and three piezometers (PZ8, PZ9, and PZ11) previously installed by Zeneca) were selected for continued monitoring of dissolved metals (filtered), volatile organic compounds (VOC), total dissolved solids (TDS), semivolatile organic compounds (SVOC), polycyclic aromatic hydrocarbons (PAH); and total petroleum hydrocarbons (TPH). Unfiltered metals analysis will also be conducted from groundwater collected at piezometers FG, B474, EERC, PZ11, B195, CCC2, WTA, B163, ETA, Bulb1, and Bulb2 to confirm unfiltered concentrations identified during the initial investigation. Piezometer locations are shown on Figure 1, Groundwater Sampling Locations.

During the initial round of sampling conducted between September 3 and October 19, 2010, poor groundwater recharge prohibited sample collection at some locations in one attempt. If groundwater recharge is slow during this sampling event, the piezometer will be purged one day and sampled on the following day without purging again.

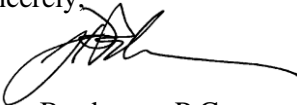
Field Sampling Protocols

The groundwater samples will be collected consistent with the protocols outlined in the Field Sampling Workplan dated June 2, 2010 and will follow the quality control measures for both field work and data analysis as outlined in the accompanying Quality Assurance Project Plan. Samples will be analyzed for dissolved metals (filtered), total metals (unfiltered), VOCs, TDS, SVOCs, PAHs, and TPH at locations described above. The filtering process for the dissolved metals analysis will be conducted in the field during this event, consistent with DTSC comments regarding the October 2011 sampling effort. A silica gel cleanup will be run on the extractable TPH samples for this round of sampling. No samples will be analyzed for pesticides or polychlorinated biphenyls (PCB) because these analytes were not detected in any samples collected during the initial round of sampling. Prior to sampling, the piezometers will be purged and monitored for stabilized parameters consistent with the Field Sampling Workplan.

Depth to groundwater will be measured at all 50 shallow and four deeper piezometers on April 2, 2012, which coincides with a similar field event occurring on the adjacent Campus Bay property. The depth to groundwater will be measured from the top of the PVC casing to 0.01 foot accuracy using a water level meter.

If you have any questions or comments regarding this submittal, please call me at (510) 302-6283.

Sincerely,



Jason Brodersen, P.G.
Project Manager

Attachment: Figure 1, Groundwater Sampling Locations

cc: Anthony Garvin, UC Office of the General Counsel
Greg Haet, UC Berkeley Office of Environment, Health and Safety
Bill Marsh, Edgcomb Law Group
Andrew Romolo, Terra Phase, Inc.
Daren Roth, Arcadis, Inc.
Doug Mosteller, CSV

ATTACHMENT 1
SAMPLE RATIONALE

Attachment 1: Sample Rationale

Originally Presented in the August 2011 Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

Location ID	Data Gap Addressed	Sampling Strategy
FG	The alleged pesticide spill by front gate needs further investigation.	This sample will be collected near the front gate and run for a full suite of analytes, potentially with low DL for pesticides. This sample will characterize groundwater conditions in the northeast corner of the property, along the property boundary, north of Building 478.
B490	Sewer line from B 490 to former digester ponds	This sample will be collected near the beginning of the former line, which will help to determine potential impacts to the line, as well as providing flow direction in the northern area of the property.
NRLF	Sanitary sewer lines and off-site impacts	This sample will provide information about flow direction in the northern end of the property, as well as for potential impacts from off-site sources (PG&E) or the northern lateral sewer line.
B280B	PCB-containing transformers were historically stockpiled at B280B	This sample will be collected near the area where PBC-containing materials were formerly stored.
CTP		This sample will provide information about the flow and direction in this area of the property, and potentially for impacts from off-site contamination.
CTPdeep	Investigation of the intermediate groundwater zone for gradient	This piezometer will be sampled for flow and direction of lower aquifer; however, chemical data will not be collected during the first round of sampling.
B450	Former transportation studies machine shop	Sampling will occur south of the building to test for potential impacts from previous site activity.
B460	UC Berkeley chemical storage, CCC stored vehicles here	Sampling will occur south of the building to test for potential impacts from previous site activity.
B480	Building 482, Asphalt testing building needs to be investigated for SVOCs and metals	This sample will be collected southeast of asphalt testing building and materials storage area to test for potential impacts from previous site activity.
B480deep	Investigation of the intermediate groundwater zone for gradient	This piezometer will be sampled for flow and direction of lower aquifer; however, chemical data will not be collected during the first round of sampling.
PZ-9	Characterize area west of B478 for evidence of contamination	This is a piezometer previously installed by Zeneca on the RFS site. This location will be sampled for GW data including flow direction and chemical analysis to test for potential impacts from previous site activity, as well as for potential impacts from off-site sources.
B474	B474 formerly and currently used for chemical storage	This sample will be collected from the drainage area to the southwest of the building to test for potential impacts from previous site activity.
B473	Former PBC-containing transformer location	This sample will be collected beneath the area where these transformers were formerly located.

Attachment 1: Sample Rationale

Originally Presented in the August 2011 Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

Location ID	Data Gap Addressed	Sampling Strategy
TP1	Former Test Pit area	This sample will be collected from the northern area of the former test pit. For this sample, perchlorates, PAHs, and explosives residue will be added to the list of COCs.
TP2	Former Test Pit area, and CCC tram line	This sample will be collected from the southern area of the former test pit. For this sample, perchlorates, PAHs, and explosives residue will be added to the list of COCs. This sample also represents an area where the CCC tram line ran; therefore, creosote will be added to the list of COCs.
EERC	The earthquake engineering building has been used to store hydraulic oil	This sample will be collected from the courtyard of the earthquake engineering building to test for the presence of hydraulic oil as well as for potential impacts from the two current ASTs.
GEO	Geosciences well field	This sample will be collected to investigate any potential impacts from the well field or experiments performed in the well field.
B300	Geosciences well field and former chemical storage area	This sample will be collected to test for potential impacts from the well field as well as chemical storage in Building 300.
RWF	Research well field	This sample will be collected to investigate any potential impacts from the former research well field.
PZ-11	Property boundary	This piezometer, installed by Zeneca on the RFS site, will be sampled for flow direction and chemical data to investigate conditions along the property boundary.
B280A	B280A formerly used for chemical storage	This sample will be collected south of Building 280A to test for any impacts from former chemical storage, as well as potential impacts from the current AST.
B277	Former PBC containing transformer location	This area will be sampled for potential impacts from the formerly PCB-containing transformers located here. Also, this sample is located along a major sewer line and will test for impacts to groundwater from the sewer line.
B38	This sample lies in the former California Cap Company Blasting Cap Area.	Not much is known about the California Cap Company operations. This sample will be collected to help identify potential impacts from previous site activities.
B38deep	Investigation of the intermediate groundwater zone for gradient	This piezometer will be sampled for flow and direction of lower aquifer; however, chemical data will not be collected during the first round of sampling.
B194	Property boundary	This sample will be collected to obtain information about the flow and direction in this area, potential impacts from the current AST, and other potential impacts to groundwater.
B180	GW information in the core of the field station	Not much is known about the California Cap Company operations. This sample will be collected to help identify potential impacts from previous activities.
PZ-8	Ground water flow and direction across the field station	This sample will be collected for information about the flow and direction in this area, potential impacts from previous site activity, and other potential impacts to groundwater.

Attachment 1: Sample Rationale

Originally Presented in the August 2011 Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

Location ID	Data Gap Addressed	Sampling Strategy
B195	This shed has been used for chemical storage, this location is also along the property boundary	This sample will be collected for information about groundwater flow direction along the property boundary and to assess for potential impacts to groundwater.
B177	This location is in the core of the field station – there is also an unused well southwest of the building	Sampling will occur south of the building to test for potential impacts from previous site activity.
B158	Buildings 151 and 158 have both been identified as data gaps	Sampling will occur south of these buildings to test for potential impacts from these buildings.
CTPsouth	Ground water flow and direction across the field station	This sample will be collected to provide information about the flow and direction of groundwater near the west property boundary. Chemical data will also be collected.
B278	B 278 was previously used for chemical storage	This building is no longer on site, but a sample will be collected near where the building was formerly located to test for potential impacts.
CCC1	The locations of California Cap Company operations are not certain; therefore, these three samples are placed in the core areas of activities.	Not much is known about the California Cap Company operations. This sample will be collected to help identify potential impacts from previous activities.
B150	B150 was previously used for chemical storage	Sampling will occur in the courtyard area of the building to test for potential impacts from previous site activity, including the former California Cap Company tram line and hydraulic line, which appear to run through this location.
B175W	Location of a previously PCB-containing transformer	A sample will be collected from beneath the area where this formerly PCB-containing transformer was located.
B175S	There are two wells south of B175, also the B175 parking lot area has been identified as a data gap	Sampling will occur south of the building in the parking lot area to test for potential impacts from previous site activity.
B197	Building 197 and fuel pump island were previously used for chemical and waste oil storage	This sample will be collected from the west of the building in the parking lot area to test for potential impacts from previous site activity (including potential corp yard impacts, potential impacts from the current AST or former UST) as well as other potential impacts to groundwater.
B120	The courtyard of B120 has been identified as a data gap	This sample will be collected to test for potential impacts from previous site activities, which includes chemical storage and light vehicle maintenance. This sample will also provide information about property boundary flow direction and other potential impacts to groundwater.

Attachment 1: Sample Rationale

Originally Presented in the August 2011 Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

Location ID	Data Gap Addressed	Sampling Strategy
CCCT	This is the location of a California Cap Company transformer house (as identified from a Sanborn map)	It is unknown if the transformer contained PCBs (although unlikely), however, a sample will be collected from this location to test for potential impacts.
B121	B121 and B118 have both been identified as data gaps	A sample will be collected from the courtyard between these buildings to test for potential impacts from these buildings.
CCC2	The locations of California Cap Company operations are not certain, therefore, these three samples are placed in the core areas of activities.	Not much is known about the California Cap Company operations. This sample will be collected to help identify potential impacts from previous activities.
DH	Former California Cap Company dry house explosion area	This sample will be collected to test for impacts from the former dry house explosion. Perchlorates, PAHs, and explosives residue will be added to the list of standard COCs for this sample location.
EPA	The soil pile west of the EPA lab has been identified as a data gap	This sample will be collected to provide information about the soil pile area as well as groundwater conditions along the western property boundary.
B128	This sample has been placed over previous California Cap Company activity.	Not much is known about the California Cap Company operations. This sample will help to identify potential impacts from previous activities.
B128deep	Investigation of the intermediate groundwater zone for gradient	This piezometer will be sampled for flow and direction of lower aquifer; however, chemical data will not be collected during the first round of sampling.
CCC3	The locations of California Cap Company operations are not certain, therefore, these three samples are placed in the core areas of activities.	Not much is known about the California Cap Company operations. This sample will be collected to help identify potential impacts from previous activities.
B178	The corp yard storage area has been identified as a data gap	This sample will be collected for information about groundwater flow direction along the property boundary, potential impacts from previous site activity, and other potential impacts to groundwater.
B185	The corp yard storage area has been identified as a data gap	This sample will be collected for information about groundwater flow direction along the property boundary, potential impacts from previous site activity, and other potential impacts to groundwater.
B163	The former US Briquette Co has been identified as a data gap	This sample will be collected from the parking lot of B163 (the location of the former US Briquette Co) to test for potential impacts from previous site activity.
WTA	The transition area has been identified as a data gap	This sample will be collected from the area south of the core of California Cap Company activity, as well as along the sewer line lateral (part of which was previously removed) to test for potential impacts from previous site activity.

Attachment 1: Sample Rationale

Originally Presented in the August 2011 Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

Location ID	Data Gap Addressed	Sampling Strategy
MFA	The former mercury fulminate plant has been identified as a data gap	This sample will be collected to test for potential impacts to groundwater from the MFA.
ETA	The transition area has been identified as a data gap	This sample will be collected south of the core of California Cap Company activity, as well as along the sewer line lateral (part of which was previously removed). This sample will also provide information about groundwater flow and direction south of the former seawall (fill area).
Bulb1	During the WTA TCRA excavation, incidental debris was discovered in this area	This sample will be collected to test for potential impacts from previous site activity.
Bulb2	The magnetic anomaly detected in the bulb has been identified as a data gap	This sample will be collected to test for potential impacts from previous site activity.

Notes:

AST	Above ground storage tank	NRLF	Northern research library facility
B	Building	PAH	Polycyclic aromatic hydrocarbons
CCC	California Cap Company	PCB	Polychlorinated biphenyls
COC	Chemical of concern	PG&E	Pacific Gas and Electric
CTP	Costal terrace prairie	RFS	Richmond Field Station
EERC	Earthquake engineering research center	SVOC	Semivolatile organic compounds
EPA	Environmental Protection Agency	TCRA	Time critical removal action
ETA	Eastern transition area	UC	University of California
GW	Groundwater	UST	Underground storage tank
ID	Identification	WTA	Western transition area
MFA	Mercury fulminate area		

ATTACHMENT 2
GEOLOGIC BORING LOGS

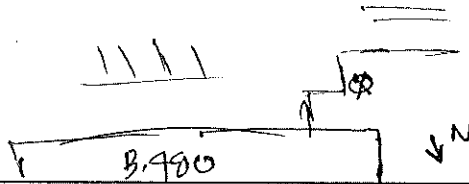


TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: <i>ZFS-CW-B480</i>	Date Started: <i>8-5-10</i>
Drilling Method: (Circle one) HSA Continuous Core/GeoProbe/ <u>Hand Auger</u>	Date Completed: <i>8-5-10</i>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By:
Outer Diameter of Boring: <i>8 1/4" HSA, 2" DIA</i>	Drilling Subcontractor: <i>RSI</i>
Inner Diameter of Well Casing:	Driller: <i>Norman DeLong</i>
Depth to Water (ft./bgs.) <i>8 ft. (est)</i>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches)	V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1400	11		100% hand auger				- grass - v. dark grayish brown loys 3/2	ML		0.2
							v. dark grayish brown ↓ olive brown loys 10YR 3/2 4/3	CL/ML		0.2
							light brownish gray 2.5Y 4/2	SC		0.5
	8		80% DP ↓				olive brown 2.5Y 4/6	CL		0.5
							- 21% of angular gravel (40%)			0.5
	12						dark brown loys 3/3 - mottled w/ orange white ldk. reddish brown.	GC		0.4
							dk yellowish brown loys 4/4	CL/CH		0.6
	16		100%				sandy clay moist, med. stiff 25% fine sand.			0.4
							↓ 20% fine sand 20% angular gravel moist			0.3
1425	20						↓ 25% fine sand, moist			0.7

- bottom of boring -



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:

Bldg./Site:

Project Name: RFS

Boring Number: RSE GW B480 deep	Date Started: 8/12/10
Drilling Method: (Circle one) <u>ASA</u> Continuous Core/Direct Push/Hand Auger	Date Completed: 8/12/10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: V. EARLY
Outer Diameter of Boring: 8 1/4 ASA 2" DP	Drilling Subcontractor: RSE
Inner Diameter of Well Casing:	Driller: Norman Penberry
Depth to Water (ft./bgs.)	Location Sketch:

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1100	20		100%			Lt olive brown 2.5Y 5/4 SANDY CLAY 20% FINE SAND med-STIFF, moist	CL CH		0.9
	24		100%			Lt olive brown 2.5Y 5/2 clayey sand, FINE-COARSE moist 30% fines	SC		1.6
	28		100%			dk olive brown 2.5Y 3/3 SAND, FINE, wet 10% fines, poorly graded	SP		
	32		100%			olive 5Y 5/3 SANDY CLAY, soft, moist clay, med-STIFF, moist 110% SAND	CL CH		1.6
	36		100%			dk greenish gray Glay 1 4/1 v. dk greenish gray Glay 3/1	CL CH		2.0
	40		100%			dk greenish gray Glay 1 4/1 SANDY CLAY med-stiff moist 20% FINE SAND	CL CH		1.8
			100%			dk grayish brown 2.5Y 4/2 clayey SAND 30% fines moist ← SAND LENSE → wet	SC SP		
1200	40		100%			dk olive gray 5Y 3/2 SANDY CLAY moist 20% FINE SAND HARD	CL CH		2.9

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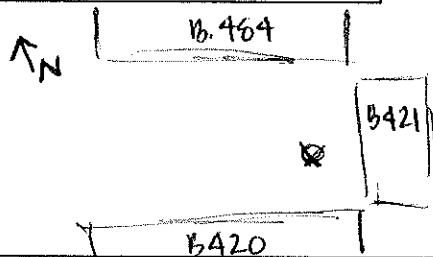


TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: KPS-GW-BERL	Date Started: 8/9/2010
Drilling Method: (Circle one) HSA Continuos Core /GeoProbe/ Hand Auger	Date Completed: 8/9/2010
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: CF
Outer Diameter of Boring: 8 1/4" HSA, 2' DP	Drilling Subcontractor: RSI
Inner Diameter of Well Casing:	Driller: Norman Dehenry
Depth to Water (ft./bgs.) 8.5' ext	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1340	4		100% Hand Auger			- grass. - dk. grayish brown 10YR 3/2	ML		
	8		100% DP			light olive brown 2.5Y 4/3 brown 10YR 4/3 - dk. brown iron staining marbling	CL		0.2
	12		100%			dk. brown 10YR 3/3	GC		0.2
	14		100%			dk yellowish brown 10YR 4/4	SC		0.2
	18		100%			brown 10YR 4/3 - gray/green marbling			0.3
1415	20								0.2
									0.5

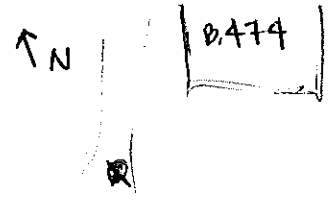
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SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: RFS-GW-0474	Date Started: 8/9/2010
Drilling Method: (Circle one) HSA Continuous Core/GeoProbe/Hand Auger	Date Completed: 8/9/2010
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: CF
Outer Diameter of Boring: 8 1/4" HSA, 2" DP	Drilling Subcontractor: P85
Inner Diameter of Well Casing:	Driller: Norman Dewberry
Depth to Water (ft./bgs.) 7 ft. est.	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1115	1	100% Hand Auger				- grass / dirt -			
	1					dark grayish brown 10 yr. #2	sandy silt dry	ML	
	1					v. dark grayish brown 10 yr. #2	10% fine sand	MH CL	0.0
	1					light olive brown 2.5Y #14	Silty, sandy clay 10% fine sand dry, hard.		
	2	100% DP				olive brown 2.5Y #14	sandy, clayey gravel 30% poorly graded sand 30% ang. gravel, moist	GC	0.1
	2					brown 10YR 4/3	30% well graded sand 40% ang. gravel wet at bottom		0.2
	12		65%			light olive brown 2.5Y 5/4	sandy clay 15% fine sand moist, stiff.	CL	0.1
	12					- with dk. brown, green/gray, + iron staining marbling.			0.2
1200	14	100%				- bottom of boring			0.2



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: RFS-GW-BA73	Date Started: 8/9/2010
Drilling Method: (Circle one) HSA Continuous Core/GeoProbe/Hand Auger	Date Completed: 8/9/2010
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: CF
Outer Diameter of Boring: 8 3/4" HSA, 2" DP	Drilling Subcontractor: USI
Inner Diameter of Well Casing:	Driller: Norman Dewberry
Depth to Water (ft./bgs.): 8 ft. est.	Location Sketch:

↑ N

B. 473

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
900						- grass -			
	4		100% hand auger			v. dark grayish brown 10YR 3/2 dry sandy silt < 5% sand.	ML		
	8		90% DP			v. dark brown 10YR 2/2 ↓ dark grayish brown 2.5Y 7/2 sandy, silty clay 5% sand dry, hard.	ML CL		0.2
	12		90%			olive brown 2.5Y 4/3 ↓ dk yellowish brown 10YR 4/4 sandy, clayey, gravel 30% well graded sand 40% sub-ang. gravel moist ↓ wet	GC		0.1
	16		90%			brown 10YR 4/3 clayey sand. well graded v. moist.	SC		0.2
			90%			dk. brown 7.5YR 3/4 sandy, clayey gravel 40% sub-ang. gravel wet.	GC		0.2
1040	20		90%			dk. yellowish brown 10YR 4/4 sandy clay 40% fine sand v. moist, soft.	CL		0.1

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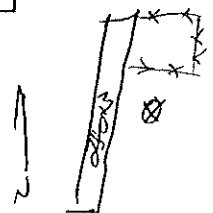


TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: <u>RFS-661-R280B</u>	Date Started: <u>8-6-10</u>
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/ <u>GeoProbe</u> /Hand Auger	Date Completed: <u>8-6-10</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>CF</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 8" DPT</u>	Drilling Subcontractor: <u>RST</u>
Inner Diameter of Well Casing:	Driller: <u>Norman DeBorja</u>
Depth to Water (ft./bgs.) <u>7 ft. est.</u>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
11:35						- grass -			
	0		75%			v. dark gray 10YR 2/1	ML		0.9
	4					sandy silt dry, hard.			
						dark grayish brown 10YR 4/2	MY CL		1.0
						sandy silty clay dry, hard 10% fine sand			
						↓			
						dark yellowish brown 10YR (dk. brown & iron staining mottling) 4/4			
						↓			
	8		100%			Brown 10YR 4/3 moist.	GC		1.1
						sandy, clayey gravel 30% angular gravel 30% well graded sand.			
						↓			
	12		100%			Brown 10YR 4/5 dk brown mottling	CL		0.8
						sandy clay moist, v. stiff. <5% fine sand.			
						↓			
	16		100%			15% fine sand moist, stiff.			0.7
						↓			
	20		100%			25% fine sand, moist, med. stiff.			0.6
						↓			
12:15						<5% sand, moist v. stiff.			0.5
						↓			
									0.8
									0.9

- bottom of boring -



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: <u>RFS-6W-B490</u>	Date Started: <u>8-6-10</u>
Drilling Method: (Circle one) <u>CSA</u> Continuous Core <u>GeoProbe</u> /Hand Auger	Date Completed: <u>8-6-10</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>C. Femic</u>
Outer Diameter of Boring: <u>8 1/4" ASA, 2" IDT</u>	Drilling Subcontractor: <u>RSE</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Dambing</u>
Depth to Water (ft./bgs.) <u>9' est</u>	Location Sketch:

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
0810						- grass -			
			60%			dark grayish brown 10YR 3/2	ML		0.3
	4					black 10YK 2.51	MY CL		0.4
			80%			grayish brown 2.5Y 5/2			0.3
	8					grayish brown 2.5Y 5/2	GL		0.4
			100%			dk yellowish brown 10YR 4/6			0.2
	12					dk. brown 10YK 3/3			0.4
			80%						0.6
	16					brown 10YR 4/3	CL		0.5
			100%						0.8
	20					dk brown 10YR 3/3	SC		0.5

- bottom of boring -



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name: RFS

Boring Number: RFS GW - GEOSCIENCES well field.	Date Started: 7/26/10
Drilling Method: (Circle one) HSA Continuous Core Direct Push Hand Auger	Date Completed: 7/26/10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: Victor Early
Outer Diameter of Boring: 8 1/4" HSA, 2" DP	Drilling Subcontractor: RSI
Inner Diameter of Well Casing:	Driller:
Depth to Water (ft./bgs.) 9' est.	Location Sketch:

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1107	4		60%			GRASS Very dk grey 2.54 3/1 silt/clay dry, 10% SAND Hard, v. FINE poorly graded	ML CL		φ
	8		100%			greyish brown 2.54 5/2 silt/clay, STIFF moist 30% SAND	ML CL	0.4 0.8	
	12		70%			DK yellowish BRN 10YR 4/4 silty SAND with gravel well graded fine - coarse gravel - qtz, silt sub-rounded. moist	SM GM	0.7 0.6	
	16		20%			lt olive brn 2.54 4/4 clay, trace SAND v. FINE, 10% SAND moist, med stiff poorly graded	CL CH	0.7 1.5	
1140	20		20%			Bottom of Boring		1.8	



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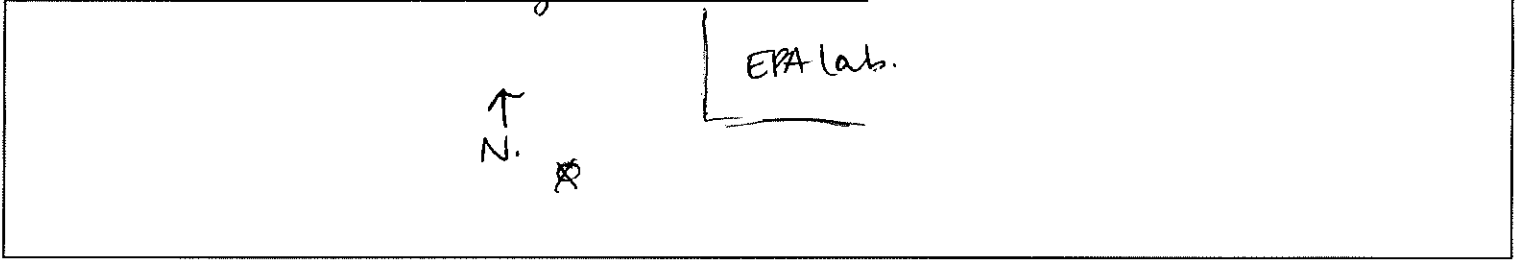
SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO: _____

Bldg./Site: RFS

Project Name: _____

Boring Number: <u>RFS-GW-EPA</u>	Date Started: <u>7/28/2010</u>
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/Direct-Push/Hand Auger/Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: <u>7/28/2010</u>
Outer Diameter of Boring: <u>8 3/4" H&A, 2" DP</u>	Logged By: <u>CF</u>
Inner Diameter of Well Casing:	Drilling Subcontractor: <u>YLSI</u>
Depth to Water (feet bgs): <u>281.6 ft. bgs.</u>	Driller: <u>Norman Newberry</u>
Location Sketch:	



Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
1330	0					grass / dirt			
	1		201.			greyish brown 2.5Y 5/2	ML		1.3
	4		1001			light olive brown 2.5Y 5/3	CL		11.7
	8		1001			olive brown 2.5Y 4/4			9.3
	12		1001			- thin layer of coarse sand (20%) in clay			7.7
	14								6.3
									6.9
									24.7
1450									19.6

-end of boring-



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name: RFS

Boring Number: RFS-GW-B197	Date Started: 7/30/10
Drilling Method: (Circle one) HSA Continuous Core/Direct Push/Hand Auger	Date Completed: 7/30/10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: James Brodersen
Outer Diameter of Boring: 8 1/4" HSA 2" DP	Drilling Subcontractor: PSE
Inner Diameter of Well Casing:	Driller:
Depth to Water (ft./bgs.):	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1330			60%			ASPHALT ROAD BACKFILL TO 1'			
	4					VERY DARK GRAY CLAY, VERY HARD, DRY, TRACE SAND	CL		1.7
						1' TRANSITION			2.6
	8		40%			LIGHT OLIVE BROWN CLAY, SILTY SAND	SM SC		3.1
						2.54 5/3 OCCASIONAL SUB/ROUND GRAVEL			3.0
						SUBST TRANSITION			3.0
	12		80%			OLIVE BROWN CLAYST GRAVEL	GC		3.0
						2.5 3/3 OCCASIONAL LT. BROWN MOTTLED CLAY			3.2
						CHART TRANSITION			3.2
	16		100%			BROWN CLAY, SOFT-V. SOFT	CH		3.0
1345						104R 5/3			3.0
						1" SAND STRINGERS (2-3 TOTAL)			3.2
						BOTTOM OF BORING			

4-14 SCREEN



TETRA TECH EM INC.

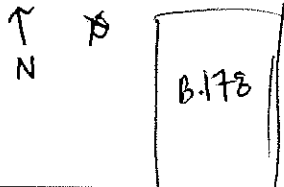
SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO: _____

Bldg./Site: _____

Project Name: _____

Boring Number: <u>1FG-GW-B178</u>	Date Started: <u>2 AUG. 2010</u>
Drilling Method: (Circle one) HSA <u>continuous</u> Core/Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: <u>2 AUG 2010</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Logged By: <u>CF</u>
Inner Diameter of Well Casing:	Drilling Subcontractor: <u>RSI</u>
Depth to Water (feet bgs): <u>6.5' est.</u>	Driller: <u>Norman Dewberry</u>
Location Sketch:	



Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
955	4		1009.		black 2.5Y 2.5/1 compact gravel	sandy silt, dry	ML		
					black 2.5Y 2.5/1	Sandy clay, dry 45% fine sand, hard	CL ML		10.7
	8		1007.		olive brown 2.5Y 4/4	moist, v. stiff.	CL		13.3
					olive brown 2.5Y 4/3	80% fine-med. sand. clayey sand, moist sand = well graded	SC		12.2
	12		1007.		olive brown 2.5Y 4/3 very dark gray + gray/green mottling	sandy clay moist, stiff. 10% fine sand.	CL		9.8
					light olive brown 2.5Y 5/4	clayey sand, moist fine sand, poorly graded.	SC		11.8
					brown 10YR 5/3	clayey, sandy gravel, wet rounded gravel.	GC		9.1
			1057.		light olive brown 2.5Y 5/3	clay, v. moist, soft	CH		12.3
					dark greenish gray GLEY 1 4/1 v. dark greenish gray GLEY 1 3/1				
1050	16				brown 10YR 5/3	sandy gravel, moist 50% angular gravel.	GM		11.1

- bottom of boring

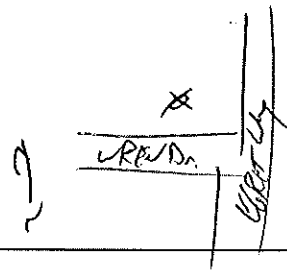


TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: <u>LFS - GW - Test Pit 1</u>	Date Started: <u>8/5/2010</u>
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/GeoProbe/Hand Auger	Date Completed: <u>8/5/2010</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>JE</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Drilling Subcontractor: <u>RSI</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Reubany</u>
Depth to Water (ft./bgs.) <u>8.5 ft. est.</u>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
640	1		55%			gravel/dirt - dk grayish brown 2.5Y 4/2	ML/CL		0.1
	4					very dark grayish brown 10YR 3/2	CL		0.4
	8		100%			brown 10YR 4/3			0.2
	12		100%			dk brown/iron staining/ muddy mudding			0.1
	16		80%			olive gray 5Y 5/2			0.3
	20		95%			very dark grayish brown 10YR 3/2	GC		0.1
						clayey, sandy gravel v. moist 40% well graded sand 30% sub rounded gravel			0.1
						dark yellowish brown 10YR 4/4	CL		0.2
925	20					sandy clay moist, stiff. 20% fine sand 5% gravel.			0.1

- bottom of boring.



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name: RFS

Boring Number: RFS-GW-B163	Date Started: 7/24/10
Drilling Method: (Circle one) HSA Continuous Core Direct Push/Hand Auger	Date Completed: 7/26/10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: Victor Early
Outer Diameter of Boring: 8 1/4 HSA 8" DP	Drilling Subcontractor: RSI
Inner Diameter of Well Casing:	Driller:
Depth to Water (ft./bgs.) 9 est	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1350	4		40%			Asphalt 2" 6" Gravel Base Very dk grayish brn clayey, silty sand with gravel, 70% sand, 20% gravel, dry poorly graded	SM SC		1.5 1.9
	8		100%			dark grey 2.5Y 4/1 greyish brn 2.5Y 5/2 clay, trace sand, 5% sand moist, v. stiff	CL		2.0 2.5
	12		100%			dark greyish gray clay 4/10GY SHA			49.5
	16		100%			lt olive brn 2.5Y 5/3 soft to gravel			2.1 2.3
	20		100%			brown 10YR 4/3 silty sand, v. fine poorly graded, 10% fines DK grayish brn 10YR 4/3 silt/clay med stiff moist 5% sand v. fine 20% sand	SM ML CL		2.5 2.3 0



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:

Bldg./Site:

Project Name: RFS

Boring Number: RFS-GW-NRLF	Date Started: 7/26/10
Drilling Method: (Circle one) HSA Continuous Core/Direct Push/Hand Auger	Date Completed: 7/26/10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: VICTOR Early
Outer Diameter of Boring: 8 1/4" HSA, 1 1/4" D.P. 2" OP	Drilling Subcontractor: RSI
Inner Diameter of Well Casing:	Driller: Norman Penhury.
Depth to Water (ft./bgs.) 11 feet (est.)	Location Sketch:

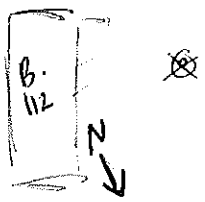
Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
0850	0					GRASS			
	4		100%			Olive Brn 2.5Y 4/2 silt w/ SAND & gravel 30% SAND, FINE poorly graded, gravel is siltstone	SM	φ	
	8		100%			Light yellowish Brn 1 2.5Y 4/3 DRY STIFF		φ	
	12		100%			Olive Lt. Brn 2.5Y 5/6 moist @ C'	CL ML	φ	
	16		100%			Lt. olive Brn 2.5Y 5/6 CLAYEY SAND 60% SAND, V.FINE poorly graded wet, soft	SC	φ	
	20		100%			Lt Olive Brn 2.5Y 4/6 SANDY CLAY V.FINE 30% SAND wet soft poorly graded	CL	φ	
0930	Bottom of boring							φ	



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: B-112
Project Name: RFS

Boring Number: RFS - GW - C00core 3	Date Started: 27 July 2010
Drilling Method: (Circle one) HSA <u>Continuous Core</u> /Direct Push/Hand Auger	Date Completed: 27 July 2010
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: CF
Outer Diameter of Boring: 8 1/4 HSA 2" DP	Drilling Subcontractor: RST
Inner Diameter of Well Casing:	Driller: Norman Penkney.
Depth to Water (ft./bgs.) est. 6 ft.	Location Sketch:



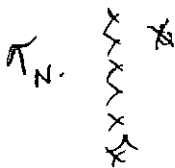
Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
8:00						Grass			
			75'			very dk greyish brown 10YR 3/2 silt, clay, have less than 5% sand.	ML		1.5
	4					dark yellowish brown 10YR 4/4 silty gravel with sand 30% gravel 30% sand.	GM		0.8
			100'			gtz, sandstone.			2.5
	8					yellowish brown 10YR 5/4 silty, clayey sand moist.	SM SC		
						brown 10YR 4/3 - angular gravel	GM		2.7
			100'			brown 10YR 5/3 clay with silt. 5% sand.	CH		3.8
	12					greenish gray streak through clay.			3.2
			100'						3.3
	16								3.1
			75'						4.1
9:15	20					dark greyish brown 10YR 4/3 silty, clayey silt moist, clay with silt 25% sand	SM SC		4.4
						brown 10YR 5/3	CH		



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: **KFS**
Project Name: **FSW GW**

Boring Number: KFS-GW-CCC core 2	Date Started: 7/27/2010
Drilling Method: (Circle one) HSA Continuous Core/Direct Push/Hand Auger	Date Completed: 7/27/2010
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: CF
Outer Diameter of Boring: 8 1/4 HSA, 2" DP	Drilling Subcontractor: RSI
Inner Diameter of Well Casing:	Driller: Norman Dewberry
Depth to Water (ft./bgs.) 6 ft. est.	Location Sketch:



B113

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches)	V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
920	4		75%				grass. very dk grayish brown 10YR 3/2 silt, dry hard 25% sand.	ML		
	8		100%				dark yellowish brown 10YR 4/4 clay, dry, hard	CH		2.3
	12		100%				brown 10YR 4/3 clayey gravel - angular gravel - little est. est. est. 70% gravel + sand.	GC		2.4 2.3 2.2
	14		80%				dark yellowish brown 10YR 4/6 clay, hard c. 5% sand slightly moist.	CH		2.3
	14						dark grayish brown 2.5YR 4/2 clayey gravel (sandy) 50% sand 30% gravel wet.	GC		2.1 2.5
1015	14						- bottom of boring - (gravelly)			2.3



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name:

Boring Number: <u>PFS-GW-CCC Core 1</u>	Date Started: <u>7/27/2010</u>
Drilling Method: (Circle one) <u>HSA Continuous Core</u> /Direct Push/Hand Auger	Date Completed: <u>7/27/2010</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>CF</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Drilling Subcontractor: <u>BSI</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Newberry</u>
Depth to Water (ft./bgs.) <u>6 ft. est.</u>	Location Sketch:

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1100						Grass			
						dk. grayish brown 2.5Y 4/2	ML		
			80%			dk. brown 7.5YR 3/2 (slight purple at top)	ML		3.6
	4					brown 10YR 5/3	GC		3.3
			100%			dark yellowish brown 10YR 5/4	CL/ML		3.6
	8					light olive brown 2.5Y 5/4	CL/ML		4.1
			100%			olive brown 2.5Y 4/3	GC/SC		3.5
	12								4.0
			70%			brown 10YR 4/3	CL/ML		4.3
1140	16					- bottom of boring -			3.9



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name:

Boring Number: <u>RFS - GW - dry house</u>	Date Started: <u>7/27/2010</u>
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/Direct Push/Hand Auger	Date Completed: <u>7/27/2010</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>CF</u>
Outer Diameter of Boring: <u>3/4" HSA ; 2" DP</u>	Drilling Subcontractor: <u>RSI</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Newberry.</u>
Depth to Water (ft./bgs.) <u>5 feet. est.</u>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	V.B. utility type, dia. Blow count (per 6 inches)	Description	USCS soil symbol	Well construction	OVM (ppm)
1245	4		50%			grayish brown ^{grass} 2.5Y 5/2 silt, dry, hard ✓	ML		3.2
	4					light yellowish brown 2.5Y 6/4 clayey, gravelly, sand 30% gravel, 30% sand moist at bottom.	GC		4.7
	8		100%			brown 10YR 5/3 - clayey, silty sand. very stiff. - fine schel, poorly graded	SC / SM		4.0
	8					- small patch of coarse sand & small gravel. - moist.			5.7
	12		80%			- very fine sand at bottom - wet, stiff.			5.2
	12					brown 10YR 5/3 clay with sand 5% sand very stiff moist. some green/gray marbling in clay	CL		5.5
	16		100%						4.6
						bottom of boring			5.0



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: RFS
Project Name:

Boring Number: <u>RFS-GW-WTA</u>	Date Started: <u>7/27/2010</u>
Drilling Method: (Circle one) HSA <u>Continuous Core</u> /Direct Push/Hand Auger	Date Completed: <u>7/27/2010</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>CF</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Drilling Subcontractor: <u>RSI</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Newberry</u>
Depth to Water (ft./bgs.) <u>6 ft. est.</u>	Location Sketch:

EPA

↑ N.

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1440	0					- grass - very dark gray 2.5Y 3/1 ↓ dark grayish brown 2.5Y 4/2 ↓ light yellow brown 2.5Y 6/3 ↓ light olive brown 2.5Y 5/4 Some dk. brown + green/gray mudding.	ML/CL		2.4
	4		100%			moist, hard			2.9
	8		100%						4.2
	12		100%						4.9
	16		100%			olive brown 2.5Y 4/4 clayey sand 80% sand 10% small gravel V. moist.	SC		5.5
1510	16					dk. grayish brown 2.5Y 4/2 - bottom of boring - clay, Si. sand moist.	CH		3.5
									4.1
									4.6



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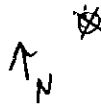
SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO: _____

Bldg./Site: RFS

Project Name: _____

Boring Number: <u>RFS - GW - CTP South</u>	Date Started: <u>7/28/2010</u>
Drilling Method: (Circle one) <u>HSA</u> (Continuous) Core/Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: <u>7/28/2010</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Logged By: <u>CF</u>
Inner Diameter of Well Casing:	Drilling Subcontractor: <u>RSI</u>
Depth to Water (feet bgs): <u>app. 16 feet bgs.</u>	Driller: <u>Norman Neuberry</u>
Location Sketch:	



EPA Leach

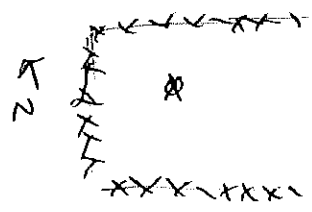
Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
1520	4		30'			very dark gray 2.54 3/1 silt, hard, dry 20% sand 20% gravel	ML		3.4
	8		100'			very dark gray 2.54 3/1 - some iron staining sandy clay 40% sand hard.	CL		12.2
	8		100'			light olive brown 2.54 5/3 sandy, clayey gravel well graded sand 50% gravel sub-angular moist.	GC		10.1
	8		100'			brown 104R 4/3 clayey sand poorly graded moist	SC		9.9
	12		100'			brown 104R 4/3 clay, v. stiff moist. 5% sand some brown/orange rust staining	CL		7.6
	16		100'			- bottom of boring -			3.7
									3.5



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO: _____
 Bldg./Site: RFS
 Project Name: _____

Boring Number: <u>RFS-GW-MFA</u>	Date Started: <u>7/28/2010</u>
Drilling Method: (Circle one) <u>HSA Continuous Core</u> /Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: <u>7/28/2010</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Logged By: <u>CF</u>
Inner Diameter of Well Casing:	Drilling Subcontractor: <u>RSI</u>
Depth to Water (feet bgs): <u>est. 5 ft. bgs.</u>	Driller: <u>Norman Newberry</u>
Location Sketch:	



Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
1100	0					fill gravel / dirt			
	4		50%			light olive gray 5Y 6/2 silt, hard, dry w/ small gravel	ML		
						black 10YR 2/1 clay, hard 5-10% sand	CH		6.0
						↓ grayish brown 2.5Y 5/2 stiff, moist			6.2
	8		100%			some orange iron staining			10.2
						olive brown 2.5Y 4/4 clayey sand. fine sand moist.	SC		8.2
	12		70%			grayish brown 2.5Y 5/2 moist clayey sandy gravel sand = well graded gravel - 30% ↓ moist at bottom	GC / CM		4.6
						dark grayish brown 2.5Y 4/2 clay, 15% sand fine sand. hard, moist ↓ v. stiff, moist	CL		7.3
1145	14		100%						8.0
									6.9

- bottom of boring -



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO: _____
 Bldg./Site: BFS
 Project Name: _____

Boring Number: <u>PFS-GW-ETA</u>	Date Started: <u>7/28/2010</u>
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: <u>7/28/2010</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Logged By: <u>CF</u>
Inner Diameter of Well Casing:	Drilling Subcontractor: <u>CF PSI</u>
Depth to Water (feet bgs): <u>SA. 7 feet bgs.</u>	Driller: <u>Norman Newberry</u>
Location Sketch:	



Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
0850	4		60'		11	wood chips/dirt - very dark grayish brown 10YR 3/2	GM/CL ML		3.9
	8		60'		11	light olive brown 2.5Y 5/1 Gravel, clayey silt with 50% angular gravel moist.	GE GC		4.0
	8		60'		11	brown 10YR 4/3 silty, clayey, sand fine grain sand moist, poorly graded.	SM SC		5.4
	12		75'		11	reddish black 2.5YR 2.5/1 silty sand layer with decaying organic matter, moist greenish gray GLEY 5/1 clayey, sand + gravel	SH GC		3.7
	12		75'		11	light olive brown 2.5Y 5/3 60% sand + gravel (angular) moist met at bottom of layer.			3.0
	16		100'		11	yellowish brown 10YR 5/4 clay, medium silt moist / wet. 45% sand.	CH		3.5
1030	16		100'		11				3.2

bottom of boring

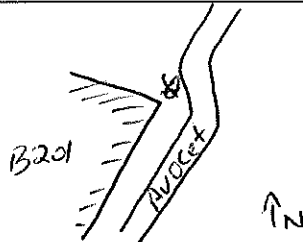


TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name: RFS

Boring Number: RFS GW 13278	Date Started: 7/29/10
Drilling Method: (Circle one) HSA Continuous Core/Direct Push/Hand Auger	Date Completed: 7/29/10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: VICTOR EARLY
Outer Diameter of Boring: 8 1/4" HSA 2" DP	Drilling Subcontractor: RSI
Inner Diameter of Well Casing:	Driller: Norman Dewberry
Depth to Water (ft./bgs.) 8' est	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
5847			80-90			LT olive brn 2.5Y 5/3 silt/clay, dry, hard 12 Root & Gravel (210%)	CL ML		11.3
	4					olive brn 2.5Y 4/3 clayey Gravel w/ SAND serpentine, angular 40% gravel 20% fine-grained sand	GC		10.3
	8		80-90			moist			11.4
	12		90-100			no recovery			9.2
						LT olive brn 2.5Y 5/4 clayey SAND / sandy clay 40-60% SAND, fine wet med. stiff	SC CL		9.5
0910	16					bottom of boring			10.2
									9.5



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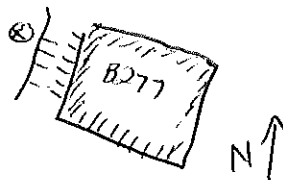
SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:

Bldg./Site:

Project Name: RFS

Boring Number: RFS GW B 277	Date Started: 7/29/10
Drilling Method: (Circle one) <u>HSA Continuous Core</u> / Direct Push / Hand Auger	Date Completed: 7/29/10
Air Rotary / Mud Rotary / Dual Tube Percussion / Sonic / Vacuum	Logged By: Victor Early
Outer Diameter of Boring: 8 1/4" HSA, 2" DP	Drilling Subcontractor: RSI
Inner Diameter of Well Casing:	Driller: Norman Dewberry
Depth to Water (ft./bgs.) 9' est	Location Sketch:



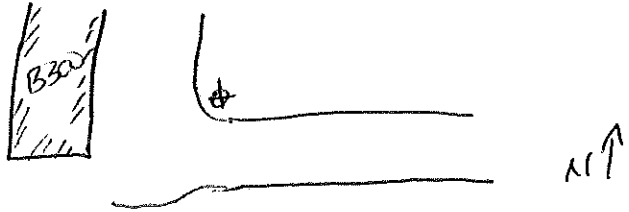
Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
CB35	4		60%			<p><u>Grass</u></p> <p>V. dk grey 2.5Y 3/1 ↓ olive brn 2.5Y 3/1</p>	CL ML		8.4 8.7
	8		100%			<p>moist</p> <p>olive brn 2.5Y 4/4</p> <p>SANDY, clayey Gravel 20% SAND, 50% gravel Serpentine, angular well graded FINE-GRADE SAND, wet</p>	GM GC		9.2 9.0
	12		100%			<p>VERY DK BRN 10YR 2/2</p> <p>olive brn 2.5Y 3/1</p>			8.9 8.7
CB45	16		100%			<p>olive brown 2.5Y 4/4</p> <p>Sandy clay, soft wet 10-20% SAND, FINE med. stiff</p>	CL		8.2 9.1
						bottom of Boring			



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name: *RFS*

Boring Number: <i>RFS 6W B300</i>	Date Started: <i>7/29/10</i>
Drilling Method: (Circle one) <i>HSA Continuous Core</i> / <i>Direct Push</i> / Hand Auger	Date Completed: <i>7/29/10</i>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <i>VICTOR EARLY</i>
Outer Diameter of Boring: <i>8 1/4" HSA 2" OP</i>	Drilling Subcontractor: <i>RSE</i>
Inner Diameter of Well Casing:	Driller: <i>Norman Dewberry</i>
Depth to Water (ft./bgs.) <i>9 est</i>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
<i>0815</i>			<i>100%</i>			<i>GRAVEL / GRASS</i> dk Bcn 10YR 3/3 silt/clay, dry, hard, to root 40% SAND	<i>CL ML</i>		<i>1.7</i>
	<i>4</i>		<i>100%</i>			Lt olive Bcn 2.5Y 4/4 5/4 clayey gravel, dry 40% gravel, 20% SAND, FINE serpentinite, angular ↓ moist	<i>GC</i>		<i>1.9</i>
	<i>8</i>		<i>100%</i>						<i>2.8</i>
	<i>12</i>		<i>100%</i>			Lt olive Bcn 2.5Y 4/4 5/4 SANDY clay, soft, 20% SAND, wet ↓ 40% SAND, 10% gravel ↓ 20% SAND	<i>CL</i>		<i>4.0</i>
			<i>100%</i>			olive Bcn, 2.5Y 4/4 clay, med stiff, wet 10-20% SAND	<i>CH</i>		<i>4.4</i>
<i>0825</i>	<i>16</i>					bottom of Boring			<i>4.5</i>



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name: RFS

Boring Number: <u>RFS GW B280A</u>	Date Started: <u>7/29/10</u>
Drilling Method: (Circle one) <u>HSA Continuous Core</u> <u>Direct Push</u> Hand Auger	Date Completed: <u>7/29/10</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>Victor Early</u>
Outer Diameter of Boring: <u>0'14" HSA, 2" DP</u>	Drilling Subcontractor: <u>RSE</u>
Inner Diameter of Well Casing:	Driller:
Depth to Water (ft./bgs.) <u>6' est</u>	Location Sketch:

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
0915	4		70%			Asphalt LT brownish gray 10YR 6/2 black 2.5Y 2.5/1 greenish gray clay 5/1 H. olive brn 2.5Y 5/4 DK olive brn 2.5Y 3/3 LT olive brn 2.5Y 5/4 trace weak red 10R 4/4 @ 10.5 feet	GW CH GC SW CL		5.7 9.9 9.6 10.3 9.0 9.8 8.8 8.5
0935	16		90%			bottom of boring			



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:

Bldg./Site:

Project Name: RFS

Boring Number: <u>RFS-GW-CTP deep.</u>	Date Started: <u>8/12/2010</u>
Drilling Method: (Circle one) <u>CSA</u> Continuous Core/Direct Push/Hand Auger	Date Completed: <u>8/12/10</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>V. EARLY</u>
Outer Diameter of Boring: <u>8 1/4"</u>	Drilling Subcontractor: <u>nei</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Dewberry.</u>
Depth to Water (ft./bgs.) <u>UNKNOWN, <20'</u>	Location Sketch:

2T
B2E08

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
920						olive brn 2.5Y 4/3	SANDY CLAY med stiff 30% SAND FINE moist	CH CL	
	20		100%			lt olive brn 2.5Y 4/6 5/6	SANDY CLAY w/ gravel - SANDY GRAVEL/LENS - FINE to med grained. 20% gravel, 20% SAND soft, moist SAND, FINE, gravel -> rounded	CL	1.5
	2A		100%			lt olive brn 2.5Y 5/3	clay, v. STIFF, moist 10% SAND white mottling	CH	1.8
	20		100%			lt olive brn 2.5Y 5/4	gravelly clay, moist med stiff 20% gravel, angular 10% SAND - SAND LENS - FINE	CL	1.9
	32		100%			lt olive brn 2.5Y 5/3	SANDY clay/clayey SAND 50% SAND FINE soft, moist - iron staining -	CL SC	2.3
	36		100%						2.6



**SOIL BORING AND WELL INSTALLATION
AND VISUAL CLASSIFICATION LOG**

DO:
Bldg./Site:
Project Name: RFS

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)	
	36	X	(B) 25			SAME				
	40					olive brn 2.54 4/4	SAND, FINE, moist-wet 20% fines	SC SM		
						greenish gray Gey 1 5/1	SANDY CLAY med. stiff 20% SAND moist	CL CH		2.7
						bottom of boring				



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name: RFS

Boring Number: RFS-GW-CTP	Date Started: RFS-GW-CTP CTP 7/30/2010
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/Direct Push/Hand Auger	Date Completed: 7/30/10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: VICTOR EARLY
Outer Diameter of Boring: 8 1/4" HSA, 2" DP	Drilling Subcontractor: RSE
Inner Diameter of Well Casing:	Driller: Norman Deuberg
Depth to Water (ft./bgs.) 9' est.	Location Sketch:

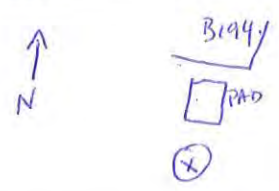
Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
0630						GRASS			
	4		60%			very dk gray clay, hard, dry 2.5Y 5/2	CL		3.2
	8		100%			Lt olive brn sandy clay 2.5Y 5/3 → white mottling	CL		3.4 3.8
	12		100%			Lt olive brn sub rounded clayey gravel 2.5Y 5/4 ssp. 70% gravel moist	GC		4.2 5.1 4.9
	16		100%			olive brn sandy clay, 2.5Y 4/4 10-20% fine sand moist, med. stiff	CL		5.3
0845	16					bottom of boring			5.2



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name: RFS

Boring Number: <u>RFS-GW-B194</u>	Date Started: <u>7/30/10</u>
Drilling Method: (Circle one) <u>HSA Continuous Core</u> /Direct Push/Hand Auger	Date Completed: <u>7/30/10</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>JASON BRODERSEN</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Drilling Subcontractor: <u>RST</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Deuberry</u>
Depth to Water (ft./bgs.) <u>9' est.</u>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
10:00			75%			<u>GLASS</u> VERY DARK GRAY 2.5Y 3/1	CL		12.8
	4					LIGHT OLIVE BROWN 2.5Y 5/3	CL		12.2
			100%						12.3
	8					Blow 104R 4/3	CL		7.0
			100%			DARK GREYISH BROWN 2.5YR 4/2	GC		7.5
	12					VERY ANGULAR (FULL CORE)			7.2
			100%			MOTTLED THROUGHOUT ← WET → → PURPLISH CHINK → VERY LOSE			6.5
	16					Brown 104R 4/3	CL		7.1
10:15						BOTTOM of BORING			

7-17 SCREEN



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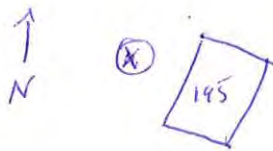
SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:

Bldg./Site:

Project Name: RFS

Boring Number: RFS-GW-B195	Date Started: 7/30/10
Drilling Method: (Circle one) HSA Continuous Core/Direct Push/Hand Auger	Date Completed: 7/30/10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: Jason Brodersen
Outer Diameter of Boring: 8 1/4 HSA, 2" DP	Drilling Subcontractor: RSE
Inner Diameter of Well Casing:	Driller: Norman Deubeny
Depth to Water (ft./bgs.) 8 ft. est.	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1020	4		50%		6 PASS	VERY DARK GREY - CINDERS - CLAY, HARD, DRY <10% SAND	CH CL		88
	8		100%			LIGHT OLIVE BROWN SANDY CLAY STIFF, MOIST LARGE, ANGULAR QUARTZ CLASTS 20% SAND	CL		18.2 20.5
	12		100%	Y?		LIGHT BROWNISH GREY SANDY SILT, SOFT ORANGE MOTTLED CLAY (10 YR 5/6) 30% FINE SAND, MOIST	ML CL		15.1
	16		100%			LIGHT OLIVE BROWN SANDY CLAY, SOFT DARK GREYISH BROWN COARSE SILTY SAND SUB ROUNDED GRAVEL 5% WET, SOFT POORLY GRADED	CL SM		16.0 15.9
1030						DARK GREY/ASH BROWN SANDY CLAY, SOFT 30% SAND, WET	CL		15.6
						MOTTLED ROUNDED GRAVEL.			15.4
						BOTTOM OF BORING			



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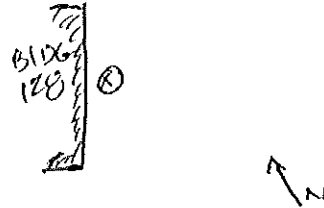
SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:

Bldg./Site:

Project Name: RFS

Boring Number: <u>RFS-6W-B128 DEEP</u>	Date Started: <u>8/12/10</u>
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/ <u>Direct Push</u> / <u>Hand Auger</u>	Date Completed: <u>8/12/10</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>V. EARLY</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Drilling Subcontractor: <u>RSE</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Deukery</u>
Depth to Water (ft./bgs.) <u>9' est</u>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
14:00	0					GRAVE/3"			
	0		100% HSA	5Y3/2		DK olive gray SANDY CLAY moist soft 20% fine SAND	CL		1.6
	4		100% HSA	2.5Y 3/3		DK olive brn clay/sand w/ gravel 80% fines, well graded fine-med sand. moist	SC		2.4
	8		100% HSA	2.5Y 4/4		olive brn SANDY CLAY, moist med-stiff	CL		1.9
	12		100% HSA			SANDY gravel lens			1.3
	16		100% HSA			dk greenish grey clay 4/100y			2.4
	16		100% HSA	2.5Y 4/3		olive brn. clayey sand, moist fine, 40% fines	SC		3.0
	20		100% HSA	5Y3/2		DK olive gray SAND FINE, med wet, well graded	SW		



**SOIL BORING AND WELL INSTALLATION
AND VISUAL CLASSIFICATION LOG**

DO:
Bldg./Site:
Project Name: RFS

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches)	V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
	20		100%				olive brn 2.5Y 4/4	CL		2.9
	24		100%				SANDY CLAY 30% SAND, FINE soft, moist trace gravel angular serp.			2.8
	28		100%				- trace gravel - rounded			3.2
	32		100%				40% SAND - trace gravel - rounded.			2.2
			100%				olive brn 2.5Y 4/3	SC		2.2
			100%				clayey SAND wet tr gravel 40% fines			
	36		100%				dk grayish brn 2.5Y 4/2	CL		2.2
			100%				SANDY CLAY 30% SAND FINE moist soft			
			100%				- tr gravel - 40% SAND -			2.5
	40		100%				dk grey 2.5Y 4/1	SW		
			100%				SAND, FINE TO CRSE 10% fines well graded, wet			
			100%				olive brown 2.5Y 4/3	CH		
			100%				CLAY, soft, 210% fines moist			
			100%				bottom of boring			



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SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:

Bldg./Site:

Project Name:

Boring Number: <u>2FS-GW-B177</u>	Date Started: <u>8/11/2010</u>
Drilling Method: (Circle one) <u>HSA Continuous Core</u> /GeoProbe/Hand Auger	Date Completed: <u>8/11/2010</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>CF</u>
Outer Diameter of Boring: <u>9 1/4" HSA, 2" DP</u>	Drilling Subcontractor: <u>KSi</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Deuberg</u>
Depth to Water (ft./bgs.): <u>10 est.</u>	Location Sketch:

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1330	7		100% Hand Auger			Asphalt. gravel backfill, road base -			
	7					v. dark brown 10YR 2/2 clayey, sandy, silty, hard, dry 10% fine sand.	ML		
	8		70% DP			dark yellowish brown 10YR 4/6 sandy, clayey gravel 20% well graded sand 20% 8M-large ang. gravel moist	GC		3.3
	8					↓ 20% small sub-rounded gravel v. moist.			3.0
	12		85% DP						2.9
	12					dk. yellowish brown 10YR 4/4 sandy clay 20% fine sand moist, med. stiff	cl		3.4
	12		100% DP			olive brown 2.5Y 4/4 clayey, silty, sand poorly graded moist	SC/SM		3.2
	12					dk. brown 10YR 2/3 sandy gravel, no fines 5M-large sand WET.	GP		2.6
1520	20		100% DP			brown 10YR 4/3 sandy clay moist, med. stiff 5% fine sand.	cl		2.9
						- bottom of boring -			

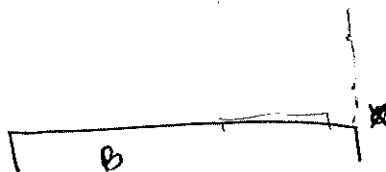


SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: KFS-GW-B150	Date Started: 8/11/2010
Drilling Method: (Circle one) HSA Continuous Core/GeoProbe/Hand Auger	Date Completed: 8/11/2010
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: CF
Outer Diameter of Boring: 8 1/4" HSA, 2" DP	Drilling Subcontractor: Ksi
Inner Diameter of Well Casing:	Driller: Norman DeWberry
Depth to Water (ft./bgs.): 7 ft. est.	Location Sketch:

↑ N



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1150						- grass - v. dark gray 10YR 3/1 ↓ brown 10YR 4/3	ML CL		
	4		100% Hand Auger			dk. yellowish brown 10YR 4/4 moist -	GC		1.6
	8		90% DP			dk. yellowish brown 10YR 4/6 - with gray/green, dk brown iron staining markings	CL		1.8
			50%						2.4
	12					brown 10YR 4/3 ↓ dk. olive brown 2.5Y 3/3 moist WET.	GC		2.0
			100%			brown 10YR 4/3			2.6
	16					sandy clay 45% fine sand moist, med. stiff.	CH		2.5
			100%						3.0
1240	20					brown 10YR 4/3 moist. clayey sand poorly graded, fine sand	SC		2.9
									2.2.

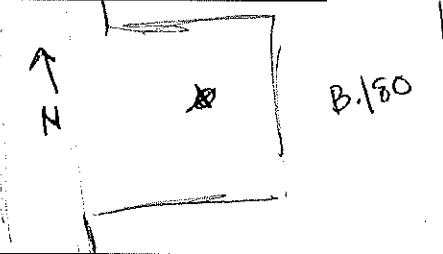
• bottom of boring.



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: WFS-BW-B180	Date Started: 8/11/2010
Drilling Method: (Circle one) HSA <u>Continuous Core</u> /GeoProbe/ <u>Hand Auger</u>	Date Completed: 8/11/2010
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: CF
Outer Diameter of Boring: 8 1/4" (HSA), 2" DP	Drilling Subcontractor: K&J
Inner Diameter of Well Casing:	Driller: Norman Denberry
Depth to Water (ft./bgs.): 8 ft. est.	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
9:20	0					- grass - v. dark gray 7.542 311	ML		
	4		100% Hand Auger			v. dark gray 4.12 311 ↓ olive brown 2.54 413	ML CL		
	8		85% DP			↓ dk brown 10.12 313	GC		0.5 1.3
	12		80%			olive brown 2.54 414	CL		1.8 2.2
	16		100%			dk. yellowish brown 10.12 414	SC		2.3 2.6
	20		100%			well graded sand, wet ↓ - 1 inch Ø sm. rounded gravel at bottom -			2.7 2.3



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name:

Boring Number: RFS-GW-B330	Date Started: 8/10/10
Drilling Method: (Circle one) HSA Continuous Core/Direct Push/Hand Auger	Date Completed: 8/10/10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: V. Early
Outer Diameter of Boring: 8 1/4" HSA, 2" DP	Drilling Subcontractor: KSI
Inner Diameter of Well Casing:	Driller: Norman Deuberry
Depth to Water (ft./bgs.) 9.5 ft.	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches)	V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
9:15							GRASS			
	4		N/A N/A				0.512 gray clay, soft, v. soft 10YR 3/1 2.5Y 4/3 olive brn 30% fines angular, moist	CH GM GC		0.3
	8		80%				40% fine sand SANDY CLAY, med-stiff, moist 2.5Y 5/4 olive brn 2.5Y 4/3 SANDY GRAVEL w/ silt & clay 20% fines	CL GM		1.0
	12		60%				- SANDY - well graded fine-coarse sand gravel-angular moist			1.5
	16		80%				80% BROWN ORG SANDY CLAY, soft moist 2.5Y 4/4 olive brn 2.5Y 4/3 SANDY GRAVEL w/ silt & clay 20% fines well graded fine-coarse sand	CL CH GM		1.5
	20		80%				→ SANDY LOOSE ← SANDY CLAY, med-stiff 30-40% SAND, FINE cont'd ↓	CL		1.5



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name:

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
	20					(SAME) → SANDY LENSEL (fine-med) wet	CL		
	24		70 70			→ SANDY LENSEL (COARSE)	CL		1.8
	28		80 70			Lt olive Brn 2.5Y 5/3 Gravelly clay 20% gravel, med. stiff, wet	CL		2.0
	32		80 70			→ SANDY LENSEL - FINE -			2.0
	36		100			OLIVE BROWN 2.5Y 4/3 SILTY, CLAYEY SAND - FINE, POORLY GRADED WET.	SM/SC		2.0
	40		100			V. DARK GRAY 2.5Y 3/1 WELL GRADED SAND FINE TO COARSE, WET 6% FINES, ROUNDED.	SW		2.0
	44		85			OLIVE BROWN 2.5Y 4/3 ↓ GLEY 1 9/1/04 SANDY CLAY 90% FINE SAND MOIST, MED. STIFF ↓ 10% SAND, MOIST, V. STIFF.	CL		2.3
						- BOTTOM OF BORING -			



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name:

Boring Number: <u>LFS-GW-BUBB1</u>	Date Started: <u>9/29/2020</u>
Drilling Method: (Circle one) HSA Continuous Core/ <u>Direct Push</u> /Hand Auger	Date Completed: <u>9/29/2020</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>C. Ferric</u>
Outer Diameter of Boring: <u>2"</u>	Drilling Subcontractor: <u>R87</u>
Inner Diameter of Well Casing: <u>—</u>	Driller: <u>Victor Macy</u>
Depth to Water (ft./bgs.) <u>0.8 to 9.5 ft.</u>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches)	V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1350	0'						grass/DIRT			
	0' - 4'		30%				light brownish gray 10YR 6/2 sandy, clayey silt hard, dry	ML		
	4' - 8'		30%				gray 2.5Y 5/1 sandy gravelly clay	GW		
	8' - 12'		30%				light gray 2.5Y 7/1 poorly graded gravel in size (1") angular	GP		0.1
	12' - 16'		30%				black GLEY 1 2.5/N clayey silt very soft, moist	ML CL		0.0
	16' - 20'		30%				dark brown 2.5Y sandy, silty clay 30-40% fine sand moist, M. stiff	ML CL		0.0
	20' - 24'		100%				dk. yellowish brown 10YR 4/6 iron & greenish gray manganiferous 10% sand moist, stiff			0.1
1425	24' - 28'		100%				yellowish brown 10YR 5/4 30-40% sand moist, soft.			0.1

- bottom of boring



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name:

Boring Number: <u>DFS-GW-BULBZ</u>	Date Started: <u>9/29/2010</u>
Drilling Method: (Circle one) HSA Continuous Core/ <u>Direct Push</u> /Hand Auger	Date Completed: <u>9/29/2010</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>C. Felice</u>
Outer Diameter of Boring: <u>2"</u>	Drilling Subcontractor: <u>K&I</u>
Inner Diameter of Well Casing:	Driller: <u>K&I Victor Marcy</u>
Depth to Water (ft./bgs.): <u>28.1 ft.</u>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
14:50	4'		10'			- grass/dirt - in dark gray brown 10YR 3/2	ML		0.2
	8'		0'			~ black decomposed wood,			no sample
	12'		5'			Brown 10YR 5/3	SP/SC		1.7
	16'		00'			Brown 10YR 4/3	CL		0.5
	20'		10'			Brown 10YR 5/3	SC		0.5

→ Bottom of boring



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO: _____

Bldg./Site: _____

Project Name: _____

Boring Number: DFS-GW-B120	Date Started: 2 Aug 2010
Drilling Method: (Circle one) <u>HSA Continuous Core</u> /Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: 2 Aug 2010
Outer Diameter of Boring: 8 1/4" ITSA, 2" IDP	Logged By: CF
Inner Diameter of Well Casing:	Drilling Subcontractor: LSI
Depth to Water (feet bgs): 6' est.	Driller: Norman Dewberry
Location Sketch:	

Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
8:20	0					- compacted gravel -			
	0		60%			greyish brown 2.5Y 5/2 ↓ pale yellow 2.5Y 7/3	ML silt, dry, soft 10% gravel.		7.7
	4					black 2.5Y 2.5/1 ↓ dark greyish brown 2.5Y ↓ (white mottling) 4/2 - (rust brown staining)	CL sandy clay, dry, hard 25% sand ↓ stiff, moist 15% sand, 5% gravel		8.4
	8		100%			olive brown 2.5Y 4/4 ↓ olive brown 2.5Y 4/3 Some greenish-gray mottling.	SC clayey sand, moist stiff. fine sand, poorly graded		10.3
	12		80%			olive gray 5Y 5/2 ↓ dark greyish brown 2.5Y 4/2	SW 3C clayey sand, moist - well graded sand 15% small sub-rounded gravel.		9.7
	16		90%			brown 10YR 5/3	CL wet at bottom. sandy clay, moist, stiff. 10% fine sand.		10.1
9:30	16								10.6
									9.4
									8.9

- bottom of boring -



TETRA TECH EM INC.

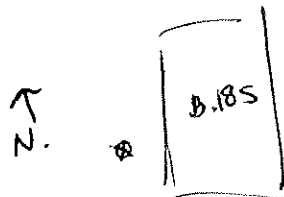
SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO: _____

Bldg./Site: _____

Project Name: _____

Boring Number: <u>RFS-GW-B185</u>	Date Started: <u>8/2/2010</u>
Drilling Method: (Circle one) HSA <u>Continuous</u> , Core/Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: <u>8/2/2010</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP.</u>	Logged By: <u>CF</u>
Inner Diameter of Well Casing:	Drilling Subcontractor: <u>PSI</u>
Depth to Water (feet bgs): <u>est. 6 ft.</u>	Driller: <u>Norman Deuberry</u>
	Location Sketch:



Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
12:05	0					<u>compacted gravel</u>			
	4					<u>new dark grayish brown 10YR 2/2</u>	<u>ML</u>		15.6
	4					<u>sandy silt, dry, hard 20% angular gravel (top)</u>			
	4					<u>black 10YR 2/1</u>	<u>ML/CL</u>		14.5
	4					<u>sandy, silty clay dry, hard <5% sand.</u>			
	8					<u>olive brown 2.5Y 4/3</u>			13.7
	8					<u>moist, stiff.</u>			
	8					<u>greenish gray dk. brown mottling iron staining</u>			13.3
	8					<u>10% fine sand.</u>			
	12					<u>olive brown 2.5Y 4/4</u>	<u>SC</u>		13.6
	12					<u>clayey sand, moist - fine sand, poorly graded</u>			
	12					<u>10% gravel at bottom.</u>			
	16					<u>light olive brown 2.5Y 5/3</u>	<u>CL</u>		11.4
	16					<u>sandy clay, moist stiff. <5% fine sand.</u>			
	16					<u>olive brown 2.5Y 4/4</u>	<u>SC</u>		10.8
	16					<u>clayey sand, moist fine sand, poorly graded</u>			
1:30	16					<u>olive brown 2.5Y 4/3</u>	<u>CH</u>		9.6
	16					<u>clay, moist, stiff.</u>			

bottom of boring

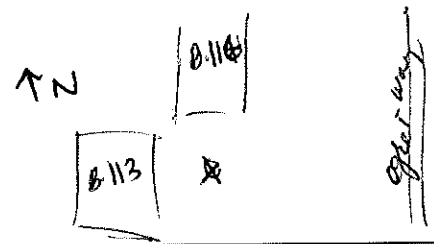


TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO: _____
 Bldg./Site: _____
 Project Name: _____

Boring Number: <u>RFS-GW-CCC Transformer</u>	Date Started: <u>8/2/2010</u>
Drilling Method: (Circle one) HSA <u>Continuous Core</u> /Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: <u>8/2/2010</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP.</u>	Logged By: <u>CF</u>
Inner Diameter of Well Casing:	Drilling Subcontractor: <u>R81</u>
Depth to Water (feet bgs): <u>7.5 est.</u>	Driller: <u>Norman Darberry</u>
Location Sketch:	



Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
1405	4		70%			- grass/dirt - v. dark grayish brown 10YR 3/2 - pyrite cinders.	ML dry silt, hard 45% sand.		6.1
	4		70%			dk grayish brown 2.5Y 4/2	HY CL sandy, silty clay, dry, hard. 10% sand.		6.8
	8		100%			yellowish brown 10YR (pyrite cinders.) 5/4 blown 10YR 4/3	GM CL sandy, silty gravel, dry 40% angular gravel. sandy clay, dry, hard		5.5
	8		100%			- some white/chalky mottling - greenish gray iron staining	CL moist, stiff.		5.3
	12		100%				medium stiff.		5.6
	12		100%						5.8
	16		100%			brown 10YR 4/3	SM/SC moist clayey, silty, sand		6.7
1500	16								6.6

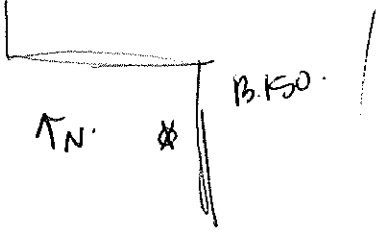
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SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: <u>2FS-GW-B150</u>	Date Started: <u>8/3/2010</u>
Drilling Method: (Circle one) HSA <u>Continuous Core</u> /GeoProbe/Hand Auger	Date Completed: <u>8/3/2010</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>CF</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP</u>	Drilling Subcontractor: <u>K81</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Dewbury.</u>
Depth to Water (ft./bgs.) <u>7.5 ft (est)</u>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 5 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1910						- dirt -			
			70%			v. dk. grayish brown 10YR 3/2	ML		1.5
	4					strong brown 7.5YR 4/6 ↓ (mottled) yellowish brown 10YR 5/6	CL		4.0
	8		100%			olive brown 2.5Y 4/4 - light brown iron staining at bottom	CL		4.6
			100%			dark yellowish brown 10YR 3/6 with brownish yellow, white, & dk. brown mottling	GC		4.8
	12					Brown 10YR 4/3 - dk brown iron staining marbling	CL		3.2
			100%						3.6
1500	14					- bottom of boring -			3.9



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO: _____
 Bldg./Site: _____
 Project Name: _____

Boring Number: <u>DFS-GW-B1755.</u>	Date Started: <u>8-3-10</u>
Drilling Method: (Circle one) HSA <u>Continuous Core</u> /Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: <u>8/3/2010</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DP.</u>	Logged By: <u>CF.</u>
Inner Diameter of Well Casing:	Drilling Subcontractor: <u>RSE</u>
Depth to Water (feet bgs): <u>7ft. est.</u>	Driller: <u>Norman Dewberry.</u>
Location Sketch:	

Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches)/ V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
820	4		80%			compacted gravel - Description dark dk. brown 10 YR 2/2 ↓ grayish brown 10 YR 5/2 sandy silt, dry stiff.	ML		2.1
	8					brown 10 YR 4/3 sandy, silty clay, very stiff, moist.	ML/CL		1.8
	12		100%			dark yellowish brown 10 YR 4/4 clayey sandy, silty gravel well graded sand 30% sub-ang. gravel moist.	GC		1.9
	16		100%			dk. brown soft clay layer (1 inch) brown 10 YR 4/3 clay, moist, very stiff.	CL		2.1
	20					some dk. brown mottling + iron staining. < 5% fine sand.			2.3
	24					brown 10 YR 4/3 silty, clayey sand fine sand, moist.	SM/SC		2.0
	28		90%			olive brown 2.5 Y 4/3 clayey, sandy gravel sand - well graded 30% small sub-rounded gravel moist.	GC		1.9
945	32								2.3

- end of boring -



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name:

Boring Number: <u>RFS-6W-B175W</u>	Date Started: <u>8-3-10</u>
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/ <u>Direct Push</u> Hand Auger	Date Completed: <u>8-3-10</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>CF</u>
Outer Diameter of Boring: <u>8 1/4" HSA, 2" DIT</u>	Drilling Subcontractor: <u>RSE</u>
Inner Diameter of Well Casing:	Driller: <u>Norman DeLong</u>
Depth to Water (ft./bgs.) <u>7 ft. (est.)</u>	Location Sketch:

Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1000						<u>gms/dia</u> very dark grayish brown 10YR 3/2	ML		
	4		70%			fine silt, dry, stiff. - small gravel (backfill) at top.			
						dark grayish brown 2.5Y 4/2	CL		2.2
						light yellowish brown 2.5Y 6/4	GC		3.0
	8		100%			Brown 10YR 4/3 some dk brown / iron staining marbling.	CL		4.1
						Brown 7.5YR 4/4 moist, v. stiff.	GC		4.0
						dark yellowish brown 10YR 3/4 sandy gravel, v. moist - well graded sand, wet.	SC		3.9
	12								4.2
						yellowish brown 10YR 5/4 clay, v. moist soft / med. stiff.	CH		4.7
1120	16					dk. yellowish brown 10YR 4/4 (iron staining) fine clayey sand, moist.	SC		4.1
						- bottom of boring -			



TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site:
Project Name:

Boring Number: <u>RFS - GW - B121</u>	Date Started: <u>8/3/2010</u>
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/Direct Push/Hand Auger	Date Completed: <u>8/3/2010</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>CF</u>
Outer Diameter of Boring: <u>8 3/4" HSA, 2" DP</u>	Drilling Subcontractor: <u>R&I</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Deberry</u>
Depth to Water (ft./bgs.) <u>8.5 ft est.</u>	Location Sketch:

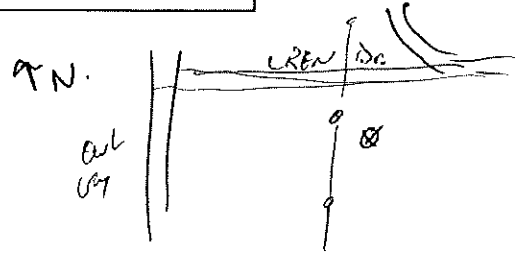
Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
12:00						- grass/dirt -			
	0		601.			dark grayish brown 10YR 3/2	ML		2.9
	4		1001.			brown 10YR 5/3 - some white/chalky markings - some brown/iron staining markings	ML/CL		3.8
	8		1001.			dark yellowish brown - dk brown & iron staining markings			5.0
	12		901.			dark brown 10YR 3/3 - 1 inch dark reddish brown (not pyrite)	GC		6.1
	16					brown 10YR 4/3 - and of boring -	CL		5.2



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: <i>SP-6W-TEST12</i>	Date Started: <i>8-4-10</i>
Drilling Method: (Circle one) HSA Continuous Core/ GeoProbe /Hand Auger	Date Completed: <i>8-4-10</i>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <i>NS & CF</i>
Outer Diameter of Boring: <i>8 1/4" HSA, 2" DMT</i>	Drilling Subcontractor: <i>RSE</i>
Inner Diameter of Well Casing:	Driller: <i>Norman Dubony</i>
Depth to Water (ft./bgs.) <i>9 est.</i>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
	0					Surface - <i>Grassy, Veg.</i>	ML		
	4		<i>10% HSA</i>			<i>Very dark brown (10YR 2/5), Sandy silt, Dry, stiff</i>	MA		
	8					<i>olive gray (5Y 4/6) silty clay, moist, stiff, hard plastic</i>	SC		<i>3.5</i>
	12					<i>olive brown (2.5Y 4/6) clayey sand, moist, medium stiff, low plasticity</i>	CL		<i>2.3</i>
	16					<i>brown 10YR 4/3</i> <i>studdy clay moist, hard</i> <i>25% fine sand</i>	GC		<i>2.9</i>
	20'					<i>dk. brown/iron string</i> <i>some green/gray muddling</i> <i>20% fine sand, moist, stiff</i>	GC		<i>3.0</i>
						<i>brown 10YR 4/3</i> <i>dk. brown 10YR 3/3</i> <i>studdy, clayey gravel, moist</i> <i>40% well-graded sand</i> <i>30% sub-ang. gravel</i> <i>wet</i> <i>moist</i>	GC		<i>1.3</i>
						<i>dk. yellowish brown 10YR 3/4</i> <i>clayey sand, wet</i> <i>poorly graded fine sand</i> <i>well graded sand, wet.</i>	SC		<i>1.4</i> <i>0.9</i> <i>0.7</i>

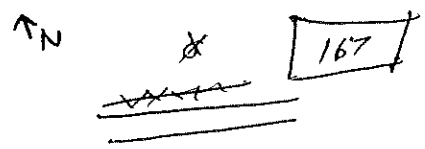
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SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: <i>RFS-6W-Resarch-Well-Field</i>	Date Started: <i>8-4-10</i>
Drilling Method: (Circle one) <i>HSA</i> Continuous Core <i>GeoProbe</i> /Hand Auger	Date Completed: <i>8-4-10</i>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <i>NS</i>
Outer Diameter of Boring: <i>9/4" HSA, 2" ODT</i>	Drilling Subcontractor: <i>RCT</i>
Inner Diameter of Well Casing:	Driller: <i>Simon Debnar</i>
Depth to Water (ft./bgs.) <i>10' est.</i>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
	4	X	10% (HA)			Surface - Grass/Veg. Area Very Dark Gray (2.5Y 3/1) Clayey Silt w/ Fine Sand, very stiff, low moisture, low plasticity	ML		0.6
	8	X	70%			Light Olive Brown (2.5Y 5/3) clayey silty silt, stiff	SC		0.9
	8	X	70%			Same as above, changes to Brown (10YR 4/3)			1.2
	10	X	60%			Dark Brown (7.5YR 3/3) (mixed with sand) w/ clay, very moist to wet.	GC		1.5
	12	X				Olive Brown (2.5Y 4/4) (clay, wet, medium stiff, moderate plasticity)	CL		1.4
	16	X	85%			Brown (10YR 4/3) clayey sand with weakly wet, medium to coarse grains	SW/SC		1.5
	20	X	70%			Dark Yellowish Brown (10YR 4/4) (clay, medium stiff, plastic, wet)	CH		1.3
	20	X							1.4
	20	X							1.1

-bottom of boring-



SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: <u>AFS-6W-B460</u>	Date Started: <u>8-5-10</u>
Drilling Method: (Circle one) <u>HSA</u> Continuous Core/GeoProbe/Hand Auger	Date Completed: <u>8-5-10</u>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <u>NS</u>
Outer Diameter of Boring: <u>8 1/4" ISA, 2" DPF</u>	Drilling Subcontractor: <u>RSE</u>
Inner Diameter of Well Casing:	Driller: <u>Norman Deberry</u>
Depth to Water (ft./bgs.) <u>≈ 10 1/2'</u>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1030	4	X	66%			Subsoil - Grey/Very w/ sand Bran (10 1/4" 5/8") ↓ SAA	ML CL		0.3
	8	X	100%			Yellowish Bran (10 1/4" 5/8") ↓ SAA, dark brown/ian staining	SC		0.3
	12	X	100%			Dark Yellowish Bran (10 1/4" 5/8") ↓ SAA, 15% angular sand	GC		0.4
	16	X	90%			Light Olive Bran (15 1/4" 5/8") ↓ Yellowish Bran (10 1/4" 5/8") ↓ SAA, 15% angular sand	CH		0.5
	20	X	100%			SAA, no gravel, medium stiff			0.5

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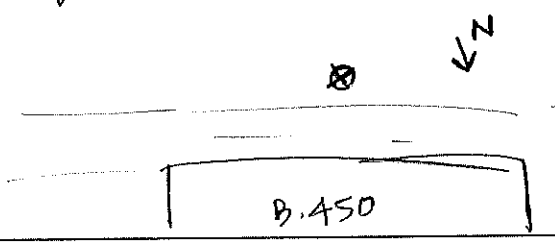


TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: RFS-GW-B450	Date Started: 8-5-10
Drilling Method: (Circle one) HSA Continuous Core <u>GeoProbe</u> Hand Auger	Date Completed: 8-5-10
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By:
Outer Diameter of Boring: 8 1/4" HSA, 2" DP	Drilling Subcontractor: BSI
Inner Diameter of Well Casing:	Driller: Norman Deberry
Depth to Water (ft./bgs.): 7.5 ft. (8ft)	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1245						Surface - Crack <u>Vegetation</u> <u>Asphalt</u>			
	4		100% Hand Auger			4. dark gray 10YR 3/1	ML		0.3
						v. dark gray 10YR 3/1	CL		0.3
						olive gray 2.5Y 4/3			
			DP 70%			light olive brown 2.5Y 5/3			0.5
	8					dk. brown - iron string mottling			0.4
						light olive brown 2.5Y 5/3			0.4
	12		100%			M orange (iron staining) + green/gray mottling.	GC		0.4
						very dark grayish brown 10YR 3/2			0.5
	16		70%			dark yellowish brown 10YR 4/4	CL		0.5
						clayey, sandy gravel - 50% angular gravel - well graded sand moist			0.4
						dark brown 7.5YR 3/3	SC		0.6
1320	20					clayey sand - well graded sand moist.			

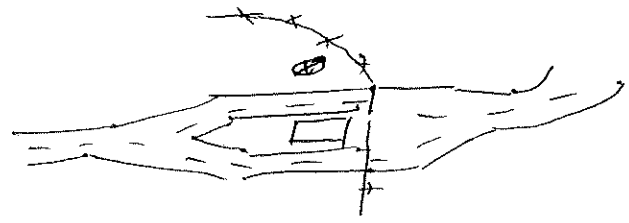
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SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

CTO:
Bldg./Site:
Project Name:

Boring Number: <i>RFS-66-First Gate</i>	Date Started: <i>8-6-10</i>
Drilling Method: (Circle one) HSA <u>Continuous Core</u> /GeoProbe/Hand Auger	Date Completed: <i>8-6-10</i>
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: <i>O. Ferric</i>
Outer Diameter of Boring: <i>8 1/4" HSA, 2" DP</i>	Drilling Subcontractor: <i>RSE</i>
Inner Diameter of Well Casing:	Driller: <i>Norman Deaking</i>
Depth to Water (ft./bgs.): <i>8 ft est.</i>	Location Sketch:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches)	V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
1000	4		100% hand auger				- gravel - v. dark brown 10YR 2.5/2	ML CL		0.03
	8		85% DP ↓				dark brown 2.5Y 4/4	CL		0.5
	8						dark yellowish brown 10YR 3/4	GC		0.4
	12		90%				olive brown 2.5Y iron staining 4/4	CL		0.7
	12						v. dark grayish brown 2.5Y 3/2	GC		0.5
	16		90%				light olive brown 2.5Y 5/4	CL		0.5
	16						dk. yellowish brown 10YR 3/4	GC		0.6
	20		90%				Brown 10YR 4/0	CL		0.5
1040	20							CL		0.4

- bottom of boring -

ATTACHMENT 3
WELL COMPLETION LOGS



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/5/2010 TIME 1400
 WELL INSTALLATION BEGAN:
 DATE 8/5/2010 TIME 1425
 WELL COMPLETION FINISHED:
 DATE 8/5/2010 TIME _____
 DRILLING CO. RSI
 DRILLER Norman Deuberry
 LICENSE _____
 DRILL RIG Geoprose H&A
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RF3-GW-B480
 PROJECT _____
 SITE RF3
 BOREHOLE NO. same.
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 bag (50 lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY catco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED _____

FILTER PACK

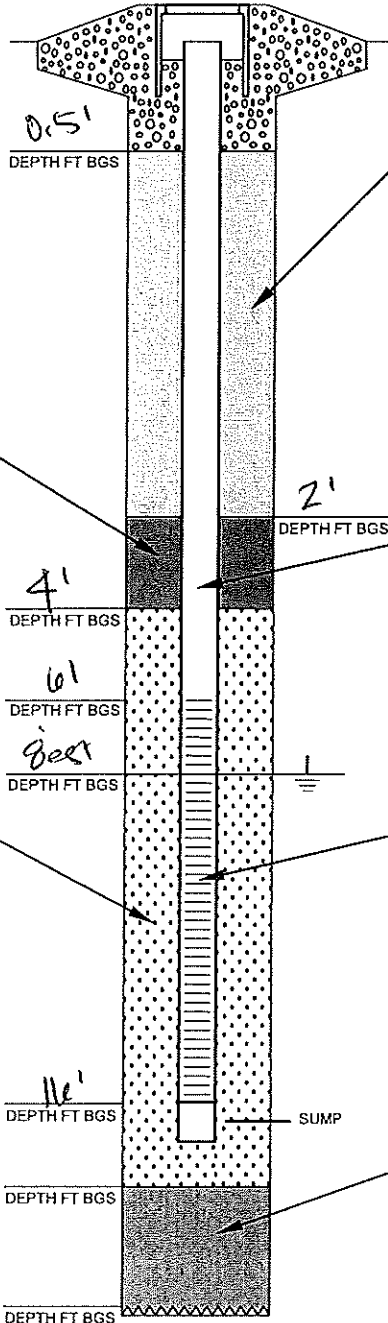
AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT cap's water
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 bag (47 lbs)
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT manitex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT manitex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/12/2010 TIME 13:15
 WELL INSTALLATION BEGAN:
 DATE 8/12/2010 TIME 15:10
 WELL COMPLETION FINISHED:
 DATE 8/12/2010 TIME 16:45
 DRILLING CO. RST
 DRILLER Norman Deubenny
 LICENSE _____
 DRILL RIG CME Rig
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B490
 PROJECT _____
 SITE RFS
 BOREHOLE NO. 4ame
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 35 gallon bucket
 PELLETS, SIZE _____
 CHIPS, SIZE _____

 PRODUCT _____
 MFG. BY cutco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 0

FILTER PACK

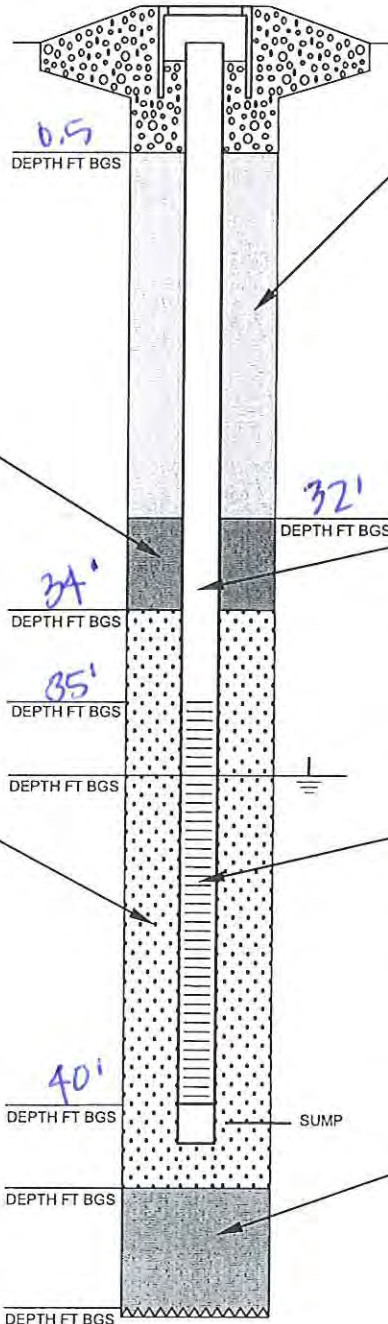
AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE #2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT ray's luster
 MFG. BY remox
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 10 bags
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 240 gallon
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 0.10"
 LENGTH OF SCREEN 5'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/9/2010 TIME 1340
 WELL INSTALLATION BEGAN:
 DATE 8/9/2010 TIME 1415
 WELL COMPLETION FINISHED:
 DATE 8/9/2010 TIME 1610
 DRILLING CO. RSS
 DRILLER _____
 LICENSE _____
 DRILL RIG Geopline USA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-EE2L
 PROJECT _____
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY celco
 METHOD INSTALLED
 POURED TREMIE (auger).
 AMOUNT OF WATER USED 5 gallons.

FILTER PACK

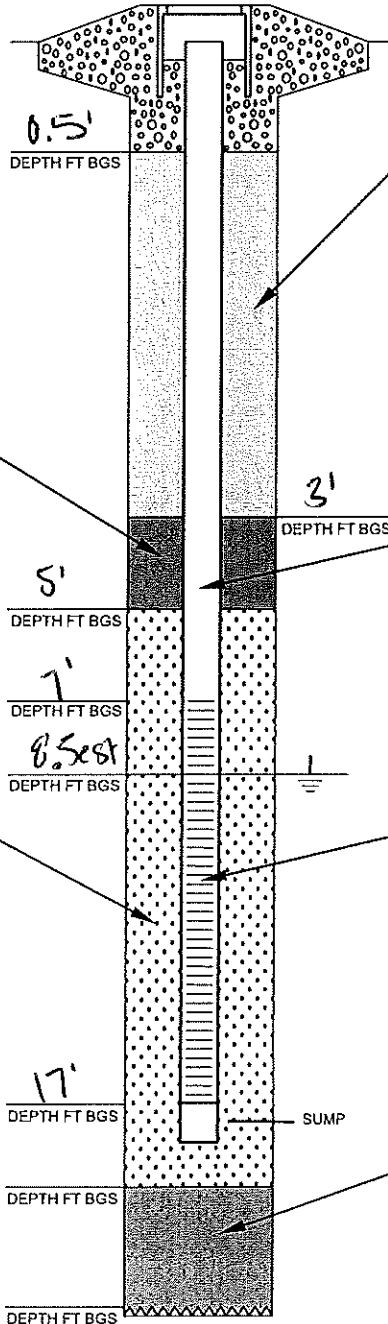
AMOUNT CALCULATED _____
 AMOUNT USED 0 bags 400 lbs.
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis luster
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 35 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 3 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 10/10"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/9/2010 TIME 1115
 WELL INSTALLATION BEGAN:
 DATE 8/9/2010 TIME 1135
 WELL COMPLETION FINISHED:
 DATE 8/9/2010 TIME 1615
 DRILLING CO. RES
 DRILLER _____
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. LFS-GW-B474
 PROJECT _____
 SITE LFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 35 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 3 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY _____
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 40 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium
 ~~other~~
 PRODUCT puregold
 MFG. BY setco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons.

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis luster
 MFG. BY cmex
 METHOD INSTALLED:
 POURED TREMIE (auger)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .070"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

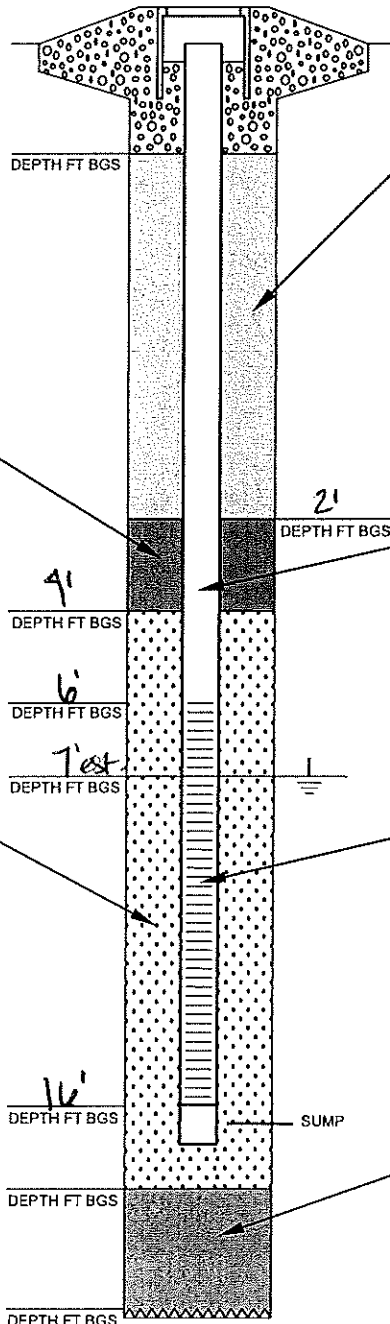
TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____





TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/19/2010 TIME 900
 WELL INSTALLATION BEGAN:
 DATE 8/19/2010 TIME 935
 WELL COMPLETION FINISHED:
 DATE 8/19/2010 TIME 1620
 DRILLING CO. KSI
 DRILLER _____
 LICENSE _____
 DRILL RIG Geopline HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 40 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY actco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons.

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis luster
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

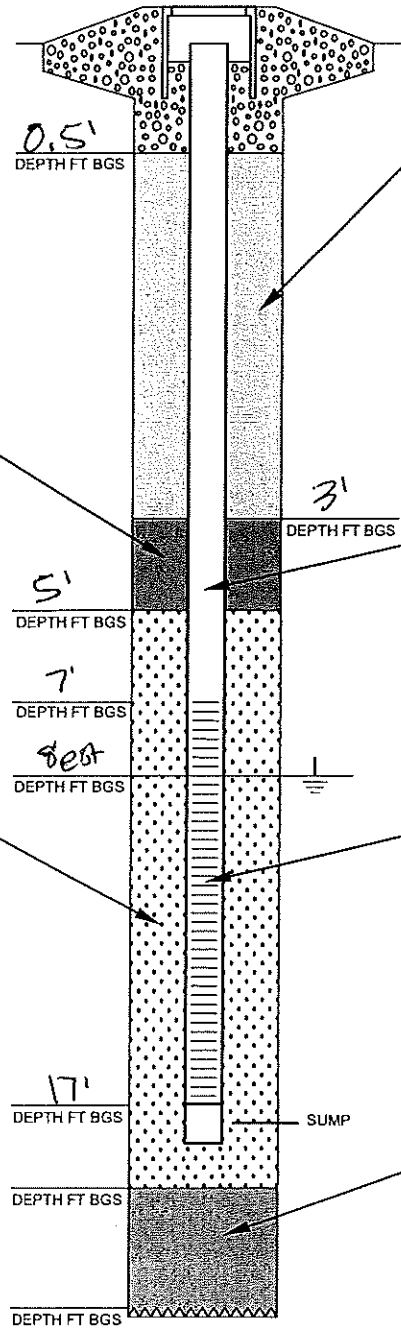
YES NO
 CENTRALIZER DEPTHS: _____

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B473
 PROJECT _____
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 70 lbs
 GROUT FORMULA
 PORTLAND CEMENT 70
 BENTONITE _____
 WATER 5 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY qui krete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT Monotex Sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Monotex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/6/2010 TIME 1135
 WELL INSTALLATION BEGAN:
 DATE 8/6/2010 TIME 1150
 WELL COMPLETION FINISHED:
 DATE 8/6/2010 TIME _____
 DRILLING CO. RSI
 DRILLER Norman Deuberry
 LICENSE _____
 DRILL RIG Gasprobe H8A
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RF5-GW-B280B
 PROJECT _____
 SITE RF5
 BOREHOLE NO. lane
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 30 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT quicksand
 MFG. BY setco
 METHOD INSTALLED
 POURED TREMIE (anger)
 AMOUNT OF WATER USED _____

FILTER PACK

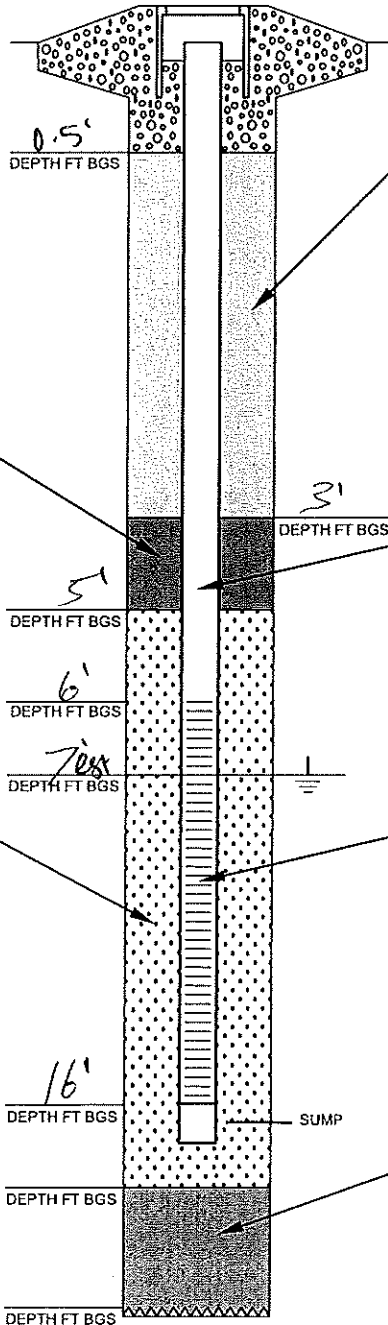
AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE 20/2
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis limestone
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (anger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 4 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch. 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8-6-10 TIME 0810
 WELL INSTALLATION BEGAN:
 DATE 8-6-10 TIME _____
 WELL COMPLETION FINISHED:
 DATE 8/16/2010 TIME _____
 DRILLING CO. RST
 DRILLER Norman Dekey
 LICENSE _____
 DRILL RIG Geopole 6620DT
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-6U-B990
 PROJECT _____
 SITE RFS
 BOREHOLE NO. Scavo
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 gal (50 lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE Medium

 PRODUCT Powrseal
 MFG. BY Ultimec
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gal

FILTER PACK

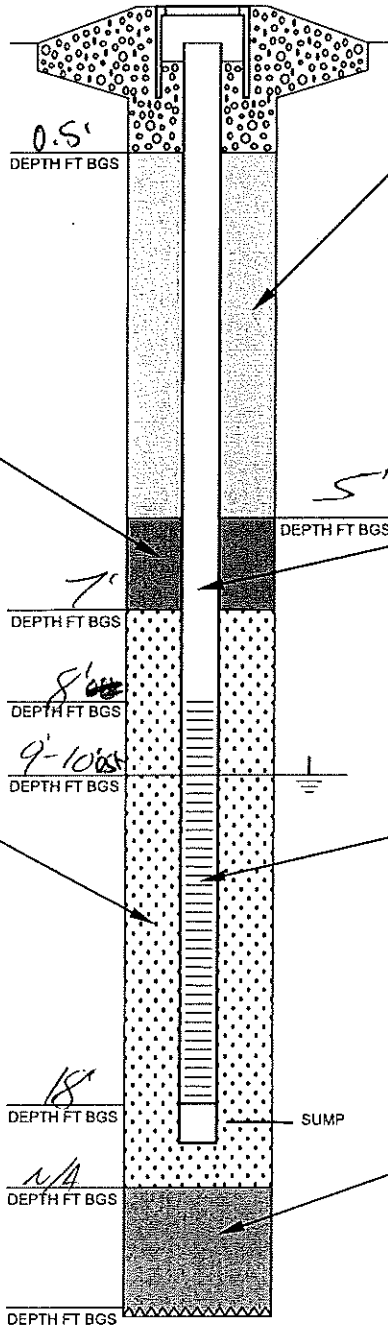
AMOUNT CALCULATED _____
 AMOUNT USED 350 lbs (7 bags)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Louis Laska Mortar
 MFG. BY Cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 70 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 5 gallons
 PREPARED MIX
 PRODUCT Quikrete
 MFG. BY portland cement
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT Navalux
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 8'

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Navalux
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 0.016"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/26/10 TIME 1107
 WELL INSTALLATION BEGAN:
 DATE 7/26/10 TIME 1107
 WELL COMPLETION FINISHED:
 DATE 7/26/10 TIME 1615
 DRILLING CO. RSE
 DRILLER _____
 LICENSE _____
 DRILL RIG Geoprobe/SA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

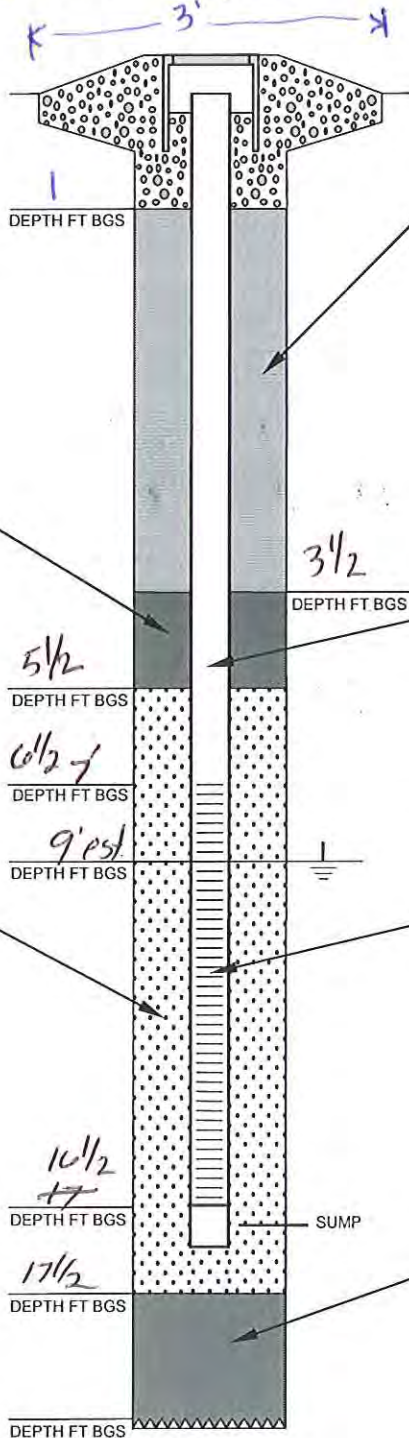
 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS GW Geosciences well field
 PROJECT RFS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 94 lbs
 GROUT FORMULA
 PORTLAND CEMENT 1111
 BENTONITE _____
 WATER 0 gal
 PREPARED MIX
 PRODUCT Portland cement
 MFG. BY Koncrete
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED n/a
 AMOUNT USED 40 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT Puregold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE (Auger)
 AMOUNT OF WATER USED 5 gallons

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 7'

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 430 lbs
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Lustré
 MFG. BY Cemex
 METHOD INSTALLED:
 POURED TREMIE (Auger)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED n/a
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/28/2010 TIME 13:30
 WELL INSTALLATION BEGAN:
 DATE 7/28/2010 TIME 13:50
 WELL COMPLETION FINISHED:
 DATE 7/28/2010 TIME 14:50
 DRILLING CO. PSI
 DRILLER Norman Newberry
 LICENSE _____
 DRILL RIG Geoproc USA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-EPA
 PROJECT RFS
 SITE _____
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 35 lbs.
 PELLETS, SIZE medium
 CHIPS, SIZE _____

 PRODUCT puregold
 MFG. BY letco
 METHOD INSTALLED
 POURED TREMIE auger
 AMOUNT OF WATER USED 2 gallons

FILTER PACK

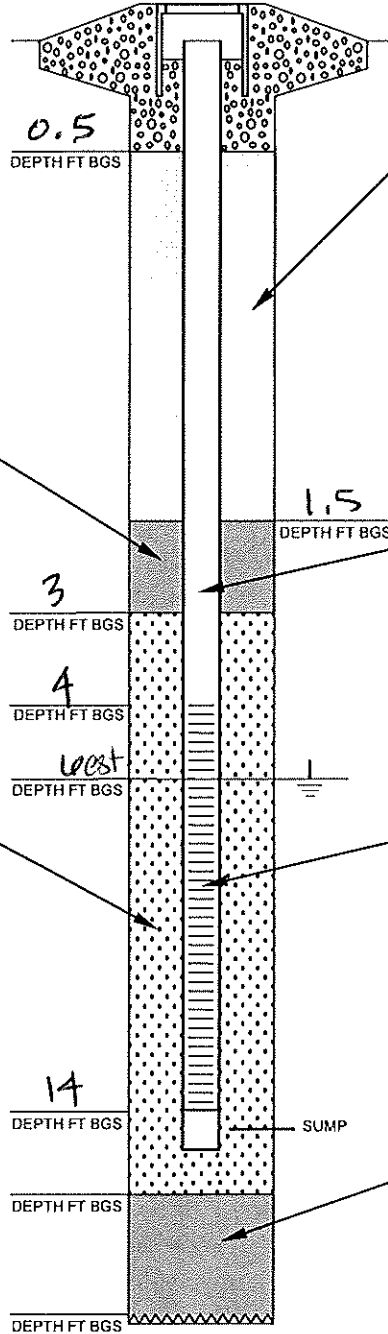
AMOUNT CALCULATED NA
 AMOUNT USED 7bags (350 lbs)
 SAND, SIZE 212
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Luster
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE auger

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25 lbs
 GROUT FORMULA
 PORTLAND CEMENT 1/11
 BENTONITE _____
 WATER 3 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quickrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY: Campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 07/30/2010 TIME 10:30
 WELL INSTALLATION BEGAN:
 DATE 07/30/2010 TIME 1405
 WELL COMPLETION FINISHED:
 DATE 07/30/2010 TIME 1530
 DRILLING CO. RSE
 DRILLER _____
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-6W-13197
 PROJECT RFS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 47 lbs / 2.5 gal H₂O
 GROUT FORMULA
 PORTLAND CEMENT 47#
 BENTONITE _____
 WATER _____
 PREPARED MIX
 PRODUCT Portland Cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT Puregold
 MFG. BY Petro
 METHOD INSTALLED
 POURED TREMIE
 AMOUNT OF WATER USED 5 gal

CASING

SCHEDULE 40 PVC

 PRODUCT Monoflex sch. 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 4'

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 350#
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Insure
 MFG. BY Pembix
 METHOD INSTALLED:
 POURED TREMIE (auger)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

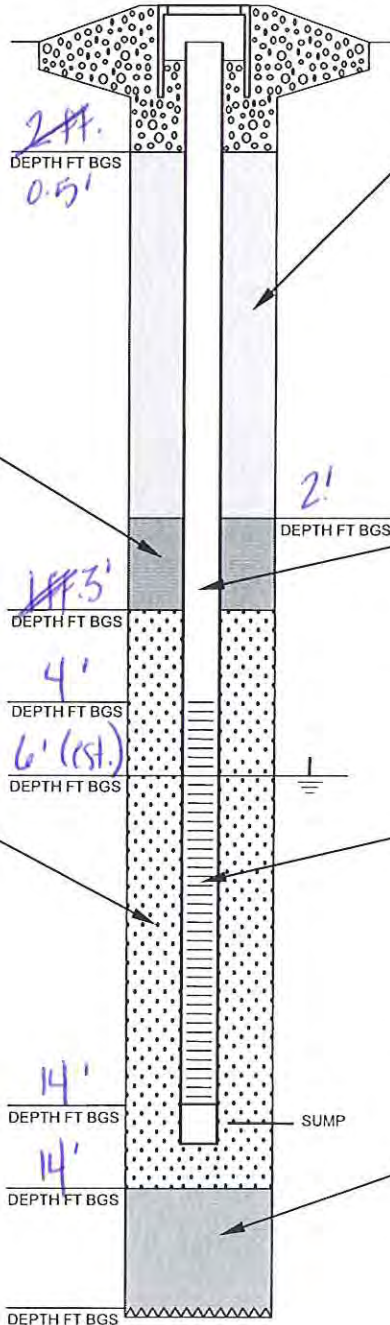
TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED NA
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____





TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/2/2010 TIME 9:55
 WELL INSTALLATION BEGAN:
 DATE 8/2/2010 TIME 10:20
 WELL COMPLETION FINISHED:
 DATE 8/2/2010 TIME 16:05
 DRILLING CO. Rsi
 DRILLER Norman Newberry
 LICENSE _____
 DRILL RIG Geovine HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-6W2478
 PROJECT _____
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 30 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puccob
 MFG. BY cetco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons.

FILTER PACK

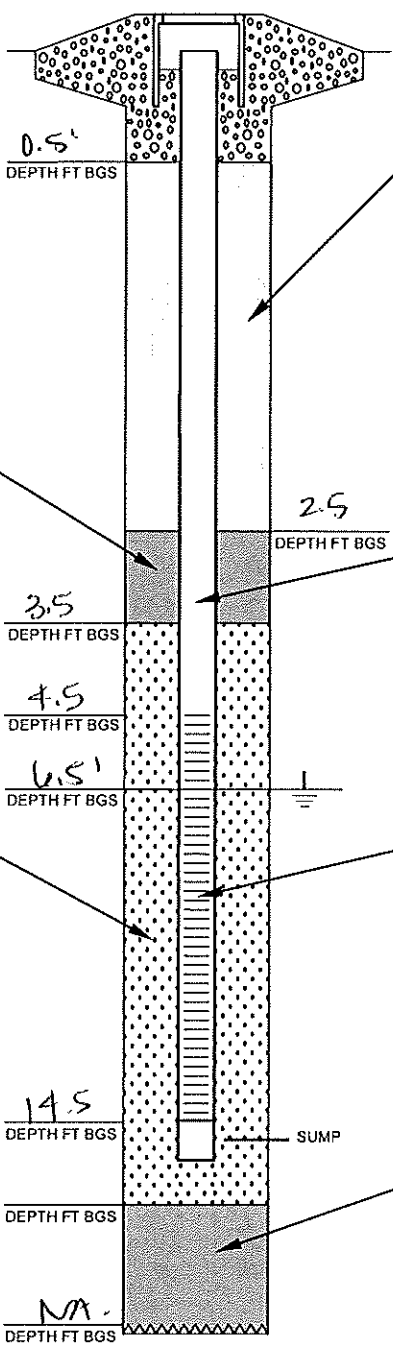
AMOUNT CALCULATED _____
 AMOUNT USED 350 lbs.
 SAND, SIZE 20/40
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lepis lusten
 MFG. BY elmex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 GROUT FORMULA
 PORTLAND CEMENT 30 lbs.
 BENTONITE _____
 WATER 2 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monotex sch. 40
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monotex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE .070"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED NA.
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/5/2010 TIME 8:40
 WELL INSTALLATION BEGAN:
 DATE 8/5/2010 TIME 9:10
 WELL COMPLETION FINISHED:
 DATE 8-5-10 TIME _____
 DRILLING CO. RSJ
 DRILLER Norman Denberry
 LICENSE _____
 DRILL RIG Geopone H&A
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 3 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RS-CW-15421
 PROJECT _____
 SITE RS
 BOREHOLE NO. See
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 2 lbs (50 lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT Unigard
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE auger
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

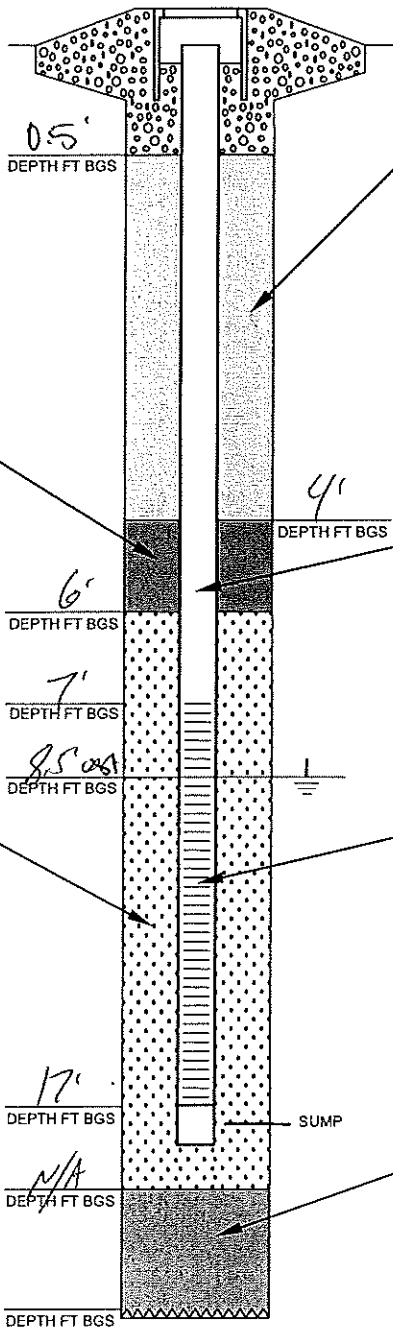
AMOUNT CALCULATED _____
 AMOUNT USED 300 lbs (6 bags)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis luster
 MFG. BY Camp
 METHOD INSTALLED:
 POURED TREMIE auger

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 60 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 4 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 7'

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 0.10"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/26/10 TIME 1250
 WELL INSTALLATION BEGAN:
 DATE 7/26/10 TIME 1250
 WELL COMPLETION FINISHED:
 DATE 7/26/10 TIME 1550
 DRILLING CO. RSE
 DRILLER _____
 LICENSE _____
 DRILL RIG Geoprobe H5A
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS GW B163
 PROJECT RFS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 180 lbs / 190 used
 GROUT FORMULA
 PORTLAND CEMENT 1/11
 BENTONITE _____
 WATER 15 GAL / 7 used
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY QUIKRETE
 METHOD INSTALLED
 POURED TREMIE (AUGER)

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT Puregold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE (AUGER)
 AMOUNT OF WATER USED 5 gallons

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

FILTER PACK

AMOUNT CALCULATED n/a
 AMOUNT USED 400 lbs
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Wire
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (AUGER)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY: Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

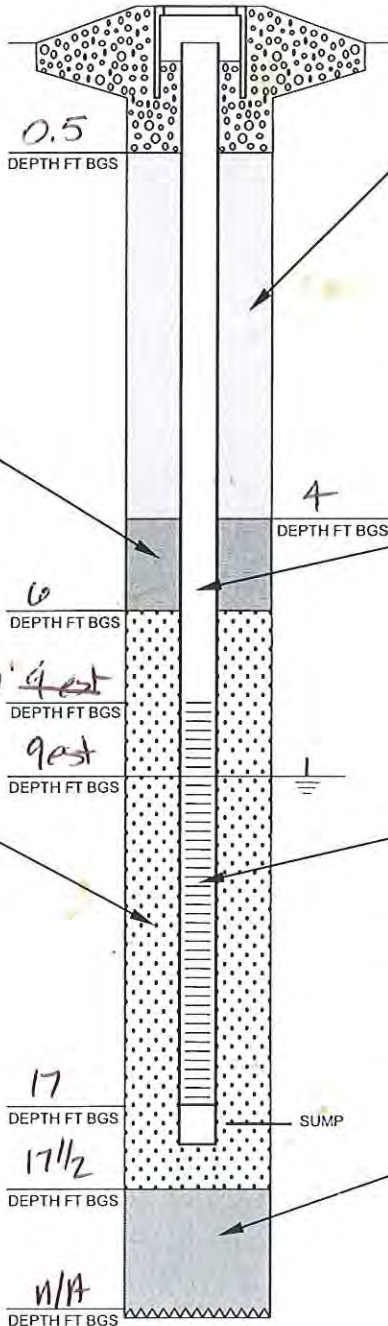
TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED n/a
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____





TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
DATE 7/26/10 TIME 0850

WELL INSTALLATION BEGAN:
DATE 7/26/10 TIME 0850

WELL COMPLETION FINISHED:
DATE 7/26/10 TIME 01520

DRILLING CO. RSI

DRILLER _____

LICENSE _____

DRILL RIG GeoProbe HSA

DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

DIAMETER OF AUGERS:
ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST

CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-MPLA

PROJECT RFS

SITE _____

BOREHOLE NO. SAME

WELL PERMIT NO. _____

TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED n/a

AMOUNT USED 40 lbs

PELLETS, SIZE _____

CHIPS, SIZE medium

PRODUCT Puregold

MFG. BY Cetco

METHOD INSTALLED
 POURED TREMIE (Auger)

AMOUNT OF WATER USED 5 gallons

FILTER PACK

AMOUNT CALCULATED n/a

AMOUNT USED 450 lbs

SAND, SIZE 2/12

FORMATION COLLAPSE:
FROM _____ TO _____

PRODUCT Lapis Lustré

MFG. BY Cemex

METHOD INSTALLED:
 POURED TREMIE (Auger)

SURVEY INFORMATION

TOC ELEVATION _____

GROUND ELEVATION _____

NORTHING COORD. _____

EASTING COORD. _____

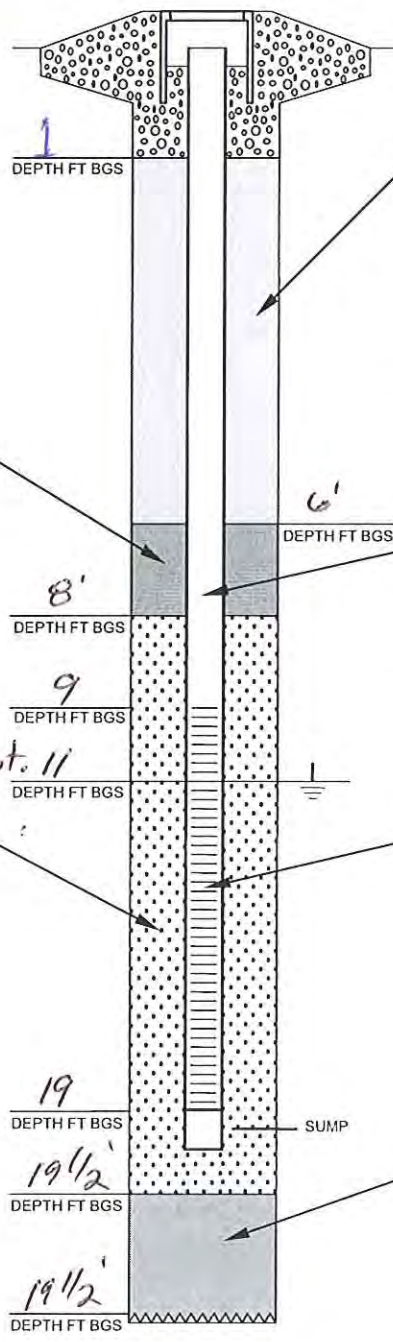
DATE SURVEYED _____

SURVEY CO. _____

CENTRALIZERS USED?

YES NO

CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____

AMOUNT USED 150 lbs

GROUT FORMULA
PORTLAND CEMENT 1/11

BENTONITE _____

WATER 12 gal

PREPARED MIX
PRODUCT Portland cement

MFG. BY Quikrete

METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

PRODUCT MONOFLEX sch 40

MFG. BY Campbell

CASING DIAMETER (in):
ID _____ OD 2"

LENGTH OF CASING 9'

WELL SCREEN

SCHEDULE 40 PVC

PRODUCT MONOFLEX sch 40

MFG. BY Campbell

CASING DIAMETER (in):
ID _____ OD 2"

SLOT SIZE .010"

LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED n/a

AMOUNT USED _____

BENTONITE CHIPS, SIZE _____

BENTONITE PELLETS, SIZE _____

SLURRY _____

FORMATION COLLAPSE
FROM _____ TO _____

PRODUCT _____

MFG. BY _____

METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/27/2010 TIME 8:00
 WELL INSTALLATION BEGAN:
 DATE 7/27/2010 TIME 8:40
 WELL COMPLETION FINISHED:
 DATE 7/27/2010 TIME 9:50
 DRILLING CO. RST
 DRILLER Norman Dewberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-CCC0023
 PROJECT RFS
 SITE _____
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 47 lbs.
 GROUT FORMULA
 PORTLAND CEMENT 1/11
 BENTONITE _____
 WATER 5 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quickcrete
 METHOD INSTALLED
 POURED TREMIE (auger).

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT Puregold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

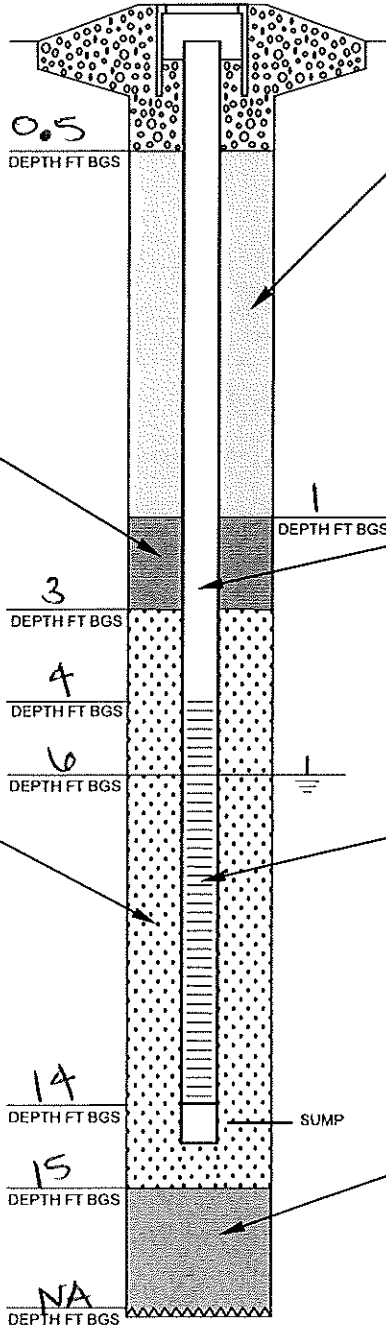
AMOUNT CALCULATED N/A
 AMOUNT USED 400 lbs
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Luster
 MFG. BY Cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED NA.
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/27/2010 TIME 9:20
 WELL INSTALLATION BEGAN:
 DATE 7/27/2010 TIME 9:40
 WELL COMPLETION FINISHED:
 DATE 7/27/2010 TIME 11:10
 DRILLING CO. NSI
 DRILLER Norman Newberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-
 PROJECT CCCLORZ 2
 SITE _____
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE Medium

 PRODUCT pure gold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE (Anger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

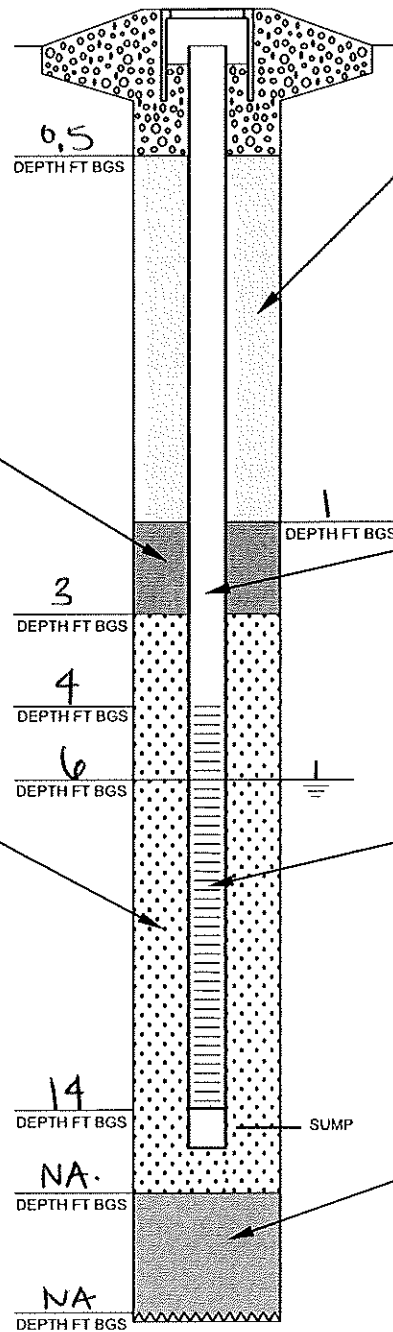
AMOUNT CALCULATED N/A
 AMOUNT USED 400 lbs
 SAND, SIZE 212
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Luster
 MFG. BY Cetco
 METHOD INSTALLED:
 POURED TREMIE auger

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 47 lbs
 GROUT FORMULA
 PORTLAND CEMENT 1/11
 BENTONITE _____
 WATER 9 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quickcrete
 METHOD INSTALLED
 POURED TREMIE auger

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED NA
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/27/2010 TIME 11:00
 WELL INSTALLATION BEGAN:
 DATE 7/27/2010 TIME 11:25
 WELL COMPLETION FINISHED:
 DATE 7/27/2010 TIME 12:15
 DRILLING CO. PSI
 DRILLER Norman Newberry
 LICENSE _____
 DRILL RIG HSA geoprize
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

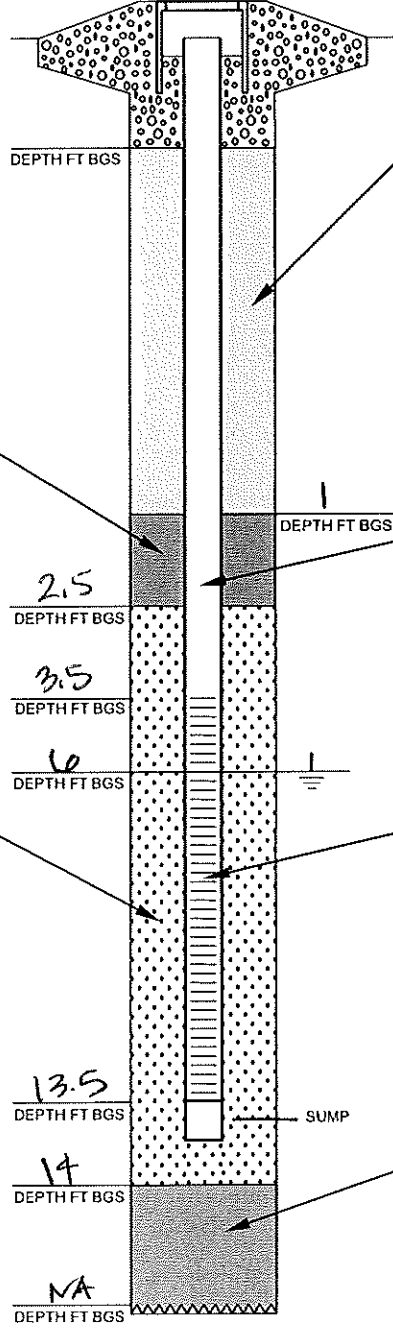
 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-
 PROJECT CCCore1
 SITE _____
 BOREHOLE NO. Same.
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 35 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 3 1/2 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quickcrete
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY letco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons.

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

FILTER PACK

AMOUNT CALCULATED NA
 AMOUNT USED 400 lbs.
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis tuster
 MFG. BY climax
 METHOD INSTALLED:
 POURED TREMIE (auger)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY: _____
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED NA
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/27/2010 TIME 1245
 WELL INSTALLATION BEGAN:
 DATE 7/27/2010 TIME 1320
 WELL COMPLETION FINISHED:
 DATE 7/27/2010 TIME 1415
 DRILLING CO. RSI
 DRILLER Norman Newberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

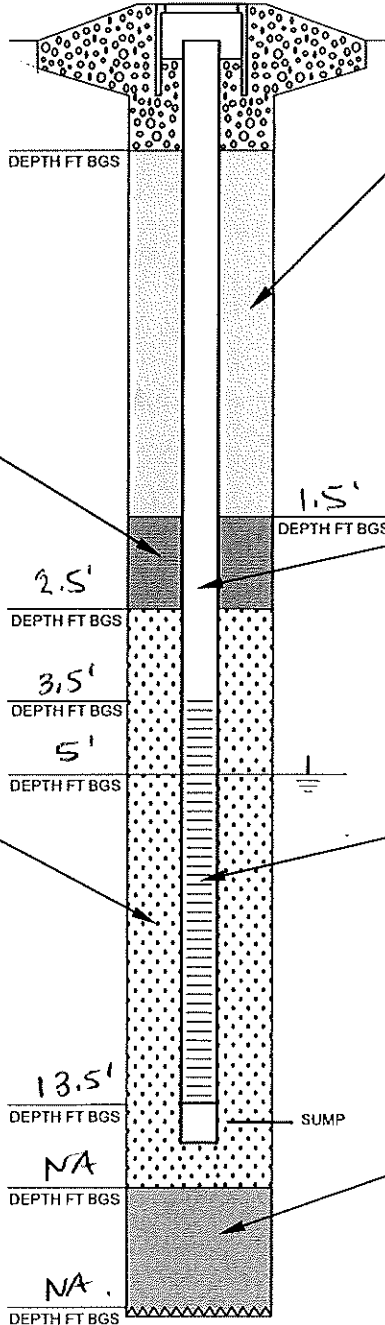
 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-
 PROJECT dry house
 SITE RFS.
 BOREHOLE NO. Same.
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 30 lbs
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 3 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quickrete.
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 30 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT pure gold
 MFG. BY actlo
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED _____

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

FILTER PACK

AMOUNT CALCULATED NA.
 AMOUNT USED 400 lbs.
 SAND, SIZE 212
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis luster
 MFG. BY celmex
 METHOD INSTALLED:
 POURED TREMIE (auger)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED NA.
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/27/2010 TIME 1440
 WELL INSTALLATION BEGAN:
 DATE 7/27/2010 TIME 1500
 WELL COMPLETION FINISHED:
 DATE 7/27/2010 TIME 1610
 DRILLING CO. RSJ
 DRILLER Norman Newberry
 LICENSE _____
 DRILL RIG Geoprobe H3A
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-WTA
 PROJECT _____
 SITE _____
 BOREHOLE NO. Same.
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 35 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium.

 PRODUCT puregold
 MFG. BY celco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED _____

FILTER PACK

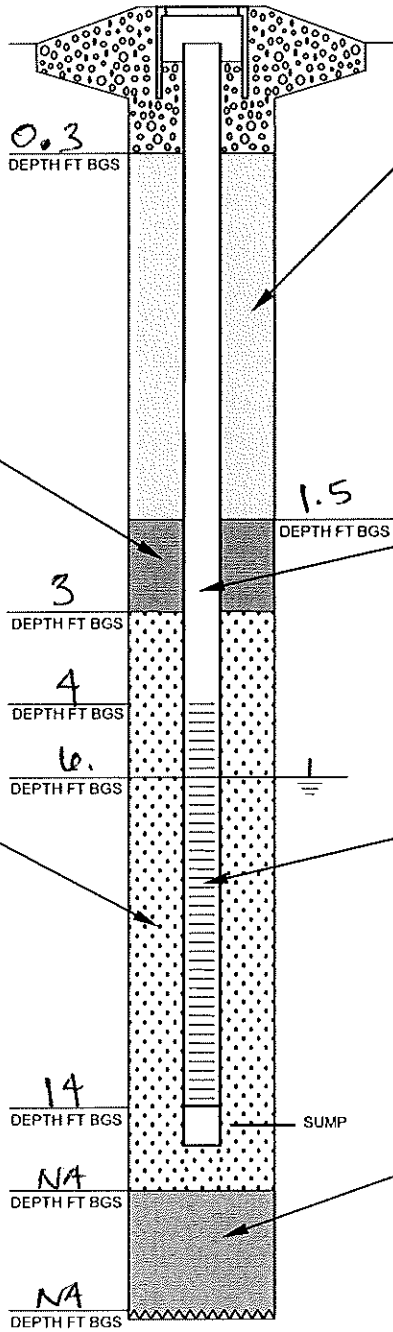
AMOUNT CALCULATED NA
 AMOUNT USED 400 lbs.
 SAND, SIZE 212.
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT laps luster
 MFG. BY celnex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 20 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY: Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED NA
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/28/2020 TIME 1520
 WELL INSTALLATION BEGAN:
 DATE 7/28/2020 TIME 1540
 WELL COMPLETION FINISHED:
 DATE 7/28/2020 TIME 1625
 DRILLING CO. RSI
 DRILLER Norman Newberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-CPT
 PROJECT South
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

ANNULAR SEAL

AMOUNT CALCULATED NA
 AMOUNT USED 25 lbs.
 GROUT FORMULA
 PORTLAND CEMENT 1/11
 BENTONITE _____
 WATER 2 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25 lbs.
 PELLETS, SIZE medium
 CHIPS, SIZE _____

 PRODUCT puregold
 MFG. BY catco
 METHOD INSTALLED
 POURED TREMIE
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

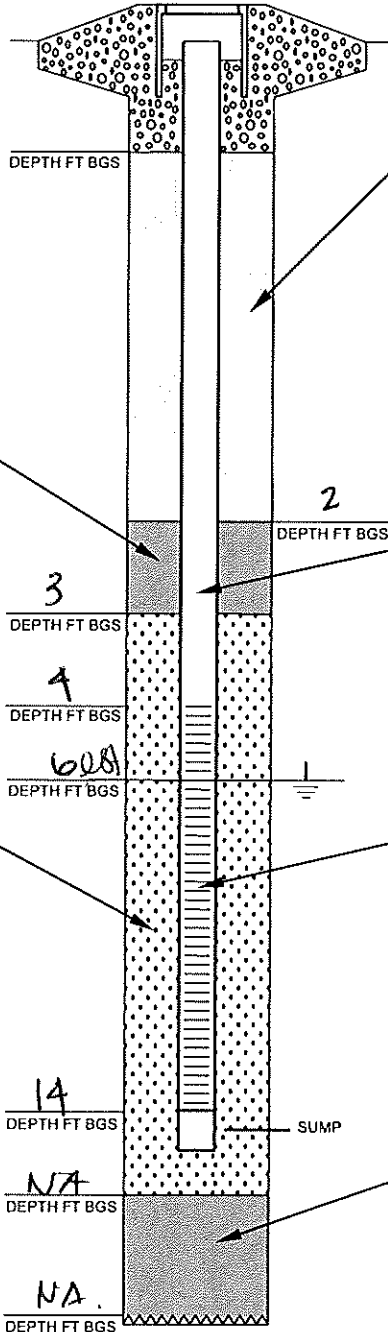
AMOUNT CALCULATED _____
 AMOUNT USED 400 lbs.
 SAND, SIZE 212
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis limestone
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (larger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



CASING

SCHEDULE 40 PVC

 PRODUCT monotex sch 40
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monotex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/28/2010 TIME 11:00
 WELL INSTALLATION BEGAN:
 DATE 7/28/2010 TIME 11:25
 WELL COMPLETION FINISHED:
 DATE 7/28/2010 TIME 12:35
 DRILLING CO. RSI
 DRILLER Norman Newberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-MFA
 PROJECT FSW GW
 SITE RES
 BOREHOLE NO. same.
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED NA
 AMOUNT USED 25 lbs.
 PELLETS, SIZE medium
 CHIPS, SIZE _____

 PRODUCT puregold
 MFG. BY celco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED _____

FILTER PACK

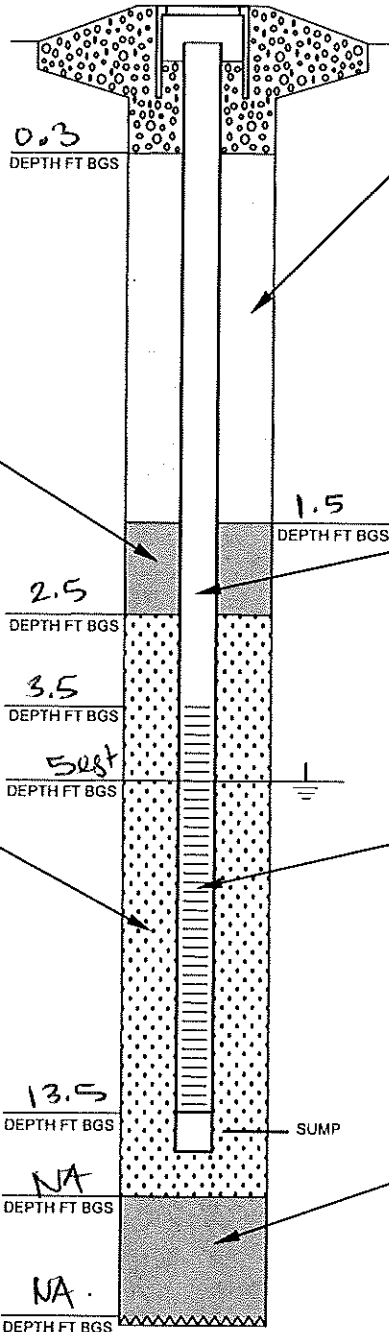
AMOUNT CALCULATED NA
 AMOUNT USED 400 lbs.
 SAND, SIZE 212
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis miter
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED NA
 AMOUNT USED 25 lbs.
 GROUT FORMULA
 PORTLAND CEMENT 1/11
 BENTONITE _____
 WATER 2 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED NA
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/28/2010 TIME 9:00
 WELL INSTALLATION BEGAN:
 DATE 7/28/2010 TIME 9:20
 WELL COMPLETION FINISHED:
 DATE 7/28/2010 TIME 10:30
 DRILLING CO. RSI
 DRILLER Norman Newberry
 LICENSE _____
 DRILL RIG Geoprise HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-ETA
 PROJECT RFS FFW GW
 SITE RFS
 BOREHOLE NO. same.
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY retco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED _____

FILTER PACK

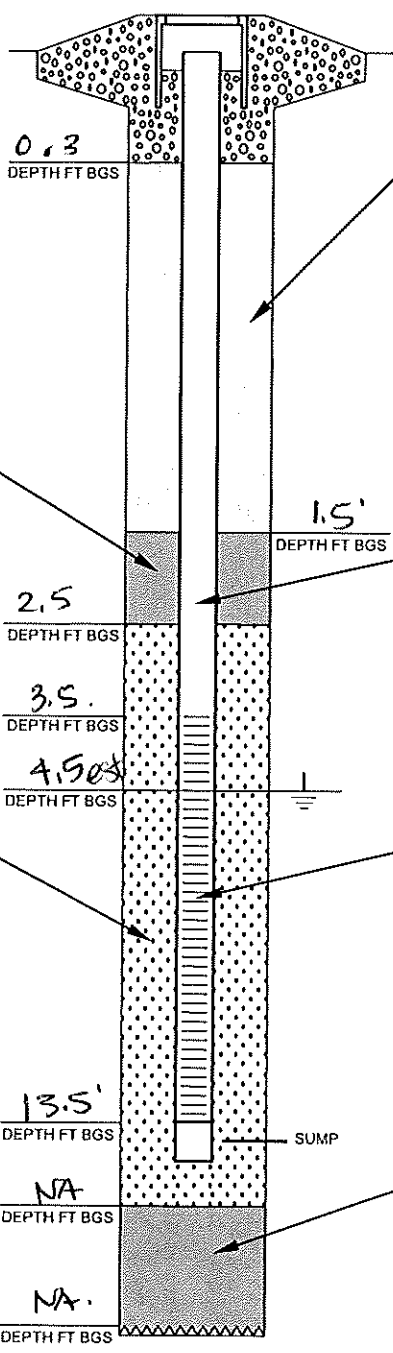
AMOUNT CALCULATED N/A
 AMOUNT USED 400 lbs.
 SAND, SIZE 212
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis luster
 MFG. BY elmex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25 lbs.
 GROUT FORMULA
 PORTLAND CEMENT 111
 BENTONITE _____
 WATER 2 gallons.
 PREPARED MIX
 PRODUCT Portland Cement
 MFG. BY quikrete.
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY monoflex-campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE 0.10"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/29/10 TIME 0847
 WELL INSTALLATION BEGAN:
 DATE 7/29/10 TIME 0847
 WELL COMPLETION FINISHED:
 DATE 7/29/10 TIME 1415
 DRILLING CO. PSI
 DRILLER _____
 LICENSE _____
 DRILL RIG HSA 66qrdbe
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS LW 13278
 PROJECT RFS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE Medium

 PRODUCT Pure Bold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE (Auger)
 AMOUNT OF WATER USED 5 gal

FILTER PACK

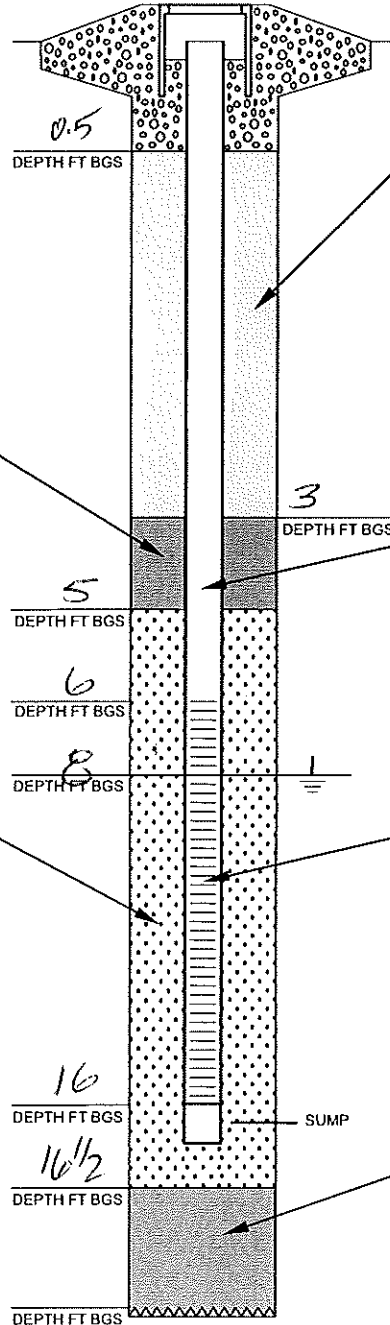
AMOUNT CALCULATED _____
 AMOUNT USED 140 lbs 200 lbs
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Laps Lustre
 MFG. BY CEMEX
 METHOD INSTALLED:
 POURED TREMIE (Auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 150 lbs 75 #
 GROUT FORMULA
 PORTLAND CEMENT 1/11
 BENTONITE _____
 WATER 4 gal
 PREPARED MIX
 PRODUCT Portland Cement
 MFG. BY Oncrete
 METHOD INSTALLED
 POURED TREMIE (Auger)

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 6

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED N/A
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/29/10 TIME 0835
 WELL INSTALLATION BEGAN:
 DATE 7/29/10 TIME 0835
 WELL COMPLETION FINISHED:
 DATE 7/29/10 TIME 1430
 DRILLING CO. RSE
 DRILLER _____
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

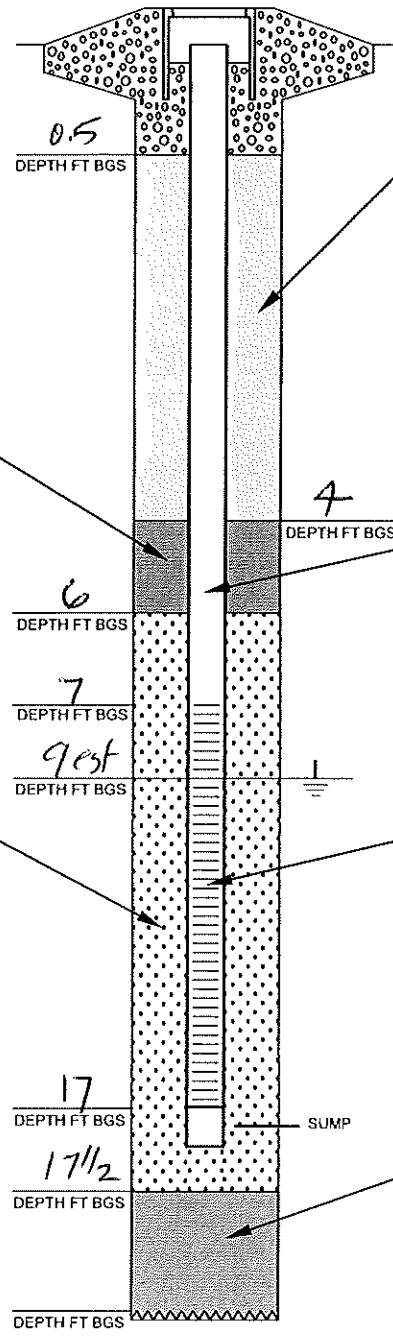
 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS 6W B277
 PROJECT RFS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 75 #
 GROUT FORMULA
 PORTLAND CEMENT 1/11
 BENTONITE _____
 WATER 4 gal
 PREPARED MIX
 PRODUCT Portland Cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE
Auger

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE 4
 CHIPS, SIZE medium

 PRODUCT Puregard
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE (Auger)
 AMOUNT OF WATER USED 5 gallons

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 7

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 400 lbs
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis lustre
 MFG. BY Cemex
 METHOD INSTALLED:
 POURED TREMIE (Auger)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED n/a
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/29/10 TIME 0815
 WELL INSTALLATION BEGAN:
 DATE 7/29/10 TIME 0815
 WELL COMPLETION FINISHED:
 DATE 7/29/10 TIME 1445
 DRILLING CO. 125E
 DRILLER _____
 LICENSE _____
 DRILL RIG Cecropia H5A
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

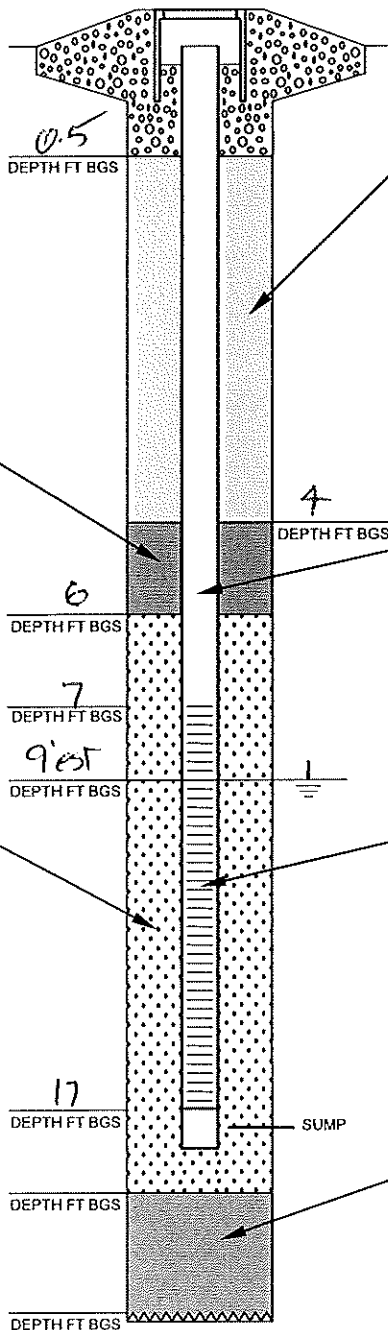
 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS GW B300
 PROJECT RFS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 75#
 GROUT FORMULA
 PORTLAND CEMENT 1/11
 BENTONITE _____
 WATER 4gal
 PREPARED MIX
 PRODUCT Portland cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE (Auger)

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT Puregold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE (Auger)
 AMOUNT OF WATER USED 5gal

CASING

SCHEDULE 40 PVC

 PRODUCT Monoflex Sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 3"
 LENGTH OF CASING 7'

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 350#
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Lustris
 MFG. BY CEMEX
 METHOD INSTALLED:
 POURED TREMIE (Auger)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY: Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED N/A
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/29/10 TIME 0915
 WELL INSTALLATION BEGAN:
 DATE 7/29/10 TIME 0915
 WELL COMPLETION FINISHED:
 DATE 7/29/10 TIME 0415 1515
 DRILLING CO. RSE
 DRILLER _____
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS6WB280A
 PROJECT RFS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25#
 PELLETS, SIZE _____
 CHIPS, SIZE MEDIUM

 PRODUCT Puregold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE (Auger)
 AMOUNT OF WATER USED 3 gallons.

FILTER PACK

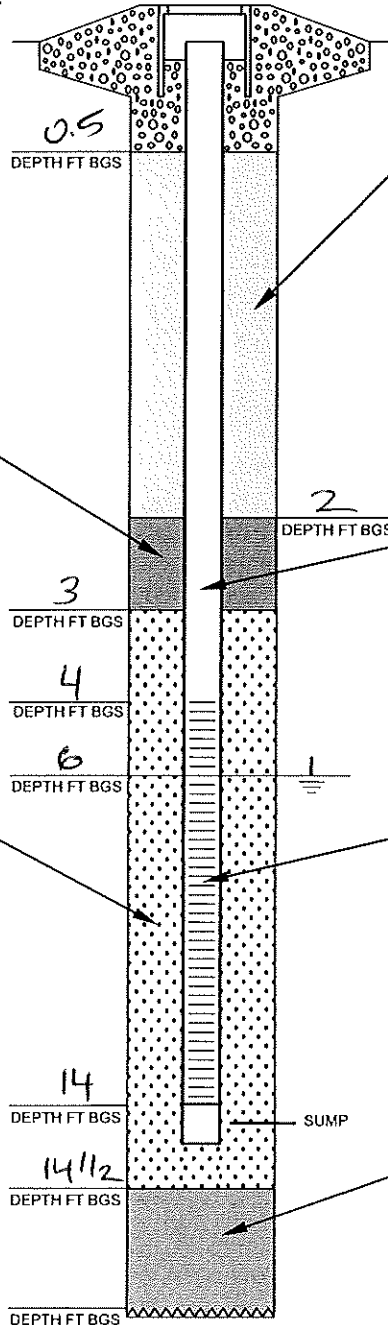
AMOUNT CALCULATED _____
 AMOUNT USED 400#
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Lustre
 MFG. BY Cemex
 METHOD INSTALLED:
 POURED TREMIE (Auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons.
 PREPARED MIX
 PRODUCT Portland Cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE (M)

CASING

SCHEDULE 40 PVC

 PRODUCT MONOFLEX
 MFG. BY Cam
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 4

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED N/A
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/12/2010 TIME 9:30
 WELL INSTALLATION BEGAN:
 DATE 8/12/2010 TIME 10:30
 WELL COMPLETION FINISHED:
 DATE 8/12/2010 TIME 1300
 DRILLING CO. ESI
 DRILLER Norman Dewberry
 LICENSE _____
 DRILL RIG CMR rig
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

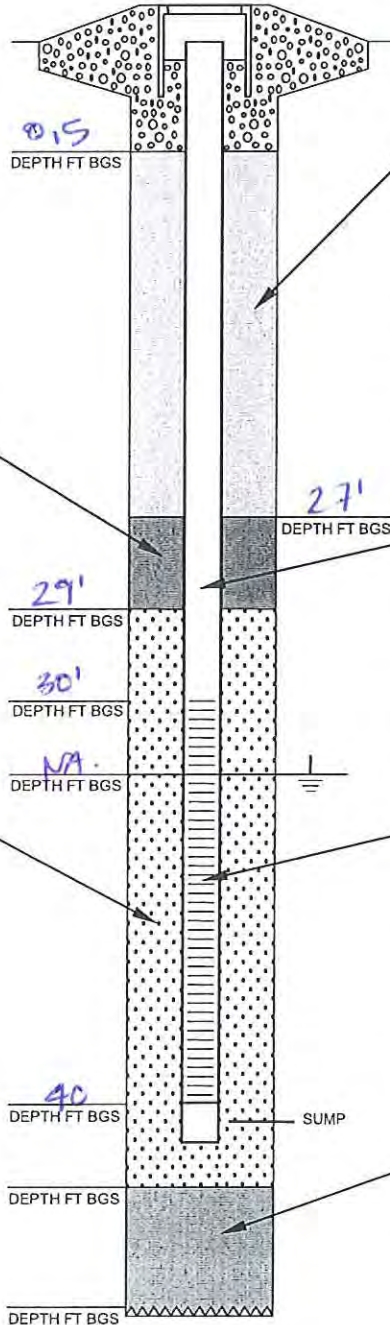
 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-CTP deep
 PROJECT _____
 SITE _____
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 11 bags (47 lbs each)
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 45 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 5 gallon bucket
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT pure gold
 MFG. BY actco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 0

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch
 MFG. BY Campbell
 CASING DIAMETER (In):
 ID _____ OD 2"
 LENGTH OF CASING _____

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 8 bags (400 lbs)
 SAND, SIZE #2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis water
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (In):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/30/2010 TIME _____
 WELL INSTALLATION BEGAN:
 DATE 7/30/2010 TIME 0900
 WELL COMPLETION FINISHED:
 DATE 7/30/2010 TIME 0940
 DRILLING CO. RST
 DRILLER _____
 LICENSE _____
 DRILL RIG Geoprobe
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-BW-CIP
 PROJECT RFS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT Puregold
 MFG. BY Petco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED _____

ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 47 lbs / 2.5 gal H₂O
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER _____
 PREPARED MIX
 PRODUCT Portland Cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 350#
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Instra
 MFG. BY Chemix
 METHOD INSTALLED:
 POURED TREMIE (auger)

CASING

SCHEDULE 40 PVC

 PRODUCT Monoflex Sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 7'

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

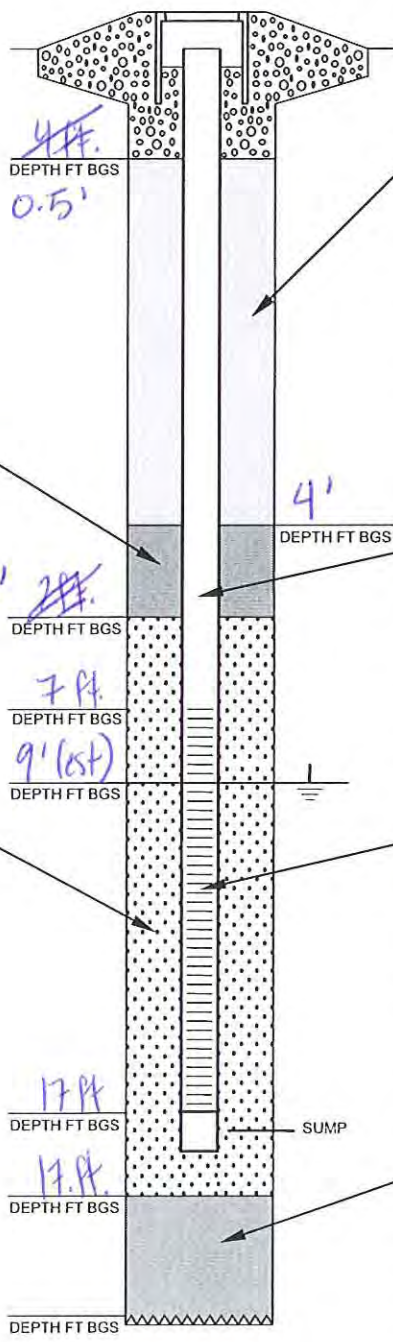
TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED NA
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____





MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 7/30/2010 TIME 1000
 WELL INSTALLATION BEGAN:
 DATE 7/30/2010 TIME 1100
 WELL COMPLETION FINISHED:
 DATE 7/30/2010 TIME 1215
 DRILLING CO. RSI
 DRILLER _____
 LICENSE _____
 DRILL RIG Geoprobe
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RPS-6W-B194
 PROJECT RPS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT Puregold
 MFG. BY Petco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gal

FILTER PACK

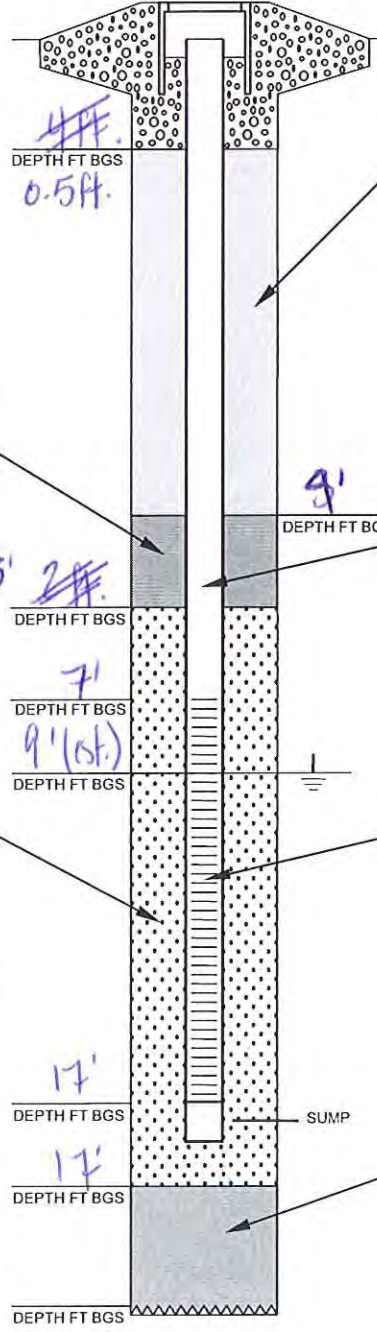
AMOUNT CALCULATED _____
 AMOUNT USED 3500#
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Limestone
 MFG. BY Cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 47 lbs / 2.5 gal H₂O
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER _____
 PREPARED MIX
 PRODUCT Portland Cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT Monoflex Sch. 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 7'

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED NA
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 07/30/2010 TIME 12:00
 WELL INSTALLATION BEGAN:
 DATE 7/30/2010 TIME 12:20
 WELL COMPLETION FINISHED:
 DATE 7/30/2010 TIME 13:15
 DRILLING CO. RSE
 DRILLER _____
 LICENSE _____
 DRILL RIG Geoprobe
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8.4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B195
 PROJECT RFS
 SITE _____
 BOREHOLE NO. SAME
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT Purgold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE
 AMOUNT OF WATER USED 5 gal

FILTER PACK

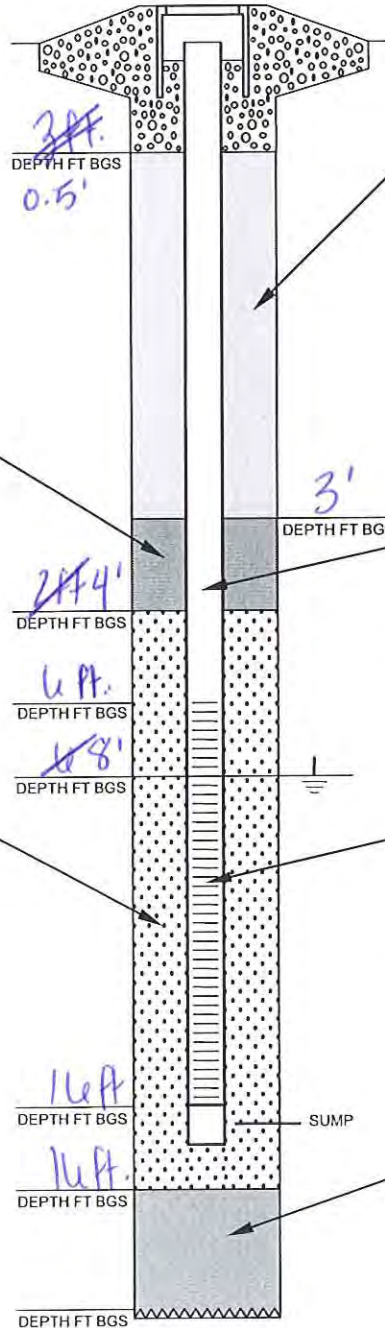
AMOUNT CALCULATED _____
 AMOUNT USED 350#
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Instre
 MFG. BY Elmex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 47 lbs / 1.5 gal H₂O
 GROUT FORMULA
 PORTLAND CEMENT
 BENTONITE
 WATER
 PREPARED MIX
 PRODUCT Portland Cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT MonoFlex Sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 16'

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT MonoFlex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED NA
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/13/2010 TIME 8:00
 WELL INSTALLATION BEGAN:
 DATE 8/13/2010 TIME _____
 WELL COMPLETION FINISHED:
 DATE 8/13/2010 TIME 9:40
 DRILLING CO. RSJ
 DRILLER Norman Deuberry
 LICENSE _____
 DRILL RIG CME
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B128
 PROJECT _____
 SITE RFS
 BOREHOLE NO. None
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 bag (50 lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY petco
 METHOD INSTALLED
 POURED TREMIE
 AMOUNT OF WATER USED 3 gallons

FILTER PACK

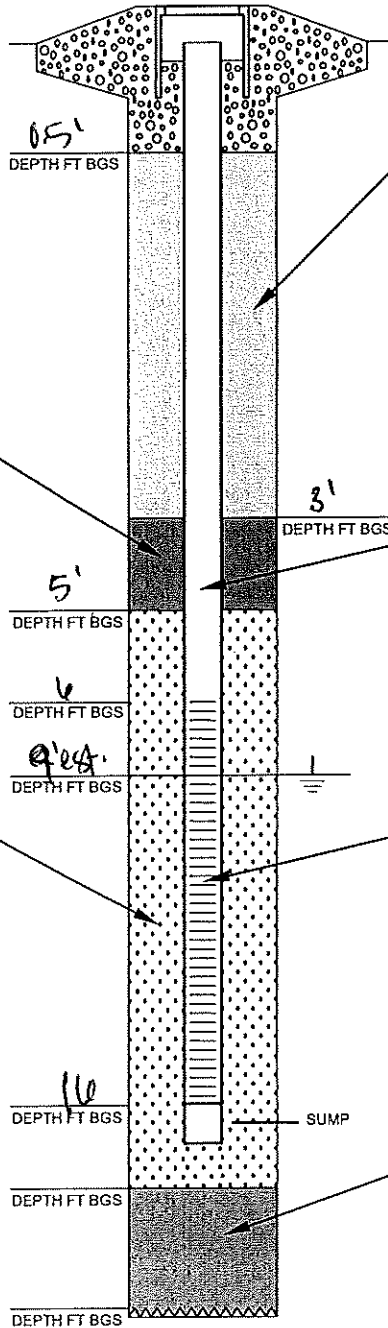
AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE #2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis luster
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 bag (47 lbs)
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/13/2010 TIME 10:00
 WELL INSTALLATION BEGAN:
 DATE 8/13/2010 TIME _____
 WELL COMPLETION FINISHED:
 DATE 8/13/2010 TIME 17:30
 DRILLING CO. NTI
 DRILLER Norman Deubeny
 LICENSE _____
 DRILL RIG CME
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

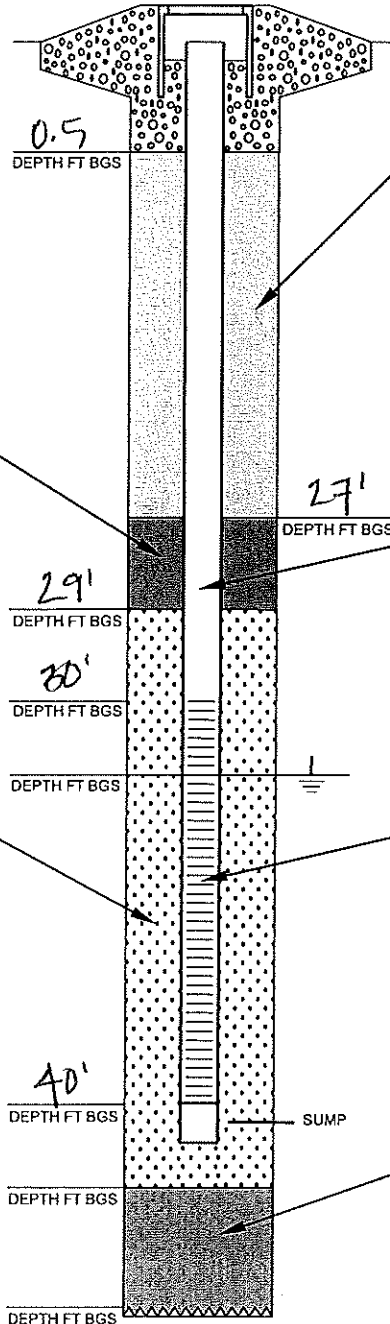
 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B128
 PROJECT Deep
 SITE _____
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 11 bags (47 lbs each)
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 50 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 5 gallon bucket
 PELLETS, SIZE _____
 CHIPS, SIZE _____

 PRODUCT _____
 MFG. BY cetco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED _____

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE #2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Luster
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .070"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/11/2010 TIME 13:30
 WELL INSTALLATION BEGAN:
 DATE 8/11/2010 TIME 14:45
 WELL COMPLETION FINISHED:
 DATE 8/11/2010 TIME 16:45
 DRILLING CO. RST
 DRILLER Norman Dewberry
 LICENSE _____
 DRILL RIG geoprobe USA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 3 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-1177
 PROJECT _____
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 bag - 50 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT pure gold
 MFG. BY ectco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

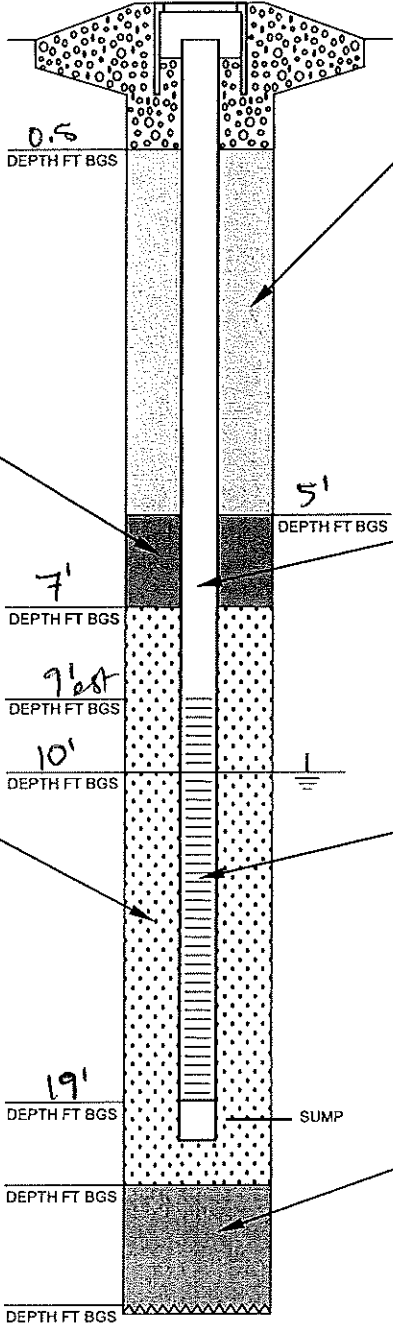
AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE #20
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT laps master
 MFG. BY obnex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 3 bags
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 12 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/11/2010 TIME 11:50
 WELL INSTALLATION BEGAN:
 DATE 8/11/2010 TIME 12:10
 WELL COMPLETION FINISHED:
 DATE 8/11/2010 TIME _____
 DRILLING CO. W&I
 DRILLER Norman Dewberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. KFS-GW-13188
 PROJECT KFS
 SITE _____
 BOREHOLE NO. sm
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 40 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT purigold
 MFG. BY celco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

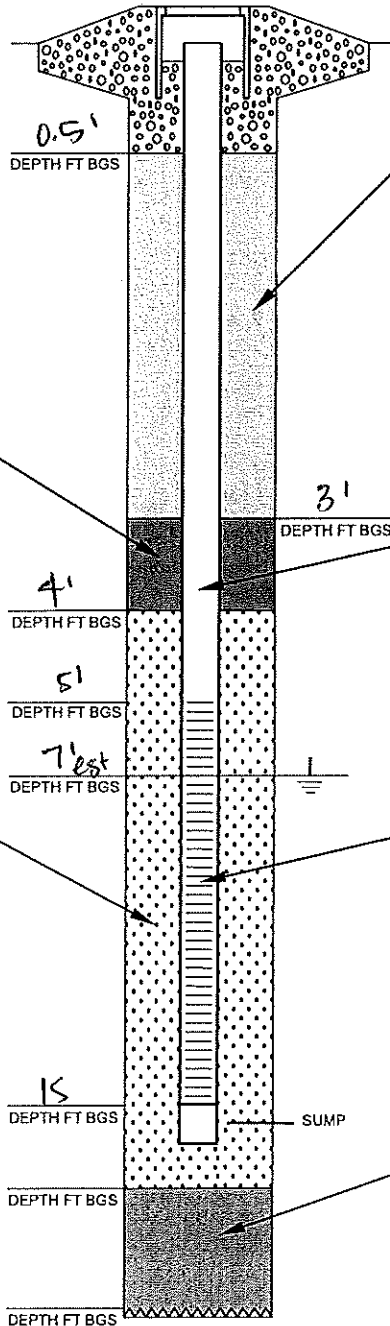
AMOUNT CALCULATED _____
 AMOUNT USED 8 bags (400 lbs)
 SAND, SIZE #2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis water
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 80 lbs
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/11/2010 TIME 9:30
 WELL INSTALLATION BEGAN:
 DATE 8/11/2010 TIME 10:30
 WELL COMPLETION FINISHED:
 DATE 8/11/2010 TIME 16:15
 DRILLING CO. RSI
 DRILLER Norman Penberry
 LICENSE _____
 DRILL RIG Geopline H/A
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 3 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B60
 PROJECT _____
 SITE _____
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 bag (50 lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY CEPCO
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

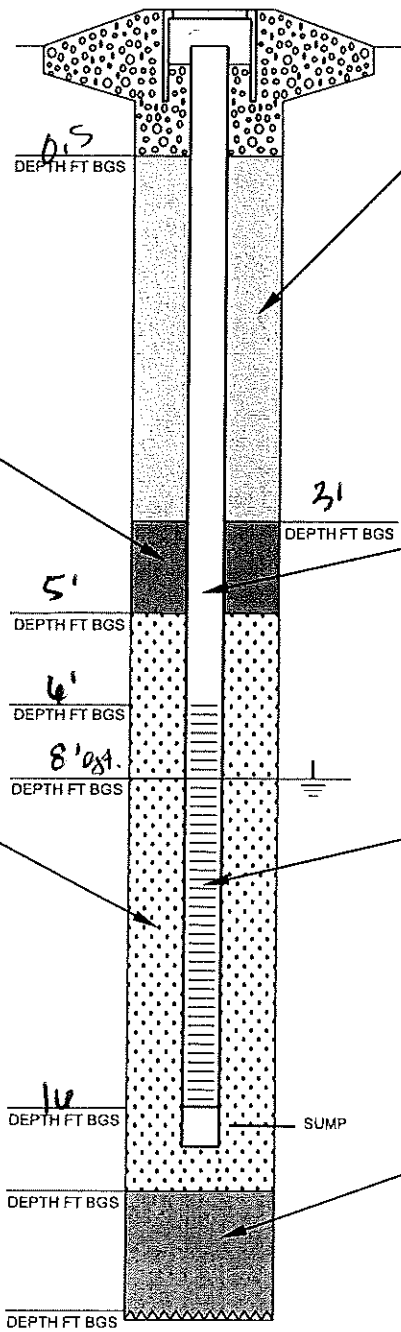
AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE #20
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lays water
 MFG. BY Cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 77 lbs
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 4 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 0.075"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/11/2010 TIME 8:15
 WELL INSTALLATION BEGAN:
 DATE 8/11/2010 TIME 8:25
 WELL COMPLETION FINISHED:
 DATE 8/11/2010 TIME 16:20
 DRILLING CO. K&S
 DRILLER Norman Deckerly
 LICENSE _____
 DRILL RIG Geoprod 150A
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B38
 PROJECT FSW Phase 1
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 bag (50-lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY cello
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

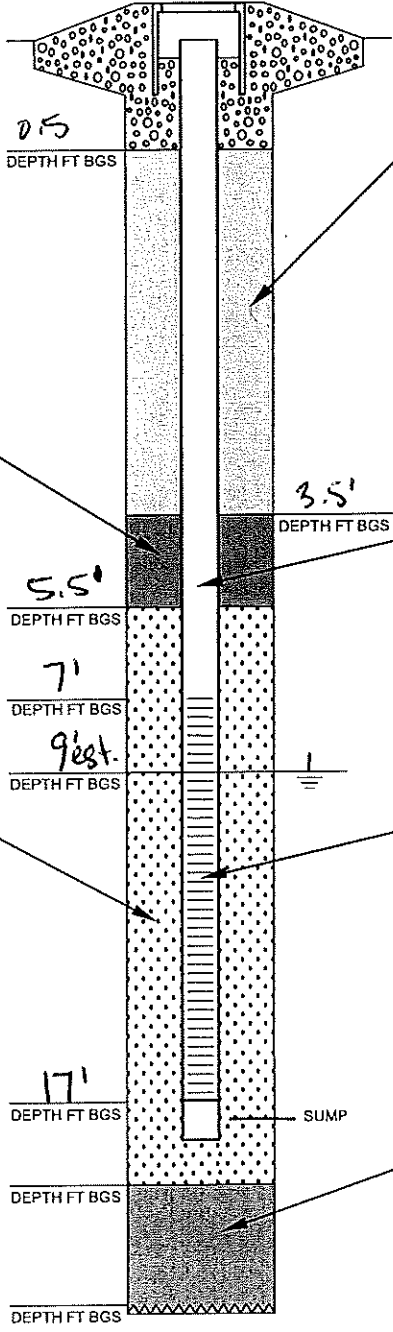
AMOUNT CALCULATED _____
 AMOUNT USED 8 bags (400 lbs)
 SAND, SIZE #2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lays luster
 MFG. BY cenhex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 47 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 4 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .070"
 LENGTH OF SCREEN 16'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/10/2010 TIME 9:15
 WELL INSTALLATION BEGAN:
 DATE 8/10/2010 TIME 11:45
 WELL COMPLETION FINISHED:
 DATE 8/10/2010 TIME 17:00
 DRILLING CO. RSI
 DRILLER Norman Deuberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B38-deep
 PROJECT _____
 SITE RFS 5
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 5 gallons (bucket)
 PELLETS, SIZE 3/8
 CHIPS, SIZE _____

 PRODUCT coated bentonite pellets, time release
 MFG. BY CETCO
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 0

FILTER PACK

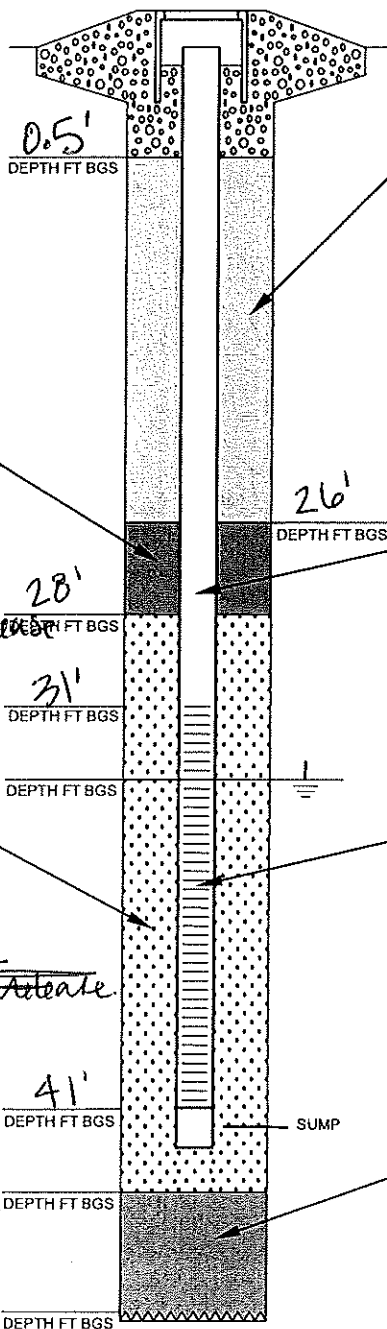
AMOUNT CALCULATED _____
 AMOUNT USED 11 bags
 SAND, SIZE _____
 FORMATION COLLAPSE:
 FROM _____ TO lapis/luster
 PRODUCT coated bentonite pellets - time release
 MFG. BY CETCO - Cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 6 bags (47 lbs)
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 25 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE (3/4")

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 10/13/2010 TIME 14:10
 WELL INSTALLATION BEGAN:
 DATE 10/13/2010 TIME _____
 WELL COMPLETION FINISHED:
 DATE 10/13/2010 TIME 17:10
 DRILLING CO. NSI
 DRILLER Jose Camaniza
 LICENSE _____
 DRILL RIG Tracklog USA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID _____ OD 8/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RF5-GW-BULK
 PROJECT FSN Phase I
 SITE RFJ
 BOREHOLE NO. _____
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 bag
 PELLETS, SIZE _____
 CHIPS, SIZE Medium

 PRODUCT pure gold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE
 AMOUNT OF WATER USED (water in boring)

FILTER PACK

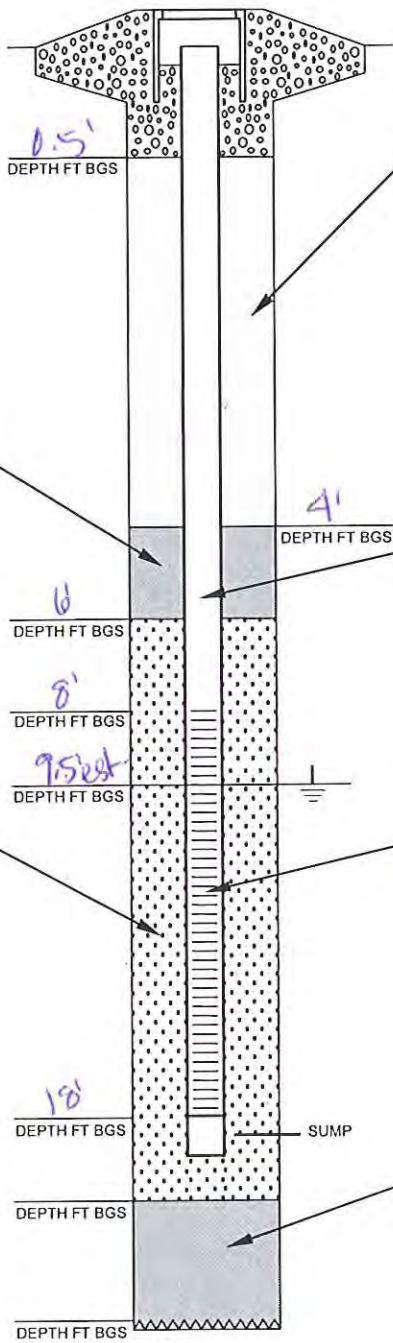
AMOUNT CALCULATED _____
 AMOUNT USED 8 bags
 SAND, SIZE #212
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT laps water
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 3 bags
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 5 gallons
 PREPARED MIX portland cement
 PRODUCT Quikrete
 MFG. BY _____
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT muniflex sch. 40
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT muniflex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE 010
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 10/13/2010 TIME 8:40
 WELL INSTALLATION BEGAN:
 DATE 10/13/2010 TIME _____
 WELL COMPLETION FINISHED:
 DATE 10/13/2010 TIME 13:30
 DRILLING CO. PT
 DRILLER Jose Carranza
 LICENSE _____
 DRILL RIG Tract rig (HSA)
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID _____ OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. LFS-6W-BULP2
 PROJECT FSM phase 2
 SITE RFC
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 35 bags
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 5 gallon
 PREPARED MIX portland cement
 PRODUCT quikrete
 MFG. BY _____
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1.5 bags
 PELLETS, SIZE medium
 CHIPS, SIZE medium

 PRODUCT pink solid
 MFG. BY catco
 METHOD INSTALLED
 POURED TREMIE
 AMOUNT OF WATER USED 3 (water in bags)

FILTER PACK

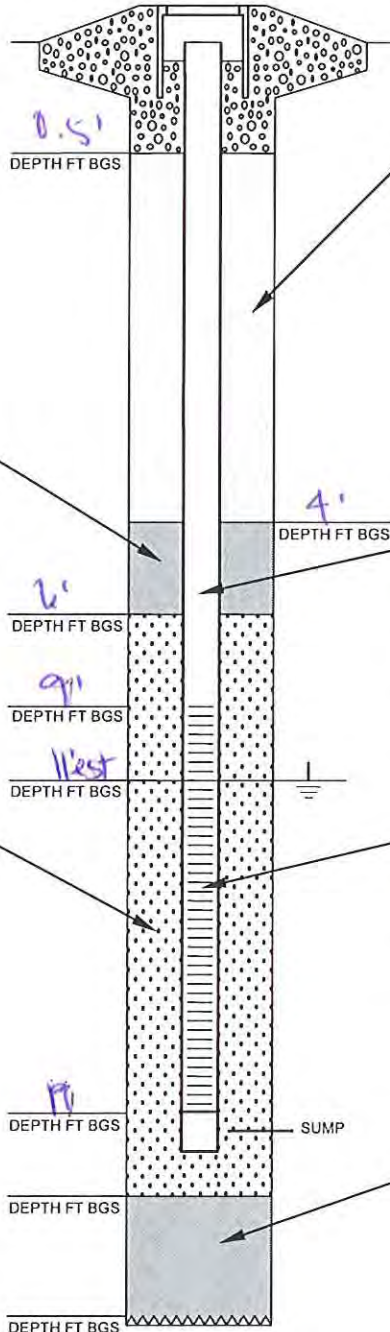
AMOUNT CALCULATED _____
 AMOUNT USED 8 bags
 SAND, SIZE #212
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis water
 MFG. BY remex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



CASING

SCHEDULE 40 PVC

 PRODUCT manuflex sch 40
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT manuflex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE .070
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/2/2010 TIME 8:20
 WELL INSTALLATION BEGAN:
 DATE 8/2/2010 TIME 8:45
 WELL COMPLETION FINISHED:
 DATE 8/2/2010 TIME 10:00
 DRILLING CO. RFS
 DRILLER Norman Deberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B120
 PROJECT _____
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 30 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY Cetco
 METHOD INSTALLED
 POURED TREMIE (auger).
 AMOUNT OF WATER USED _____

FILTER PACK

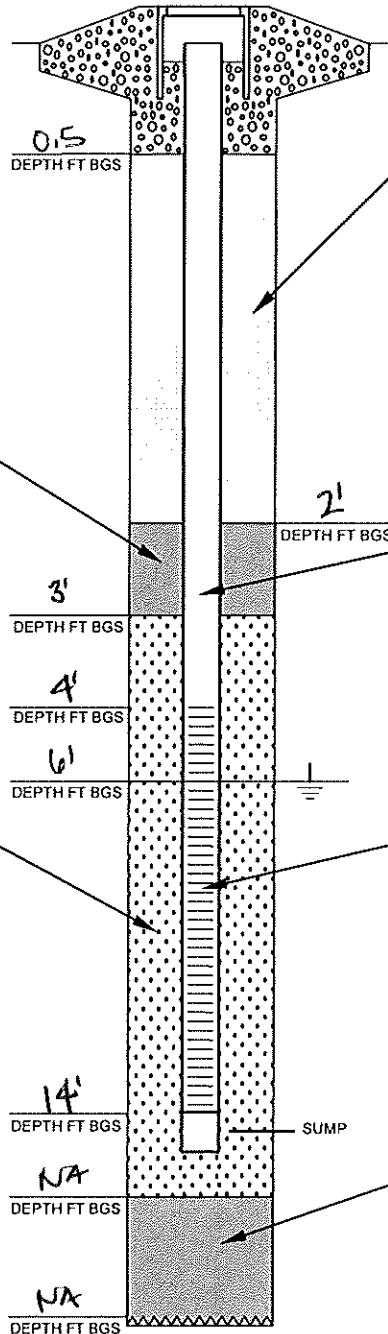
AMOUNT CALCULATED _____
 AMOUNT USED 350 lbs.
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapiz lister
 MFG. BY Cemex
 METHOD INSTALLED:
 POURED TREMIE (auger).

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 GROUT FORMULA
 PORTLAND CEMENT 30 lbs.
 BENTONITE _____
 WATER 3 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED NA
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/2/2010 TIME 12:05
 WELL INSTALLATION BEGAN:
 DATE 8/2/2010 TIME 12:20
 WELL COMPLETION FINISHED:
 DATE 8/2/2010 TIME 10:10
 DRILLING CO. rsi
 DRILLER Norman Deuberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B185
 PROJECT _____
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 GROUT FORMULA
 PORTLAND CEMENT 20 lbs.
 BENTONITE _____
 WATER 1.5 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25 lbs
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY cetco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

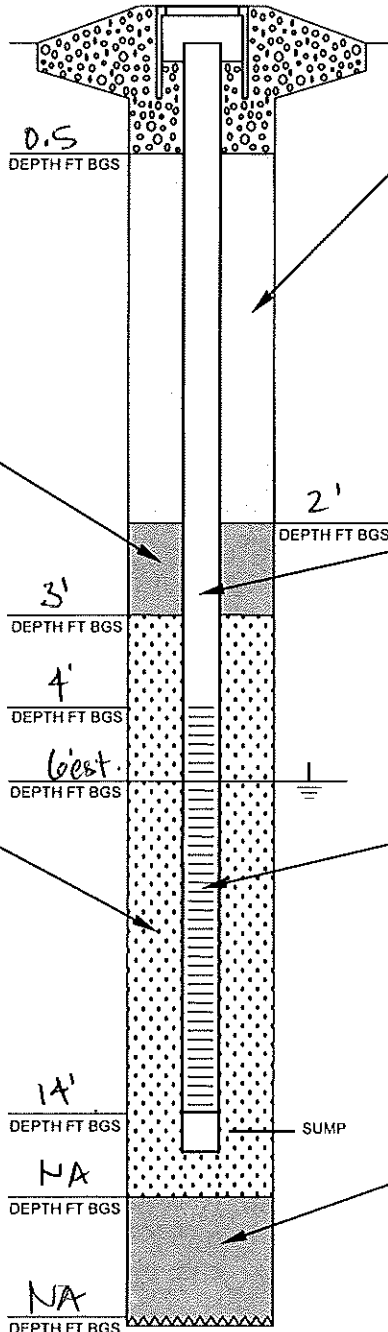
AMOUNT CALCULATED _____
 AMOUNT USED 356 lbs.
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lays plaster
 MFG. BY cemex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch. 40
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/2/2010 TIME 14:05
 WELL INSTALLATION BEGAN:
 DATE 8/2/2010 TIME 14:30
 WELL COMPLETION FINISHED:
 DATE 8/2/2010 TIME 15:50
 DRILLING CO. RST
 DRILLER Norman Dewberry
 LICENSE _____
 DRILL RIG Geoprobe H&A
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-
 PROJECT CC transformer
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 20 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED:
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY actco
 METHOD INSTALLED:
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons.

FILTER PACK

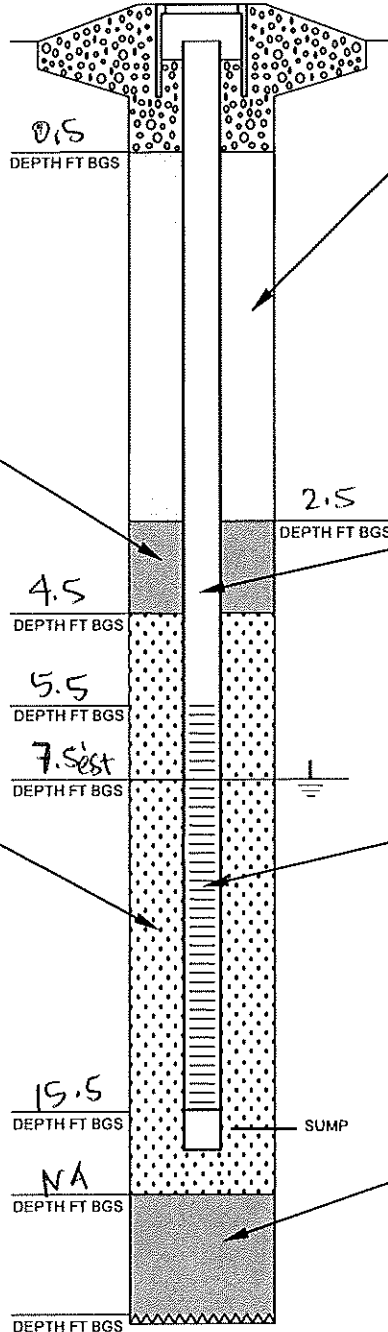
AMOUNT CALCULATED _____
 AMOUNT USED 400 lbs.
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lams meter
 MFG. BY olmex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch. 40
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 01/31/2010 TIME 14:00
 WELL INSTALLATION BEGAN:
 DATE 8/3/2010 TIME 15:15
 WELL COMPLETION FINISHED:
 DATE 8/3/2010 TIME 15:40
 DRILLING CO. LSI
 DRILLER Norman Dewberry
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GLU-B150
 PROJECT RFS
 SITE _____
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 2 lb
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT puregold
 MFG. BY catco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

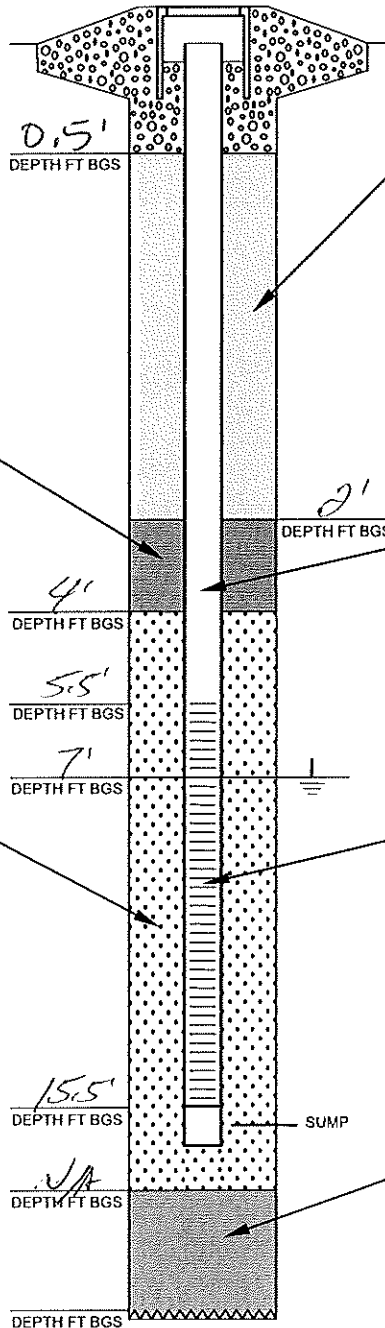
AMOUNT CALCULATED _____
 AMOUNT USED 350 lbs (7 bags)
 SAND, SIZE 2/21
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT capis luster
 MFG. BY celnex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8-3-10 TIME 8:20am
 WELL INSTALLATION BEGAN:
 DATE 8-3-10 TIME 9:00am
 WELL COMPLETION FINISHED:
 DATE 8-3-10 TIME _____
 DRILLING CO. RST
 DRILLER Norman DeGany
 LICENSE _____
 DRILL RIG Geopure HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY
 DPT
 DIAMETER OF AUGERS:
 ID 1" OD 5/4" HSA
3" DPT

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. HS-GW-B175
 PROJECT _____
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 2A (50 lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE Medium

 PRODUCT Purgold
 MFG. BY CETCO
 METHOD INSTALLED
 POURED TREMIE (change)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

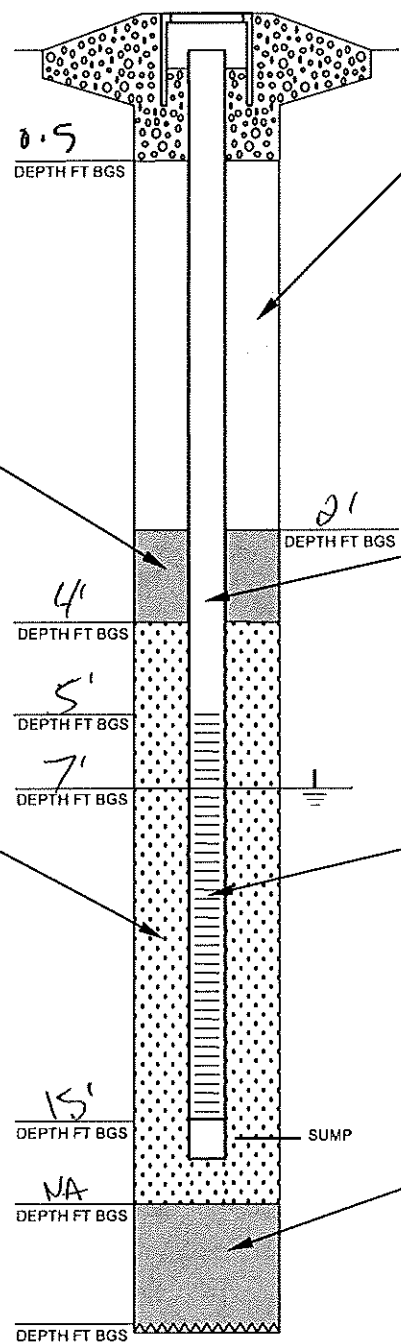
AMOUNT CALCULATED _____
 AMOUNT USED 350 lbs
 SAND, SIZE #20/40
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Leaps Water Monoflex
 MFG. BY Leaps
 METHOD INSTALLED:
 POURED TREMIE (change)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch 40
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING 5'

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE 10/10"
 LENGTH OF SCREEN 16'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM 16' TO 15'
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8-3-10 TIME 10:00am
 WELL INSTALLATION BEGAN:
 DATE 8-3-10 TIME 10:35am
 WELL COMPLETION FINISHED:
 DATE 8-3-10 TIME _____
 DRILLING CO. R.S.F.
 DRILLER Norman Deubing
 LICENSE _____
 DRILL RIG Geoprobe HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RF5-GW-B75M
 PROJECT _____
 SITE RF5
 BOREHOLE NO. None
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 2H (50 lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE Medium

 PRODUCT Puregold
 MFG. BY Tetra
 METHOD INSTALLED
 POURED TREMIE (larger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

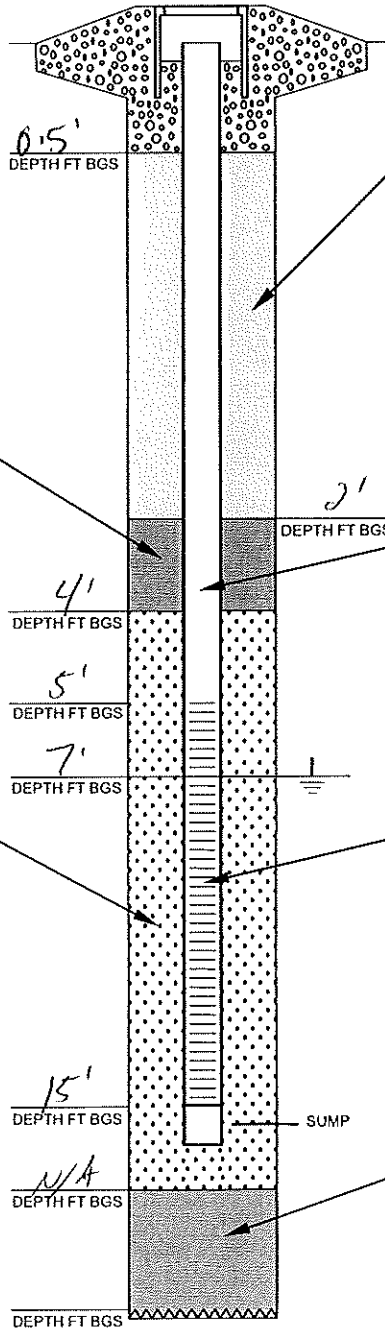
AMOUNT CALCULATED _____
 AMOUNT USED 350 lbs (7 bags)
 SAND, SIZE #20
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Leop's Lustra Molding
 MFG. BY Cemex
 METHOD INSTALLED:
 POURED TREMIE (larger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 25 lbs
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT Mantle
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Mantle
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 0010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM 16' TO 15'
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/3/2010 TIME 1200
 WELL INSTALLATION BEGAN:
 DATE 8/3/2010 TIME 1230
 WELL COMPLETION FINISHED:
 DATE 8/3/2010 TIME _____
 DRILLING CO. RSI
 DRILLER Norman Deuker
 LICENSE _____
 DRILL RIG Geoprob HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY
 Geoprobe HSA
 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-B/21
 PROJECT _____
 SITE RFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 27 (50 lbs)
 PELLETS, SIZE medium
 CHIPS, SIZE _____

 PRODUCT puigold
 MFG. BY cetco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

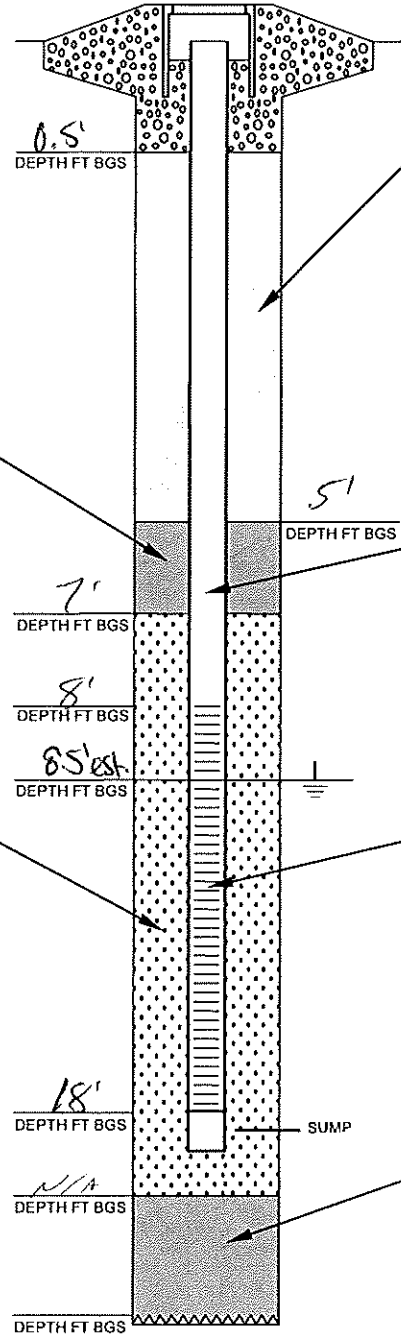
AMOUNT CALCULATED _____
 AMOUNT USED 350 lbs (76)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapis luster
 MFG. BY ceinex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 30 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 5 gallons
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quickrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex sch. 40
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER:
 ID _____ OD 2"
 SLOT SIZE 2.010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8-4-10 TIME _____
 WELL INSTALLATION BEGAN:
 DATE 8-4-10 TIME _____
 WELL COMPLETION FINISHED:
 DATE _____ TIME _____
 DRILLING CO. RSE
 DRILLER Norman Dowling
 LICENSE _____
 DRILL RIG Caspro 6000DT
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-GW-TestPit2
 PROJECT _____
 SITE RFS
 BOREHOLE NO. Five
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs.
 PELLETS, SIZE _____
 CHIPS, SIZE Medium

 PRODUCT Pergold
 MFG. BY Leico
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gals.

FILTER PACK

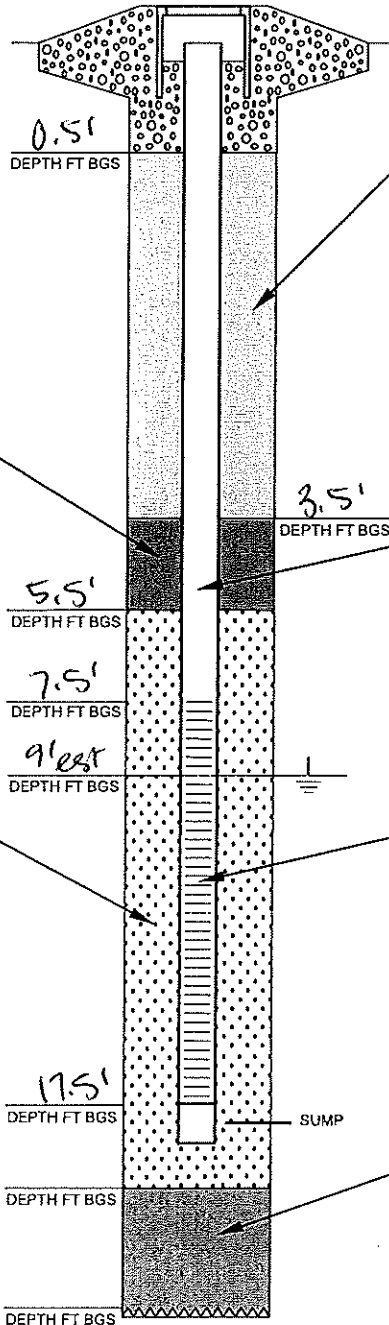
AMOUNT CALCULATED _____
 AMOUNT USED 1 bag (350 lbs.)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Topsoil/Slack Mastic
 MFG. BY Conex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 3 gals.
 PREPARED MIX
 PRODUCT Quikrete
 MFG. BY 5 portland cement
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT Manitex
 MFG. BY Caswell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Manitex
 MFG. BY Caswell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 60/10"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8-4-10 TIME _____
 WELL INSTALLATION BEGAN:
 DATE 8-4-10 TIME _____
 WELL COMPLETION FINISHED:
 DATE _____ TIME _____
 DRILLING CO. RST
 DRILLER William Debury
 LICENSE _____
 DRILL RIG Leopold 660DT
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-6W-Reservoir well
 PROJECT _____
 SITE RFS
 BOREHOLE NO. 60
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 2.5 bags (47 lbs) each
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 7.5 gallons
 PREPARED MIX
 PRODUCT Bulk mix
 MFG. BY portland cement
 METHOD INSTALLED
 POURED TREMIE

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 2 bags (50 lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE Medium

 PRODUCT Pursold
 MFG. BY CPCo
 METHOD INSTALLED
 POURED TREMIE (arger)
 AMOUNT OF WATER USED 5 gallons

CASING

SCHEDULE 40 PVC

 PRODUCT Manulox
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID 2" OD 2"
 LENGTH OF CASING 6'

FILTER PACK

AMOUNT CALCULATED _____
 AMOUNT USED 300 lbs (6 bags)
 SAND, SIZE #2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Lapis Lustris Mackay
 MFG. BY Conex
 METHOD INSTALLED:
 POURED TREMIE (arger)

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Manulox
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 0.010"
 LENGTH OF SCREEN 10'

SURVEY INFORMATION

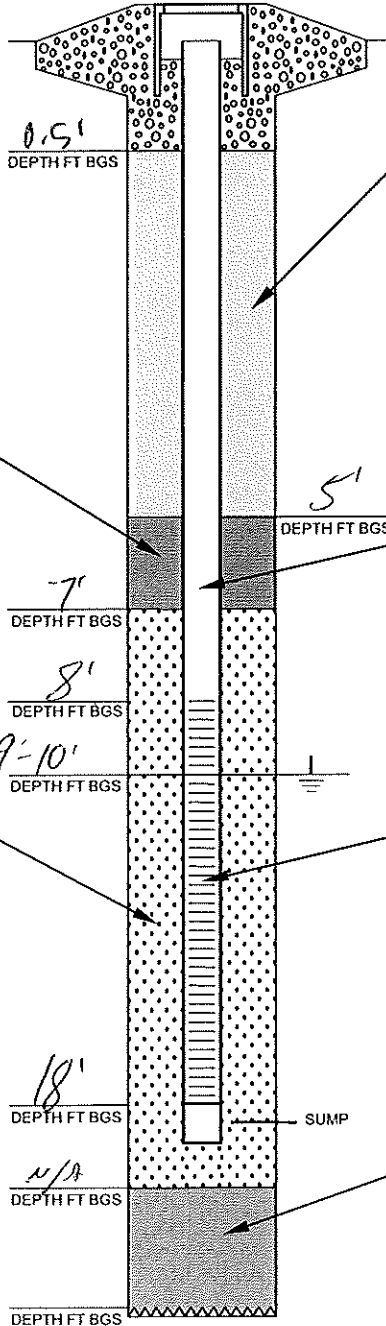
TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____





TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8-5-10 TIME 10:30
 WELL INSTALLATION BEGAN:
 DATE 8-5-10 TIME 10:50
 WELL COMPLETION FINISHED:
 DATE 8-5-10 TIME 12:00
 DRILLING CO. RSI
 DRILLER Abner Deberg
 LICENSE _____
 DRILL RIG Cement (630)DT
 DRILLING METHOD:
 FOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. 73-64-2460
 PROJECT _____
 SITE RFS
 BOREHOLE NO. Same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 2 bbl (50 lbs)
 PELLETS, SIZE _____
 CHIPS, SIZE Medium

 PRODUCT Pingold
 MFG. BY Celco
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

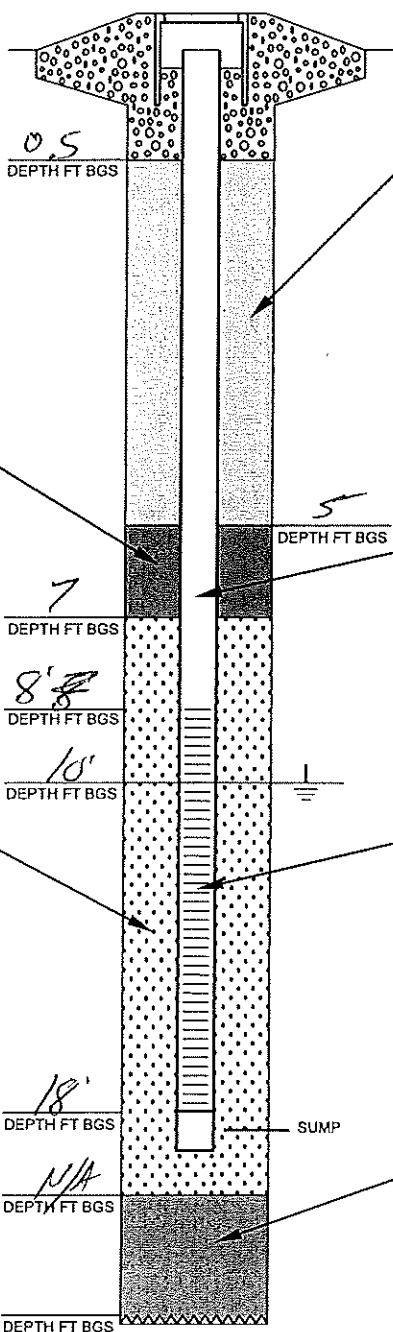
AMOUNT CALCULATED _____
 AMOUNT USED #330 lb (76 gal)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Louis Lake Monkey
 MFG. BY Lanex
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 70 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 5 gallons
 PREPARED MIX
 PRODUCT Portland cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT Manitex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING _____

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Manitex
 MFG. BY Campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 20/10"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8-5-10 TIME 10:40
 WELL INSTALLATION BEGAN:
 DATE 8-5-10 TIME 13:20
 WELL COMPLETION FINISHED:
 DATE 8-5-10 TIME _____
 DRILLING CO. RFS
 DRILLER Abner Denton
 LICENSE _____
 DRILL RIG Geopline HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. RFS-62-15350
 PROJECT _____
 SITE RFS
 BOREHOLE NO. San
 WELL PERMIT NO. 8
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 PELLETS, SIZE 2 1/2" (50 lbs)
 CHIPS, SIZE Medium

 PRODUCT Powell
 MFG. BY Cole
 METHOD INSTALLED
 POURED TREMIE (auger)
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

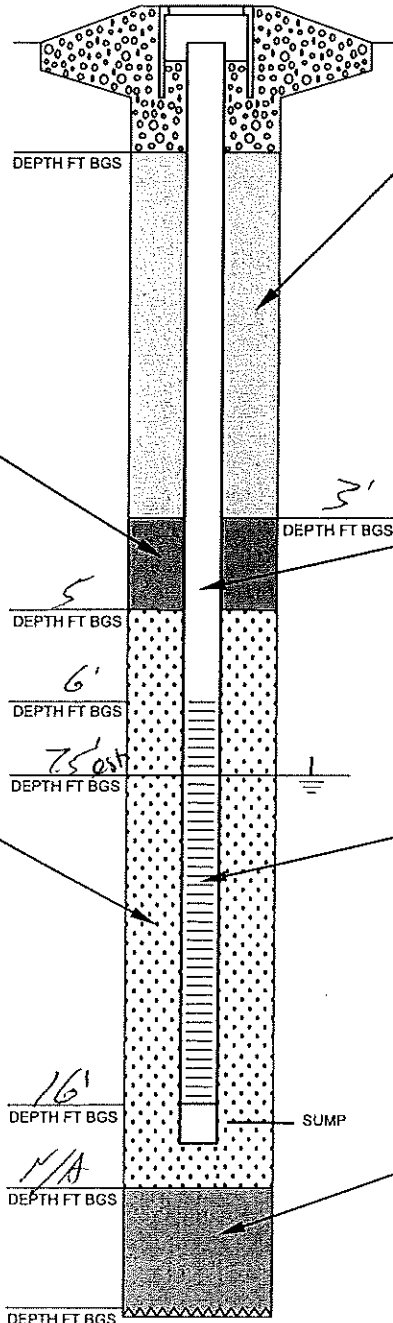
AMOUNT CALCULATED _____
 AMOUNT USED 8 3/4 lbs (6.5 bags)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT Layer Ladder Marking
 MFG. BY Leica
 METHOD INSTALLED:
 POURED TREMIE (auger)

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 2 gallons
 PREPARED MIX
 PRODUCT Powell Cement
 MFG. BY Quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT Manville
 MFG. BY Engel
 CASING DIAMETER (in):
 ID _____ OD 2"
 LENGTH OF CASING 6'

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT Manville
 MFG. BY Engel
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE 0.010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE



TETRA TECH EM INC.

MONITORING WELL COMPLETION RECORD

DRILLING INFORMATION

DRILLING BEGAN:
 DATE 8/16/2010 TIME 1000
 WELL INSTALLATION BEGAN:
 DATE 8/16/2010 TIME 1040
 WELL COMPLETION FINISHED:
 DATE 8/16/2010 TIME _____
 DRILLING CO. R27
 DRILLER Norman Penabazky
 LICENSE _____
 DRILL RIG Geopros HSA
 DRILLING METHOD:
 HOLLOW STEM AUGER
 AIR ROTARY

 DIAMETER OF AUGERS:
 ID 4" OD 8 1/4"

SURFACE COMPLETION

FLUSH MOUNT
 ABOVE GROUND W/BUMPER POST
 CONCRETE ASPHALT

MONITORING WELL

MONITORING WELL NO. NFS-GW-Front gate
 PROJECT _____
 SITE NFS
 BOREHOLE NO. same
 WELL PERMIT NO. _____
 TOC TO BOTTOM OF WELL _____

BENTONITE SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 1 bag (50 lbs.)
 PELLETS, SIZE _____
 CHIPS, SIZE medium

 PRODUCT pinexgold
 MFG. BY celco
 METHOD INSTALLED
 POURED TREMIE
 AMOUNT OF WATER USED 5 gallons

FILTER PACK

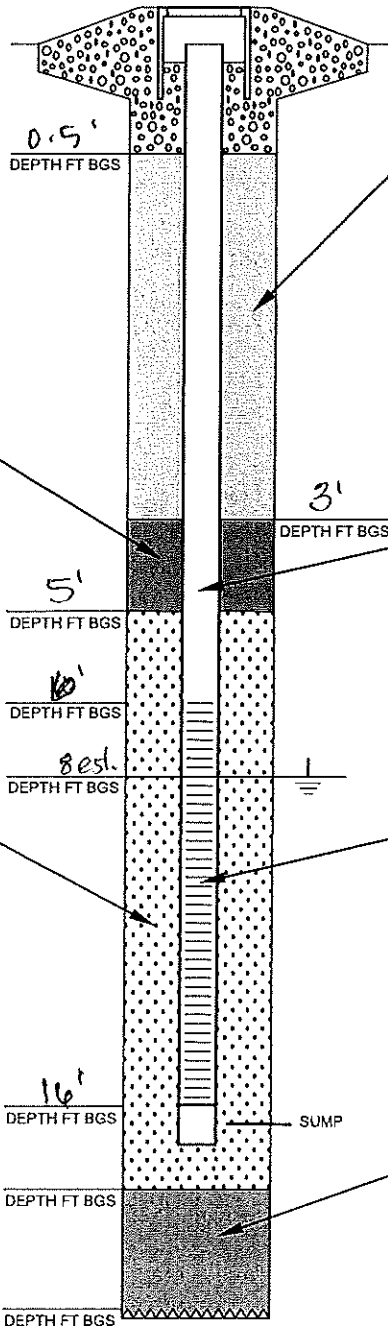
AMOUNT CALCULATED _____
 AMOUNT USED 7 bags (350 lbs)
 SAND, SIZE 2/12
 FORMATION COLLAPSE:
 FROM _____ TO _____
 PRODUCT lapizluster
 MFG. BY celmex
 METHOD INSTALLED:
 POURED TREMIE

SURVEY INFORMATION

TOC ELEVATION _____
 GROUND ELEVATION _____
 NORTHING COORD. _____
 EASTING COORD. _____
 DATE SURVEYED _____
 SURVEY CO. _____

CENTRALIZERS USED?

YES NO
 CENTRALIZER DEPTHS: _____



ANNULAR SEAL

AMOUNT CALCULATED _____
 AMOUNT USED 50 lbs.
 GROUT FORMULA
 PORTLAND CEMENT _____
 BENTONITE _____
 WATER 3 gall.
 PREPARED MIX
 PRODUCT portland cement
 MFG. BY quikrete
 METHOD INSTALLED
 POURED TREMIE

CASING

SCHEDULE 40 PVC

 PRODUCT monoflex Sch 40
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2 1/2"
 LENGTH OF CASING 6'

WELL SCREEN

SCHEDULE 40 PVC

 PRODUCT monoflex
 MFG. BY campbell
 CASING DIAMETER (in):
 ID _____ OD 2"
 SLOT SIZE .010"
 LENGTH OF SCREEN 10'

BOREHOLE BACKFILL

AMOUNT CALCULATED _____
 AMOUNT USED _____
 BENTONITE CHIPS, SIZE _____
 BENTONITE PELLETS, SIZE _____
 SLURRY _____
 FORMATION COLLAPSE
 FROM _____ TO _____
 PRODUCT _____
 MFG. BY _____
 METHOD INSTALLED:
 POURED TREMIE

ATTACHMENT 4
WELL DEVELOPMENT LOGS



WELL DEVELOPMENT DATA SHEET

BORING NO. RS-60-8480

WELL NO. _____

Project _____
Project No. _____
Date(s) of Installation 8/19/2010
Date(s) of Development 8/27/10
Personnel/Company H.S.I.
Type of Rig Used misc.

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 16' - 16'
Total Length of Well Casing 16.1'
Measure Total Depth (TOC) Initial _____
Final _____
Initial Depth to Water (TOC) 13.5 Date 8/27/10 Time 12:18
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT
EQUIPMENT TYPE/CAPACITY
Jelling (Airlift) _____
Surge Block _____
Bailing _____
Pumping _____
Other _____

PURGE VOLUME CALCULATION
Casing Volume: 26 Ft. of water
x 0.163 Gallons/Foot
= 0.42 Gallons per Single Casing Volume
Sand Pack Volume: 26 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 8.58 Gallons (in borehole)
- 0.42 Gallons of Casing Volume
= 8.16 X 0.3 (Assuming porosity = 30%)
= 2.45 Gallons Within Sand Pack
Single Purge Volume: 2.87 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 9 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 16 Gallons (Casing Vol. + Volume Measured by: volume indicator)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>2 gal</u>	<u>low</u>	<u>12:40</u>	<u>18.76</u>	<u>8.95</u>	<u>1.63</u>	<u>5999</u>	<u>2.05</u>
<u>3 gal</u>		<u>12:45</u>	<u>18.41</u>	<u>7.91</u>	<u>1.49</u>	<u>5999</u>	<u>1.78</u>
<u>4 gal</u>		<u>12:50</u>	<u>18.36</u>	<u>7.80</u>	<u>1.27</u>	<u>5999</u>	<u>1.08</u>
<u>5 gal</u>		<u>12:55</u>	<u>18.33</u>	<u>7.74</u>	<u>1.22</u>	<u>5999</u>	<u>1.01</u>
<u>6 gal</u>		<u>13:00</u>	<u>18.42</u>	<u>7.73</u>	<u>1.16</u>	<u>5999</u>	<u>1.72</u>
<u>7 gal</u>		<u>13:20</u>	<u>18.41</u>	<u>7.67</u>	<u>1.15</u>	<u>273</u>	<u>2.90</u>
<u>8 gal</u>		<u>13:25</u>	<u>18.42</u>	<u>7.66</u>	<u>1.13</u>	<u>1154</u>	<u>2.29</u>
<u>10 gal</u>		<u>13:30</u>	<u>18.39</u>	<u>7.65</u>	<u>1.10</u>	<u>676</u>	<u>1.69</u>

Development Completed at 10 Gallons Discharged. Date: 8/27/10 Time: 13:30
Personnel: Nathan Stumica + RST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. RS-6W-B480 Deep WELL NO. _____

Project _____
Project No. _____
Date(s) of Installation 8/12/2010
Date(s) of Development 8/27/10
Personnel/Company _____
Type of Rig Used RSE

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 35' - 40'
Total Length of Well Casing 46.2
Measure Total Depth (TOC) Initial _____
Final _____
Initial Depth to Water (TOC) 9.7' Date 8/27/10 Time 10:30
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

FLUIDS ADDED

Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

PURGE VOLUME CALCULATION

Casing Volume: 30.5 Ft. of water
x 0.163 Gallons/Foot
= 4.97 Gallons per Single Casing Volume
Sand Pack Volume: 12 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 39.6 Gallons (in borehole)
- 1.96 Gallons of Casing Volume
= 37.64 X 0.3 (Assuming porosity = 30%)
= 11.29 Gallons Within Sand Pack
Single Purge Volume: 16.26 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 49 Gallons (Casing Vol. + Actual Purge Volume: 52 Gallons (Casing Vol. + Volume Measured by: volume in drums)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>6 gal</u>		<u>11:05</u>	<u>18.02</u>	<u>9.44</u>	<u>0.595</u>	<u>5999</u>	<u>1.13</u>
<u>14 gal</u>		<u>11:15</u>	<u>18.26</u>	<u>8.80</u>	<u>0.682</u>	<u>889</u>	<u>0.19</u>
<u>20 gal</u>		<u>11:25</u>	<u>18.25</u>	<u>8.68</u>	<u>0.683</u>	<u>619</u>	<u>0.17</u>
<u>29 gal</u>		<u>11:35</u>	<u>18.26</u>	<u>8.61</u>	<u>0.684</u>	<u>421</u>	<u>0.16</u>
<u>29 gal</u>		<u>11:45</u>	<u>18.28</u>	<u>8.67</u>	<u>0.682</u>	<u>825</u>	<u>0.17</u>
<u>38 gal</u>		<u>11:55</u>	<u>18.28</u>	<u>8.66</u>	<u>0.683</u>	<u>638</u>	<u>0.15</u>
<u>48 gal</u>		<u>12:05</u>	<u>18.27</u>	<u>8.58</u>	<u>0.683</u>	<u>470</u>	<u>0.14</u>
<u>52 gal</u>		<u>12:10</u>	<u>18.28</u>	<u>8.57</u>	<u>0.683</u>	<u>482</u>	<u>0.15</u>

Development Completed at 52 Gallons Discharged. Date: 8/27/10 Time: 12:10
Personnel: Nathan Stormont + RSE

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. 2ERL

WELL NO. _____

Project _____
 Project No. _____
 Date(s) of Installation 8/9/2010
 Date(s) of Development 8/31/2010
 Personnel/Company RSI
 Type of Rig Used truck

Casing Diameter/Type 2" PVC
 Borehole Diameter 1 1/4"
 Screened Interval(s) 7-17'
 Total Length of Well Casing 17.1
 Measure Total Depth (TOC) Initial _____
 Final _____
 Initial Depth to Water (TOC) 14.6 Date 8/21/2010 Time 12:50
 Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT
 EQUIPMENT TYPE/CAPACITY

- Jetting (Airlift) _____
- Surge Block _____
- Bailing _____
- Pumping peristaltic
- Other _____

PURGE VOLUME CALCULATION

Casing Volume: 2.5 Ft. of water
 x .163 Gallons/Foot
 = .41 Gallons per Single Casing Volume
 Sand Pack Volume: 2.5 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 8.25 Gallons (in borehole)
 - .41 Gallons of Casing Volume
 = 7.8 X 0.3 (Assuming porosity = 30%)
 = 2.35 Gallons Within Sand Pack
 Single Purge Volume: 2.76 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 8.3 Gallons (Casing Vol. + Actual Purge Volume: 7.4 Gallons (Casing Vol. + Volume Measured by: volume in 5 gall. buckets.)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: Q

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>9/31/2010</u> <u>2.5 gallon</u>		<u>12:32</u>	<u>16.98</u>	<u>6.87</u>	<u>7.40</u>	<u>1751</u>	<u>1.77</u>
<u>" "</u>		<u>12:40</u>	<u>22.24</u>	<u>7.19</u>	<u>7.31</u>	<u>627</u>	<u>3.04</u>
<u>9/1</u> <u>3 gallon</u>		<u>14:32</u>	<u>18.30</u>	<u>6.69</u>	<u>6.98</u>	<u>67.7</u>	<u>0.84</u>
<u>" "</u>		<u>14:37</u>	<u>18.26</u>	<u>6.77</u>	<u>7.03</u>	<u>99.8</u>	<u>2.02</u>
<u>x 4.5 gallon</u>	<u>DRY</u>	<u>14:44</u>				<u>117</u>	
<u>" "</u>		<u>17:02</u>	<u>17.73</u>	<u>6.67</u>	<u>6.91</u>		<u>2.22</u>
<u>9/2</u> <u>5.5 gallon</u>		<u>17:08</u>	<u>17.97</u>	<u>6.69</u>	<u>6.88</u>	<u>776</u>	<u>2.15</u>
<u>" "</u>		<u>08:08</u>	<u>16.35</u>	<u>6.98</u>	<u>7.07</u>	<u>158</u>	<u>2.61</u>
<u>6.5 gal</u>		<u>8:25</u>	<u>16.73</u>	<u>6.82</u>	<u>6.72</u>	<u>329</u>	<u>1.81</u>
<u>70 gal</u>	<u>Dry</u>	<u>8:30</u>					

Development Completed at 7.4 Gallons Discharged. Date: 9/2/2010 Time: 8:30

Personnel: _____

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. B3-6W-B474 WELL NO. _____

Project FSW Phase I, GW
Project No. _____
Date(s) of Installation 8/12/10
Date(s) of Development 8/27/10
Personnel/Company _____
Type of Rig Used RST

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 6-11'
Total Length of Well Casing 16.2'
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 12.1 Date 8/27/10 Time 13:45
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 4.1 Ft. of water
x 0.163 Gallons/Foot
= 0.67 Gallons per Single Casing Volume
Sand Pack Volume: 4.1 Ft. of Saturated Sand Pack
x 5.3 Gallons/Foot (borehole diameter)
= 13.53 Gallons (in borehole)
- 12.86 0.67 Gallons of Casing Volume
= 12.86 X 0.3 (Assuming porosity = 30%)
= 3.86 Gallons Within Sand Pack
Single Purge Volume: 4.53 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 14 Gallons (Casing Vol. + Actual Purge Volume: ~17.5 Gallons (Casing Vol. + Volume Measured by: volume of water in 5 gall. buckets.
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~ 2 gal</u>		<u>14:18</u>	<u>17.90</u>	<u>7.65</u>	<u>3.27</u>	<u>588</u>	<u>1.91</u>
<u>~ 3.5 gal</u>		<u>14:20</u>	<u>17.47</u>	<u>7.68</u>	<u>3.45</u>	<u>2K</u>	<u>0.95</u>
<u>~ 5 gal</u>	<u>Dry</u>	<u>14:25</u>	<u>17.57</u>	<u>7.62</u>	<u>2.40</u>	<u>2000</u>	<u>1.14</u>
<u>~ 5.5 gal</u>	<u>Dry</u>	<u>14:43</u>					
<u>~ 6 gal</u>	<u>DRY</u>	<u>8:34</u>	<u>17.10</u>	<u>7.75</u>	<u>1.235</u>	<u>75.5</u>	<u>0.98</u>
	<u>DRY</u>	<u>8:44</u>	<u>17.01</u>	<u>7.61</u>	<u>1.98</u>	<u>395</u>	<u>1.70</u>
<u>~ 8 gal</u>		<u>11:04</u>	<u>17.31</u>	<u>7.33</u>	<u>1.091</u>	<u>280</u>	<u>4.06</u>
<u>~ 9 gal</u>		<u>11:13</u>	<u>18.73</u>	<u>7.33</u>	<u>0.524</u>	<u>278</u>	<u>5.47</u>
<u>~ 10 gal</u>	<u>DRY</u>	<u>14:10</u>					

Development Completed at 17.5 Gallons Discharged. Date: 8/31/2010 Time: 10:05

Personnel: N. Stormzand, C. Feltic

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

<u>~ 11.5 gal</u>	<u>10:32</u>	<u>17.52</u>	<u>7.45</u>	<u>0.612</u>	<u>68.7</u>	<u>3.06</u>
	<u>10:35</u>	<u>17.34</u>	<u>7.39</u>	<u>0.610</u>	<u>59.8</u>	<u>4.40</u>
	<u>10:40</u>	<u>17.28</u>	<u>7.31</u>	<u>0.746</u>	<u>301</u>	<u>4.23</u>
<u>~ 13 gal</u>	<u>DRY</u>	<u>14:50</u>				
	<u>8:54</u>	<u>17.18</u>	<u>7.62</u>	<u>0.619</u>	<u>49.2</u>	<u>2.61</u>
	<u>8:56</u>	<u>17.28</u>	<u>7.50</u>	<u>0.610</u>	<u>47.8</u>	<u>3.65</u>
<u>~ 14 gal</u>	<u>8:58</u>	<u>17.25</u>	<u>7.46</u>	<u>0.451</u>	<u>49.5</u>	<u>4.76</u>

8/20/2010

8/31

≈ 14.5 gall	9:00	17.22	7.43	0.677	50.9	4.90
	9:02	17.21	7.41	0.726	67.1	4.95
≈ 15.5 gall	9:04	17.18	7.39	0.754	75.1	4.75
	9:06	17.15	7.35	0.815	100	4.16
≈ 16 gall	9:08	17.40	7.31	0.739	200	4.81
	9:15	17.71	7.33	0.684	461	5.94
≈ 16.5 gall	9:20	17.85	7.37	0.671	191	6.38
	9:24	17.88	7.41	0.659	133	6.56
≈ 16.5 gall " "	9:25 → DRY					
	9:54	17.25	7.46	0.602	80.4	4.80
≈ 17.5 gall	9:56	17.19	7.38	0.621	132	4.79
	9:58	17.17	7.32	0.659	265	4.51
	10:02	17.97	7.37	0.589	190	6.25
	→ 10:04 → DRY.					



WELL DEVELOPMENT DATA SHEET

BORING NO. B.473

WELL NO. RFS-GW-BA73

Project _____
 Project No. _____
 Date(s) of Installation 8/9/2010
 Date(s) of Development 8/21/2010 - 9/11/2010
 Personnel/Company PSI
 Type of Rig Used _____

Casing Diameter/Type 2" PVC
 Borehole Diameter 8 1/4"
 Screened Interval(s) 7-17
 Total Length of Well Casing 17.2
 Measure Total Depth (TOC) Initial _____
 Final _____
 Initial Depth to Water (TOC) 13.4 Date 8/21/2010 Time 9:30
 Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT
 EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping peristaltic pump.
 Other _____

PURGE VOLUME CALCULATION
 Casing Volume: 3.8 Ft. of water
 x .163 Gallons/Foot
 = .62 Gallons per Single Casing Volume
 Sand Pack Volume: 3.5 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 12.5 Gallons (in borehole)
 - .6 Gallons of Casing Volume
 = 11.9 X 0.3 (Assuming porosity = 30%)
 = 3.6 Gallons Within Sand Pack
 Single Purge Volume: 4.2 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 12.6 Gallons (Casing Vol. + Actual Purge Volume)
 Actual Purge Volume: 12.5 Gallons (Casing Vol. + Volume Measured by: volume of water in buckets/drums.)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
 Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: 0 Y N
 Sample Designation of Added Water: 0

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>2.5 gallon</u>		<u>9:40</u>	<u>18.33</u>	<u>7.67</u>	<u>1.114</u>	<u>5929</u>	<u>7.05</u>
<u>3 gallon</u>	<u>DRY</u>	<u>9:55</u>					
<u>4.5 gallon</u>	<u>DRY</u>	<u>14:00</u>					
<u>5.5 gallon</u>		<u>10:17</u>	<u>17.69</u>	<u>7.19</u>	<u>1.157</u>	<u>511</u>	<u>6.51</u>
		<u>10:20</u>	<u>17.64</u>	<u>7.18</u>	<u>1.262</u>	<u>2000</u>	<u>6.25</u>
		<u>10:43</u>	<u>17.83</u>	<u>7.20</u>	<u>1.093</u>	<u>1631</u>	<u>5.83</u>
<u>8.0 gal</u>		<u>11:02</u>	<u>19.17</u>	<u>7.25</u>	<u>0.984</u>	<u>336</u>	<u>5.95</u>
<u>8.5 gal.</u>		<u>11:18</u>	<u>19.28</u>	<u>7.26</u>	<u>0.953</u>	<u>135</u>	<u>6.08</u>
<u>9.5 gal</u>		<u>14:06</u>	<u>18.65</u>	<u>7.37</u>	<u>0.851</u>	<u>132</u>	<u>5.47</u>
<u>10.5 gal</u>		<u>14:13</u>	<u>18.85</u>	<u>7.28</u>	<u>1.085</u>	<u>1551</u>	<u>5.47</u>

Development Completed at 12.5 Gallons Discharged. Date: 9/11/2010 Time: 16:48

Personnel: Chrysin D. Ferriz

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

<u>10.5 gal. DRY</u>	<u>14:17</u>						
<u>11 gal</u>	<u>16:24</u>	<u>18.02</u>	<u>7.41</u>	<u>0.764</u>	<u>116</u>	<u>6.05</u>	
	<u>16:28</u>	<u>18.00</u>	<u>7.27</u>	<u>0.755</u>	<u>433</u>	<u>5.72</u>	
	<u>16:31</u>	<u>17.98</u>	<u>7.24</u>	<u>0.780</u>	<u>878</u>	<u>5.69</u>	
<u>12 gal</u>	<u>16:39</u>	<u>19.42</u>	<u>7.31</u>	<u>0.822</u>	<u>925</u>	<u>5.91</u>	
	<u>16:42</u>	<u>19.54</u>	<u>7.31</u>	<u>0.805</u>	<u>203</u>	<u>5.81</u>	
	<u>16:44</u>	<u>19.60</u>	<u>7.30</u>	<u>0.801</u>	<u>144</u>	<u>5.89</u>	
<u>12.5 gal.</u>	<u>16:47</u>	<u>17.69</u>	<u>7.29</u>	<u>0.793</u>	<u>965</u>	<u>5.92</u>	



WELL DEVELOPMENT DATA SHEET

BORING NO. B280B

WELL NO. RFS-GW-B284B

Project _____
Project No. _____
Date(s) of Installation 8/16/2010
Date(s) of Development 8/26/2010 - 9/21/2010
Personnel/Company HSI
Type of Rig Used truck.

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/2"
Screened Interval(s) 6-16
Total Length of Well Casing 16.2
Measure Total Depth (TOC) Initial Final
Initial Depth to Water (TOC) 13 Date 8/26/2010 Time 14:35
Stabilized Depth to Water (TOC) DRY Date Time

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
Jetting (Airlift)
Surge Block
Bailing
Pumping
Other

PURGE VOLUME CALCULATION
Casing Volume: 3.2 Ft. of water
x .143 Gallons/Foot
= .52 Gallons per Single Casing Volume
Sand Pack Volume: 3.2 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 10.56 Gallons (in borehole)
- .52 Gallons of Casing Volume
= 10 X 0.3 (Assuming porosity = 30%)
= 3 Gallons Within Sand Pack
Single Purge Volume: 3.5 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 10.5 Gallons (Casing Vol. + Actual Purge Volume: 10 Gallons (Casing Vol. + Volume Measured by: volume of water in buckets.
Rate of Development Gallons/Minute (Hour, Day)
Pumping Rate/Depth @ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness

FLUIDS ADDED
Lost Drilling Fluid: Gallons
Lost Purge Water: Gallons
Water During Installation: Gallons
Total Fluids Added: Gallons
Source of Added Water:
Sample Collected of Added Water: Y N
Sample Designation of Added Water:

Development Criteria:

Table with 8 columns: Total Volume Discharge, Rate of Discharge, Time, Temp, pH, Specific* Conductance, Turbidity (NTU), D.O., Clarity, Odor, PID Readings, Other. Includes handwritten data points with dates like 8/30, 8/31, 9/1.

Development Completed at 6 Gallons Discharged. Date: 9/2/2010 Time: 9:15
Personnel: N. Stormzand, C. Felic

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. B490

WELL NO. _____

Project _____
Project No. _____
Date(s) of Installation 8/6/2010
Date(s) of Development 8/30/2010
Personnel/Company RSI

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 8-18
Total Length of Well Casing 18.3
Measure Total Depth (TOC) Initial _____
Final _____

Type of Rig Used _____

Initial Depth to Water (TOC) 14.3 Date 8/30/2010 Time 14:15
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT TECHNIQUE(S)
EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
Other _____

PURGE VOLUME CALCULATION
Casing Volume: 4 Ft. of water
x 1.43 Gallons/Foot
= 5.72 Gallons per Single Casing Volume
Sand Pack Volume: 4 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 13.2 Gallons (in borehole)
- 5.72 Gallons of Casing Volume
= 7.48 X 0.3 (Assuming porosity = 30%)
= 2.24 Gallons Within Sand Pack
Single Purge Volume: 4.4 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 13.5 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 27 Gallons (Casing Vol. + Volume Measured by: volume of water in down)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: 0 Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
≈ 3 gallons		14:50	18.45	7.32	0.930	599	3.45
≈ 4 gall		15:00	18.17	7.21	0.881	701	1.70
≈ 7 gall		15:10	18.01	7.21	0.873	202	1.60
		15:18	18.15	7.21	0.870	70.2	1.42
≈ 12 gall		15:29	17.96	7.23	0.875	2000	1.75
		15:34	17.79	7.22	0.871	1127	1.73
≈ 14 gall		15:38	17.85	7.22	0.868	567	1.73
		15:41	17.81	7.22	0.868	350	1.75
		15:57	17.75	7.22	0.867	137	2.88
		16:00	17.71	7.22	0.866	106	2.70

Development Completed at 27 Gallons Discharged. Date: 8/20/2010 Time: 16:12

Personnel: C. Feltz

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

	16.08	17.74	7.22	0.866	92.2	2.67
	16.04	17.62	7.21	0.866	99.7	2.61
	16.06	17.46	7.21	0.866	92.7	2.59
	16.08	17.79	7.21	0.865	70.1	2.54
	16.10	17.75	7.21	0.865	55.0	2.58
≈ 27 gallon	16.12	17.74	7.21	0.865	51.4	2.57



WELL DEVELOPMENT DATA SHEET

BORING NO. Acosciences Well Field WELL NO. _____

Project FSW phase 1 EGW
Project No. _____
Date(s) of Installation 7/26/2020
Date(s) of Development 9/1/2020
Personnel/Company KSI
Type of Rig Used Track Mounter

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 6-16'
Total Length of Well Casing 16.4
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 10.5 Date 9/1/2020 Time 15:15
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 5.9 Ft. of water
x .163 Gallons/Foot
= .96 Gallons per Single Casing Volume
Sand Pack Volume: 5.9 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 18.5 Gallons (in borehole)
- .96 Gallons of Casing Volume
= 17.5 X 0.3 (Assuming porosity = 30%)
= 5.3 Gallons Within Sand Pack
Single Purge Volume: 16.3 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 18.9 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Actual Purge Volume: 20 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Volume Measured by: volume in drum
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>17 gals</u>		<u>15:41</u>	<u>18.18</u>	<u>7.60</u>	<u>0.914</u>	<u>41.1</u>	<u>3.15</u>
<u>12 gals</u>		<u>15:52</u>	<u>18.17</u>	<u>7.59</u>	<u>0.902</u>	<u>29.8</u>	<u>2.70</u>
		<u>15:55</u>	<u>18.13</u>	<u>7.60</u>	<u>0.899</u>	<u>24.3</u>	<u>2.71</u>
		<u>15:58</u>	<u>18.21</u>	<u>7.59</u>	<u>0.897</u>	<u>24.2</u>	<u>2.43</u>
		<u>16:00</u>	<u>18.25</u>	<u>7.58</u>	<u>0.895</u>	<u>23.5</u>	<u>2.59</u>
		<u>16:03</u>	<u>18.27</u>	<u>7.58</u>	<u>0.893</u>	<u>24.4</u>	<u>2.55</u>
<u>19 gals</u>		<u>16:05</u>	<u>18.26</u>	<u>7.58</u>	<u>0.892</u>	<u>25.2</u>	<u>2.55</u>

Development Completed at 20 Gallons Discharged. Date: 9/1/2020 Time: 16:09
Personnel: Kevin

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. RFS-661-EPA WELL NO. same

Project _____
Project No. _____
Date(s) of Installation 7/28/10
Date(s) of Development 8/19/10
Personnel/Company _____
Type of Rig Used RST

Casing Diameter/Type 2" PVC
Borehole Diameter 8.59"
Screened Interval(s) 4'-14"
Total Length of Well Casing 14.4'
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 8.7' Date 8/19/10 Time 08:20
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT
TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 5.7 Ft. of water
x 0.163 Gallons/Foot
= 0.93 Gallons per Single Casing Volume
Sand Pack Volume: 5.7 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 18.81 Gallons (in borehole)
- 0.93 Gallons of Casing Volume
= 17.88 X 0.3 (Assuming porosity = 30%)
= 5.36 Gallons Within Sand Pack
Single Purge Volume: 6.29 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 19 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: _____ Gallons (Casing Vol. + Volume Measured by: _____)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: 0
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

	Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
8/20/2010	1 gallon	~34/min	08:45	16.97	7.39	2.81	5999	5.41
	3 gallons	DRY	08:50	→ recharge measured at 20 min/ft.				
	3 gallons	DRY	10:10	18.37	7.75	2.51	5999	6.31
8/20/2010	4 gallons	DRY -	pumped	dry.				
DTW: 9.5'	4.5 gallon	DRY -	14:24	17.59	7.81	2.35	670	4.04
8/23	5.5 gallon	DRY	8 AM	(1/2 gallon) + 17:00 (1/2 gallon)				
	1 gallon	DRY	17:14	19.48	7.76	1.46	604	6.21
8/27	7.5 gallon	DRY	9:35	- pumped 6.5 gallons				
8/30	9.5 gallon	DRY	10:00					
9/21			8:25	10:88	7.71	1.858	210	6.06

Development Completed at _____ Gallons Discharged. Date: _____ Time: _____

Personnel: _____

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

9/11	10.5 gallon		8:30	16.80	7.63	1.371	1168	5.83
			18:00	18.44	7.63	1.207	37.1	1.79
	12 gal		13:07	18.27	7.61	1.321	28.5	4.95
	12.5 gal		13:10	→ DRY.				
	15 gal		09:50	17.94	7.60	1.210	264	4.10
	13.5		09:35	DRY.				



Tetra Tech EM Inc.

Sheet ___ of ___

WELL DEVELOPMENT DATA SHEET

BORING NO. _____

WELL NO. RFS-GW-13197

Project _____
 Project No. _____
 Date(s) of Installation 7/30/2020
 Date(s) of Development 8/19/2020
 Personnel/Company RST
 Type of Rig Used truck mounted

Casing Diameter/Type 2" PVC
 Borehole Diameter 2 1/4"
 Screened Interval(s) 4-14" depth
 Total Length of Well Casing 14.4
 Measure Total Depth (TOC) Initial _____ Final _____
 Initial Depth to Water (TOC) 7.5 Date 8/19/2020 Time 12:35
 Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 _____ Other _____

PURGE VOLUME CALCULATION

Casing Volume: 6.9 Ft. of water
 x .163 Gallons/Foot
 = 1.12 Gallons per Single Casing Volume
 Sand Pack Volume: 6.9 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 22.77 Gallons (in borehole)
 - 1.12 Gallons of Casing Volume
 = 21.65 X 0.3 (Assuming porosity = 30%)
 = 6.49 Gallons Within Sand Pack
 Single Purge Volume: 7.62 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 22.84 Gallons (Casing Vol. + Actual Purge Volume: 25 Gallons (Casing Vol. + Volume Measured by: volume of water in drum)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: 0 Gallons
 Lost Purge Water: 0 Gallons
 Water During Installation: 0 Gallons
 Total Fluids Added: 0 Gallons
 Source of Added Water: 0
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>13 gal</u>		<u>12:55</u>	<u>19.78</u>	<u>7.16</u>	<u>2.31</u>	<u>5999</u>	<u>3.28</u>
<u>19 gal</u>		<u>13:05</u>	<u>19.52</u>	<u>7.26</u>	<u>2.21</u>	<u>697</u>	<u>3.61</u>
<u>12 gal</u>		<u>13:15</u>	<u>19.51</u>	<u>7.18</u>	<u>2.19</u>	<u>161</u>	<u>3.34</u>
<u>15 gal</u>		<u>13:25</u>	<u>19.48</u>	<u>7.16</u>	<u>2.18</u>	<u>974</u>	<u>3.26</u>
<u>16.8 gal</u>		<u>13:35</u>	<u>19.41</u>	<u>7.15</u>	<u>2.17</u>	<u>71.6</u>	<u>3.16</u>
<u>17.5 gal</u>		<u>13:45</u>	<u>19.64</u>	<u>7.14</u>	<u>2.17</u>	<u>69.9</u>	<u>2.97</u>
<u>23 gal</u>		<u>13:55</u>	<u>19.67</u>	<u>7.14</u>	<u>2.16</u>	<u>69.3</u>	<u>2.81</u>
<u>25 gal</u>		<u>14:00</u>	<u>19.68</u>	<u>7.14</u>	<u>2.17</u>	<u>65.7</u>	<u>2.68</u>

Development Completed at 25 Gallons Discharged. Date: 8/19/2020 Time: 1400
 Personnel: RST + N. Storzmanel.

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



Tetra Tech EM Inc.

Sheet 1 of 1

WELL DEVELOPMENT DATA SHEET

BORING NO. _____

WELL NO. RFS-GW-B178

Project RFS FSW Phase I, GW.
 Project No. _____
 Date(s) of Installation 8/2/2010
 Date(s) of Development 8/19/2010
 Personnel/Company RSE

Casing Diameter/Type 2" PVC
 Borehole Diameter 8 1/4"
 Screened Interval(s) 4.5-14.5'
 Total Length of Well Casing 14.7'
 Measure Total Depth (TOC) Initial _____ Final _____

Type of Rig Used truck mounted

Initial Depth to Water (TOC) 5.2 Date 8/19/2010 Time 16:00
 Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT
 TECHNIQUE(S) _____ EQUIPMENT TYPE/CAPACITY _____

- Jetting (Airlift) _____
- Surge Block _____
- Bailing _____
- Pumping _____
- Other _____

PURGE VOLUME CALCULATION

Casing Volume: 8.8 Ft. of water
 x 1.43 Gallons/foot
 = 1.43 Gallons per Single Casing Volume
 Sand Pack Volume: 8.8 Ft. of Saturated Sand Pack
 x 3.3 Gallons/foot (borehole diameter)
 = 29.04 Gallons (in borehole)
 = 1.43 Gallons of Casing Volume
 = 27.161 X 0.3 (Assuming porosity = 30%)
 = 8.23 Gallons Within Sand Pack

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Single Purge Volume: 9.71 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 2.9 Gallons (Casing Vol. + Actual Purge Volume)
 Actual Purge Volume: 32 Gallons (Casing Vol. + Volume Measured by: volume of water in drum.)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~ 7 gal</u>		<u>16:20</u>	<u>18.64</u>	<u>7.81</u>	<u>2.64</u>	<u>5999</u>	<u>3.4A</u>
<u>2 13 gal</u>		<u>16:30</u>	<u>19.01</u>	<u>7.09</u>	<u>2.51</u>	<u>1166</u>	<u>0.74</u>
<u>2 19 gal</u>		<u>16:40</u>	<u>18.93</u>	<u>7.02</u>	<u>2.51</u>	<u>538</u>	<u>0.42</u>
<u>2 27 gal</u>		<u>16:50</u>	<u>18.88</u>	<u>6.99</u>	<u>2.51</u>	<u>31.5</u>	<u>0.31</u>
<u>2 32 gal</u>		<u>16:55</u>	<u>18.88</u>	<u>6.99</u>	<u>2.51</u>	<u>30.6</u>	<u>0.30</u>

Development Completed at 32 Gallons Discharged. Date: 8/19/2010 Time: 16:55

Personnel: RSE + N. Strunzand

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. Test pit 1

WELL NO. RFB-GW-Test Pit 1

Project FSW Phase I, GW.
Project No. _____
Date(s) of Installation 8/5/2010
Date(s) of Development 8/23/2010
Personnel/Company RSI
Type of Rig Used truck mounted.

Casing Diameter/Type 2" PVC
Borehole Diameter 8 3/4"
Screened Interval(s) ~~4.5-15.0~~ 7-17.
Total Length of Well Casing 14.5
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 15.5 Date 8/23/2010 Time 1540
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 2 Ft. of water
x 14.3 Gallons/Foot
= 28.6 Gallons per Single Casing Volume
Sand Pack Volume: 2 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 6.6 Gallons (in borehole)
- 1.3 Gallons of Casing Volume
= 5.3 X 0.3 (Assuming porosity = 30%)
= 1.6 Gallons Within Sand Pack
Single Purge Volume: 2.2 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 6.6 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 13 Gallons (Casing Vol. + Volume Measured by: depth of water in drum.)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: 0 Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
		1600	19.41	7.13	1.51	2000	1.65
<u>~4 gallons.</u>		1605	19.20	7.01	1.418	155	1.06
		1607	19.10	6.98	1.408	91.6	0.90
		1609	19.08	6.97	1.403	85.1	0.81
<u>~8 gallons</u>		1611	19.08	6.97	1.398	66.3	0.74
		1613	19.01	6.97	1.395	52.2	0.67
		1615	19.04	6.97	1.393	41.8	0.63
		1617	19.00	6.97	1.389	39.0	0.57
		1619	18.99	6.97	1.387	35.5	0.54
<u>~13 gallons</u>		1621	18.89	6.97	1.386	34.1	0.51

Development Completed at 13 Gallons Discharged. Date: 8/23/2010 Time: 16:22.

Personnel: C. Konic.

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. RFS-GW-B163

WELL NO. same

Project FSW phase I GW.
Project No. _____
Date(s) of Installation 7/26/2010
Date(s) of Development 8/16/2010
Personnel/Company RSI

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 7'-17'
Total Length of Well Casing 10'
Measure Total Depth (TOC) Initial _____
Final _____

Type of Rig Used Truck mounted.

Initial Depth to Water (TOC) 6'1" Date 8/16/2010 Time 9:50
Stabilized Depth to Water (TOC) 4'5" Date 8/16/2010 Time 10:15.

DEVELOPMENT

TECHNIQUE(S)	EQUIPMENT TYPE/CAPACITY
<input type="checkbox"/> Jetting (Airlift)	_____
<input checked="" type="checkbox"/> Surge Block	_____
<input checked="" type="checkbox"/> Bailing	<u>hand.</u>
<input checked="" type="checkbox"/> Pumping	_____
<input type="checkbox"/> Other	_____

PURGE VOLUME CALCULATION

Casing Volume: 11 Ft. of water
 x .163 Gallons/Foot
 = 1.8 Gallons per Single Casing Volume
 Sand Pack Volume: 11 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 36 Gallons (in borehole)
 - 2 Gallons of Casing Volume
 = 34 X 0.3 (Assuming porosity = 30%)
 = 10.2 Gallons Within Sand Pack
 Single Purge Volume: 12 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 36 Gallons (Casing Vol. + Actual Purge Volume: 53 Gallons (Casing Vol. + Volume Measured by: Vol. of Drum.)
 Rate of Development 3.75 Gallons/Minute (Hour, Day) (approx.)
 Pumping Rate/Depth @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: 0 Gallons
 Lost Purge Water: 0 Gallons
 Water During Installation: 0 Gallons
 Total Fluids Added: 0 Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp °C	pH	Specific* Conductance $\mu S/cm$	Turbidity (NTU)	(D.O., Clarity, Odor, PID Readings, Other: <u>mg/L</u>)
<u>≈ 15-20 gal.</u>	<u>3.75 gpm</u>	<u>9:40</u>	<u>18.24</u>	<u>5.95</u>	<u>3.64</u>	<u>2000</u>	<u>0.61</u>
		<u>9:45</u>	<u>18.24</u>	<u>5.96</u>	<u>3.60</u>	<u>2000</u>	<u>.46</u>
<u>≈ 25 gal.</u>		<u>9:48</u>	<u>18.23</u>	<u>5.95</u>	<u>3.59</u>	<u>1997</u>	<u>.31</u>
		<u>9:54</u>	<u>18.25</u>	<u>5.95</u>	<u>3.58</u>	<u>1144</u>	<u>.23</u>
<u>≈ 35 gal.</u>		<u>10:00</u>	<u>18.27</u>	<u>5.94</u>	<u>3.56</u>	<u>1000</u>	<u>.19</u>
		<u>10:02</u>	<u>18.27</u>	<u>5.96</u>	<u>3.56</u>	<u>767</u>	<u>.17</u>
		<u>10:04</u>	<u>18.30</u>	<u>5.96</u>	<u>3.55</u>	<u>576</u>	<u>.16</u>
<u>≈ 50 gal</u>		<u>10:08</u>	<u>18.31</u>	<u>5.94</u>	<u>3.55</u>	<u>427</u>	<u>.16</u>
		<u>10:10</u>	<u>18.35</u>	<u>5.96</u>	<u>3.56</u>	<u>445</u>	<u>.16</u>
<u>≈ 53 gal.</u>		<u>10:12</u>	<u>18.33</u>	<u>5.96</u>	<u>3.55</u>	<u>371</u>	<u>.16</u>

Development Completed at 53 Gallons Discharged. Date: 8/16/2010 Time: 10:15

Personnel: CFM

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. NRLF

WELL NO. _____

Project F&W Phase I GW.
 Project No. _____
 Date(s) of Installation 7/26/2020
 Date(s) of Development 8/26/2020
 Personnel/Company _____
 Type of Rig Used 125i truck mounted.

Casing Diameter/Type 2" PVC
 Borehole Diameter 8 1/4"
 Screened Interval(s) 9-191
 Total Length of Well Casing 191
 Measure Total Depth (TOC) Initial _____
 Final _____
 Initial Depth to Water (TOC) 14 Date 8/26/2020 Time 12:00
 Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 3 Ft. of water
 x .163 Gallons/Foot
 = .5 Gallons per Single Casing Volume
 Sand Pack Volume: 5.3 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 10 Gallons (in borehole)
 - .5 Gallons of Casing Volume
 = 9.5 X 0.3 (Assuming porosity = 30%)
 = 2.85 Gallons Within Sand Pack
 Single Purge Volume: 3.5 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 10.5 Gallons (Casing Vol. + Actual Purge Volume)
 Actual Purge Volume: 10 Gallons (Casing Vol. + Volume Measured by: depth of water in drum.)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: 0 Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>3 gallons</u>		<u>12:45</u>	<u>17.28</u>	<u>7.72</u>	<u>1.182</u>	<u>5999.</u>	<u>3.07</u>
		<u>12:55</u>	<u>17.02</u>	<u>7.75</u>	<u>.0.897</u>	<u>414</u>	<u>4.34</u>
<u>5 gallons</u>		<u>12:46</u>	<u>17.16</u>	<u>7.67</u>	<u>0.794</u>	<u>102</u>	<u>4.86</u>
		<u>12:56</u>	<u>17.16</u>	<u>7.63</u>	<u>0.769</u>	<u>25.4</u>	<u>5.30</u>
		<u>13:05</u>	<u>17.16</u>	<u>7.61</u>	<u>0.757</u>	<u>21.7</u>	<u>5.41</u>
		<u>13:17</u>	<u>17.24</u>	<u>7.61</u>	<u>0.750</u>	<u>28.2</u>	<u>5.47</u>
		<u>13:30</u>	<u>17.22</u>	<u>7.60</u>	<u>0.745</u>	<u>18.8</u>	<u>5.46</u>
<u>10 gallon</u>		<u>13:44</u>	<u>17.22</u>	<u>7.60</u>	<u>0.742</u>	<u>18.0</u>	<u>5.48</u>

Development Completed at 10 gallon Gallons Discharged. Date: 13:45 8/26/20 Time: 13:45
 Personnel: CFerlic

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

(Inch to sec - 1402.)



WELL DEVELOPMENT DATA SHEET

BORING NO. 113-GW-000003 WELL NO. _____

Project F&W Phase I, GW.
Project No. _____
Date(s) of Installation 7/27/2010
Date(s) of Development 8/16/2010
Personnel/Company RSI
Type of Rig Used _____

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 4-14' logs
Total Length of Well Casing 14'
Measure Total Depth (TOC) Initial _____
Final _____
Initial Depth to Water (TOC) 7'2" Date 8/16/2010 Time 10:36
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
Other _____

PURGE VOLUME CALCULATION

Casing Volume: 7 Ft. of water
x .163 Gallons/foot
= 1.15 Gallons per Single Casing Volume
Sand Pack Volume: 7 Ft. of Saturated Sand Pack
x 3.3 Gallons/foot (borehole diameter)
= 23.1 Gallons (in borehole)
- 1.1 Gallons of Casing Volume
= 22 X 0.3 (Assuming porosity = 30%)
= 6.6 Gallons Within Sand Pack
Single Purge Volume: 7.75 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 23.25 Gallons (Casing Vol. + Actual Purge Volume: 27 Gallons (Casing Vol. + Volume Measured by: draw volume)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>15-10 gallons</u>		<u>13:13</u>	<u>20.02</u>	<u>7.76</u>	<u>1.22</u>	<u>1140</u>	<u>4.35</u>
		<u>13:16</u>	<u>18.75</u>	<u>7.75</u>	<u>1.35</u>	<u>773</u>	<u>5.6</u>
		<u>13:20</u>	<u>18.45</u>	<u>7.87</u>	<u>1.37</u>	<u>324</u>	<u>5.72</u>
		<u>8:05</u>	<u>17.47</u>	<u>7.88</u>	<u>1.28</u>	<u>91.0</u>	<u>5.59</u>
		<u>8:10</u>	<u>17.32</u>	<u>8.10</u>	<u>1.406</u>	<u>48.3</u>	<u>4.65</u>
		<u>8:15</u>	<u>17.18</u>	<u>8.02</u>	<u>1.27</u>	<u>47.8</u>	<u>4.27</u>
		<u>8:20</u>	<u>17.08</u>	<u>7.89</u>	<u>1.28</u>	<u>31.5</u>	<u>3.73</u>
		<u>8:35</u>	<u>17.01</u>	<u>7.54</u>	<u>1.18</u>	<u>19.0</u>	<u>2.30</u>
<u>21 gallons</u>		<u>8:45</u>	<u>16.96</u>	<u>7.46</u>	<u>1.16</u>	<u>15.8</u>	<u>1.85</u>
		<u>10:55</u>	<u>17.33</u>	<u>7.27</u>	<u>1.12</u>	<u>240</u>	<u>4.76</u>

8/17/2010 (Impurities = 2 gal / 45 min)

Development Completed at 27 Gallons Discharged. Date: 8/17/10 Time: 11:40

Personnel: Sara Weller of RSI

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

<u>11:00</u>	<u>18.03</u>	<u>7.55</u>	<u>1.18</u>	<u>165</u>	<u>4.23</u>
<u>11:05</u>	<u>18.11</u>	<u>7.64</u>	<u>1.18</u>	<u>103</u>	<u>4.18</u>
<u>11:10</u>	<u>18.08</u>	<u>7.63</u>	<u>1.19</u>	<u>78.1</u>	<u>3.64</u>
<u>11:15</u>	<u>18.30</u>	<u>7.69</u>	<u>1.28</u>	<u>57.9</u>	<u>3.06</u>
<u>11:25</u>	<u>18.45</u>	<u>7.53</u>	<u>1.24</u>	<u>25.5</u>	<u>2.34</u>
<u>11:35</u>	<u>18.75</u>	<u>7.45</u>	<u>1.19</u>	<u>19.7</u>	<u>1.71</u>

CVER

	Time	Temp	pH	SC	Acids	DO
~ 27gall	11:40	19.23	7.4	1.12	18.7	1.32



WELL DEVELOPMENT DATA SHEET

BORING NO. 11FS-6W-CLCove 2 WELL NO. _____

Project Fsw phase I GW.
Project No. _____
Date(s) of Installation 7/27/2020
Date(s) of Development 8/16/2020
Personnel/Company 1281
Type of Rig Used _____

Casing Diameter/Type 2" PVC
Borehole Diameter 2 3/4"
Screened Interval(s) 4-14'
Total Length of Well Casing 14' 4"
Measure Total Depth (TOC) Initial _____
Final _____
Initial Depth to Water (TOC) 9' 6" Date 8/16/2020 Time 13:45.
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT EQUIPMENT TYPE/CAPACITY
TECHNIQUE(S)
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
Other _____

PURGE VOLUME CALCULATION
Casing Volume: 5 Ft. of water
x .163 Gallons/Foot
= .815 Gallons per Single Casing Volume
Sand Pack Volume: 5 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 16.5 Gallons (in borehole)
- 15.7 Gallons of Casing Volume
= 0.8 X 0.3 (Assuming porosity = 30%)
= 0.24 Gallons Within Sand Pack
Single Purge Volume: 5.52 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 16.5 Gallons (Casing Vol. + Actual Purge Volume: 0.19 Gallons (Casing Vol. + Volume Measured by: drum volume.
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: X N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	DO, Clarity, Odor, PID Readings, Other:
		1420	17.85°	7.19	1.38	2000	5.36
		1424	17.60°	7.29	1.32	789	2.12
		1427	17.47°	7.25	1.25	445	1.34
		1430	17.65°	7.21	1.21	206	6.92
		1435	17.67°	7.18	1.17	91.7	0.72
		1440	17.40°	7.16	1.13	68.7	0.59
		1444	17.56°	7.15	1.11	66.9	0.52
		1448	17.56°	7.14	1.08	57.4	0.48
		1454	17.66°	7.13	1.06	17.1	0.44
2 19 galls		1458	17.42	7.12	1.05	12.4	0.44

Development Completed at 17 Gallons Discharged. Date: 8/16/2020 Time: 1500
Personnel: CFE/HC

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

pump rate:
14 sec. = 20 oz.



WELL DEVELOPMENT DATA SHEET

BORING NO. RTS-6W-CC(Con) WELL NO. Five

Project FSW phase I GW
Project No. _____
Date(s) of Installation 7/27/10
Date(s) of Development 8/18/10
Personnel/Company RST

Casing Diameter/Type 2"
Borehole Diameter 2 1/4"
Screened Interval(s) 35-133'
Total Length of Well Casing 133'
Measure Total Depth (TOC) Initial _____
Final _____

Type of Rig Used _____

Initial Depth to Water (TOC) 10' Date 8/18/10 Time 09:30
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 5.3 Ft. of water
x 0.163 Gallons/Foot
= 0.859 Gallons per Single Casing Volume
Sand Pack Volume: 3.3 Ft. of Saturated Sand Pack (277)
x 3.3 Gallons/Foot (borehole diameter)
= 10.89 Gallons (in borehole)
- 0.54 Gallons of Casing Volume
= 10.35 X 0.3 (Assuming porosity = 30%)
= 3.105 Gallons Within Sand Pack
Single Purge Volume: 3.645 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 10 Gallons (Casing Vol. + Actual Purge Volume: 11.5 Gallons (Casing Vol. + Volume Measured by: Jam Volume)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~ 2 gal</u>	<u>2 1/4"/min</u>	<u>9:55</u>	<u>17.47</u>	<u>7.81</u>	<u>1.000</u>	<u>5999</u>	<u>264</u>
<u>~ 4 gal DRY</u>	<u>1 1/4"/min</u>	<u>10:05</u>					
<u>~ 4 gal</u>	<u>DRY</u>	<u>10:07</u>	<u>- worked 20 minutes to restart</u>				
	<u>1 1/4"/min</u>	<u>10:35</u>	<u>17.70</u>	<u>7.84</u>	<u>0.841</u>	<u>359</u>	<u>5.47</u>
<u>~ 6 gal</u>	<u>~ 1 1/4"/min</u>	<u>10:35</u>	<u>17.69</u>	<u>7.71</u>	<u>0.814</u>	<u>182</u>	<u>3.76</u>
<u>~ 8 gal</u>	<u>~ 1 1/4"/min</u>	<u>10:48</u>	<u>17.95</u>	<u>7.65</u>	<u>0.871</u>	<u>269</u>	<u>3.96</u>
<u>~ 9.5 gal</u>	<u>~ 0.5 1/4"/min</u>	<u>10:55</u>	<u>18.06</u>	<u>7.66</u>	<u>0.873</u>	<u>118</u>	<u>4.37</u>
<u>~ 10 gal</u>	<u>~ 0.5 1/4"/min</u>	<u>11:05</u>	<u>18.15</u>	<u>7.64</u>	<u>0.848</u>	<u>188</u>	<u>4.50</u>
<u>~ 10.5</u>	<u>~ 0.5 1/4"/min</u>	<u>11:10</u>	<u>18.28</u>	<u>7.64</u>	<u>0.821</u>	<u>312</u>	<u>4.57</u>
<u>~ 11 gal</u>	<u>~ 0.5 1/4"/min</u>	<u>11:15</u>	<u>18.33</u>	<u>7.64</u>	<u>0.826</u>	<u>234</u>	<u>4.55</u>

Development Completed at 11.5 Gallons Discharged. Date: 8/18/10 Time: 11:20

Personnel: Nathan Stinson + RST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

11.5 gal 0.5 1/4" 11:20 18.36 7.63 0.821 24.9 4.55



Tetra Tech EM Inc.

Sheet 1 of 1

WELL DEVELOPMENT DATA SHEET

BORING NO. RFS-6W-Dryhase WELL NO. _____

Project FSW phase I, GW
Project No.
Date(s) of Installation 7/27/10
Date(s) of Development 8/18/10
Personnel/Company RSE
Type of Rig Used

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 3.5' - 13.5'
Total Length of Well Casing
Measure Total Depth (TOC) Initial Final
Initial Depth to Water (TOC) 9.8' Date 8/18/10 Time 14:50
Stabilized Depth to Water (TOC) Date Time

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
Jetting (Airlift)
Surge Block
Bailing
Pumping
Other

PURGE VOLUME CALCULATION
Casing Volume: 3.7 Ft. of water
x 0.163 Gallons/foot
= 0.60 Gallons per Single Casing Volume
Sand Pack Volume: 3.7 Ft. of Saturated Sand Pack
x 3.3 Gallons/foot (borehole diameter)
= 12.21 Gallons (in borehole)
- 0.60 Gallons of Casing Volume
= 11.61 X 0.3 (Assuming porosity = 30%)
= 3.48 Gallons Within Sand Pack
Single Purge Volume: 4.08 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 12 Gallons (Casing Vol. + Actual Purge Volume: 13 Gallons (Casing Vol. + Volume Measured by: Down Volume)
Rate of Development Gallons/Minute (Hour, Day)
Pumping Rate/Depth @ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness

FLUIDS ADDED
Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 4 Gallons
Total Fluids Added: 4 Gallons
Source of Added Water:
Sample Collected of Added Water: Y N
Sample Designation of Added Water:

Development Criteria:

Table with 8 columns: Total Volume Discharge, Rate of Discharge, Time, Temp, pH, Specific* Conductance, Turbidity (NTU), D.O., Clarity, Odor, PID Readings, Other. Contains handwritten data for multiple pumping events.

Development Completed at 13 Gallons Discharged. Date: 8/27/10 Time: 09:50
Personnel: Nathan Stomitz + RSE

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. R3-6W-WTA WELL NO. 5MM6

Project F&W phase I, GW.
Project No. _____
Date(s) of Installation 7/27/10
Date(s) of Development 8/18/10
Personnel/Company RSE
Type of Rig Used _____

Casing Diameter/Type 2" PVC
Borehole Diameter 8.54"
Screened Interval(s) 3.5' - 13.5'
Total Length of Well Casing 13.5'
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 6.1' Date 8/18/10 Time 16:00
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

- Jetting (Airlift) _____
- Surge Block _____
- Bailing _____
- Pumping _____
- Other _____

PURGE VOLUME CALCULATION

Casing Volume: 74 Ft. of water
x 0.163 Gallons/Foot
= 12.1 Gallons per Single Casing Volume
Sand Pack Volume: 74 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 244.2 Gallons (in borehole)
- 232.1 Gallons of Casing Volume
= 23.21 X 0.3 (Assuming porosity = 30%)
= 6.96 Gallons Within Sand Pack
Single Purge Volume: 8.17 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 25 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 28 Gallons (Casing Vol. + Volume Measured by: Sum Volume)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: 0
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~5 gallons</u>	<u>~2.5 gpm</u>	<u>16:25</u>	<u>16.81</u>	<u>7.76</u>	<u>2.69</u>	<u>5999</u>	<u>2.19</u>
<u>~11 gallons</u>		<u>16:35</u>	<u>16.87</u>	<u>7.56</u>	<u>2.28</u>	<u>2000</u>	<u>3.55</u>
<u>~16 gallons</u>		<u>16:45</u>	<u>16.76</u>	<u>7.51</u>	<u>2.09</u>	<u>331</u>	<u>4.18</u>
<u>~19.5 gal</u>		<u>16:55</u>					
<u>~23 gallons</u>	<u>~2.5-3</u>	<u>17:05</u>	<u>16.68</u>	<u>7.49</u>	<u>1.93</u>	<u>80.5</u>	<u>3.74</u>
<u>~27 gallons</u>		<u>17:10</u>	<u>16.56</u>	<u>7.48</u>	<u>1.94</u>	<u>53.2</u>	<u>3.82</u>
<u>~28 gallons</u>		<u>17:15</u>	<u>16.52</u>	<u>7.47</u>	<u>1.93</u>	<u>51.4</u>	<u>3.72</u>

Development Completed at 28 gallons Gallons Discharged. Date: 8/18/10 Time: 17:15
Personnel: RSE & Northern

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. RFS-66-075 with WELL NO. 500

Project FSW phase I GW
Project No. _____
Date(s) of Installation 1/28/10
Date(s) of Development 8/19/10 - 9/21/2010
Personnel/Company _____
Type of Rig Used RSE

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 4-14'
Total Length of Well Casing 14.1'
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 10' Date 8/19/10 Time 09:10
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT
TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
Jetting (Airlift) _____
Surge Block Hand
Bailing Hand
Pumping _____
Other _____

PURGE VOLUME CALCULATION
Casing Volume: 21 Ft. of water
x 0.163 Gallons/Foot
= 0.34 Gallons per Single Casing Volume
Sand Pack Volume: 2.1 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 6.93 Gallons (in borehole)
- 0.34 Gallons of Casing Volume
= 6.59 X 0.3 (Assuming porosity = 30%)
= 1.98 Gallons Within Sand Pack
Single Purge Volume: 2.32 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 7 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 7 Gallons (Casing Vol. + Volume Measured by: volume in 5 gallon buckets)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
	<u>~ 2 Gpm</u>	<u>09:30</u>	<u>16.13</u>	<u>7.82</u>	<u>299</u>	<u>599</u>	<u>6.71</u>
<u>~ 1 gallon</u>	<u>DRY</u>	<u>09:32</u>	<u>- recharge meter @ 1/10 foot</u>				
<u>~ 1.5 gallon</u>	<u>DRY</u>	<u>10:20</u>	<u>18.26</u>	<u>7.50</u>	<u>295</u>		<u>4.92</u>
<u>11.25 gallon</u>	<u>DRY</u>	<u>14:35</u>	<u>19.23</u>	<u>7.72</u>	<u>2.58</u>		<u>5.75</u>
<u>3.0 gallon</u>	<u>DRY</u>	<u>8 AM (2 gallon)</u>	<u>17:10</u>	<u>17.2 gallon</u>			
<u>3.5 gallons</u>		<u>17:20</u>	<u>20.42</u>	<u>7.35</u>	<u>2.46</u>	<u>277</u>	<u>3.35</u>
<u>4 gallons</u>	<u>DRY</u>	<u>09:25</u>	<u>- pump 0.5 gallons</u>				
<u>4.5 gall.</u>	<u>DRY</u>	<u>10:15</u>					
<u>1.5 gall.</u>		<u>8:10</u>	<u>10.11</u>	<u>7.09</u>	<u>2.22</u>	<u>316</u>	<u>3.15</u>
<u>5 gall.</u>		<u>8:12</u>	<u>16.06</u>	<u>7.00</u>	<u>2.22</u>	<u>311</u>	<u>3.25</u>

Development Completed at 7 Gallons Discharged. Date: 9/2/10 Time: 09:20

Personnel: Nathan Stanton + RSE

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

9/11/2010 ~ 5.5
 13:20 18.21 7.12 2.19 37.4 2.14
 16:24 18.10 7.13 2.21 24.0 4.41
 13:26 18.17 7.09 2.19 24.5 3.72
 13:28 -> DRY.
 9/2 ~ 6.5 gall.
 ~ 7 gal 09:20 12.62 7.12 2.13 24.2 3.19



WELL DEVELOPMENT DATA SHEET

BORING NO. MFA

WELL NO. DFS-GW-MFA

Project FSW, Phase I GW
Project No. _____
Date(s) of Installation 2/28/2010
Date(s) of Development 8/2/10
Personnel/Company _____
Type of Rig Used 281

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) _____
Total Length of Well Casing _____
Measure Total Depth (TOC) 14'
Initial _____
Final _____
Initial Depth to Water (TOC) 4.6' Date 8/2/10 Time 14:00:05
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 94 Ft. of water
x 0.163 Gallons/Foot
= 1.53 Gallons per Single Casing Volume
Sand Pack Volume: 84 Ft. of Saturated Sand Pack
x 83 Gallons/Foot (borehole diameter)
= 707 Gallons (in borehole)
- 1.53 Gallons of Casing Volume
= 705 X 0.3 (Assuming porosity = 30%)
= 211.5 Gallons Within Sand Pack
Single Purge Volume: 10.38 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 31 Gallons (Casing Vol. + Actual Purge Volume: 37 Gallons (Casing Vol. + Volume Measured by: volume in drum)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~ 6 gal</u>		<u>11:30</u>	<u>22.98</u>	<u>7.89</u>	<u>1.27</u>	<u>599</u>	<u>3.60</u>
		<u>11:40</u>	<u>19.50</u>	<u>7.41</u>	<u>1.366</u>	<u>1988</u>	<u>.35</u>
		<u>11:50</u>	<u>19.38</u>	<u>7.40</u>	<u>1.360</u>	<u>1150</u>	<u>.27</u>
		<u>12:00</u>	<u>19.23</u>	<u>7.41</u>	<u>1.353</u>	<u>603</u>	<u>.17</u>
		<u>12:10</u>	<u>19.08</u>	<u>7.40</u>	<u>1.351</u>	<u>395</u>	<u>.14</u>
		<u>12:20</u>	<u>19.22</u>	<u>7.40</u>	<u>1.350</u>	<u>195</u>	<u>.12</u>
		<u>12:30</u>	<u>19.20</u>	<u>7.40</u>	<u>1.349</u>	<u>104</u>	<u>.10</u>
		<u>12:40</u>	<u>19.34</u>	<u>7.40</u>	<u>1.348</u>	<u>48.5</u>	<u>.09</u>
<u>~ 57 gal</u>		<u>12:50</u>	<u>19.37</u>	<u>7.40</u>	<u>1.349</u>	<u>50.1</u>	<u>.09</u>

Development Completed at 37 Gallons Discharged. Date: 8/2/10 Time: 15:00
Personnel: N Stinson + RST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



Tetra Tech EM Inc.

Sheet 1 of 1

WELL DEVELOPMENT DATA SHEET

BORING NO. RF5-6W-ETA

WELL NO. _____

Project F&W Phase I, GW
Project No. _____
Date(s) of Installation 7/28/2010
Date(s) of Development 9/2/10
Personnel/Company RTI

Casing Diameter/Type 2" RC
Borehole Diameter 8 1/4"
Screened Interval(s) _____
Total Length of Well Casing 136'
Measure Total Depth (TOC) Initial _____
Final _____

Type of Rig Used _____

Initial Depth to Water (TOC) 9.1 Date 9/2/10 Time 09:55
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 9.5 Ft. of water
x 0.163 Gallons/Foot
= 1.55 Gallons per Single Casing Volume
Sand Pack Volume: 9.5 Ft. of Saturated Sand Pack
x 3.5 Gallons/Foot (borehole diameter)
= 33.25 Gallons (in borehole)
- 28.75 Gallons of Casing Volume
= 4.50 X 0.3 (Assuming porosity = 30%)
= 1.35 Gallons Within Sand Pack
Single Purge Volume: 10.49 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Minimum Purge Volume: 32 Gallons (Casing Vol. + Actual Purge Volume)
Volume Measured by: _____
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
~ 2.5 gal	~ 8 gpm	10:40	19.59	7.98	209	5999	6.65
~ 3 gal	~ 8 gpm	10:50					
~ 3.8 gal	slow	13:30	18.77	7.38	1.78	5999	3.27
5.9 gal	slow	13:40	18.71	7.23	1.84	2000	1.00
~ 10.5 gal	slow	14:05	18.70	7.19	1.79	5999	0.52
~ 16 gal	slow	14:40	18.43	7.33	1.75	349	3.53
~ 18 gal	slow	14:50	18.61	7.22	1.73	588	4.06
22 gal	slow	15:15	18.72	7.23	1.73	150	3.89
25 gal	slow	15:30	18.67	7.24	1.74	195	3.90
	slow	15:45	18.68	7.26	1.73	126	3.95

Development Completed at 32 Gallons Discharged. Date: 9/2/10 Time: 16:20

Personnel: Mike Samra + RST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. RF5-6W-8078 WELL NO. same

Project FOR Phaset, GW.
Project No. _____
Date(s) of Installation 7/29/10
Date(s) of Development 8/18/10
Personnel/Company RSE
Type of Rig Used _____

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 6-16'
Total Length of Well Casing 16.5'
Measure Total Depth (TOC) Initial _____
Final _____
Initial Depth to Water (TOC) 9.1 Date 8/18/10 Time 13:20
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT
TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
Other _____

PURGE VOLUME CALCULATION
Casing Volume: 7.2 Ft. of water
x 0.163 Gallons/Foot
= 1.17 Gallons per Single Casing Volume
Sand Pack Volume: 7.2 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 23.76 Gallons (in borehole)
- 1.17 Gallons of Casing Volume
= 22.59 X 0.3 (Assuming porosity = 30%)
= 6.78 Gallons Within Sand Pack
Single Purge Volume: 7.95 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 24 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 26 Gallons (Casing Vol. + Volume Measured by: sum volume 0.1 ft = 208 gal)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: 0
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~ 5 gallons</u>	<u>~ 2.5 gpm</u>	<u>13:50</u>	<u>18.82</u>	<u>6.96</u>	<u>3.82</u>	<u>5999</u>	<u>3.57</u>
<u>~ 14 gallons</u>	<u>~ 2 gpm</u>	<u>14:00</u>	<u>18.57</u>	<u>6.97</u>	<u>3.86</u>	<u>3999</u>	<u>0.66</u>
<u>~ 16.5 gallons</u>	<u>~ 2.5 gpm</u>	<u>14:10</u>	<u>18.32</u>	<u>6.98</u>	<u>3.87</u>	<u>5999</u>	<u>0.68</u>
<u>~ 22 gallons</u>		<u>14:25</u>	<u>18.25</u>	<u>7.00</u>	<u>3.87</u>	<u>2000</u>	<u>1.13</u>
<u>~ 24 gallons</u>	<u>~ 2.5 gpm</u>	<u>14:30</u>	<u>18.23</u>	<u>7.01</u>	<u>3.87</u>	<u>1583</u>	<u>1.18</u>
<u>~ 26 gallons</u>		<u>14:35</u>	<u>18.22</u>	<u>7.01</u>	<u>3.86</u>	<u>1089</u>	<u>1.20</u>

Development Completed at 26 Gallons Discharged. Date: 8/18/10 Time: 14:35
Personnel: Nathan Swanson + RSE

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. FS-66W-B077 WELL NO. Sun

Project F&W phase I, EW.
Project No. _____
Date(s) of Installation 7/29/10
Date(s) of Development 8/19/10
Personnel/Company RSI
Type of Rig Used truck mount

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 7'-17'
Total Length of Well Casing 16.7'
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 10.4' Date 8/19/10 Time 10:50
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT
TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 6.3 Ft. of water
x 0.163 Gallons/Foot
= 1.03 Gallons per Single Casing Volume
Sand Pack Volume: 6.3 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 20.79 Gallons (in borehole)
- 1.03 Gallons of Casing Volume
= 19.76 X 0.3 (Assuming porosity = 30%)
= 5.93 Gallons Within Sand Pack
Single Purge Volume: 6.96 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 25 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 25 Gallons (Casing Vol. + Volume Measured by: draw volume)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: 0
Sample Collected of Added Water: 0 Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~5 gallons</u>	<u>~3 1/2 m</u>	<u>11:20</u>	<u>18.92</u>	<u>7.81</u>	<u>0.847</u>	<u>5999</u>	<u>2.63</u>
		<u>11:25</u>	<u>17.86</u>	<u>7.77</u>	<u>0.799</u>	<u>657</u>	<u>1.93</u>
<u>~11 gallons</u>	<u>~2.5 1/2 m</u>	<u>11:30</u>	<u>17.79</u>	<u>7.78</u>	<u>0.795</u>	<u>146</u>	<u>1.62</u>
<u>~17.5 gallons</u>	<u>~2.5 1/2 m</u>	<u>11:35</u>	<u>17.76</u>	<u>7.78</u>	<u>0.792</u>	<u>65.7</u>	<u>1.52</u>
<u>~17.5 gallons</u>	<u>~2.5 1/2 m</u>	<u>11:40</u>	<u>17.20</u>	<u>7.79</u>	<u>0.791</u>	<u>56.8</u>	<u>1.43</u>
<u>~25 gallons</u>	<u>~2.5 1/2 m</u>	<u>11:45</u>	<u>17.68</u>	<u>7.79</u>	<u>0.788</u>	<u>27.5</u>	<u>1.25</u>
<u>~25 gallons</u>		<u>11:50</u>	<u>17.67</u>	<u>7.79</u>	<u>0.788</u>	<u>27.6</u>	<u>1.15</u>

Development Completed at 25 Gallons Discharged. Date: 8/19/10 Time: 11:50
Personnel: Nathan Samson + RSI

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. B300

WELL NO. RFS-GW-B300

Project FSW Phase I GW.
 Project No. _____
 Date(s) of Installation 7/29/2020
 Date(s) of Development 8/24/2020
 Personnel/Company RSI
 Type of Rig Used truck mount.

Casing Diameter/Type 2" PVC
 Borehole Diameter 874"
 Screened Interval(s) 7-17
 Total Length of Well Casing 17.5
 Measure Total Depth (TOC) Initial _____
 Final _____
 Initial Depth to Water (TOC) 11.4 Date 8/24 Time 15:00
 Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT
 EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 5.9 Ft. of water
 x .143 Gallons/Foot
 = .94 Gallons per Single Casing Volume
 Sand Pack Volume: 5.9 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 19.5 Gallons (in borehole)
 - 18.5 Gallons of Casing Volume
 = 5.55 X 0.3 (Assuming porosity = 30%)
 = 6.5 Gallons Within Sand Pack
 Single Purge Volume: 6.5 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 20 Gallons (Casing Vol. + Actual Purge Volume: 21 Gallons (Casing Vol. + Volume Measured by: depth of water in column.
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>≈ 79 gallons</u>		15:02	20.84	7.14	3.00	5999	1.93
		15:06	18.68	7.18	3.00	5999	0.22
		15:10	19.36	7.25	2.30	2000	1.17
		15:15	19.58	7.27	2.11	833	1.26
<u>≈ 14 gallons</u>		15:20	19.94	7.29	1.95	587	1.12
		15:25	19.77	7.32	1.88	782	1.13
		15:34	19.32	7.32	1.87	458	0.78
<u>≈ 15 gallons</u>		15:45	19.75	7.35	1.81	327	1.24
		16:05	20.21	7.36	1.76	165	0.57
<u>≈ 18 gallons</u>		16:27	20.02	7.38	1.74	835	0.53

Development Completed at 21 Gallons Discharged. Date: 8/24/2020 Time: 1645

Personnel: C. Ferriz

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

≈ 21 gallons

16:30	19.98	7.38	1.73	205	0.50
16:35	20.20	7.38	1.72	217	0.46
16:40	20.04	7.38	1.72	144	0.44
16:42	20.15	7.38	1.70	170	0.44



Tetra Tech EM Inc.

Sheet 1 of 1

WELL DEVELOPMENT DATA SHEET

BORING NO. RFS-GW-B280A WELL NO. one

Project FSN Phase I, GW
Project No.
Date(s) of Installation 7/29/10
Date(s) of Development 8/19/10
Personnel/Company RSI
Type of Rig Used

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 4'-14'
Total Length of Well Casing 13.8'
Measure Total Depth (TOC) Initial Final
Initial Depth to Water (TOC) 11' Date 8/19/10 Time 09:50
Stabilized Depth to Water (TOC) Date Time

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

Jetting (Airlift)
Surge Block
Bailing
Pumping
Other

PURGE VOLUME CALCULATION

Casing Volume: 2.8 Ft. of water
x 0.163 Gallons/Foot
= 0.46 Gallons per Single Casing Volume
Sand Pack Volume: 28 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 9.24 Gallons (in borehole)
- 0.46 Gallons of Casing Volume
= 8.78 X 0.3 (Assuming porosity = 30%)
= 2.63 Gallons Within Sand Pack
Single Purge Volume: 3.09 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 10 Gallons (Casing Vol. + Actual Purge Volume: 13 Gallons (Casing Vol. + Volume Measured by: Dam Volume)
Rate of Development Gallons/Minute (Hour, Day)
Pumping Rate/Depth @ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness

FLUIDS ADDED

Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water:
Sample Collected of Added Water: Y N
Sample Designation of Added Water:

Development Criteria:

Table with 8 columns: Total Volume Discharge, Rate of Discharge, Time, Temp, pH, Specific* Conductance, Turbidity (NTU), D.O., Clarity, Odor, PID Readings, Other. Contains 10 rows of data.

Development Completed at 13 Gallons Discharged. Date: 8/19/10 Time: 10:35
Personnel: Nathan Samard + RSI

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. CIP-deep

WELL NO. _____

Project FSW Phase I, GW
 Project No. _____
 Date(s) of Installation 8/12/2010
 Date(s) of Development 8/26 + 8/27/10
 Personnel/Company RST
 Type of Rig Used _____

Casing Diameter/Type 2" PVC
 Borehole Diameter 1 3/4"
 Screened Interval(s) 30-40'
 Total Length of Well Casing 40.6
 Measure Total Depth (TOC) Initial _____ Final _____
 Initial Depth to Water (TOC) 12.4' Date 8/26/2010 Time 17:00
 Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
 Casing Volume: 28.2 Ft. of water
 x 1.163 Gallons/Foot
 = 4.4 Gallons per Single Casing Volume
 Sand Pack Volume: 12 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 39.6 Gallons (in borehole)
 - 2 Gallons of Casing Volume
 = 37.6 X 0.3 (Assuming porosity = 30%)
 = 11.3 Gallons Within Sand Pack
 Single Purge Volume: 15.8 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 47 Gallons (Casing Vol. + Actual Purge Volume)
 Actual Purge Volume: 47 Gallons (Casing Vol. + Volume Measured by: volume of water in drum)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
 Lost Drilling Fluid: 0 Gallons
 Lost Purge Water: 0 Gallons
 Water During Installation: 0 Gallons
 Total Fluids Added: 0 Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Development Criteria: _____

8/27

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O. Clarity, Odor, PID Readings, Other:
<u>19 gall.</u>	<u>175 gal/min</u>	<u>17:00</u>	<u>16.56</u>	<u>7.26</u>	<u>1.255</u>	<u>5999</u>	<u>1.72</u>
<u>16 gall</u>		<u>17:10</u>	<u>16.52</u>	<u>8.01</u>	<u>0.963</u>	<u>2000</u>	<u>0.65</u>
<u>20 gall</u>		<u>17:15</u>	<u>16.51</u>	<u>8.03</u>	<u>0.945</u>	<u>2000</u>	<u>2.99</u>
<u>25 gall.</u>		<u>17:20</u>				<u>2000</u>	
<u>25 gal</u>		<u>08:15</u>	<u>16.37</u>	<u>8.05</u>	<u>0.864</u>	<u>2000</u>	<u>2.48</u>
<u>37 gal</u>		<u>08:25</u>	<u>16.50</u>	<u>8.38</u>	<u>0.863</u>	<u>5999</u>	<u>0.35</u>
<u>40 gal</u>		<u>08:40</u>	<u>16.56</u>	<u>8.59</u>	<u>0.890</u>	<u>5999</u>	<u>2.31</u>
		<u>08:50</u>	<u>16.57</u>	<u>8.57</u>	<u>0.918</u>	<u>2000</u>	<u>7.11</u>
<u>46 gal</u>		<u>09:05</u>	<u>16.68</u>	<u>8.33</u>	<u>0.912</u>	<u>350</u>	<u>6.98</u>
<u>47 gal</u>		<u>09:10</u>	<u>16.70</u>	<u>8.32</u>	<u>0.911</u>	<u>288</u>	<u>6.99</u>

Development Completed at 47 gal Gallons Discharged. Date: 8/27/10 Time: 09:10
 Personnel: Nathan Starnes + RST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. ETP

WELL NO. PFS-GW-CTP

Project FSW Phase I, GW
Project No. _____
Date(s) of Installation 7/30/2010
Date(s) of Development 8/26/2010
Personnel/Company KSi
Type of Rig Used truck mounted

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 8-18"
Total Length of Well Casing 10
Measure Total Depth (TOC) Initial _____
Final _____
Initial Depth to Water (TOC) 12.8 Date 8/26/2010 Time 15:25
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
Other _____

PURGE VOLUME CALCULATION

Casing Volume: 5.2 Ft. of water
x .103 Gallons/foot
= .85 Gallons per Single Casing Volume
Sand Pack Volume: 5.2 Ft. of Saturated Sand Pack
x 3.3 Gallons/foot (borehole diameter)
= 17.16 Gallons (in borehole)
- .85 Gallons of Casing Volume
= 16.6 X 0.3 (Assuming porosity = 30%)
= 4.9 Gallons Within Sand Pack
Single Purge Volume: 5.7 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 17.2 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Actual Purge Volume: 20 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Volume Measured by: depth of water in drum
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>4 gallons</u>		<u>15:28</u>	<u>16.43</u>	<u>7.54</u>	<u>1.022</u>	<u>2000</u>	<u>3.35</u>
		<u>15:40</u>	<u>16.56</u>	<u>7.60</u>	<u>0.994</u>	<u>403</u>	<u>3.46</u>
		<u>15:52</u>	<u>16.45</u>	<u>7.59</u>	<u>0.951</u>	<u>77.8</u>	<u>3.52</u>
		<u>15:59</u>	<u>16.41</u>	<u>7.59</u>	<u>0.940</u>	<u>48.8</u>	<u>3.55</u>
<u>15 gallon</u>		<u>16:02</u>	<u>16.40</u>	<u>7.58</u>	<u>0.936</u>	<u>35.0</u>	<u>3.56</u>
		<u>16:05</u>	<u>16.38</u>	<u>7.58</u>	<u>0.934</u>	<u>32.8</u>	<u>3.59</u>
		<u>16:08</u>	<u>16.40</u>	<u>7.58</u>	<u>0.935</u>	<u>32.1</u>	<u>3.60</u>
		<u>16:11</u>	<u>16.37</u>	<u>7.58</u>	<u>0.927</u>	<u>29.7</u>	<u>3.62</u>
		<u>16:14</u>	<u>16.36</u>	<u>7.58</u>	<u>0.927</u>	<u>29.2</u>	<u>3.63</u>
<u>20 gallons</u>		<u>16:16</u>	<u>16.38</u>	<u>7.58</u>	<u>0.926</u>	<u>36.6</u>	<u>3.64</u>

Development Completed at 20 gallons Gallons Discharged. Date: 8/26/2010 Time: 16:17
Personnel: CFELW

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

rate.
(1402 → 20 sec.)



WELL DEVELOPMENT DATA SHEET

BORING NO. 1FS-GW-D19A

WELL NO. _____

Project FSW Phase I, GW
Project No. _____
Date(s) of Installation 7/20/2010
Date(s) of Development 8/23/2010
Personnel/Company RSI

Casing Diameter/Type 2" PVC
Borehole Diameter 8 3/4"
Screened Interval(s) 7.5-17.5 ft.
Total Length of Well Casing 17.5
Measure Total Depth (TOC) Initial _____
Final _____

Type of Rig Used truck mounted

Initial Depth to Water (TOC) 11.2 ft. Date 8/23/2010 Time 10:00
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT

TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 6.3 Ft. of water
x 1.03 Gallons/Foot
= 6.5 Gallons per Single Casing Volume
Sand Pack Volume: 6.3 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 20.8 Gallons (in borehole)
- 1.03 Gallons of Casing Volume
= 19.7 X 0.3 (Assuming porosity = 30%)
= 5.9 Gallons Within Sand Pack

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Single Purge Volume: 7.0 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 21 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Actual Purge Volume: 234 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Volume Measured by: amount of water in drum
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	(D.O., Clarity, Odor, PID Readings, Other:
<u>5 gallons</u>		<u>10:30</u>	<u>19.07</u>	<u>7.66</u>	<u>1.351</u>	<u>5999</u>	<u>4.76</u>
		<u>10:34</u>	<u>18.66</u>	<u>7.43</u>	<u>1.57</u>	<u>5999</u>	<u>0.88</u>
		<u>10:37</u>	<u>19.32</u>	<u>7.50</u>	<u>1.413</u>	<u>5999</u>	<u>2.84</u>
		<u>10:40</u>	<u>19.72</u>	<u>7.51</u>	<u>1.305</u>	<u>1985</u>	<u>4.26</u>
<u>29 gallons</u>		<u>10:48</u>	<u>19.24</u>	<u>7.41</u>	<u>1.355</u>	<u>588</u>	<u>3.05</u>
<u>12 gallons</u>		<u>11:00</u>	<u>19.36</u>	<u>7.39</u>	<u>1.29</u>	<u>375</u>	<u>3.25</u>
<u>15 gallons</u>		<u>11:12</u>	<u>19.49</u>	<u>7.39</u>	<u>1.230</u>	<u>146</u>	<u>3.38</u>
		<u>11:24</u>	<u>19.43</u>	<u>7.39</u>	<u>1.208</u>	<u>154</u>	<u>3.100</u>
		<u>11:36</u>	<u>19.93</u>	<u>7.40</u>	<u>1.111</u>	<u>175</u>	<u>3.93</u>
		<u>11:38</u>	<u>19.49</u>	<u>7.39</u>	<u>1.16</u>	<u>260</u>	<u>3.04</u>

Development Completed at 34 Gallons Discharged. Date: 8/23/2010 Time: 12:20

Personnel: CEC

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

<u>1140</u>	<u>20.56</u>	<u>7.39</u>	<u>1.18</u>	<u>339</u>	<u>2.66</u>
<u>1142</u>	<u>19.74</u>	<u>7.40</u>	<u>1.150</u>	<u>154</u>	<u>3.25</u>
<u>1144</u>	<u>20.16</u>	<u>7.39</u>	<u>1.172</u>	<u>139</u>	<u>2.78</u>
<u>1146</u>	<u>20.42</u>	<u>7.39</u>	<u>1.199</u>	<u>142</u>	<u>3.55</u>
<u>1148</u>	<u>19.58</u>	<u>7.38</u>	<u>1.152</u>	<u>157</u>	<u>3.00</u>
<u>1150</u>	<u>20.66</u>	<u>7.68</u>	<u>1.172</u>	<u>144</u>	<u>2.61</u>
<u>1153</u>	<u>19.43</u>	<u>7.39</u>	<u>1.132</u>	<u>173</u>	<u>2.7</u>

<u>Time</u>	<u>Temp</u>	<u>pH</u>	<u>Spec. Cond</u>	<u>TURB</u>	<u>DO</u>
1155	20.96	7.39	1.163	165	2.56
1157	19.84	7.39	1.113	138	3.46
1159	20.43	7.39	1.144	96.2	2.77
1202	19.73	7.39	1.134	124	3.09
1204	20.43	7.39	1.140	107	3.20
1206	19.78	7.39	1.136	104	3.23
1208	21.68	7.38	1.141	63.4	2.76
1211	19.69	7.38	1.106	128	3.08
1213	20.45	7.38	1.140	127	2.52
1215	20.05	7.38	1.111	97.6	3.38
1217	19.88	7.39	1.133	91.2	2.66

34.32 gallons.



WELL DEVELOPMENT DATA SHEET

BORING NO. 8195

WELL NO. RFS-GW-B195

Project FSW Phase I, GW.

Project No. _____

Date(s) of Installation 7/30/2010

Date(s) of Development 8/20/2010

Personnel/Company PSI

Type of Rig Used truck mounted

Casing Diameter/Type 2" PVC

Borehole Diameter 8.4"

Screened Interval(s) 6-16

Total Length of Well Casing 16'

Measure Total Depth (TOC) Initial _____

Final _____

Initial Depth to Water (TOC) 8'2"

Date 8/20/2010 Time 1250

Stabilized Depth to Water (TOC) _____

Date _____ Time _____

DEVELOPMENT

TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

- Jetting (Airlift) _____
- Surge Block _____
- Bailing _____
- Pumping _____
- Other _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons

Lost Purge Water: _____ Gallons

Water During Installation: _____ Gallons

Total Fluids Added: _____ Gallons

Source of Added Water: _____

Sample Collected of Added Water: 0 Y N

Sample Designation of Added Water: _____

Development Criteria: _____

PURGE VOLUME CALCULATION

Casing Volume: 7.9 Ft. of water
 x .163 Gallons/Foot
 = 1.3 Gallons per Single Casing Volume
 Sand Pack Volume: 7.9 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 26 Gallons (in borehole)
 - 1.3 Gallons of Casing Volume
 = 24.7 X 0.3 (Assuming porosity = 30%)
 = 7.4 Gallons Within Sand Pack

Single Purge Volume: 8.7 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)

Minimum Purge Volume: 26 Gallons (Casing Vol. + Sand Pack Vol.)

Actual Purge Volume: 29 Gallons (Casing Vol. + Sand Pack Vol.)

Volume Measured by: depth of water in down

Rate of Development _____ Gallons/Minute (Hour, Day)

Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)

Immiscible Phases Present: Y N Thickness _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>8 gallon</u>		<u>13:30</u>	<u>17.82</u>	<u>7.17</u>	<u>2.09</u>	<u>196A</u>	<u>0.86</u>
		<u>13:36</u>	<u>17.77</u>	<u>7.12</u>	<u>2.16</u>	<u>80X8</u>	<u>0.72</u>
<u>14 gallon</u>		<u>13:40</u>	<u>17.77</u>	<u>7.10</u>	<u>2.17</u>	<u>462</u>	<u>0.63</u>
		<u>13:42</u>	<u>17.87</u>	<u>7.09</u>	<u>2.19</u>	<u>285</u>	<u>0.60</u>
		<u>13:45</u>	<u>17.87</u>	<u>7.08</u>	<u>2.21</u>	<u>185</u>	<u>0.55</u>
<u>20 gallons</u>		<u>13:48</u>	<u>17.92</u>	<u>7.07</u>	<u>2.22</u>	<u>123</u>	<u>0.52</u>
<u>24 gallon</u>		<u>13:52</u>	<u>17.87</u>	<u>7.06</u>	<u>2.25</u>	<u>83.6</u>	<u>0.49</u>
		<u>13:54</u>	<u>17.88</u>	<u>7.06</u>	<u>2.27</u>	<u>71.5</u>	<u>0.48</u>
		<u>13:56</u>	<u>17.87</u>	<u>7.06</u>	<u>2.27</u>	<u>60.4</u>	<u>0.46</u>
<u>29 gallons</u>		<u>13:58</u>	<u>17.82</u>	<u>7.06</u>	<u>2.28</u>	<u>53.3</u>	<u>0.45</u>

Development Completed at 29 Gallons Discharged. Date: 8/20/2010 Time: 1400

Personnel: _____

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. B128

WELL NO. _____

Project _____
Project No. _____
Date(s) of Installation 8/13/2010
Date(s) of Development 8/13/2010 9/11/2010
Personnel/Company K&S
Type of Rig Used Truck

Casing Diameter/Type 2" PVC
Borehole Diameter 8 3/4"
Screened Interval(s) 6.5' to 5'
Total Length of Well Casing 16.0
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 8.4 Date 8/13/2010 Time 15:15
Stabilized Depth to Water (TOC) 9.1 Date 9/11/2010 Time 11:30

TECHNIQUE(S) DEVELOPMENT
EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 8.2 Ft. of water
x 1.63 Gallons/Foot
= 1.33 Gallons per Single Casing Volume
Sand Pack Volume: 8.2 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 27 Gallons (in borehole)
- 1.33 Gallons of Casing Volume
= 25.66 X 0.3 (Assuming porosity = 30%)
= 7.69 Gallons Within Sand Pack
Single Purge Volume: 9 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 27 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Actual Purge Volume: 33 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Volume Measured by: volume of water in drum
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: _____
Sample Designation of Added Water: Y N

Development Criteria: _____

8/13/2010

9/11/2010

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
7 gal.		15:45	18.93	7.44	2.85	5999	0.90
10 gal		16:02	19.97	7.55	1.93	2000	5.76
11 gal		16:15	19.41	7.50	1.81	2000	4.47
13 gal		16:57	18.33	7.47	1.70	2000	3.56
14 gal.		17:05	18.44	7.53	1.60	1030	4.32
		17:15	18.44	7.52	1.57	77.8	5.38
15.5 gal		18:48 18:20	18.44	7.49	1.55	103	4.26
20 gal		9:25	18.68	7.54	1.46	61.7	4.70
21 gal		9:29	18.71	7.52	1.45	54.0	4.94
30 gal		11:19	18.67	7.53	1.446	156	2.99

Development Completed at 33 gal Gallons Discharged. Date: 9/11/2010 Time: 11:30

Personnel: CFerriz

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

38 gal	11:20	18.66	7.52	1.449	124	3.03
	11:23	18.65	7.52	1.443	111	3.02
	11:25	18.63	7.52	1.435	83.7	2.74
	11:27	18.65	7.52	1.430	103	2.51
33 gal.	11:29	18.65	7.52	1.433	97.2	2.49



WELL DEVELOPMENT DATA SHEET

BORING NO. B128-deep

WELL NO. _____

Project _____
 Project No. _____
 Date(s) of Installation 8/13/2010
 Date(s) of Development 9/1/2010
 Personnel/Company PSI
 Type of Rig Used truck

Casing Diameter/Type 2" PVC
 Borehole Diameter 5 7/8"
 Screened Interval(s) 29-39
 Total Length of Well Casing 39
 Measure Total Depth (TOC) Initial _____
 Final _____
 Initial Depth to Water (TOC) 10' Date 9/1/2010 Time 8:10
 Stabilized Depth to Water (TOC) 11.2' Date 9/1/2010 Time 12:25

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 29 Ft. of water
 x 1.63 Gallons/Foot
 = 47.27 Gallons per Single Casing Volume
 Sand Pack Volume: 11 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 36.3 Gallons (in borehole)
 - 4.73 Gallons of Casing Volume
 = 31.6 X 0.3 (Assuming porosity = 30%)
 = 9.47 Gallons Within Sand Pack
 Single Purge Volume: 14.2 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 42.6 Gallons (Casing Vol. + Actual Purge Volume: 65 Gallons (Casing Vol. + Volume Measured by: volume of water in dump)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~37 gall.</u>		<u>11:11</u>	<u>18.29</u>	<u>7.79</u>	<u>1.189</u>	<u>2000</u>	<u>0.38</u>
<u>~39 gall.</u>		<u>11:31</u>	<u>18.38</u>	<u>7.74</u>	<u>1.213</u>	<u>2000</u>	<u>0.46</u>
		<u>11:36</u>	<u>18.27</u>	<u>7.74</u>	<u>1.221</u>	<u>775</u>	<u>0.28</u>
		<u>11:41</u>	<u>18.30</u>	<u>7.78</u>	<u>1.244</u>	<u>1043</u>	<u>0.23</u>
		<u>11:46</u>	<u>18.28</u>	<u>7.77</u>	<u>1.214</u>	<u>1477</u>	<u>0.21</u>
<u>~50 gallons</u>		<u>12:07</u>	<u>18.54</u>	<u>7.72</u>	<u>1.151</u>	<u>551</u>	<u>0.20</u>
		<u>12:13</u>	<u>18.55</u>	<u>7.73</u>	<u>1.143</u>	<u>367</u>	<u>0.19</u>
		<u>12:17</u>	<u>18.55</u>	<u>7.72</u>	<u>1.127</u>	<u>331</u>	<u>0.19</u>
		<u>12:21</u>	<u>18.54</u>	<u>7.73</u>	<u>1.127</u>	<u>842</u>	<u>0.18</u>
<u>~45 gallons</u>		<u>12:23</u>	<u>18.54</u>	<u>7.73</u>	<u>1.127</u>	<u>333</u>	<u>0.19</u>

Development Completed at 65 Gallons Discharged. Date: 9/1/2010 Time: 12:25

Personnel: CSEMIL

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. B177

WELL NO. _____

Project _____
Project No. _____
Date(s) of Installation 8/11/2010
Date(s) of Development 8/31/2010
Personnel/Company NSI
Type of Rig Used Trench

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 7.5-17.5
Total Length of Well Casing 17.8
Measure Total Depth (TOC) Initial Final
Initial Depth to Water (TOC) 8.5 Date 8/31/2010 Time 13:15
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
Jetting (Airlift) _____
Surge Block _____
Bailing _____
Pumping _____
Other _____

PURGE VOLUME CALCULATION
Casing Volume: 9.3 Ft. of water
x 1.5 Gallons/Foot
= 13.95 Gallons per Single Casing Volume
Sand Pack Volume: 9.3 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 30.69 Gallons (in borehole)
- 1.5 Gallons of Casing Volume
= 29.19 X 0.3 (Assuming porosity = 30%)
= 8.757 Gallons Within Sand Pack
Single Purge Volume: 10.4 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 31 Gallons (Casing Vol. + Actual Purge Volume: 32 Gallons (Casing Vol. + Volume Measured by: volume in drum)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Table with 8 columns: Total Volume Discharge, Rate of Discharge, Time, Temp, pH, Specific* Conductance, Turbidity (NTU), D.O., Clarity, Odor, PID Readings, Other. Contains 11 rows of handwritten data.

Development Completed at 32 Gallons Discharged. Date: 8/31/2010 Time: 14:51
Personnel: O. KERRILL

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

32 gallon 14:50 19.43 6.70 0.345 25.0 1.94



WELL DEVELOPMENT DATA SHEET

BORING NO. RFS-6W-B158 WELL NO. sure

Project _____
Project No. _____
Date(s) of Installation 8/11/10
Date(s) of Development 8/18/10
Personnel/Company RFS
Type of Rig Used TCM

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 5'-15'
Total Length of Well Casing 151'
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 10.3 Date 8/18/10 Time 11:40
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT
TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 4.8 Ft. of water
x 0.163 Gallons/Foot
= 0.78 Gallons per Single Casing Volume
Sand Pack Volume: 4.8 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 15.84 Gallons (in borehole)
- 0.78 Gallons of Casing Volume
= 15.06 X 0.3 (Assuming porosity = 30%)
= 4.52 Gallons Within Sand Pack
Single Purge Volume: 5.30 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 16 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 19 Gallons (Casing Vol. + Volume Measured by: John Johnson)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~ 2 gal</u>	<u>~ 1/2 gpm</u>	<u>12:01</u>	<u>18.76</u>	<u>7.61</u>	<u>0.783</u>	<u>5999</u>	<u>6.74</u>
<u>~ 40 gal</u>	<u>~ 1.4 gpm</u>	<u>12:10</u>	<u>17.79</u>	<u>7.11</u>	<u>0.395</u>	<u>5999</u>	<u>4.36</u>
<u>~ 9 gal</u>	<u>~ 1.25 gpm</u>	<u>12:25</u>	<u>17.86</u>	<u>7.01</u>	<u>0.342</u>	<u>5999</u>	<u>3.94</u>
<u>~ 11.5 gal</u>	<u>~ 1.2 gpm</u>	<u>12:38</u>	<u>18.12</u>	<u>7.04</u>	<u>0.312</u>	<u>2000</u>	<u>4.22</u>
<u>~ 15 gal</u>	<u>~ 1 gpm</u>	<u>12:55</u>	<u>18.08</u>	<u>6.97</u>	<u>0.297</u>	<u>124</u>	<u>4.21</u>
<u>~ 16 gal</u>	<u>~ 1 gpm</u>	<u>13:00</u>	<u>18.16</u>	<u>6.96</u>	<u>0.297</u>	<u>110</u>	<u>4.18</u>
<u>~ 18 gal</u>	<u>1 gpm</u>	<u>13:08</u>	<u>18.20</u>	<u>6.96</u>	<u>0.296</u>	<u>121</u>	<u>4.09</u>
<u>~ 19 gal</u>	<u>1 gpm</u>	<u>13:10</u>	<u>18.20</u>	<u>6.96</u>	<u>0.295</u>	<u>115</u>	<u>4.08</u>

Development Completed at 13:10 19 Gallons Discharged. Date: 8/18/10 Time: 13:10
Personnel: Nathan Johnson + RSE

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. B190

WELL NO. _____

Project _____
Project No. _____
Date(s) of Installation 8/11/2010
Date(s) of Development 8/24/2010
Personnel/Company KSi
Type of Rig Used truck

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 6-11'
Total Length of Well Casing 14'
Measure Total Depth (TOC) Initial _____ Final _____
Initial Depth to Water (TOC) 9.6 Date 8/24/2010 Time 13:00
Stabilized Depth to Water (TOC) 12.4 Date 8/24/2010 Time 14:30

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
Other _____

PURGE VOLUME CALCULATION
Casing Volume: 6.4 Ft. of water
x 1.63 Gallons/Foot
= 10.4 Gallons per Single Casing Volume
Sand Pack Volume: 6.4 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 21.12 Gallons (in borehole)
- 2.87 Gallons of Casing Volume
= 20 X 0.3 (Assuming porosity = 30%)
= 6 Gallons Within Sand Pack
Single Purge Volume: 7 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 21 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 24 Gallons (Casing Vol. + Volume Measured by: volume in drum)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: ○

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
		1336	22.43	7.81	0.900	5999	0.07
		1341	21.87	7.75	0.718	2000	6.26
17 gallons		1346	21.40	7.75	0.610	932	6.32
10 gallons		1350	21.23	7.74	0.575	565	6.35
		1354	21.31	7.76	0.562	477	6.37
		1358	21.27	7.76	0.547	412	6.38
		1402	21.25	7.74	0.568	391	6.38
2.9 gallons		1405	21.23	7.76	0.532	390	6.39
		1409	21.26	7.75	0.526	462	6.38
		1413	21.23	7.75	0.521	425	6.39

Development Completed at 24 Gallons Discharged. Date: 8/24/2010 Time: 1425

Personnel: Ofemic

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

2 22 gal.	1417	21.30	7.74	0.519	824	6.37
	1420	21.29	7.73	0.514	467	6.39
	1423	21.33	7.72	0.514	486	6.37
1 24 gal.	1425	21.33	7.72	0.514	501	6.38



Tetra Tech EM Inc.

Sheet 1 of 1

WELL DEVELOPMENT DATA SHEET

BORING NO. 341836

WELL NO. _____

Project FSW Phase I
 Project No. _____
 Date(s) of Installation 8/11/2010
 Date(s) of Development 8/24/2010
 Personnel/Company R&J
 Type of Rig Used truck

Casing Diameter/Type 2" PVC
 Borehole Diameter 8.14"
 Screened Interval(s) 6-16
 Total Length of Well Casing 16.3
 Measure Total Depth (TOC) Initial _____
 Final _____
 Initial Depth to Water (TOC) 10.5 Date 8/24/2010 Time 8:30
 Stabilized Depth to Water (TOC) 12.3 Date 8/24/2010 Time 9:36

DEVELOPMENT
TECHNIQUE(S) **EQUIPMENT TYPE/CAPACITY**

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 5.8 Ft. of water
 x 1.103 Gallons/Foot
 = .95 Gallons per Single Casing Volume
 Sand Pack Volume: 5.8 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 19.14 Gallons (in borehole)
 - .95 Gallons of Casing Volume
 = 18.2 X 0.3 (Assuming porosity = 30%)
 = 5.4 Gallons Within Sand Pack
 Single Purge Volume: 6.5 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 19.5 Gallons (Casing Vol. + Actual Purge Volume)
 Actual Purge Volume: 24 Gallons (Casing Vol. + Volume Measured by: volume of water in drum)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~ 3 gallons</u>		<u>8:55</u>	<u>17.99</u>	<u>7.30</u>	<u>1.131</u>	<u>5999</u>	<u>2.71</u>
		<u>9:02</u>	<u>17.66</u>	<u>7.15</u>	<u>0.903</u>	<u>2000</u>	<u>2.51</u>
		<u>9:09</u>	<u>17.70</u>	<u>7.11</u>	<u>.841</u>	<u>134</u>	<u>2.43</u>
		<u>9:15</u>	<u>17.71</u>	<u>7.11</u>	<u>.813</u>	<u>86.7</u>	<u>2.37</u>
		<u>9:17</u>	<u>17.72</u>	<u>7.11</u>	<u>.806</u>	<u>151</u>	<u>2.37</u>
		<u>9:19</u>	<u>17.71</u>	<u>7.11</u>	<u>.802</u>	<u>79.0</u>	<u>2.36</u>
		<u>9:22</u>	<u>17.71</u>	<u>7.11</u>	<u>.794</u>	<u>101</u>	<u>2.35</u>
		<u>9:25</u>	<u>17.72</u>	<u>7.12</u>	<u>.788</u>	<u>110</u>	<u>2.33</u>
<u>~ 20 gallons</u>		<u>9:29</u>	<u>17.72</u>	<u>7.12</u>	<u>.782</u>	<u>64.3</u>	<u>2.32</u>
		<u>9:31</u>	<u>17.57</u>	<u>7.12</u>	<u>.777</u>	<u>61.2</u>	<u>2.31</u>

Development Completed at 24 Gallons Discharged. Date: 8/24/2010 Time: 9:36
 Personnel: C. Ferriz

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

~ 24 gallons
9:34 17.52 7.12 .772 64.6 2.31
9:36 17.65 7.12 .771 62.7 2.30



WELL DEVELOPMENT DATA SHEET

BORING NO. B38-deep

WELL NO. _____

Project _____
 Project No. _____
 Date(s) of Installation 8/10/2010
 Date(s) of Development 8/24/2010
 Personnel/Company HSI
 Type of Rig Used Truck

Casing Diameter/Type 2" PVC
 Borehole Diameter 8 1/4"
 Screened Interval(s) 30-40'
 Total Length of Well Casing 40
 Measure Total Depth (TOC) Initial _____ Final _____
 Initial Depth to Water (TOC) 11.5 Date 8/24/2010 Time 10:20
 Stabilized Depth to Water (TOC) 11.9 Date 8/24/2010 Time 11:55

DEVELOPMENT TECHNIQUE(S)
EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 28.5 Ft. of water
 x .163 Gallons/Foot
 = 4.65 Gallons per Single Casing Volume
 Sand Pack Volume: 12 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 39.6 Gallons (in borehole)
 - 4.6 Gallons of Casing Volume
 = 35.0 X 0.3 (Assuming porosity = 30%)
 = 10.5 Gallons Within Sand Pack
 Single Purge Volume: 15.1 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 45.3 Gallons (Casing Vol. + Actual Purge Volume)
 Actual Purge Volume: 47 Gallons (Casing Vol. + Volume Measured by: volume in drum)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: _____ N
 Sample Designation of Added Water: Y _____

Development Criteria:

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
		10:23	17.15	8.84	1.094	5999	0.96
≈ 10 gallons		1050	17.21	8.42	0.866	2000	0.95
≈ 15 gallons		1102	17.36	8.48	0.896	2000	0.79
≈ 18 gallons		1112	17.35	8.48	0.869	2000	0.83
≈ 25 gallons		1124	17.34	8.46	0.850	2000	0.71
≈ 31 gallons		1136	17.34	8.46	0.839	917	0.68
		1145	17.34	8.47	0.837	418	0.78
		1149	17.35	8.47	0.835	441	0.75
≈ 47 gallons		1153	17.37	8.47	0.826	421	0.76

Development Completed at 47 Gallons Discharged. Date: 10/24/2010 Time: 1155

Personnel: CFMIL

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. _____

WELL NO. RFS-GW-BULLB1

Project _____
 Project No. _____
 Date(s) of Installation 10/13/2010
 Date(s) of Development 10/19/2010
 Personnel/Company RSSI-
 Type of Rig Used truck.

Casing Diameter/Type 2" PVC
 Borehole Diameter 8.4"
 Screened Interval(s) 7-17'
 Total Length of Well Casing 17.2'
 Measure Total Depth (TOC) Initial _____
 Final 18.3'

Initial Depth to Water (TOC) 4.05' Date 10/17/2010 Time 8:40
 Stabilized Depth to Water (TOC) 14.5' Date 10/19/2010 Time 13:30

TECHNIQUE(S) DEVELOPMENT
 EQUIPMENT TYPE/CAPACITY

Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 12.55 Ft. of water
 x 1.63 Gallons/Foot
 = 2.05 Gallons per Single Casing Volume
 Sand Pack Volume: 10' Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 33 Gallons (in borehole)
 - 2.05 Gallons of Casing Volume
 = 30.95 X 0.3 (Assuming porosity = 30%)
 = 9.3 Gallons Within Sand Pack

FLUIDS ADDED
 Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Single Purge Volume: 11.35 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 34.0 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Actual Purge Volume: 20.0 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Volume Measured by: volume of water in drum
 Rate of Development 3.6 Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

stopped b/c of time - parameters too stable.

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>13 gall</u>		<u>10:40</u>	<u>18.31</u>	<u>7.51</u>	<u>33.9</u>	<u>5999</u>	<u>6.52</u>
<u>15 gall</u>	<u>(let well recharge)</u>	<u>11:14</u>	<u>19.32</u>	<u>7.84</u>		<u>1992</u>	<u>7.82</u>
<u>19 gall</u>		<u>12:05</u>	<u>18.07</u>	<u>7.80</u>	<u>32.7</u>	<u>5999</u>	<u>8.16</u>
		<u>12:15</u>	<u>19.17</u>	<u>7.80</u>	<u>33.1</u>	<u>2000</u>	<u>6.55</u>
<u>27 gall</u>		<u>12:26</u>	<u>19.36</u>	<u>7.78</u>	<u>35.0</u>	<u>145</u>	<u>6.6B</u>
<u>29 gall</u>		<u>12:30</u>	<u>19.47</u>	<u>7.77</u>	<u>35.2</u>	<u>88.1</u>	<u>6.61</u>
		<u>12:35</u>	<u>19.58</u>	<u>7.70</u>	<u>35.5</u>	<u>51.3</u>	<u>6.62</u>
<u>30 gall</u>		<u>12:40</u>	<u>19.55</u>	<u>7.70</u>	<u>36.0</u>	<u>26.5</u>	<u>6.61</u>
		<u>13:20</u>	<u>19.98</u>	<u>7.66</u>	<u>36.2</u>	<u>26.9</u>	<u>6.56</u>
		<u>13:24</u>	<u>20.02</u>	<u>7.66</u>	<u>36.2</u>	<u>25.2</u>	<u>6.55</u>

Development Completed at 20 Gallons Discharged. Date: 10/19/2010 Time: 13:25.

Personnel: Chrym Fetic.

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. _____

WELL NO. RFS-61W-BMW B2

Project _____
 Project No. _____
 Date(s) of Installation 10/13/2010
 Date(s) of Development 10/19/2010
 Personnel/Company Rsj
 Type of Rig Used Trench

Casing Diameter/Type 2" PVC
 Borehole Diameter 8.74"
 Screened Interval(s) 9-19
 Total Length of Well Casing 19.2
 Measure Total Depth (TOC) Initial _____
 Final _____

Initial Depth to Water (TOC) 5.02 Date 10/18/2010 Time 13:45
 Stabilized Depth to Water (TOC) 6.97 Date 10/19/2010 Time 16:40

DEVELOPMENT
 TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

- Jetting (Airlift) _____
- Surge Block _____
- Bailing _____
- Pumping _____
- Other _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

PURGE VOLUME CALCULATION

Casing Volume: 14.16 Ft. of water
 x .163 Gallons/Foot
 = 2.31 Gallons per Single Casing Volume
 Sand Pack Volume: 13.2 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 43.56 Gallons (in borehole)
 - 2.31 Gallons of Casing Volume
 = 41.25 X 0.3 (Assuming porosity = 30%)
 = 12.37 Gallons Within Sand Pack
 Single Purge Volume: 14.16 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 44 Gallons (Casing Vol. + Actual Purge Volume)
 Actual Purge Volume: 35 Gallons (Casing Vol. + Volume Measured by: Volume in down - stopped b/c parameters stable + needed sample.
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	(D.O.) Clarity, Odor, PID Readings, Other:
<u>≈ 25 gall</u>		<u>14:30</u>	<u>18.47</u>	<u>7.93</u>	<u>10.42</u>	<u>43.6</u>	<u>7.24</u>
		<u>16:34</u>	<u>18.36</u>	<u>7.86</u>	<u>10.40</u>	<u>39.9</u>	<u>6.09</u>
<u>≈ 35 gall</u>		<u>16:30</u>	<u>18.37</u>	<u>7.84</u>	<u>10.41</u>	<u>41.8</u>	<u>6.02</u>
		<u>16:40</u>					
		<u>16:42</u>					

Development Completed at 85 Gallons Discharged. Date: 10/19/2010 Time: 16:40
 Personnel: CFelliz

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. FFS-GW-B120

WELL NO. _____

Project F8W Phase I, GW
Project No. _____
Date(s) of Installation 8/2/2010
Date(s) of Development 8/19/2010 - 8/25/2010
Personnel/Company TSI

Casing Diameter/Type 2" PVC
Borehole Diameter 3/4"
Screened Interval(s) 4-14'
Total Length of Well Casing 14'
Measure Total Depth (TOC) Initial _____
Final _____

Type of Rig Used truck mounted

Initial Depth to Water (TOC) 6.3' Date 8/19/2010 Time 11:15
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT

TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY

- Jetting (Airlift) _____
- Surge Block _____
- Bailing _____
- Pumping _____
- Other _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

PURGE VOLUME CALCULATION

Casing Volume: 7.7 Ft. of water
 x 1.63 Gallons/Foot
 = 1.26 Gallons per Single Casing Volume
 Sand Pack Volume: 7.7 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 25.41 Gallons (in borehole)
 - 1.26 Gallons of Casing Volume
 = 24.15 X 0.3 (Assuming porosity = 30%)
 = 7.25 Gallons Within Sand Pack
 Single Purge Volume: 8.51 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 26 Gallons (Casing Vol. + Actual Purge Volume)
 Actual Purge Volume: 26 Gallons (Casing Vol. + Volume Measured by: depth of water in drum)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	Clarity, Odor, PID Readings, Other:
<u>x 4gall → DRY</u>		<u>14:45</u>	<u>20.48</u>	<u>7.65</u>	<u>3.61</u>	<u>5999</u>	<u>3.27</u>
<u>(no purge) 4gall</u>		<u>15:40</u>	<u>19.38</u>	<u>7.80</u>	<u>3.56</u>	<u>5999</u>	<u>4.13</u>
<u>8/24/2010 ≈ 6 gallons → DRY</u>		<u>9:15</u>	<u>17.31</u>	<u>7.45</u>	<u>3.42</u>	<u>5999</u>	<u>5.5</u>
<u>8/24/2010 DRY - 4ft.</u>		<u>8:15</u>	<u>18:14</u>	<u>7.47</u>	<u>2.92</u>	<u>2000</u>	<u>5.86</u>
		<u>8:17</u>	<u>18.09</u>	<u>7.43</u>	<u>2.92</u>	<u>5999</u>	<u>5.60</u>
<u>11 gallons</u>	<u>5gall/25min</u>	<u>8:30</u>	<u>18.71</u>	<u>7.45</u>	<u>2.77</u>	<u>400</u>	<u>7.30</u>
<u>21 gallons</u>		<u>10:00</u>	<u>19.77</u>	<u>7.21</u>	<u>2.58</u>	<u>190</u>	<u>5.59</u>
		<u>10:10</u>	<u>19.39</u>	<u>7.19</u>	<u>2.58</u>	<u>120</u>	<u>5.60</u>
<u>24 gallons</u>		<u>10:20</u>	<u>19.35</u>	<u>7.19</u>	<u>2.58</u>	<u>125</u>	<u>5.42</u>
<u>26 gallons</u>		<u>10:32</u>	<u>19.32</u>	<u>7.18</u>	<u>2.57</u>	<u>90.3</u>	<u>5.40</u>

Development Completed at 26 Gallons Discharged. Date: 8/25/2010 Time: 10:34

Personnel: oferuz

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



Tetra Tech EM Inc.

Sheet 1 of 1

WELL DEVELOPMENT DATA SHEET

BORING NO. FFS-GW-13185

WELL NO. _____

Project FSW Phase I, GW
Project No. _____
Date(s) of Installation 8/2/2010
Date(s) of Development 8/19/2010
Personnel/Company Kei

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) 4-14
Total Length of Well Casing 14'
Measure Total Depth (TOC) Initial _____
Final _____

Type of Rig Used _____

Initial Depth to Water (TOC) 5' Date 8/19/2010 Time 9:45
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT

TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
Other _____

PURGE VOLUME CALCULATION

Casing Volume: 9' Ft. of water
x .163 Gallons/Foot
= 1.47 Gallons per Single Casing Volume
Sand Pack Volume: 9' Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 29.7 Gallons (in borehole)
- 1.47 Gallons of Casing Volume
= 28.23 X 0.3 (Assuming porosity = 30%)
= 8.5 Gallons Within Sand Pack

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Single Purge Volume: 10 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 30 Gallons (Casing Vol. + Actual Purge Volume: 31 Gallons (Casing Vol. + Volume Measured by: measured by volume indrum.)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	DO, Clarity, Odor, PID Readings, Other:
<u>5 gallons</u>		<u>9:51</u>	<u>17.11</u>	<u>7.34</u>	<u>2.65</u>	<u>5999</u>	<u>2.75</u>
<u>10 gallons</u>		<u>10:02</u>	<u>17.03</u>	<u>7.04</u>	<u>2.32</u>	<u>5999</u>	<u>0.55</u>
<u>15 gallons</u>		<u>10:10</u>	<u>16.92</u>	<u>6.99</u>	<u>2.27</u>	<u>5999</u>	<u>1.44</u>
<u>20 gallons</u>		<u>10:20</u>	<u>16.87</u>	<u>6.94</u>	<u>2.22</u>	<u>2000</u>	<u>1.74</u>
<u>25 gallons</u>		<u>10:28</u>	<u>16.86</u>	<u>6.92</u>	<u>2.20</u>	<u>210</u>	<u>1.73</u>
<u>28 gallons</u>		<u>10:32</u>	<u>16.88</u>	<u>6.92</u>	<u>2.20</u>	<u>233</u>	<u>1.68</u>
<u>29 gallons</u>		<u>10:34</u>	<u>16.80</u>	<u>6.92</u>	<u>2.21</u>	<u>330</u>	<u>1.67</u>
		<u>10:36</u>	<u>16.89</u>	<u>6.92</u>	<u>2.20</u>	<u>152</u>	<u>1.66</u>
		<u>10:39</u>	<u>16.89</u>	<u>6.92</u>	<u>2.19</u>	<u>490</u>	<u>1.67</u>
<u>31 gallons</u>		<u>10:45</u>	<u>16.86</u>	<u>6.91</u>	<u>2.20</u>	<u>132</u>	<u>1.57</u>

Development Completed at 31 Gallons Discharged. Date: 8/19/2010 Time: 10:45

Personnel: A. Ferric

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. Ccl transformer WELL NO. _____

Project FSW, phase I, GW.
Project No. _____
Date(s) of Installation 8/2/2010
Date(s) of Development 8/20/2010
Personnel/Company R2j
Type of Rig Used _____

Casing Diameter/Type 2" PVC
Borehole Diameter 8.74
Screened Interval(s) 3.5' - 15.5'
Total Length of Well Casing 15.5'
Measure Total Depth (TOC) Initial _____
Final _____
Initial Depth to Water (TOC) 7' Date 8/20/2010 Time 11:05
Stabilized Depth to Water (TOC) 12' Date 8/20/2010 Time 12:40

TECHNIQUE(S) DEVELOPMENT
EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 8.5 Ft. of water
x .163 Gallons/Foot
= 1.4 Gallons per Single Casing Volume
Sand Pack Volume: 8.5 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 28 Gallons (in borehole)
- 26.5 Gallons of Casing Volume
= 8 X 0.3 (Assuming porosity = 30%)
= 9.5 Gallons Within Sand Pack
Single Purge Volume: 9.5 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 28.5 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 31 Gallons (Casing Vol. + Volume Measured by: depth of drum)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	Clarity, Odor, PID Readings, Other:
≈ 6 gallons		11:30	16.19	7.4	2.20	599	3.51
		11:40	16.13	7.36	2.24	599	0.45
≈ 13 gallons		11:50	16.11	7.26	1.90	599	2.05
≈ 15 gallons		12:00	16.08	7.23	1.75	846	2.73
≈ 16 gallons		12:10	16.11	7.21	1.72	550	2.25
≈ 20 gallon		12:20	16.11	7.21	1.71	355	2.19
≈ 28 gallon		12:30	16.13	7.20	1.876	131	1.69 1.84
≈ 31 gallon		12:35	16.10	7.20	1.68	110.	1.90

Development Completed at 31 Gallons Discharged. Date: 8/20/2010 Time: 12:40
Personnel: apellie

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. RFS-GW-B150 WELL NO. _____

Project FSW phase I, GW.
Project No. _____
Date(s) of Installation 8/13/2010
Date(s) of Development 8/17/10
Personnel/Company RST

Casing Diameter/Type 2" PVC
Borehole Diameter 8 1/4"
Screened Interval(s) _____
Total Length of Well Casing 5-15'
Measure Total Depth (TOC) Initial _____ Final _____

Type of Rig Used Truck mounted

Initial Depth to Water (TOC) 58 Date 8/17/10 Time 15:30
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT
TECHNIQUE(S) _____ EQUIPMENT TYPE/CAPACITY _____
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 9.5 Ft. of water
x 0.163 Gallons/Foot
= 1.65
Sand Pack Volume: 9.5 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 31.35 Gallons (in borehole)
- 1.65 Gallons of Casing Volume
= 29.70 X 0.3 (Assuming porosity = 30%)
= 8.9 Gallons Within Sand Pack

FLUIDS ADDED
Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: _____ N
Sample Designation of Added Water: _____

Single Purge Volume: 9 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 27 Gallons (Casing Vol. + Actual Purge Volume: 28 Gallons (Casing Vol. + Volume Measured by: volume of water in drum)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
6 gallons		16:45	18.29	7.22	0.523	5999	2.36
11 gallons	dry	17:05					
18 gallons		17:30	17.43	7.14	0.412	3000	6.63
18 gallons		8:30	17.54	6.79	0.397	350	6.25
20 gallons	1 1/4 min	8:38	17.43	6.86	0.395	502	6.61
24 gallons	~0.9 1/4 min	8:54	17.51	6.83	0.386	220	6.93
25 gallons		9:00	17.53	6.84	0.385	242	6.84
26 gallons	~0.6 1/4 min	9:07	17.63	6.82	0.381	45.5	6.86
27 gallons	~0.6 1/4 min	9:12	17.61	6.81	0.378	35.4	6.86
28 gal		9:15	17.64	6.80	0.350	199?	6.86

Development Completed at 28 Gallons Discharged. Date: 8/18/10 Time: 0920
Personnel: Nathan Sturman + RST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. HS-GW-13755 WELL NO. _____

Project FSW Phase I, GW
Project No. _____
Date(s) of Installation 8/3/2010
Date(s) of Development 8/17/10
Personnel/Company RST
Type of Rig Used _____

Casing Diameter/Type 2" PVC
Borehole Diameter 8.74"
Screened Interval(s) 5-15' bgs
Total Length of Well Casing 15'
Measure Total Depth (TOC) Initial _____
Final _____

Initial Depth to Water (TOC) 9' 9" Date 8/17/10 Time 12:00
Stabilized Depth to Water (TOC) 10' 1/2" Date 8/17/10 Time 13:15

DEVELOPMENT
TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
Casing Volume: 5 Ft. of water
x .143 Gallons/Foot
= 0.815 Gallons per Single Casing Volume
Sand Pack Volume: 5 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 16.5 Gallons (in borehole)
- 1 Gallons of Casing Volume
= 15.5 X 0.3 (Assuming porosity = 30%)
= 5.65 Gallons Within Sand Pack

FLUIDS ADDED
Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Single Purge Volume: 5.165 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 17 Gallons (Casing Vol. + Actual Purge Volume)
Actual Purge Volume: 22 Gallons (Casing Vol. + Volume Measured by: drum volume)
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>18 gallons</u>		<u>12:50</u>	<u>18.65</u>	<u>7.02</u>	<u>1.08</u>	<u>50.6</u>	<u>0.61</u>
		<u>13:00</u>			<u>1.52</u>	<u>41.4</u>	<u>0.57</u>
		<u>13:05</u>	<u>18.54</u>	<u>7.02</u>	<u>1.05</u>	<u>41.4</u>	<u>0.57</u>
		<u>13:05</u>	<u>18.55</u>	<u>7.02</u>	<u>1.05</u>	<u>39.1</u>	<u>0.57</u>
		<u>13:10</u>	<u>18.56</u>	<u>7.02</u>	<u>1.04</u>	<u>35.0</u>	<u>0.55</u>
<u>22 gallons</u>		<u>13:15</u>	<u>18.56</u>	<u>7.02</u>	<u>1.04</u>	<u>36.5</u>	<u>0.55</u>

Development Completed at 22 Gallons Discharged. Date: 8/17/10 Time: 13:15

Personnel: Sara Weller & RST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. RS-GW-B175W WELL NO. _____

Project FSW phase I, GW
Project No. _____
Date(s) of Installation 8/13/2010
Date(s) of Development 8/17/10
Personnel/Company RST
Type of Rig Used _____

Casing Diameter/Type 2" PVC
Borehole Diameter 0.74"
Screened Interval(s) _____
Total Length of Well Casing 5-15' legs
Measure Total Depth (TOC) Initial _____
Final _____

Initial Depth to Water (TOC) 8' 7" Date 8/17/10 Time 13:25
Stabilized Depth to Water (TOC) 12' 3" Date 8/17/10 Time 15:25

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
Other _____

PURGE VOLUME CALCULATION
Casing Volume: 6.2 Ft. of water
x 0.163 Gallons/Foot
= 1.0 Gallons per Single Casing Volume
Sand Pack Volume: 6.2 Ft. of Saturated Sand Pack
x 3.3 Gallons/Foot (borehole diameter)
= 20.5 Gallons (in borehole)
- 1 Gallons of Casing Volume
= 19.5 X 0.3 (Assuming porosity = 30%)
= 5.85 Gallons Within Sand Pack
Single Purge Volume: 7.9 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)

FLUIDS ADDED
Lost Drilling Fluid: 0 Gallons
Lost Purge Water: 0 Gallons
Water During Installation: 0 Gallons
Total Fluids Added: 0 Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Minimum Purge Volume: 22.8 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Actual Purge Volume: 32 Gallons (Casing Vol. + Fluids Added)
Volume Measured by: draw volume
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>2</u> 6 gallons		13:55	21.0	7.02	1.963	5999	5.95 mg/L
		14:05	20.5	6.70	0.584	2000	3.32
		14:25	20.6	6.77	0.588	2000	3.93
		14:40	20.7	6.79	0.567	5999	5.78
		14:55	21.08	6.73	0.442	310	6.95
<u>2</u> 32 gallons		15:15	20.89	6.71	0.416	238	6.91
		15:23	20.91	6.71	0.419	239	6.93

Development Completed at 32 Gallons Discharged. Date: 8/17/10 Time: 15:23
Personnel: Sara Wadley + RST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. RFS-GW-B121

WELL NO. _____

Project F&W GW Phase I
 Project No. _____
 Date(s) of Installation 8/31/2020
 Date(s) of Development 9/16/2020
 Personnel/Company RST
 Type of Rig Used _____

Casing Diameter/Type 2" PVC
 Borehole Diameter 8/4"
 Screened Interval(s) 8-18' w/4"
 Total Length of Well Casing 10'
 Measure Total Depth (TOC) Initial _____
 Final _____

Initial Depth to Water (TOC) 9'8" Date 8/16/2020 Time 15:15
 Stabilized Depth to Water (TOC) _____ Date _____ Time _____

DEVELOPMENT
 TECHNIQUE(S) _____ EQUIPMENT TYPE/CAPACITY _____

- Jetting (Airlift) _____
- Surge Block _____
- Bailing _____
- Pumping _____
- Other _____

FLUIDS ADDED

Lost Drilling Fluid: 0 Gallons
 Lost Purge Water: 0 Gallons
 Water During Installation: 0 Gallons
 Total Fluids Added: 0 Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

PURGE VOLUME CALCULATION

Casing Volume: 9.3 Ft. of water
 x .163 Gallons/Foot
 = 1.6 Gallons per Single Casing Volume
 Sand Pack Volume: 8.3 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 27.4 Gallons (in borehole)
 - 1.6 Gallons of Casing Volume
 = 25.8 X 0.3 (Assuming porosity = 30%)
 = 7.74 Gallons Within Sand Pack
 Single Purge Volume: 9.34 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 28 Gallons (Casing Vol. + Actual Purge Volume: 53 Gallons (Casing Vol. + Volume Measured by: drum volume)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	Clarity, Odor, PID Readings, Other:
<u>12 gallons</u>		<u>17:10</u>	<u>17.23</u>	<u>7.2</u>	<u>1.02</u>	<u>440</u>	<u>1.21</u>
		<u>9:15</u>	<u>14.78</u>	<u>7.21</u>	<u>0.984</u>	<u>881</u>	<u>1.45</u>
		<u>10:00</u>	<u>14.85</u>	<u>7.14</u>	<u>0.942</u>	<u>35.0</u>	<u>0.80</u>
		<u>10:10</u>	<u>16.93</u>	<u>7.14</u>	<u>0.933</u>	<u>40.4</u>	<u>0.71</u>
<u>53 gallons</u>		<u>10:20</u>	<u>17.05</u>	<u>7.13</u>	<u>0.923</u>	<u>30.4</u>	<u>0.59</u>
		<u>10:30</u>	<u>17.10</u>	<u>7.14</u>	<u>0.917</u>	<u>23.3</u>	<u>0.54</u>
		<u>10:40</u>	<u>17.07</u>	<u>7.14</u>	<u>0.917</u>	<u>21.7</u>	<u>0.54</u>

9/17/2020

Development Completed at 53 Gallons Discharged. Date: 8/17/20 Time: 10:40

Personnel: Steve Woolley & RST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. test pit 2.

WELL NO. RFS-GW-TP2.

Project FSW Phase I, GW.
Project No. _____
Date(s) of Installation 8/4/2010
Date(s) of Development 8/23-8/24/2010.
Personnel/Company RSJ

Casing Diameter/Type 2" PVC.
Borehole Diameter 2 1/4"
Screened Interval(s) 17.5-7.5'
Total Length of Well Casing 17.5
Measure Total Depth (TOC) Initial _____
Final _____

Type of Rig Used truck mounted.

Initial Depth to Water (TOC) 12.5 Date 8/23/2010 Time 1400
Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S)	DEVELOPMENT EQUIPMENT TYPE/CAPACITY
<input type="checkbox"/> Jetting (Airlift)	_____
<input checked="" type="checkbox"/> Surge Block	_____
<input checked="" type="checkbox"/> Bailing	_____
<input checked="" type="checkbox"/> Pumping	_____
<input type="checkbox"/> Other	_____

PURGE VOLUME CALCULATION

Casing Volume: 5 Ft. of water
 x .163 Gallons/Foot
 = .82 Gallons per Single Casing Volume
 Sand Pack Volume: 5 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 16.5 Gallons (in borehole)
 - 15.7 Gallons of Casing Volume
 = .8 X 0.3 (Assuming porosity = 30%)
 = 4.7 Gallons Within Sand Pack
 Single Purge Volume: 5.5 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 16.5 Gallons (Casing Vol. + Actual Purge Volume: 20 Gallons (Casing Vol. + Volume Measured by: depth of water in drum)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: _____ Y N
 Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>3 gallons</u>		<u>1100</u>	<u>surged/bailed till dry.</u>				
<u>4 gallons</u>	<u>12.2 (min)</u>	<u>1110</u>	<u>21.82</u>	<u>7.33</u>	<u>2.20</u>	<u>5899</u>	<u>3.13</u>
<u>5 gallons</u>		<u>1125</u>	<u>22.52</u>	<u>7.06</u>	<u>1.67</u>	<u>1116</u>	<u>3.30</u>
<u>7 gallons</u>		<u>1143</u>	<u>22.48</u>	<u>6.97</u>	<u>1.59</u>	<u>180</u>	<u>3.08</u>
<u>9 gallons</u>		<u>1206</u>	<u>21.81</u>	<u>6.96</u>	<u>1.55</u>	<u>180</u>	<u>2.81</u>
<u>12 gallons</u>		<u>1242</u>	<u>23.30</u>	<u>6.95</u>	<u>1.51</u>	<u>2000</u>	<u>1.94</u>
<u>14 gallons</u>		<u>1257</u>	<u>23.26</u>	<u>6.93</u>	<u>1.49</u>	<u>185</u>	<u>1.24</u>
<u>15 gallon</u>		<u>1307</u>	<u>20.48</u>	<u>6.97</u>	<u>1.48</u>	<u>2000</u>	<u>1.64</u>
		<u>1315</u>	<u>20.65</u>	<u>6.97</u>	<u>1.48</u>	<u>402</u>	<u>2.57</u>
		<u>1319</u>	<u>20.70</u>	<u>6.94</u>	<u>1.47</u>	<u>250</u>	<u>2.43</u>

Development Completed at 20 gallon Gallons Discharged. Date: 8/25/2010 Time: 1335.

Personnel: e. ferric

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

<u>1323</u>	<u>20.74</u>	<u>6.95</u>	<u>1.47</u>	<u>240</u>	<u>2.41</u>
<u>1325</u>	<u>20.63</u>	<u>6.94</u>	<u>1.47</u>	<u>129</u>	<u>2.38</u>
<u>1327</u>	<u>20.65</u>	<u>6.94</u>	<u>1.47</u>	<u>106</u>	<u>2.31</u>
<u>1330</u>	<u>20.69</u>	<u>6.94</u>	<u>1.47</u>	<u>93</u>	<u>2.30</u>
<u>1332</u>	<u>20.66</u>	<u>6.93</u>	<u>1.47</u>	<u>102</u>	<u>2.20</u>
<u>1334</u>	<u>20.61</u>	<u>6.93</u>	<u>1.47</u>	<u>98.8</u>	<u>2.20</u>

1002/min
20 gallon



WELL DEVELOPMENT DATA SHEET

BORING NO. Research Well field WELL NO. RFS-GW-RWF

Project FSW phase I, GW
Project No.
Date(s) of Installation 8/4/2010
Date(s) of Development 8/23/2010
Personnel/Company RJ
Type of Rig Used truck mounted

Casing Diameter/Type 7" PVC
Borehole Diameter 8.74"
Screened Interval(s) 2-10
Total Length of Well Casing 10'
Measure Total Depth (TOC) Initial Final
Initial Depth to Water (TOC) 10' Date 8/23/2010 Time 12:45
Stabilized Depth to Water (TOC) Date Time

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
Jetting (Airlift)
Surge Block
Bailing
Pumping
Other

PURGE VOLUME CALCULATION
Casing Volume: 8 Ft. of water
x .163 Gallons/foot
= 1.3 Gallons per Single Casing Volume
Sand Pack Volume: 8 Ft. of Saturated Sand Pack
x 3.3 Gallons/foot (borehole diameter)
= 26.4 Gallons (in borehole)
- 1.3 Gallons of Casing Volume
= 25.1 X 0.3 (Assuming porosity = 30%)
= 7.5 Gallons Within Sand Pack
Single Purge Volume: 32.6 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 26 Gallons (Casing Vol. + Sand Pack Vol.)
Actual Purge Volume: 30 Gallons (Casing Vol. + Sand Pack Vol.)
Volume Measured by: depth of water in drum
Rate of Development Gallons/Minute (Hour, Day)
Pumping Rate/Depth @ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness

FLUIDS ADDED
Lost Drilling Fluid: Gallons
Lost Purge Water: Gallons
Water During Installation: Gallons
Total Fluids Added: 0 Gallons
Source of Added Water:
Sample Collected of Added Water: Y N
Sample Designation of Added Water:

Development Criteria:

Table with 8 columns: Total Volume Discharge, Rate of Discharge, Time, Temp, pH, Specific* Conductance, Turbidity (NTU), and DO, Clarity, Odor, PID Readings, Other. Contains 12 rows of data.

Development Completed at 30 Gallons Discharged Date: 8/23/2010 Time: 1340

Personnel: C. Ferric

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

Table with 6 columns: Total Volume Discharge, Rate of Discharge, Time, Temp, Specific* Conductance, and DO, Clarity, Odor, PID Readings, Other. Contains 2 rows of data.



WELL DEVELOPMENT DATA SHEET

BORING NO. B460

WELL NO. RF5-GW-B460

Project FSW Phase I, GW
 Project No. _____
 Date(s) of Installation 8/5/2010
 Date(s) of Development 8/25 - 8/27/2010
 Personnel/Company VST
 Type of Rig Used truck mounted.

Casing Diameter/Type 2" PVC
 Borehole Diameter 8 3/4"
 Screened Interval(s) 8-10'
 Total Length of Well Casing 41.17.5
 Measure Total Depth (TOC) Initial _____
 Final _____
 Initial Depth to Water (TOC) 13.0 Date 8/25/2010 Time 1400
 Stabilized Depth to Water (TOC) dry Date _____ Time _____

DEVELOPMENT TECHNIQUE(S) EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing _____
 Pumping _____
 Other _____

PURGE VOLUME CALCULATION
 Casing Volume: 3.5 Ft. of water
 x .163 Gallons/foot
 = .57 Gallons per Single Casing Volume
 Sand Pack Volume: 3.5 Ft. of Saturated Sand Pack
 x 3.3 Gallons/foot (borehole diameter)
 = 11.57 Gallons (in borehole)
 - .57 Gallons of Casing Volume
 = 11 X 0.3 (Assuming porosity = 30%)
 = 3.3 Gallons Within Sand Pack
 Single Purge Volume: 4 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 12 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Actual Purge Volume: ~12 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Volume Measured by: volume in drum
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: Y N
 Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	OD, Clarity, Odor, PID Readings, Other:
<u>26 gallon</u>		<u>14:25</u>	<u>19.50</u>	<u>7.38</u>	<u>1.83</u>	<u>5999</u>	<u>1.76</u>
<u>dry</u>		<u>14:35</u>					
<u>28 gallon</u>		<u>10:34</u>	<u>16.85</u>	<u>7.74</u>	<u>1.114</u>	<u>778</u>	<u>5.20</u>
<u>29.5 gallon</u>		<u>11:05</u>	<u>17.72</u>	<u>7.97</u>	<u>.983</u>	<u>2000</u>	<u>5.14</u>
<u>10 gallon</u>		<u>11:34</u>	<u>19.50</u>	<u>7.74</u>	<u>.712</u>	<u>2000</u>	<u>4.86</u>
<u>11 gal</u>		<u>10:15</u>	<u>16.39</u>	<u>8.35</u>	<u>2.668</u>	<u>1320</u>	<u>6.13</u>
<u>12 gal</u>	<u>dry</u>	<u>10:19</u>					

Development Completed at 12 Gallons Discharged. Date: 8/27/10 Time: 10:20
 Personnel: Nolan Samson ARST

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.



WELL DEVELOPMENT DATA SHEET

BORING NO. B450

WELL NO. RFS-GW-B450

Project FSW phase I, GW
 Project No. _____
 Date(s) of Installation 8/5/2010
 Date(s) of Development 8/25/2010
 Personnel/Company RSI
 Type of Rig Used truck mounted

Casing Diameter/Type 2" PVC
 Borehole Diameter 8 1/4"
 Screened Interval(s) 6-14
 Total Length of Well Casing 16
 Measure Total Depth (TOC) Initial _____
 Final _____
 Initial Depth to Water (TOC) 13.0 Date 8/25/2010 Time 15:00
 Stabilized Depth to Water (TOC) _____ Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT
 EQUIPMENT TYPE/CAPACITY
 Jetting (Airlift) _____
 Surge Block _____
 Bailing (no recovery)
 Pumping peristaltic pump
 Other _____

PURGE VOLUME CALCULATION

Casing Volume: 3 Ft. of water
 x .168 Gallons/Foot
 = .5 Gallons per Single Casing Volume
 Sand Pack Volume: 3 Ft. of Saturated Sand Pack
 x 3.3 Gallons/Foot (borehole diameter)
 = 9.9 Gallons (in borehole)
 - .5 Gallons of Casing Volume
 = 9.4 X 0.3 (Assuming porosity = 30%)
 = 2.8 Gallons Within Sand Pack
 Single Purge Volume: 3.32 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
 Minimum Purge Volume: 9.9 Gallons (Casing Vol. + Actual Purge Volume)
 Actual Purge Volume: 10 Gallons (Casing Vol. + Volume Measured by: depth of water in drums)
 Rate of Development _____ Gallons/Minute (Hour, Day)
 Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
 Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
 Lost Purge Water: _____ Gallons
 Water During Installation: _____ Gallons
 Total Fluids Added: _____ Gallons
 Source of Added Water: _____
 Sample Collected of Added Water: 2 N
 Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
<u>~ 2.5 gallons</u>		<u>1611</u>	<u>19.42</u>	<u>7.31</u>	<u>1.103</u>	<u>599</u>	<u>3.64</u>
<u>~ 3 gallons</u>		<u>1642</u>	<u>19.01</u>	<u>7.30</u>	<u>.958</u>	<u>1571</u>	<u>3.60</u>
<u>~ 4.5 gall.</u>		<u>1700</u>	<u>19.67</u>	<u>7.21</u>	<u>.943</u>	<u>104</u>	<u>4.94</u>
		<u>815</u>	<u>18.43</u>	<u>7.52</u>	<u>1.000</u>	<u>607</u>	<u>4.30</u>
		<u>820</u>	<u>18.72</u>	<u>7.54</u>	<u>.937</u>	<u>39.5</u>	<u>4.96</u>
<u>~ 7 gallons</u>		<u>842</u>	<u>18.77</u>	<u>7.56</u>	<u>0.922</u>	<u>29.7</u>	<u>5.100</u>
<u>~ 9 gallons</u>		<u>916</u>	<u>18.75</u>	<u>7.77</u>	<u>0.907</u>	<u>21.7</u>	<u>7.33</u>
		<u>940</u>	<u>18.79</u>	<u>7.76</u>	<u>0.904</u>	<u>21.4</u>	<u>7.25</u>
		<u>944</u>	<u>18.77</u>	<u>7.76</u>	<u>0.903</u>	<u>21.8</u>	<u>7.27</u>
		<u>948</u>	<u>18.79</u>	<u>7.76</u>	<u>0.907</u>	<u>21.3</u>	<u>7.30</u>

Development Completed at 10 Gallons Discharged. Date: 8/26/2010 Time: 10:00

Personnel: C. Ferric

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

<u>~ 9.8 gallons</u>	<u>09:52</u>	<u>18.80</u>	<u>7.76</u>	<u>0.898</u>	<u>21.2</u>	<u>7.32</u>
	<u>9:56</u>	<u>18.80</u>	<u>7.77</u>	<u>0.905</u>	<u>21.1</u>	<u>7.34</u>
<u>~ 10 gallons</u>	<u>10:00</u>	<u>18.87</u>	<u>7.77</u>	<u>0.906</u>	<u>21.1</u>	<u>7.35</u>

8/24



WELL DEVELOPMENT DATA SHEET

BORING NO. Front-gate

WELL NO. RFS-GW-FrontGate.

Project FSW Phase I, GW
Project No. _____
Date(s) of Installation 8/6/2010
Date(s) of Development 8/30/2010
Personnel/Company RSI
Type of Rig Used truck mounted.

Casing Diameter/Type 2" PVC
Borehole Diameter 8 3/4"
Screened Interval(s) 6-16'
Total Length of Well Casing 11.4
Measure Total Depth (TOC) Initial _____
Final _____

Initial Depth to Water (TOC) 14.5 Date 8/30/2010 Time 11:45
Stabilized Depth to Water (TOC) 4.1 ft water Date _____ Time _____

TECHNIQUE(S) DEVELOPMENT EQUIPMENT TYPE/CAPACITY
K Jetting (Airlift) _____
K Surge Block _____
X Bailing _____
X Pumping peristaltic
Other _____

PURGE VOLUME CALCULATION

Casing Volume: 2 Ft. of water
x 3.3 Gallons/foot
= 6.6 Gallons per Single Casing Volume
Sand Pack Volume: 2 Ft. of Saturated Sand Pack
x 3.3 Gallons/foot (borehole diameter)
= 6.6 Gallons (in borehole)
- 0.3 Gallons of Casing Volume
= 6.3 X 0.3 (Assuming porosity = 30%)
= 1.9 Gallons Within Sand Pack
Single Purge Volume: 2 Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 6 Gallons (Casing Vol. + Actual Purge Volume: 7 Gallons (Casing Vol. + Volume Measured by: volume in buckets.
Rate of Development _____ Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

Development Criteria: _____

Total Volume Discharge	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	DO, Clarity, Odor, PID Readings, Other:
1 4 gallon		12:30	18.89	7.09	1.94	5999	3.77
1 4.5 gall		12:35	19.33	7.11	1.85	5999	4.69
2 5 gallons		12:46	19.38	7.15	1.73	279	5.23
2 5 gall.		12:56	19.48	7.21	1.74	283	5.68
2 5.5 gall.		13:02	19.43	7.23	1.73	196	5.46
		13:05	19.47	7.24	1.75	156	5.64
		13:08	19.44	7.25	1.75	135	5.70
		13:12	19.51	7.27	1.72	119	5.81
4 6 gallon.		13:16	19.39	7.28	1.71	112	6.09
		13:18	19.32	7.29	1.70	107	6.02

Development Completed at 7 Gallons Discharged. Date: 8/30/2010 Time: 13:30

Personnel: C. Ferriz

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

	13:20	19.30	7.30	1.71	114	6.16
	13:24	19.31	7.32	1.70	151	6.26
	13:27	19.33	7.33	1.72	115	6.25
2 7 gallons	13:30	19.35	7.34	1.72	119	6.33

* even though DO did not stab - considered done b/c such low flow causes bubbles in the flow meter, affecting DO readings.

ATTACHMENT 5
WELL SAMPLING FORMS (ROUND 4)

**Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM**

Date/Time of Sample Collection: 4/6/12 / 1530 Project Site/Subsite: _____

Sample ID: RFSGW EPA 04

Well ID: EPA Point Name: _____

Depth to Well Bottom: 14.2 ft. below top of casing (PVC cap)

Depth to Water Level: 7.78 ft. below PVC cap

Depth to Water Level: ~~ANA~~ 12.15 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

1413 min

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.35 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1523	1525	1527	1529							
PH	7.17	7.19	7.20	7.19						+/- 0.1	
Temperature (°C)	15.34	15.13	15.09	15.09						+/- 0.5 °C	
Specific Conductance (µmhos/cm)	1.45	1.65	1.65	1.65						+/- 3%	
Turbidity (NTU)	6.1	3.6	3.9	3.9						+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	.50	.41	.36	.33						+/- 0.3	
ORP (mV)	280	280	281	281						+/- 10 mV	
Each Volume Purged (L)	2	.65	.65	.65							
Total Liters Purged	2L										

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) RFSGW EPA 04-D (15:40)

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: CFerric / R. Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/12

Project Site/Subsite: RFSGW Rd 4/CPT

Sample ID: RFSGWCPT04

Well ID: CPT

Point Name: CPT

*think this might be
 CTP Coastal
 Terrace
 Prairie*

Depth to Well Bottom: 17.2 ft. below top of casing (PVC cap)

Depth to Water Level: 10.24 ft. below PVC cap

Depth to Water Level: 10.43 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump
 Bailer

Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading							Stabilization Criteria	Final
Time	15:16	15:18	15:20	15:22	15:24	15:26			
PH	7.36	7.11	7.09	7.06	7.03	7.03	+/- 0.1		
Temperature (°C)	16.78	15.14	15.14	15.26	15.16	15.17	+/- 0.5 °C		
Specific Conductance (µmhos/cm)	0.898	0.933	0.939	0.921	0.919	0.910	+/- 3%		
Turbidity (NTU)	45.1	44.1	39.2	35.7	34.4	35.8	+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	0.75	0.65	0.63	0.68	1.00	1.08	+/- 0.3		
ORP (mV)	292	293	293	293	292	292	+/- 10 mV		
Each Volume Purged (L)		1	1	1	1	1			
Total Liters Purged		1	2	3	4	5			

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) RFSGWShalCPT01 -
volatiles only

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Carolyn Fellic

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/6/12 / 11:15 Project Site/Subsite: _____

Sample ID: RFS GW PZ904

Well ID: PZ-9 Point Name: _____

Depth to Well Bottom: 19.55 ft. below top of casing (PVC cap)

Depth to Water Level: 11.31 ft. below PVC cap

Depth to Water Level: 11.61 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 7 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1100	1102	1104	1106	1108	1110	1112				
PH	6.69	6.65	6.66	6.63	6.63	6.62	6.62			+/- 0.1	
Temperature (°C)	16.58	16.58	16.65	16.68	16.75	16.86	16.81			+/- 0.5 °C	
Specific Conductance (µmhos/cm)	0.634	0.612	0.611	0.617	0.635	0.712	0.710			+/- 3%	
Turbidity (NTU)	8.7 280	9.8	8.4	9.7	8.9	9.4	8.2			+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	0.88	0.50	0.38	0.31	0.28	0.24	0.23			+/- 0.3	
ORP (mV)	280	280	280	280	280	280	279			+/- 10 mV	
Each Volume Purged (L)	1	1	1	1	1	1	1				
Total Liters Purged	1	2	3	4	5	6	7				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: _____

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/5/2012 16:12 Project Site/Subsite: RFS GW P4

Sample ID: RFSGW PZ11 P4

Well ID: PZ11 Point Name: _____

Depth to Well Bottom: 18.74' ft. below top of casing (PVC cap)

Depth to Water Level: 7.92 ft. below PVC cap

Depth to Water Level: _____ ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	16:00	16:02	16:04	16:06						
PH	5.00	5.05	5.04	5.05					+/- 0.1	
Temperature (°C)	14.80	14.79	14.80	14.81					+/- 0.5 °C	
Specific Conductance (µmhos/cm)	2.97	2.91	2.90	2.90					+/- 3%	
Turbidity (NTU)	11.5	10.8	10.5	10.4					+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.40	1.35	1.31	1.27					+/- 0.3	
ORP (mV)	290	290	290	290					+/- 10 mV	
Each Volume Purged (L)	1	1	1	1						
Total Liters Purged	1	2	3	4						

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: _____

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/6/2014 1425 Project Site/Subsite: RFS GW R4

Sample ID: RFSGW81580A

Well ID: B158 Point Name: _____

Depth to Well Bottom: 14.40 ft. below top of casing (PVC cap)

Depth to Water Level: 9.05 ft. below PVC cap

Depth to Water Level: 9.15 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

1L/3min

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	1405	1408	1411	1414	1417	1420	1423			
PH	6.63	6.57	6.58	6.59	6.58	6.61	6.62			+/- 0.1
Temperature (°C)	15.84	15.60	15.54	15.55	15.60	15.60	15.55			+/- 0.5 °C
Specific Conductance (µmhos/cm)	0.270	0.262	0.263	0.262	0.263	0.263	0.263			+/- 3%
Turbidity (NTU)	79.4	84.6	75.1	70.2	57.1	56.2	53.1			+/- 10% or +/- 10 NTU
Dissolved Oxygen (mg/L)	3.96	3.38	3.29	3.26	3.26	3.30	3.35			+/- 0.3
ORP (mV)	269	267	330	266	266	266	265			+/- 10 mV
Each Volume Purged (L)	1	1	1	1	1	1	1			
Total Liters Purged	1	2	3	4	5	6	7			

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: _____

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 9/16/2012 / 1230

Project Site/Subsite: KFSGW KA

Sample ID: KFSGWB47304

Well ID: B473 Point Name: —

Depth to Well Bottom: 17.0' ft. below top of casing (PVC cap)

Depth to Water Level: 10.12 ft. below PVC cap

Depth to Water Level: _____ ft below PVC cap prior to sampling \odot

Method of Purging: Bladder Pump Submersible Pump
Bailer -peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 33 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading						Stabilization Criteria	Final		
Time	1216	1219	1222	1225	1228					
PH	6.87	6.84	6.84	6.84	6.85		+/- 0.1			
Temperature (°C)	15.91	15.56	15.57	15.56	15.57		+/- 0.5 °C			
Specific Conductance (μ mhos/cm)	.490	.479	.474	.480	.486		+/- 3%			
Turbidity (NTU)	27.6	25.2	27.0	22.1	18.2		+/- 10% or +/- 10 NTU			
Dissolved Oxygen (mg/L)	6.01	6.47	6.56	6.60	6.58		+/- 0.3			
ORP (mV)	275	275	275	275	275		+/- 10 mV			
Each Volume Purged (L)	1	1	1	1	1					
Total Liters Purged	1L	2	3	4	5					

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): —

Comments —

Sample(s) Collected By: CFelic / R. JOHNSON.

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/6/2012 1030

Project Site/Subsite: RFSGW R4

Sample ID: RFSGWEEERC04

Well ID: EERC Point Name: _____

Depth to Well Bottom: 16.95 ft. below top of casing (PVC cap)

Depth to Water Level: 11.26 ft. below PVC cap

Depth to Water Level: 13.82 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 9 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate .33 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	1015	1018	1021	1024						
PH	6.80	6.78	6.78	6.78					+/- 0.1	
Temperature (°C)	14.84	14.82	14.79	14.80					+/- 0.5 °C	
Specific Conductance (µmhos/cm)	5.01	5.00	4.98	4.99					+/- 3%	
Turbidity (NTU)	6.7	5.8	5.3	5.9					+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	2.03	1.75	1.70	1.62					+/- 0.3	
ORP (mV)	283	284	285	286					+/- 10 mV	
Each Volume Purged (L)	1	1	1	1						
Total Liters Purged	1L	2L	3L	4L						

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: CEMIC & R. JOHNSON

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/6/2012 934 Project Site/Subsite: _____

Sample ID: RFSGWB46004

Well ID: B460 Point Name: _____

Depth to Well Bottom: 18.2 ft. below top of casing (PVC cap)

Depth to Water Level: 11.5 ft. below PVC cap

Depth to Water Level: 13.5 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer -peristaltic.

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate NA .25 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading	<i>lowered tubing</i>						Stabilization Criteria	Final
Time	913	916	919 924	926	928	930	932		
PH	6.83	6.81	4.77	6.77	6.78	6.77	6.77	+/- 0.1	
Temperature (°C)	14.76	4.72	15.19	15.09	14.96	14.99	14.94	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	433	444	423	429	434	432	433	+/- 3%	
Turbidity (NTU)	6.5	6.4	5.9	5.1	5.4	5.2	5.5	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	2.19	2.20	1.76	1.51	1.71	1.61	○	+/- 0.3	
ORP (mV)	274	274	274	274	275	275	275	+/- 10 mV	
Each Volume Purged (L)	1	1	1	.5	.5	.5	.5		
Total Liters Purged	1L	2L	3L	3.5L	4L	4.5L	5L		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): —

Comments —

Sample(s) Collected By: CLEMIE R. JOHNSON

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/6/2012 840 Project Site/Subsite: _____

Sample ID: RFSGW B45044

Well ID: B450 Point Name: _____

Depth to Well Bottom: 15.6' ft. below top of casing (PVC cap)

Depth to Water Level: 11.51 ft. below PVC cap

Depth to Water Level: 11.51 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer - peristaltic.

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 3.5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.25 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading							Stabilization Criteria	Final	
Time	826	828	830	832	834	836				
PH	6.67	6.64	6.64	6.62	6.62	6.61		+/- 0.1		
Temperature (°C)	15.40	16.32	16.32	16.42	16.47	16.42		+/- 0.5 °C		
Specific Conductance (µmhos/cm)	1,223	1,215	1,209	1,202	1,209	1,208		+/- 3%		
Turbidity (NTU)	50.7	39.9	30.7	25.0	21.9	21.6		+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	3.15	3.16	3.18	3.25	3.27	3.31		+/- 0.3		
ORP (mV)	280	280	280	280	280	280		+/- 10 mV		
Each Volume Purged (L)	1	.5	.5	.5	.5	.5				
Total Liters Purged	1	1.5	2L	2.5	3L	3.5L				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Cheryl R. Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/2/2012/ 14:07 Project Site/Subsite: RFS

Sample ID: RFSGWCTPS#4 RFS GW CTP #4 (on Table 4)

Well ID: CTPS Point Name: _____

Depth to Well Bottom: 13.9 ft. below top of casing (PVC cap)

Depth to Water Level: 7.53 ft. below PVC cap

Depth to Water Level: 10.34 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 4.5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.25 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	13:50	13:52	13:54	13:56	13:58	14:00	14:02	14:04	14:06		
PH	6.71	6.72	6.69	6.72	6.73	6.76	6.74	6.71	6.72	+/- 0.1	
Temperature (°C)	14.94	15.0	14.99	14.95	14.97	14.96	15.01	14.97	15.03	+/- 0.5 °C	
Specific Conductance (umhos/cm)	0.864	0.771	0.779	0.772	0.792	0.790	0.779	0.792	0.784	+/- 3%	
Turbidity (NTU)	13.0	12.2	10.8	9.9	9.4	9.0	9.4	8.9	10.2	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	6.37	4.70	5.00	5.42	5.64	5.95	5.99	6.14	6.0	+/- 0.3	
ORP (mV)	285	285	285	285	285	285	285	285	285	+/- 10 mV	
Each Volume Purged (L)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
Total Liters Purged	0.5L	1L	1.5L	2.0L	2.5L	3.0L	3.5L	4.0L	4.5L		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments NA

Sample(s) Collected By: C. FERLIC ; Q. JOHNSON

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/2/2012 / 1708 Project Site/Subsite: RFS GW 24

Sample ID: RFSGWTP104 *not in table*

Well ID: TP1 Point Name: —

Depth to Well Bottom: 16.8 ft. below top of casing (PVC cap)

Depth to Water Level: 9.87 ft. below PVC cap

Depth to Water Level: 9.77 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer - peristaltic -

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading						Stabilization Criteria	Final	
Time	1658	1700	1702	1704	1706				
PH	6.89	6.86	6.84	6.82	6.83		+/- 0.1		
Temperature (°C)	17.14	17.20	17.21	17.19	17.18		+/- 0.5 °C		
Specific Conductance (umhos/cm)	3.11	3.13	3.12	3.06	3.02		+/- 3%		
Turbidity (NTU)	27.4	17.2	13.2	11.2	12.0		+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	.86	.47	.36	.30	.27		+/- 0.3		
ORP (mV)	288	287	286	286	286		+/- 10 mV		
Each Volume Purged (L)	1	1	1	1	1				
Total Liters Purged	1	2	3	4	5				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): —

Comments —

Sample(s) Collected By: CHRISTOPHER JOHNSON

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/5/2012 Project Site/Subsite: RFS GW 124

Sample ID: RFSGW27804 not on list

Well ID: B278 Point Name: -

Depth to Well Bottom: 16.14 ft. below top of casing (PVC cap)

Depth to Water Level: 8.3' ft. below PVC cap

Depth to Water Level: 9.17 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer PERISTALTIC PUMP

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 9 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	11:20	11:22	11:24	11:26	11:28	11:30	11:32	11:34	11:36		
PH	6.93	6.92	6.92	6.91	6.90	6.90	6.90	6.89	6.90	+/- 0.1	
Temperature (°C)	14.94	14.80	14.82	14.95	14.90	15.07	15.12	15.17	15.13	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	3.44	3.43	3.43	3.43	3.42	3.42	3.41	3.41	3.41	+/- 3%	
Turbidity (NTU)	16.7	14.2	12.7	12.4	11.0	10.7	9.2	9.3	9.0	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.87	1.87	1.90	1.91	1.91	1.72	1.57	1.20	1.43	+/- 0.3	
ORP (mV)	299	299	300	300	300	300	300	301	301	+/- 10 mV	
Each Volume Purged (L)	1	1	1	1	1	1	1	1	1		
Total Liters Purged	1	2	3	4	5	6	7	8	9		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments None

Sample(s) Collected By: C FERLIC ; Q JOHNSON

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/5/2012, 15:11 Project Site/Subsite: RFS

Sample ID: RFSGNWTA04

Well ID: WTA Point Name: -

Depth to Well Bottom: 14.0 ft. below top of casing (PVC cap)

Depth to Water Level: 5.20 ft. below PVC cap

Depth to Water Level: 5.55 ft below PVC cap AFTER sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 9 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	14:54	14:56	14:58	15:00	15:02	15:04	15:06	15:08	15:10		
PH	7.20	7.21	7.19	7.15	7.15	7.15	7.15	7.14	7.14	+/- 0.1	
Temperature (°C)	14.77	14.68	14.73	14.84	14.89	14.90	14.91	14.93	14.92	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	1.84	1.84	1.81	1.78	1.74	1.72	1.73	1.71	1.72	+/- 3%	
Turbidity (NTU)	70.2	59.1	14.1	11.8	10.7	9.2	9.1	8.5	8.0	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	0.73	0.38	0.29	0.26	0.25	0.23	0.23	0.21	0.22	+/- 0.3	
ORP (mV)	280	280	287	287	287	287	287	287	287	+/- 10 mV	
Each Volume Purged (L)	1	1	1	1	1	1	1	1	1		
Total Liters Purged (L)	1	2	3	4	5	6	7	8	9		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments ROOTS IN SAMPLE WATER

Sample(s) Collected By: C. FERLIC, Q. JOHNSON

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/5/2012 10:32 Project Site/Subsite: RFS

Sample ID: RFSGVMFA04

Well ID: MFA Point Name: MFA

Depth to Well Bottom: 13.8' ft. below top of casing (PVC cap)

Depth to Water Level: 2.35 ft. below PVC cap

Depth to Water Level: 2.34 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 9 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	10:13	10:15	10:17	10:19	10:21	10:23	10:25	10:27	10:29		
PH	7.21	7.15	7.11	7.10	7.12	7.08	7.09	7.09	7.08	+/- 0.1	
Temperature (°C)	14.55	14.63	14.66	14.72	14.77	14.82	14.81	14.83	14.83	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	1.335	1.163	1.137	1.130	1.092	1.100	1.081	1.092	1.082	+/- 3%	
Turbidity (NTU)	31.9	37.7	32.7	28.5	26.1	24.3	22.4	21.2	18.9	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	0.56	0.38	0.32	0.27	0.25	0.25	0.23	0.23	0.22	+/- 0.3	
ORP (mV)	303	305	304	306	305	305	305	304	303	+/- 10 mV	
Each Volume Purged (L)	1	1	1	1	1	1	1	1	1		
Total Liters Purged	1	2	3	4	5	6	7	8	9		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: aferriz / A. Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/5/2012 / 9:37

Project Site/Subsite: RFS

Sample ID: KFS GWBULB194

Well ID: BULB1 Point Name: BULB1

Depth to Well Bottom: 18.00 ft. below top of casing (PVC cap)

Depth to Water Level: 3.93 ft. below PVC cap

Depth to Water Level: 6.80 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump
Bailer Submersible Pump
PERISTALTIC PUMP

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 6 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading							Stabilization Criteria	Final		
Time	9:25	9:27	9:29	9:31	9:33	9:35					
PH	8.02	8.07	8.08	8.08	8.08	8.08			+/- 0.1		
Temperature (°C)	14.15	14.00	14.03	14.07	14.11	14.13			+/- 0.5 °C		
Specific Conductance (µmhos/cm)	40.0	40.0	40.0	40.0	40.0	40.0			+/- 3%		
Turbidity (NTU)	22.0	17.0	16.1	13.8	12.1	14.2			+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	0.54	0.44	0.33	0.30	0.27	0.25			+/- 0.3		
ORP (mV)	299	301	303	304	305	305			+/- 10 mV		
Each Volume Purged (L)	1	1	1	1	1	1					
Total Liters Purged	1	2	3	4	5	6					

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments None

Sample(s) Collected By: CF, RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/5/2012/ 900 Project Site/Subsite: _____

Sample ID: 2FSGWBULLB204

Well ID: BULLB2 Point Name: _____

Depth to Well Bottom: 18.4 ft. below top of casing (PVC cap)

Depth to Water Level: 3.34 ft. below PVC cap

Depth to Water Level: 3.35 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer - peristaltic pump -

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	845	847	849	851	853	855	857			
PH	7.05	7.09	7.09	7.09	7.09	7.09	7.08		+/- 0.1	
Temperature (°C)	14.87	14.74	14.75	14.78	14.82	14.83	14.83		+/- 0.5 °C	
Specific Conductance (µmhos/cm)	11.08	9.55	9.18	8.94	8.83	8.76	8.72		+/- 3%	
Turbidity (NTU)									+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.95	1.71	1.61	1.48	1.43	1.39	1.35		+/- 0.3	
ORP (mV)	296	299	300	301	301	301	301		+/- 10 mV	
Each Volume Purged (L)	1	1	1	1	1	1	1			
Total Liters Purged	1L	2L	3L	4L	5L	6L	7L			

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): —

Comments —

Sample(s) Collected By: Cherie / Q. Johnson.

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 9/4/2012/ 1540 Project Site/Subsite: _____

Sample ID: RFSGWB17704

Well ID: B177 Point Name: _____

Depth to Well Bottom: 18.76' ft. below top of casing (PVC cap)

Depth to Water Level: 7.85' ft. below PVC cap

Depth to Water Level: 7.82' ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer - peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	1528	1530	1532	1534	1536					
PH	6.22	6.18	6.19	6.19	6.19				+/- 0.1	
Temperature (°C)	15.53	15.42	15.41	15.41	15.36				+/- 0.5 °C	
Specific Conductance (µmhos/cm)	.480	.482	.473	.481	.474				+/- 3%	
Turbidity (NTU)	77.4	50.6	40.8	39.4	40.3				+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	4.69	4.62	4.48	4.46	4.49				+/- 0.3	
ORP (mV)	288	288	288	288	288				+/- 10 mV	
Each Volume Purged (L)	1	1	1	1	1					
Total Liters Purged	1L	2L	3L	4L	5L					

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Cherice Kennedy

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/14/2014 1502

Project Site/Subsite: RFS GW 2A

Sample ID: RFSGWB3804

Well ID: 038 Point Name: _____

Depth to Well Bottom: 15.85' ft. below top of casing (PVC cap)

Depth to Water Level: 6.23' ft. below PVC cap

Depth to Water Level: 6.32' ft. below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer - peristaltic -

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 6 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading							Stabilization Criteria	Final	
Time	1451	1453	1455	1457	1459	1501				
PH	6.56	6.54	6.57	6.53	6.54	6.54	+/- 0.1			
Temperature (°C)	14.45	14.44	14.47	14.47	14.50	14.50	+/- 0.5 °C			
Specific Conductance (umhos/cm)	.399	.406	.405	.403	.406	.408	+/- 3%			
Turbidity (NTU)	14.8	12.5	10.1	10.2	9.4	9.2	+/- 10% or +/- 10 NTU			
Dissolved Oxygen (mg/L)	2.54	2.22	2.06	1.85	1.77	1.72	+/- 0.3			
ORP (mV)	283	284	284	285	285	285	+/- 10 mV			
Each Volume Purged (L)	1	1	1	1	1	1				
Total Liters Purged	1L	2L	3L	4L	5L	6L				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): —

Comments —

Sample(s) Collected By: C. Ferric / C. Kennedy

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/1/2012 1400

Project Site/Subsite: RFS GW 24

Sample ID: RFSGWRWF04

Well ID: RWF. Point Name: —

Depth to Well Bottom: 17.76 ft. below top of casing (PVC cap)

Depth to Water Level: 4.96 ft. below PVC cap

Depth to Water Level: 6.99' ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer peristaltic.

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 6 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading							Stabilization Criteria	Final	
Time	1345	1347	1349	1351	1353	1355				
PH	6.90	6.81	6.73	6.72	6.75	6.76		+/- 0.1		
Temperature (°C)	15.58	15.62	15.67	15.59	15.54	15.57		+/- 0.5 °C		
Specific Conductance (µmhos/cm)	1.187	1.244	1.269	1.199	1.153	1.152		+/- 3%		
Turbidity (NTU)	—	46.7	53.4	54.6	58.3	62.6		+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	1.12	0.79	0.39	.31	.28	.28		+/- 0.3		
ORP (mV)	292	293	293	293	293	293		+/- 10 mV		
Each Volume Purged (L)	1	1	1	1	1	1				
Total Liters Purged	7L	2L	3L	4L	5L	6L				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): —

Comments —

Sample(s) Collected By: C. Kelly, C. Kennedy

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/14/2012 1328 Project Site/Subsite: RFS GW 12A

Sample ID: KFSGWB194A

Well ID: B194 Point Name: _____

Depth to Well Bottom: 17.1 ft. below top of casing (PVC cap)

Depth to Water Level: 7.04 ft. below PVC cap

Depth to Water Level: ~~17.1~~ 7.85' ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump _____ Submersible Pump _____
 Bailer _____

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	1308	1310	1312	1314	1316					
PH	6.83	6.82	6.83	6.83	6.84				+/- 0.1	
Temperature (°C)	16.13	16.00	16.06	16.07	16.13				+/- 0.5 °C	
Specific Conductance (µmhos/cm)	.905	.908	.917	.903	.928				+/- 3%	
Turbidity (NTU)	35.5	32.8	33.0	33.0	35.4				+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	2.93	2.54	2.40	2.28	2.22				+/- 0.3	
ORP (mV)	292	292	292	292	292				+/- 10 mV	
Each Volume Purged (L)	1L	1L	1L	1L	1L					
Total Liters Purged	1L	2L	3L	4L	5L					

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): —

Comments —

Sample(s) Collected By: C. K. Kennedy

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/12/2017 1105 Project Site/Subsite: _____

Sample ID: RFSGW B175W 04

Well ID: B175W Point Name: _____

Depth to Well Bottom: 19.81 ft. below top of casing (PVC cap)

Depth to Water Level: 4.03 ft. below PVC cap

Depth to Water Level: 4.51 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer peristaltic pump

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 8L Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	1048	1050	1052	1054	1056	1058	11:00	11:02		
PH	6.84	6.69	6.65	6.63	6.61	6.61	6.59	6.59	+/- 0.1	
Temperature (°C)	16.16	16.15	16.20	16.25	16.22	16.22	16.27	16.21	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	.400	.377	.370	.359	.358	.350	.354	.355	+/- 3%	
Turbidity (NTU)	10.3	7.2	8.5	8.6	9.9	9.7	10.3	12.4	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	2.03	2.13	1.90	1.70	1.62	1.55	1.51	1.53	+/- 0.3	
ORP (mV)	285	285	285	284	284	284	284	284	+/- 10 mV	
Each Volume Purged (L)	1L	1L	1L	1L	1L	1L	1L	1L		
Total Liters Purged	1L	2L	3L	4L	5L	6L	7L	8L		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: C. Ferris / C. Kennedy

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/11/2012/ 1020 Project Site/Subsite: NFS GW R4

Sample ID: NFS GW BASS 04

Well ID: 1755 Point Name: _____

Depth to Well Bottom: 14.82 ft. below top of casing (PVC cap)

Depth to Water Level: 7.01 ft. below PVC cap

Depth to Water Level: ~~7.01~~ 7.08' ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 9L Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1002	1004	1006	1008	1010	1012	1014	1016	1018		
PH	6.65	6.65	6.64	6.65	6.67	6.67	6.68	6.69	6.69	+/- 0.1	
Temperature (°C)	15.28	15.34	15.43	15.52	15.59	15.54	15.59	15.60	15.62	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	.874	.874	.874	.859	.861	.855	.861	.869	.864	+/- 3%	
Turbidity (NTU)	16.8	22.4	30.5	50.4	43.3	36.4	30.7	25.6	23.0	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	3.59	3.60	3.44	3.25	2.93	2.94	2.72	2.61	2.50	+/- 0.3	
ORP (mV)	291	291	292	292	292	292	292	292	292	+/- 10 mV	
Each Volume Purged (L)	1L	1L	1L	1L	1L	1L	1L	1L	1L		
Total Liters Purged	1L	2L	3L	4L	5L	6L	7L	8L	9L		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): —

Comments —

Sample(s) Collected By: Michael C. Kennedy

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/1/2024 939 Project Site/Subsite: RFS GW RA

Sample ID: RFSGW B12144

Well ID: B121 Point Name: _____

Depth to Well Bottom: 17.8' ft. below top of casing (PVC cap)

Depth to Water Level: 7.23 ft. below PVC cap

Depth to Water Level: 7.41 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer peristaltic pump

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 9 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	916	918	920	922	924	926	928	930	932		
PH	7.00	6.95	6.94	6.93	6.93	6.92	6.92	6.92	6.91	+/- 0.1	
Temperature (°C)	15.32	15.49	15.59	15.61	15.67	15.78	15.83	15.85	15.81	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	.865	.857	.845	.858	.857	.858	.845	.851	.850	+/- 3%	
Turbidity (NTU)	38.0	34.6	46.1	38.1	30.6	28.1	24.0	21.2	19.5	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.29	1.07	.96	.87	.80	.71	.64	.61	.61	+/- 0.3	
ORP (mV)	289	290	290	290	291	290	291	291	291	+/- 10 mV	
Each Volume Purged (L)	1L	1L	1L	1L	1L	1L	1L	1L	1L		
Total Liters Purged	1L	2L	3L	4L	5L	6L	7L	8L	9L		

Duplicate Sample Collected? Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: CFERUC / C. Kennedy

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/4/2012 8:45 Project Site/Subsite: IFS GWR4

Sample ID: IFSGWCCCT04

Well ID: CCCT Point Name: _____

Depth to Well Bottom: 15.11 ft. below top of casing (PVC cap)

Depth to Water Level: 4.09' ft. below PVC cap

Depth to Water Level: 4.22 ft below PVC cap ^{after} _{prior} to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer peristaltic.

Minimum Purge Volume: Two-inch well _____ Liters
Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 7L Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5L Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading							Stabilization Criteria	Final	
Time	8:32	8:34	8:36	8:36	8:40	8:42	8:44			
PH	7.05	7.02	7.00	6.99	6.98	6.97	6.96	+/- 0.1		
Temperature (°C)	13.63	13.98	14.07	14.11	14.24	14.26	14.30	+/- 0.5 °C		
Specific Conductance (µmhos/cm)	2.06	1.96	1.92	1.90	1.85	1.82	1.82	+/- 3%		
Turbidity (NTU)	53.9	51.3	38.2	31.9	25.2	21.0	18.6	+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	1.08	.57	.49	.42	.37	.31	.30	+/- 0.3		
ORP (mV)	298	295	292	291	290	289	290	+/- 10 mV		
Each Volume Purged (L)	1L	1L	1L	1L	1L	1L	1L			
Total Liters Purged	1L	2L	3L	4L	5L	6L	7L			

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments none.

Sample(s) Collected By: CFR/CL C. Kennedy.

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/12 16:55 Project Site/Subsite: RFS GW Rd4 / B277

Sample ID: RFSGW B277 04

Well ID: B277 Point Name: _____

Depth to Well Bottom: 17.9 ft. below top of casing (PVC cap)

Depth to Water Level: 9.75 ft. below PVC cap

Depth to Water Level: 9.77 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump
 Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters
 Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading							Stabilization Criteria	Final	
Time	16:43	16:45	16:47	16:49	16:51	16:53				
PH	7.06	7.31	7.34	7.34	7.34		+/- 0.1			
Temperature (°C)	16.97	15.81	15.80	15.77	15.71	15.71	+/- 0.5 °C			
Specific Conductance (µmhos/cm) ^{in 3/cm}	0.795	0.735	0.733	0.738	0.738	0.737	+/- 3%			
Turbidity (NTU)	32.2	28.0	21.2	19.8	18.5	18.2	+/- 10% or +/- 10 NTU			
Dissolved Oxygen (mg/L)	1.30	0.61	0.43	0.34	0.29	0.28	+/- 0.3			
ORP (mV)	292	292	292	292	292	292	+/- 10 mV			
Each Volume Purged (L)		1	1	1	1	1				
Total Liters Purged		1	2	3	4	5				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Carolyn Fellic

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/12 16:20 Project Site/Subsite: RFSGW 4/B280A

Sample ID: RFSGW B280A 4

Well ID: B280A Point Name: _____

Depth to Well Bottom: 13.6 ft. below top of casing (PVC cap)

Depth to Water Level: 10.14 ft. below PVC cap

Depth to Water Level: 10.15 ft below PVC cap ^{after} ~~prior to~~ sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 6 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading							Stabilization Criteria	Final
Time	<u>16:07</u>	<u>16:08</u>	<u>16:08</u>	<u>16:10</u>	<u>16:12</u>	<u>16:14</u>	<u>16:16</u>		
PH	<u>7.08</u>	<u>6.93</u>	<u>6.91</u>	<u>6.92</u>	<u>6.92</u>	<u>6.92</u>	<u>6.92</u>	+/- 0.1	
Temperature (°C)	<u>16.89</u>	<u>16.37</u>	<u>16.34</u>	<u>16.34</u>	<u>16.33</u>	<u>16.31</u>	<u>16.33</u>	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	<u>0.890</u>	<u>0.877</u>	<u>0.879</u>	<u>0.879</u>	<u>0.885</u>	<u>0.887</u>	<u>0.885</u>	+/- 3%	
Turbidity (NTU)	<u>23.4</u>	<u>18.7</u>	<u>17.5</u>	<u>16.8</u>	<u>16.0</u>	<u>16.2</u>	<u>15.9</u>	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	<u>2.95</u>	<u>1.12</u>	<u>0.86</u>	<u>0.54</u>	<u>0.42</u>	<u>0.34</u>	<u>0.32</u>	+/- 0.3	
ORP (mV)	<u>292</u>	<u>293</u>	<u>293</u>	<u>293</u>	<u>293</u>	<u>293</u>	<u>293</u>	+/- 10 mV	
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>		
Total Liters Purged		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Carolyn Ferric

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/12 15:05 Project Site/Subsite: RFS GW-FSW3

Sample ID: ~~RFSGW CPT DEEP~~ RFSGW DEEP CPT

Well ID: CPT DEEP Point Name: CPT DEEP *think this might be CPT*

Depth to Well Bottom: 40.3 ft. below top of casing (PVC cap)

Depth to Water Level: 10.54 ft. below PVC cap

Depth to Water Level: 13.08 ft below PVC cap ^{after} prior to sampling

Method of Purging: Bladder Pump
Bailer Submersible Pump Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading							Stabilization Criteria	Final
Time	<u>14:51</u>	<u>14:57</u>	<u>15:00</u>	<u>15:02</u>					
PH	<u>7.60</u>	<u>7.63</u>	<u>7.67</u>	<u>7.65</u>				+/- 0.1	
Temperature (°C)	<u>17.46</u>	<u>16.13</u>	<u>16.15</u>	<u>16.17</u>				+/- 0.5 °C	
Specific Conductance (µmhos/cm)	<u>0.669</u>	<u>0.650</u>	<u>0.641</u>	<u>0.649</u>				+/- 3%	
Turbidity (NTU)	<u>34.3</u>	<u>30.6</u>	<u>35.9</u>	<u>38.1</u>				+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	<u>4.55</u>	<u>0.9</u>	<u>0.51</u>	<u>0.44</u>				+/- 0.3	
ORP (mV)	<u>290</u>	<u>290</u>	<u>290</u>	<u>290</u>				+/- 10 mV	
Each Volume Purged (L)		<u>3</u>	<u>1 1/2</u>	<u>1</u>					
Total Liters Purged		<u>3</u>	<u>4 1/2</u>	<u>5 1/2</u>					

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments Volatiles only

Sample(s) Collected By: Carolyn Fedic

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/12 14:25 Project Site/Subsite: RFS GW Pd 4 / B2801

Sample ID: RFS GW B2801 B04

Well ID: B2801 Point Name: B2801

Depth to Well Bottom: 16.0 ft. below top of casing (PVC cap)

Depth to Water Level: 9.94 ft. below PVC cap

Depth to Water Level: 16.0 ^{12.74} ft below PVC cap after ~~prior~~ to sampling

Method of Purging: Bladder Pump
Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters
Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading							Stabilization Criteria	Final	
Time	<u>14:10</u>	<u>14:12</u>	<u>14:14</u>	<u>14:16</u>	<u>14:18</u>	<u>14:20</u>				
PH	<u>7.17</u>	<u>7.35</u>	<u>7.37</u>	<u>7.37</u>	<u>7.39</u>	<u>7.40</u>	+/- 0.1			
Temperature (°C)	<u>21.40</u>	<u>15.58</u>	<u>15.41</u>	<u>15.34</u>	<u>15.31</u>	<u>15.30</u>	+/- 0.5 °C			
Specific Conductance (µmhos/cm)	<u>1.028</u>	<u>0.878</u>	<u>0.894</u>	<u>0.886</u>	<u>0.893</u>	<u>0.895</u>	+/- 3%			
Turbidity (NTU)	<u>59.4</u>	<u>34.0</u>	<u>19.1</u>	<u>22.1</u>	<u>22.3</u>	<u>21.6</u>	+/- 10% or +/- 10 NTU			
Dissolved Oxygen (mg/L)	<u>5.35</u>	<u>6.56</u>	<u>6.60</u>	<u>6.61</u>	<u>6.70</u>	<u>6.71</u>	+/- 0.3			
ORP (mV)	<u>293</u>	<u>293</u>	<u>293</u>	<u>293</u>	<u>293</u>	<u>293</u>	+/- 10 mV			
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>				
Total Liters Purged		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Caselyn Fertic

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/12 12:50 Project Site/Subsite: RTSGW Rd 4/B195
 Sample ID: RTSGWB19504

Well ID: B195 Point Name: B195

Depth to Well Bottom: 16.2 ft. below top of casing (PVC cap)

Depth to Water Level: 4.51 ft. below PVC cap

Depth to Water Level: 4.51 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump
 Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters
 Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading						Stabilization Criteria	Final	
Time		12:35	12:37	12:39	12:41	12:43	12:45		
PH		6.89	6.88	6.93	6.92	6.91	6.89	+/- 0.1	
Temperature (°C)		15.87	14.87	14.63	14.66	14.67	14.69	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	ms/cm	2.20	1.50	1.147	1.124	1.103	1.081	+/- 3%	
Turbidity (NTU)		103	80.2	60.9	48.8	44.0	42.1	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)		1.45	2.10	3.25	3.54	3.65	3.66	+/- 0.3	
ORP (mV)		292	293	292	292	292	292	+/- 10 mV	
Each Volume Purged (L)			1	1	1	1	1		
Total Liters Purged			1	2	3	4	5		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Carolyn Ferlic

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/12 11:00 Project Site/Subsite: RFS GW Rd 4 / B197
 Sample ID: RFSGW B197D4

Well ID: B197 Point Name: B197

Depth to Well Bottom: ~~7.50~~ ft. below top of casing (PVC cap) → SEEMS to be an obstruction @ 7.5 ft
 Depth to Water Level: 4.09 ft. below PVC cap
 Depth to Water Level: 4.30 ft below PVC cap after original prior to sampling

Method of Purging: Bladder Pump Submersible Pump Peristaltic Pump
 Bailer

Minimum Purge Volume: Two-inch well _____ Liters
 Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 8 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.54m Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	10:44	10:46	10:48	10:50	10:52	10:54	10:56	10:58	11:00		
PH	6.80	6.75	6.78	6.79	6.79	6.79	6.78	6.77	6.77	+/- 0.1	
Temperature (°C)	15.93	15.84	15.93	16.03	16.12	16.14	16.12	16.12	16.12	+/- 0.5 °C	
Specific Conductance (µmhos/cm) ^{ms/cm}	2.81	2.94	3.03	3.21	3.23	3.13	3.03	2.98	2.99	+/- 3%	
Turbidity (NTU)	119	100	67.1	57.1	54.5	54.4	51.2	47.8	47.6	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	0.85	0.70	0.57	0.48	0.40	0.37	0.36	0.39	0.31	+/- 0.3	
ORP (mV)	245	226	213	223	240	251	259	264	265	+/- 10 mV	
Each Volume Purged (L)		1	1	1	1	1	1	1	1		
Total Liters Purged		1	2	3	4	5	6	7	8		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) RFSGW B197D4D

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): Sulfur Smell

Comments Obstruction in well, looks like plant matter?

Sample(s) Collected By: Carolyn Fellic

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/12 Project Site/Subsite: RFS GW Rd 4 / B120
 Sample ID: RFS GW B120 04

Well ID: B120 Point Name: B120

Depth to Well Bottom: 13.2 ft. below top of casing (PVC cap)

Depth to Water Level: 2.91 ft. below PVC cap

Depth to Water Level: 2.97 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump Bailer Submersible Pump Peristaltic Pump

Minimum Purge Volume: Two-inch well _____ Liters
 Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 7 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	<u>09:15</u>	<u>09:17</u>	<u>09:19</u>	<u>09:21</u>	<u>09:23</u>	<u>09:25</u>	<u>09:27</u>	<u>09:29</u>			
PH	<u>6.93</u>	<u>6.97</u>	<u>6.95</u>	<u>6.92</u>	<u>6.91</u>	<u>6.90</u>	<u>6.89</u>	<u>6.89</u>		+/- 0.1	
Temperature (°C)	<u>14.78</u>	<u>14.99</u>	<u>15.00</u>	<u>14.99</u>	<u>14.99</u>	<u>15.00</u>	<u>15.00</u>			+/- 0.5 °C	
Specific Conductance (µmhos/cm)	<u>3.78</u>	<u>3.74</u>	<u>3.37</u>	<u>3.12</u>	<u>3.01</u>	<u>2.91</u>	<u>2.86</u>	<u>2.84</u>		+/- 3%	
Turbidity (NTU)	<u>86.9</u>	<u>104</u>	<u>77.0</u>	<u>64.9</u>	<u>58.9</u>	<u>54.5</u>	<u>53.3</u>	<u>53.3</u>		+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	<u>0.94</u>	<u>0.99</u>	<u>0.43</u>	<u>0.36</u>	<u>0.32</u>	<u>0.29</u>	<u>0.29</u>	<u>0.28</u>		+/- 0.3	
ORP (mV)	<u>315</u>	<u>315</u>	<u>314</u>	<u>314</u>	<u>314</u>	<u>314</u>	<u>314</u>	<u>314</u>		+/- 10 mV	
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>			
Total Liters Purged		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>			

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Cody Feltic

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 08:28, 4/3/12 Project Site/Subsite: RFSGWAd4/B178

Sample ID: RFSGW B17804

Well ID: B178 Point Name: B178

Depth to Well Bottom: 13.5 ft. below top of casing (PVC cap)

Depth to Water Level: 1.75 ft. below PVC cap 1.78 after sampling

Depth to Water Level: _____ ft below PVC cap prior to sampling

Method of Purging: Bladder Pump
Bailer Submersible Pump
Peristaltic Pump

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged: 3 1/2 saw Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	<u>8:33</u>	<u>8:35</u>	<u>8:37</u>	<u>8:39</u>	<u>8:41</u>	<u>8:43</u>	<u>8:45</u>	<u>8:47</u>	<u>8:48</u>		
PH	<u>6.93</u>	<u>6.92</u>	<u>6.92</u>	<u>6.91</u>	<u>6.90</u>	<u>6.88</u>	<u>6.85</u>	<u>6.84</u>		+/- 0.1	
Temperature (°C)	<u>15.36</u>	<u>15.44</u>	<u>15.40</u>	<u>15.38</u>	<u>15.32</u>	<u>15.36</u>	<u>15.37</u>	<u>15.38</u>		+/- 0.5 °C	
Specific Conductance (µmhos/cm)	<u>3.72</u>	<u>3.66</u>	<u>3.63</u>	<u>3.59</u>	<u>3.35</u>	<u>3.27</u>	<u>3.11</u>	<u>3.01</u>		+/- 3%	
Turbidity (NTU)	<u>89.9</u>	<u>8.2</u>	<u>39.3</u>	<u>29.1</u>	<u>23.9</u>	<u>20.9</u>	<u>19.4</u>	<u>19.5</u>		+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	<u>1.98</u>	<u>0.79</u>	<u>0.65</u>	<u>0.50</u>	<u>0.47</u>	<u>0.41</u>	<u>0.38</u>	<u>0.36</u>		+/- 0.3	
ORP (mV)	<u>317</u>	<u>317</u>	<u>317</u>	<u>317</u>	<u>316</u>	<u>316</u>	<u>316</u>	<u>316</u>		+/- 10 mV	
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>			
Total Liters Purged			<u>1</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) NO

MS/MSD Sample Collected? No Yes NO

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Carolyn Fetic

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/12, 12:10 Project Site/Subsite: RFSGWAD 4/P28
 Sample ID: RFSGWAD 2804

Well ID: P28 Point Name: P28

Depth to Well Bottom: 20.6 ft. below top of casing (PVC cap)

Depth to Water Level: 4.45 ft. below PVC cap

Depth to Water Level: 4.45 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump Submersible Pump
 Bailor Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters
 Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 7 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	11:52	11:54	11:56	11:58	12:00	12:02	12:04	12:06			
PH	6.82	6.77	6.74	6.72	6.73	6.72	6.72	6.72	+/- 0.1		
Temperature (°C)	16.05	15.55	15.40	15.40	15.35	15.40	15.35	15.35	+/- 0.5 °C		
Specific Conductance (µmhos/cm) ^{mS/cm}	1161	0.861	0.853	0.861	0.853	0.867	0.868	0.868	+/- 3%		
Turbidity (NTU)	116	90.4	81.2	73.3	61.9	60.1	51.1	47.1	+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	0.78	0.67	0.54	0.47	0.41	0.38	0.36	0.36	+/- 0.3		
ORP (mV)	284	284	285	286	287	287	288	288	+/- 10 mV		
Each Volume Purged (L)		1	1	1	1	1	1	1			
Total Liters Purged		1	2	3	4	5	6	7			

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Candyn Ferric

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/2/2012, 16:54 Project Site/Subsite: RFS

Sample ID: RFSQWB12004

Well ID: B120 Point Name: B120

Depth to Well Bottom: ~~4.33~~ 15.95 ft. below top of casing (PVC cap)

Depth to Water Level: 4.33 ft. below PVC cap

Depth to Water Level: 7.66 ft below PVC cap ^{AFTER} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer **PERISTALTIC PUMP**

Minimum Purge Volume: Two-inch well _____ Liters
Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill= _____ Discharge= _____ Throttle= _____ psi

Total Purged 9 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	4:33	4:35	16:37	16:39	16:41	16:43	16:45	16:47	16:49		
PH	6.88	5.68 6.88	6.88	6.88	6.89	6.89	6.18	6.18	6.89	+/- 0.1	
Temperature (°C)	15.89	15.10	14.91	14.92	14.95	14.94	14.95	15.03	15.01	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	8.686	0.683	0.688	0.687	0.688	0.671	0.675	0.677	0.679	+/- 3%	
Turbidity (NTU)	41.8	45.5	43.3	41.7	41.7	41.1	41.2	41.2	41.8	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.85	1.88	1.89	1.89	1.87	1.87	1.86	1.87	1.86	+/- 0.3	
ORP (mV)	387	380	380	385	385	384	384	384	384	+/- 10 mV	
Each Volume Purged (L)	1	1	1	1	1	1	1	1	1		
Total Liters Purged	1	2	3	4	5	6	7	8	9		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments NONE

Sample(s) Collected By: CE, QJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/2/2012/ 15:42

Project Site/Subsite: RFS

Sample ID: RFS GW B16304

Well ID: B163 Point Name: B163

Depth to Well Bottom: 16.68 ft. below top of casing (PVC cap)

Depth to Water Level: 3.27 ft. below PVC cap

Depth to Water Level: 3.30 ft below PVC cap ^{AFTER} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer PERISTALTIC PUMP

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 9 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.5 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	3:25	3:27	3:29	3:31	3:33	3:35	3:37	3:39	3:41		
PH	5.00	6.00	5.00	5.00	5.00	6.00	5.81	5.81	5.81	+/- 0.1	
Temperature (°C)	16.83	16.84	16.92	16.92	16.94	16.95	16.97	16.99	16.96	+/- 0.5 °C	
Specific Conductance (µmhos/cm)	3.20	3.26	3.25	3.24	3.24	3.24	3.24	3.24	3.23	+/- 3%	
Turbidity (NTU)	25.0 5.00	22.8	313.0 126.0	120	111	87.7	88.6	65.7	68.7	+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.55	20.4	1.31	1.14	1.05	0.96	0.80	0.85	0.74	+/- 0.3	
ORP (mV)	314	314	313	313	313	312	312	312	312	+/- 10 mV	
Each Volume Purged (L)	1	1	1	1	1	1	1	1	1		
Total Liters Purged	1	2	3	4	5	6	7	8	9		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments None.

Sample(s) Collected By: CF; QJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/2/2012 / 17:30 Project Site/Subsite: RFS

Sample ID: RFSGW/B18504

Well ID: B185 Point Name: B185

Depth to Well Bottom: 13.86 ft. below top of casing (PVC cap)

Depth to Water Level: 1.72 ft. below PVC cap

Depth to Water Level: 2.24 ft below PVC cap AFTER ~~prior~~ to sampling

Method of Purging: Bladder Pump Bailer Submersible Pump
PERISTALTIC PUMP

Minimum Purge Volume: Two-inch well _____ Liters
 Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading							Stabilization Criteria	Final	
Time	17:24	17:26	17:28	17:30	17:32	17:34				
PH	6.57	6.54	6.54	6.54	6.55	6.50		+/- 0.1		
Temperature (°C)	14.85	14.95	14.97	14.90	15.05	15.05		+/- 0.5 °C		
Specific Conductance (µmhos/cm)	2.02	2.04	2.05	2.05	2.10	2.10		+/- 3%		
Turbidity (NTU)	45.3	49.5	48.0	47.4	45.0	44.4		+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	1.52	0.80	0.63	0.45	0.36	0.32		+/- 0.3		
ORP (mV)	300	300	309	309	309	309		+/- 10 mV		
Each Volume Purged (L)	1	1	1	1	1	1				
Total Liters Purged	1	2	3	4	5	6				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments NONE

Sample(s) Collected By: CF, QT

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total require.

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/11/2012 1050 Project Site/Subsite: RFSGW 2A

Sample ID: RFSGWGE004

Well ID: GEO Point Name: _____

Depth to Well Bottom: 16.1' ft. below top of casing (PVC cap)

Depth to Water Level: 8.35' ft. below PVC cap

Depth to Water Level: _____ ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 6 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 3 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	1640	1643	1646	1649						
PH	7.14	7.13	7.14	7.14					+/- 0.1	
Temperature (°C)	15.02	15.05	15.02	15.02					+/- 0.5 °C	
Specific Conductance (µmhos/cm)	.955	.949	.951	.951					+/- 3%	
Turbidity (NTU)	8.1	7.4	6.1	5.3					+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.52	1.33	1.25	1.30					+/- 0.3	
ORP (mV)	280	281	280	280					+/- 10 mV	
Each Volume Purged (L)	3	1	1	1						
Total Liters Purged	3L	4L	5L	6L						

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Clement R. Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/5/2012/ 1220 Project Site/Subsite: RFS GW R4

Sample ID: RFSGWDR04 / RFSGWDR04A
4/6/2012/1450

Well ID: RH. Point Name: _____

Depth to Well Bottom: 10.7 ft. below top of casing (PVC cap) → *distraction, tape won't go deeper.*

Depth to Water Level: 7.84/8.07 ft. below PVC cap

Depth to Water Level: 9.03 ft below PVC cap *after* prior to sampling

Method of Purging: Bladder Pump Submersible Pump
 Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 6 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading							Stabilization Criteria	Final	
Time	1208	1210	1212	1214	1216	1218				
PH	6.31	6.27	6.28	6.27	6.25	6.26		+/- 0.1		
Temperature (°C)	14.87	14.77	14.74	14.76	14.81	14.86		+/- 0.5 °C		
Specific Conductance (µmhos/cm)	6.89	6.61	6.49	6.62	6.90	7.26		+/- 3%		
Turbidity (NTU)	40.5	23.5	19.4	18.4	19.7	21.8		+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	.89	.44	.30	.27	.24	.23		+/- 0.3		
ORP (mV)	264	272	278	279	281	281		+/- 10 mV		
Each Volume Purged (L)	1	1	1	1	1	1				
Total Liters Purged	1L	2L	3L	4L	5L	6L				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): odor - sulfur.

Comments 4/6/12 purged 1/2 L began sampling

Sample(s) Collected By: CFerric / R. Johnson.

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/19/12 12:25 Project Site/Subsite: RFS/CCC3

Sample ID: RFSGWCCC304

Well ID: CCC3 Point Name: _____

Depth to Well Bottom: 14.20 ft. below top of casing (PVC cap)

Depth to Water Level: 5.26 ft. below PVC cap

Depth to Water Level: 7.30 ft below PVC cap after ~~prior~~ to sampling

Method of Purging: Bladder Pump Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 4 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.250 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading							Stabilization Criteria	Final	
Time	<u>12:06</u>	<u>12:10</u>	<u>12:14</u>	<u>12:18</u>	<u>12:22</u>					
PH	<u>7.10</u>	<u>7.16</u>	<u>7.16</u>	<u>7.12</u>	<u>7.10</u>			+/- 0.1		
Temperature (°C)	<u>14.52</u>	<u>14.56</u>	<u>14.49</u>	<u>14.46</u>	<u>14.51</u>			+/- 0.5 °C		
Specific Conductance (µmhos/cm)	<u>1126</u>	<u>1162</u>	<u>1160</u>	<u>1146</u>	<u>1140</u>			+/- 3%		
Turbidity (NTU)	<u>41.4</u>	<u>29.0</u>	<u>16.1</u>	<u>11.9</u>	<u>10.7</u>			+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	<u>2.07</u>	<u>0.75</u>	<u>0.56</u>	<u>0.68</u>	<u>0.60</u>			+/- 0.3		
ORP (mV)	<u>272</u>	<u>272</u>	<u>273</u>	<u>273</u>	<u>273</u>			+/- 10 mV		
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>					
Total Liters Purged		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>					

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Rebecca Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/10/12 09:25 Project Site/Subsite: RFS/ETA

Sample ID: RFSGWETA04 09:25

Well ID: ETA Point Name: _____

Depth to Well Bottom: 13.41 ft. below top of casing (PVC cap)

Depth to Water Level: 2.11 ft. below PVC cap

Depth to Water Level: 3.32 ft below PVC cap ^{0.85} prior to sampling

Method of Purging: Bladder Pump
Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.250 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading						Stabilization Criteria	Final		
Time	9:03	9:07	9:11	9:15	9:18	9:21				
PH	7.04	7.06	7.05	7.04	7.03	7.03	+/- 0.1			
Temperature (°C)	13.41	13.93	13.96	13.99	13.98	13.98	+/- 0.5 °C			
Specific Conductance (µmhos/cm)	187	2.31	2.30	2.26	2.25	2.22	+/- 3%			
Turbidity (NTU)	135	126	110	126	116	115	+/- 10% or +/- 10 NTU			
Dissolved Oxygen (mg/L)	2.53	0.70	0.53	0.45	0.42	0.40	+/- 0.3			
ORP (mV)	276	277	277	277	277	277	+/- 10 mV			
Each Volume Purged (L)		1	1	1	1	1				
Total Liters Purged		1	2	3	4	5				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) RFSGWETA04A

MS/MSD Sample Collected? No Yes _____ 09:35

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Rebecca Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/10/12 Project Site/Subsite: RFS/CCCI

Sample ID: RFSGWCCCI04 11:40

Well ID: CCC1 Point Name: _____

Depth to Well Bottom: 13.09 ft. below top of casing (PVC cap)

Depth to Water Level: 8.45 ft. below PVC cap

Depth to Water Level: 9.23 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 3 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.250 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	11:25	11:27	11:33	11:37						
PH	6.91	7.02	7.03	7.03					+/- 0.1	
Temperature (°C)	14.55	14.79	14.82	14.87					+/- 0.5 °C	
Specific Conductance (µmhos/cm)	1.223	1.422	1.409	1.499					+/- 3%	
Turbidity (NTU)	74.2	14.7	14.7	14.2					+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.29	1.81	1.71	1.61					+/- 0.3	
ORP (mV)	276	274	274	274					+/- 10 mV	
Each Volume Purged (L)		1	1	1						
Total Liters Purged		1	2	3						

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Rebecca Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/19/12 Project Site/Subsite: RFS/CCC2

Sample ID: RFSGWCCC204 10:55

Well ID: CCC2 Point Name: _____

Depth to Well Bottom: 14.20 ft. below top of casing (PVC cap)

Depth to Water Level: 7.42 ft. below PVC cap

Depth to Water Level: 8.16 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump
 Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters
 Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.250 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading							Stabilization Criteria	Final
Time	10:31	10:35	10:39	10:42	10:45	10:50			
PH	7.03	6.82	6.81	6.80	6.80	6.80		+/- 0.1	
Temperature (°C)	14.00	14.43	14.55	14.65	14.75	14.77		+/- 0.5 °C	
Specific Conductance (umhos/cm)	1.98	1.95	1.96	1.96	1.97	1.97		+/- 3%	
Turbidity (NTU)	31.0	21.8	16.8	14.5	13.6	13.0		+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.61	0.75	0.59	0.51	0.42	0.40		+/- 0.3	
ORP (mV)	274	274	275	275	275	275		+/- 10 mV	
Each Volume Purged (L)		1	1	1	1	1			
Total Liters Purged		1	2	3	4	5			

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Rebecca Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/9/12 10:20 Project Site/Subsite: B480

Sample ID: RTSGWB48004

Well ID: B480 Point Name: _____

Depth to Well Bottom: 15.92 ft. below top of casing (PVC cap)

Depth to Water Level: 10.90 ft. below PVC cap

Depth to Water Level: 11.16 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump
 Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters
 Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 4 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.333 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading						Stabilization Criteria	Final	
Time	<u>16:00</u>	<u>16:03</u>	<u>16:06</u>	<u>16:09</u>	<u>16:12</u>				
PH	<u>6.88</u>	<u>6.86</u>	<u>6.86</u>	<u>6.86</u>	<u>6.86</u>		+/- 0.1		
Temperature (°C)	<u>17.68</u>	<u>16.91</u>	<u>16.42</u>	<u>16.44</u>	<u>16.47</u>		+/- 0.5 °C		
Specific Conductance (µmhos/cm)	<u>0.908</u>	<u>0.996</u>	<u>1.012</u>	<u>1.003</u>	<u>1.008</u>		+/- 3%		
Turbidity (NTU)	<u>16.0</u>	<u>9.5</u>	<u>11.0</u>	<u>10.0</u>	<u>10.0</u>		+/- 10% or +/- 10 NTU		
Dissolved Oxygen (mg/L)	<u>1.95</u>	<u>2.03</u>	<u>1.94</u>	<u>1.85</u>	<u>1.78</u>		+/- 0.3		
ORP (mV)	<u>270</u>	<u>272</u>	<u>272</u>	<u>272</u>	<u>273</u>		+/- 10 mV		
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>				
Total Liters Purged		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Rebecca Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

15.92 DEPTH TO BOTTOM

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/9/12 Project Site/Subsite: _____

Sample ID: DEGW B474 Q4

Well ID: B474 Point Name: _____

Depth to Well Bottom: 19.15 ft. below top of casing (PVC cap)

Depth to Water Level: 12.65 ft. below PVC cap

Depth to Water Level: 14.89 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump
Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 4 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.250 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading							Stabilization Criteria	Final
Time	<u>11:45</u>	<u>11:49</u>	<u>11:53</u>	<u>11:57</u>	<u>12:01</u>				
PH	<u>6.91</u>	<u>6.85</u>	<u>6.80</u>	<u>6.80</u>	<u>6.81</u>	<u>6.81</u>		+/- 0.1	
Temperature (°C)	<u>16.35</u>	<u>15.82</u>	<u>15.32</u>	<u>15.33</u>	<u>15.38</u>			+/- 0.5 °C	
Specific Conductance (umhos/cm)	<u>0.418</u>	<u>0.389</u>	<u>0.386</u>	<u>0.375</u>	<u>0.369</u>			+/- 3%	
Turbidity (NTU)	<u>50.5</u>	<u>38.9</u>	<u>18.0</u>	<u>24.0</u>	<u>22.6</u>			+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	<u>1.06</u>	<u>0.42</u>	<u>0.31</u>	<u>0.27</u>	<u>0.25</u>			+/- 0.3	
ORP (mV)	<u>267</u>	<u>266</u>	<u>266</u>	<u>266</u>	<u>266</u>			+/- 10 mV	
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>				
Total Liters Purged		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: _____

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/9/12 13:55 Project Site/Subsite: RFS/TP2
 Sample ID: RFSGWTP204

Well ID: TP2 Point Name: _____

Depth to Well Bottom: 17.10 ft. below top of casing (PVC cap)

Depth to Water Level: 9.51 ft. below PVC cap

Depth to Water Level: ~~17.10~~ 9.55 ft below PVC ~~cap~~ ^{after} prior to sampling

Method of Purging: Bladder Pump Submersible Pump
 Bailer Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters
 Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 5 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.33 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading							Stabilization Criteria	Final
Time	<u>13:37</u>	<u>13:38</u>	<u>13:40</u>	<u>13:43</u>	<u>13:46</u>	<u>13:49</u>			
PH	<u>6.78</u>	<u>6.82</u>	<u>6.80</u>	<u>6.77</u>	<u>6.77</u>	<u>6.76</u>		+/- 0.1	
Temperature (°C)	<u>17.37</u>	<u>16.46</u>	<u>16.47</u>	<u>16.50</u>	<u>16.49</u>	<u>16.50</u>		+/- 0.5 °C	
Specific Conductance (µmhos/cm)	<u>1.62</u>	<u>1.288</u>	<u>1.225</u>	<u>1.225</u>	<u>1.213</u>	<u>1.221</u>		+/- 3%	
Turbidity (NTU)	<u>75.4</u>	<u>30.7</u>	<u>32.1</u>	<u>25.5</u>	<u>18.9</u>	<u>18.3</u>		+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	<u>1.92</u>	<u>1.06</u>	<u>0.93</u>	<u>0.71</u>	<u>0.61</u>	<u>0.56</u>		+/- 0.3	
ORP (mV)	<u>274</u>	<u>273</u>	<u>273</u>	<u>273</u>	<u>273</u>	<u>273</u>		+/- 10 mV	
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>			
Total Liters Purged		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>			

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) RFSGWTP204A

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments Rebecca Johnson

Sample(s) Collected By: _____

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/9/12 12:25 Project Site/Subsite: RFS/B300

Sample ID: RFSGW B300 04

Well ID: B300 Point Name: _____

Depth to Well Bottom: 17.15 ft. below top of casing (PVC cap)

Depth to Water Level: 10.91 ft. below PVC cap

Depth to Water Level: 12.25 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump
Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 4 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.33 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	12:00	12:03	12:06	12:09	12:22					
PH	6.65	6.64	6.62	6.62	6.62				+/- 0.1	
Temperature (°C)	16.46	15.89	15.83	15.83	15.84				+/- 0.5 °C	
Specific Conductance (µmhos/cm)	2.25	2.78	2.78	2.77	2.78				+/- 3%	
Turbidity (NTU)	8.3	7.5	5.3	4.6	5.0				+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	0.72	0.34	0.28	0.25	0.25				+/- 0.3	
ORP (mV)	262	265	266	268	268				+/- 10 mV	
Each Volume Purged (L)		1	1	1	1					
Total Liters Purged		1	2	3	4					

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Rebecca Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/9/12 11:25 Project Site/Subsite: RFS/NRLF

Sample ID: RFSQWNRLE04

Well ID: NRLF Point Name: _____

Depth to Well Bottom: 16.10 ft. below top of casing (PVC cap)

Depth to Water Level: 12.93 ft. below PVC cap

Depth to Water Level: 14.02 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer PERISTALTIC

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 4 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.33 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING										
Measure in order listed	Initial reading								Stabilization Criteria	Final
Time	11:10	11:13	11:16	11:19	11:22					
PH	6.92	6.73	6.87	6.85	6.90				+/- 0.1	
Temperature (°C)	16.87	15.45	13.46	15.48	15.50				+/- 0.5 °C	
Specific Conductance (µmhos/cm)	0.775	0.714	0.714	0.712	0.713				+/- 3%	
Turbidity (NTU)	9.6	5.3	3.7	4.1	4.1				+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	1.24	0.53	0.45	0.40	0.38				+/- 0.3	
ORP (mV)	257	258	258	258	258				+/- 10 mV	
Each Volume Purged (L)		1	1	1	1					
Total Liters Purged		1	2	3	4					

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): SMELLS SLIGHTLY SULFURIC

Comments _____

Sample(s) Collected By: Rebecca Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/9/12 10:40 Project Site/Subsite: RFS/B490

Sample ID: RFSGW B49004

Well ID: B490 Point Name: _____

Depth to Well Bottom: 18.05 ft. below top of casing (PVC cap)

Depth to Water Level: 13.55 ft. below PVC cap

Depth to Water Level: 13.80 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump
Bailer Submersible Pump
Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters
Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 4 Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate 0.33 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING											
Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	<u>10:24</u>	<u>10:27</u>	<u>10:30</u>	<u>10:33</u>	<u>10:36</u>						
PH	<u>6.73</u>	<u>6.94</u>	<u>6.95</u>	<u>6.95</u>	<u>6.95</u>					+/- 0.1	
Temperature (°C)	<u>16.00</u>	<u>15.62</u>	<u>15.55</u>	<u>15.65</u>	<u>15.67</u>					+/- 0.5 °C	
Specific Conductance (µmhos/cm)	<u>0.844</u>	<u>0.885</u>	<u>0.905</u>	<u>0.904</u>	<u>0.905</u>					+/- 3%	
Turbidity (NTU)	<u>11.3</u>	<u>7.5</u>	<u>7.2</u>	<u>6.9</u>	<u>6.1</u>					+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	<u>4.04</u>	<u>1.75</u>	<u>1.82</u>	<u>1.65</u>	<u>1.66</u>					+/- 0.3	
ORP (mV)	<u>271</u>	<u>271</u>	<u>273</u>	<u>273</u>	<u>273</u>					+/- 10 mV	
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>						
Total Liters Purged		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>						

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Rebecca Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

Tetra Tech EM Inc.
MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/9/12, 09:50 Project Site/Subsite: RFS/FG

Sample ID: RFS GW FG 04

Well ID: FG Point Name: _____

Depth to Well Bottom: 16.25 ft. below top of casing (PVC cap)

Depth to Water Level: 12.61 ft. below PVC cap

Depth to Water Level: 14.05 ft below PVC cap ^{after} ~~prior~~ to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Control Box Settings: Box # _____ Refill = _____ Discharge = _____ Throttle = _____ psi

Total Purged 4 Liters Purge Rate goal = 0.33 Liters/Min. Actual purge rate 0.33 Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING									
Measure in order listed	Initial reading							Stabilization Criteria	Final
Time	<u>09:31</u>	<u>09:37</u>	<u>09:40</u>	<u>09:43</u>	<u>09:46</u>				
PH	<u>6.74</u>	<u>6.51</u>	<u>6.52</u>	<u>6.51</u>	<u>6.51</u>			+/- 0.1	
Temperature (°C)	<u>15.84</u>	<u>16.44</u>	<u>16.48</u>	<u>16.60</u>	<u>16.63</u>			+/- 0.5 °C	
Specific Conductance (µmhos/cm)	<u>0.710</u>	<u>0.679</u>	<u>0.679</u>	<u>0.685</u>	<u>0.689</u>			+/- 3%	
Turbidity (NTU)	<u>35.6</u>	<u>31.7</u>	<u>26.4</u>	<u>22.3</u>	<u>21.5</u>			+/- 10% or +/- 10 NTU	
Dissolved Oxygen (mg/L)	<u>5.67</u>	<u>5.58</u>	<u>5.56</u>	<u>5.49</u>	<u>5.48</u>			+/- 0.3	
ORP (mV)	<u>273</u>	<u>272</u>	<u>272</u>	<u>272</u>	<u>272</u>			+/- 10 mV	
Each Volume Purged (L)		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>				
Total Liters Purged		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments _____

Sample(s) Collected By: Rebecca Johnson

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection

ATTACHMENT 6
COMPLETE ANALYTICAL RESULTS

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
B120	09/09/2010	33	1 U	2.2	26	0.5 U	100	1 U	170000	1.2	0.4 J	2.2	59 J	2 U	METAL
B120	04/15/2011	75 UJ	1 U	1.6 J	20	1 UJ	NA	2 U	210000	0.34 J	1 U	4.3	16 J	0.43 J	DMETAL
B120	10/04/2011	50 U	2.4	4.2	19	0.23 J	NA	1 U	190000	0.48 J	0.38 J	1.6 U	100 U	1 U	DMETAL
B120	04/03/2012	50 U	1 U	2.6 UJ	25	1 U	NA	0.25 J	160000	0.44 J	1 U	1.6 J	50 U	1 U	DMETAL
B121	09/08/2010	33	1 U	1.8	57	0.5 U	86 J	1 U	49000	1.5	0.31 J	2 U	100 U	2 U	METAL
B121	04/13/2011	50 UJ	0.2 J	1.2	55	1 U	NA	1 U	42000	1.3	0.14 J	0.5 J	50 U	0.31 J	DMETAL
B121	10/04/2011	50 U	1 U	3.2	62	0.22 J	NA	0.44 J	48000	0.88 J	1 U	1.6 U	100 U	1 U	DMETAL
B121	04/04/2012	50 U	0.45 J	0.97 J	59	1 U	NA	1 U	47000	1.1	1 U	2.3 U	15 UJ	1 U	DMETAL
B128	09/23/2010	55	1 U	5.7	23	0.5 U	320	1 U	69000	1.1	0.58	1.3 J	250	2 U	METAL
B128	09/23/2010	41	1 U	3.5	24	0.5 U	280	1 U	64000	1.1	0.28 J	1.6 J	72 J	2 U	METAL
B128	04/18/2011	50 U	0.7 J	0.95 J	41	1 UJ	NA	2 U	27000	1 U	1 U	8.4 J	50 UJ	0.71 J	DMETAL
B128	10/04/2011	50 U	0.62 J	5.8	22	1 U	NA	1 U	30000	1 U	0.47 J	1.6 U	59 UJ	1 U	DMETAL
B128	04/02/2012	9.6 J	0.33 UJ	0.89 UJ	57	1 U	NA	0.94 J	24000	0.54 J	1 U	2.3 U	50 U	1 U	DMETAL
B150	09/08/2010	14 J	1 U	0.89 J	12	0.5 U	95 J	1 U	27000	1 U	0.5 U	1.6 J	100 U	2 U	METAL
B150	04/13/2011	50 UJ	0.19 J	0.57 J	26	1 U	NA	0.44 J	18000	0.73 J	1 U	4.2 J	50 U	0.46 J	DMETAL
B150	10/05/2011	34 J	0.34 J	0.67 J	20	1 UJ	NA	1 U	21000	0.37 J	1 U	3.4	50 U	0.25 J	DMETAL
B150	10/05/2011	49 J	0.14 J	1 U	14	1 UJ	NA	1 U	19000	0.32 J	1 U	1 U	50 U	1 U	DMETAL
B150	04/04/2012	6.5 J	1 U	0.39 J	35	1 U	NA	1 U	16000	0.98 J	1 U	2.3 U	50 U	1 U	DMETAL
B150	04/04/2012	18 J	1 U	0.5 J	35	0.28 J	NA	0.099 J	16000	0.89 J	1 U	2.3 U	15 UJ	1 U	DMETAL
B158	09/08/2010	590	1 U	6.3	13	0.5 U	64 J	1 U	4200	2.8	0.5 U	1.4 J	500	2 U	METAL
B158	04/15/2011	120 J	0.3 J	4.5	6	1 UJ	NA	2 U	3600	1.3	1 U	6.8	66	0.47 J	DMETAL
B158	10/05/2011	99 J	0.82 J	6.2	4.4 J	1 U	NA	1 U	3200	2	0.22 J	0.94 J	50 UJ	1 U	DMETAL
B158	04/06/2012	21 UJ	1 U	4.9	7.4	0.57 J	NA	0.35 UJ	4000	2.1	1 U	2.3 U	50 U	1 U	DMETAL
B163	09/02/2010	44	1 U	1.6	17	0.5 U	240	5.2	260000	5 U	6	2.5	70 J	2 U	METAL
B163	04/12/2011	50 U	0.18 J	1.3	12	1 U	NA	5.5	230000	0.14 J	4.6	0.35 J	50 U	0.38 J	DMETAL
B163	04/12/2011	58	0.17 J	0.74 J	13	1 U	NA	6.2	240000	0.23 J	4.8	1 U	89 UJ	1 U	METAL
B163	10/03/2011	50 U	0.17 J	4.2	13	1 U	NA	5.2	290000	0.34 UJ	4.6	1.6 U	45 J	1 U	DMETAL
B163	10/03/2011	72	0.18 J	1.2	13 J	1 U	NA	5.9 J	300000	1 U	4.8	1.6 U	91	1 U	METAL
B163	04/02/2012	33 J	0.63 UJ	2.3 UJ	12	1 U	NA	6.2	240000	1 U	4.2	2.3 U	71	1 U	DMETAL
B163	04/02/2012	500	3.5	1.3	14 J	0.8 J	NA	7	240000	0.92 J	5	2.3 U	570	1 U	METAL

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METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
B175S	09/03/2010	17 J	1 U	1.6	56	0.5 U	97 J	1 U	53000	0.81 J	0.36 J	1.4 J	100 U	2 U	METAL
B175S	04/13/2011	50 U	1 U	0.69 J	33	1 U	NA	0.43 J	38000	0.8 J	1 U	1 UJ	50 U	0.4 J	DMETAL
B175S	10/04/2011	50 U	0.12 J	7	55	1 U	NA	1 U	46000	1.4	1 U	1.6 U	100 U	1 U	DMETAL
B175S	04/04/2012	50 U	0.36 J	1.5	43	1 U	NA	1 U	42000	0.29 J	1 U	2.3 U	50 U	1 U	DMETAL
B175W	09/08/2010	99	1 U	1.7	26	0.5 U	130	1 U	17000	1.3	0.5 U	1 J	120	2 U	METAL
B175W	04/13/2011	50 U	0.18 J	2.1	11	1 U	NA	0.26 J	15000	0.43 J	1 U	4.7 J	50 U	0.54 J	DMETAL
B175W	10/04/2011	50 U	1 U	3	21	0.32 J	NA	1 U	18000	3.9	0.33 J	1.6 U	3400	1 U	DMETAL
B175W	04/04/2012	130	1 U	1.1	11 J	0.36 J	NA	1 U	12000	0.63 J	1 U	2.3 U	63 UJ	1 U	DMETAL
B177	09/23/2010	22	1 U	1.1	32	0.5 U	77 J	1 U	12000	0.91 J	0.5 U	1.7 J	100 U	2 U	METAL
B177	04/18/2011	9.9 J	0.41 J	0.48 J	63	1 UJ	NA	2 U	15000	0.55 J	1 U	2.6 J	50 UJ	0.41 J	DMETAL
B177	10/05/2011	50 UJ	1 U	0.83 J	37 J	1 UJ	NA	1 U	13000	0.61 J	1 U	1 U	50 UJ	1 U	DMETAL
B177	04/04/2012	9.2 J	1 U	0.49 J	71	1 U	NA	1 U	19000	1 U	1 U	2.3 U	50 U	1 U	DMETAL
B178	09/02/2010	20 U	1 U	1.8	25	0.5 U	130	1 U	170000	1 U	0.87	2.2	100 U	2 U	METAL
B178	04/15/2011	75 UJ	1.1 U	1.6 J	20	3.2 UJ	NA	2 U	170000	1.3 U	0.44 J	2.7	89 U	1.9 U	DMETAL
B178	10/04/2011	50 U	4.1	9.1	23	0.34 J	NA	1 U	170000	1 U	1 U	1.6 U	100 U	1 U	DMETAL
B178	04/03/2012	20 J	0.21 UJ	3.2 UJ	25 J	1 U	NA	0.51 J	150000	1 U	0.29 J	2.3 U	180 U	1 U	DMETAL
B180	09/15/2010	380	1 U	3.8	22	0.5 U	74 J	1 U	5600	2.9	0.5	3.6	400	2 U	METAL
B180	04/13/2011	50 UJ	0.22 J	2.9	6.5	1 U	NA	0.46 J	5500	2.9	1 U	36 J	50 U	2.7	DMETAL
B180	10/06/2011	58	0.34 UJ	3.2	17	1 U	NA	1 U	4900 J	3.1	1 U	1 U	50 U	1 U	DMETAL
B180	10/06/2011	50 U	0.63 UJ	3.6	16	1 U	NA	1 U	5200 J	3	1 U	1 U	50 U	1 U	DMETAL
B180	04/04/2012	50 U	0.31 J	3.6	6.4	1 U	NA	1 U	4900	1.2	1 U	2.3 U	50 U	1 U	DMETAL
B185	09/02/2010	10 J	1 U	1.7	15	0.5 U	120	1 U	160000	0.57 J	0.63	1.6 J	100 U	2 U	METAL
B185	04/15/2011	75 UJ	1.1 U	1.1 J	13	3.2 UJ	NA	2 U	150000	0.39 J	1 U	6.4	16 J	1.9 U	DMETAL
B185	04/15/2011	75 UJ	1.1 U	0.8 J	14	3.2 UJ	NA	2 U	160000	0.22 J	0.18 J	4.3	34 J	1.9 U	DMETAL
B185	10/03/2011	50 U	1 U	3	14	1 U	NA	0.25 J	170000	0.74 UJ	0.14 J	1.9 J	50 U	1 U	DMETAL
B185	10/03/2011	50 U	0.13 J	2.7	14	1 U	NA	0.14 J	170000	0.75 UJ	0.18 J	1.6 U	500 U	1 U	DMETAL
B185	04/02/2012	14 J	0.18 UJ	2 UJ	19	1 U	NA	0.48 J	150000	0.44 J	1 U	2.3 U	71	1 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
B194	09/09/2010	64	1 U	2.6	55	0.5 U	160	1 U	55000	0.97 J	0.42 J	1.7 J	84 J	2 U	METAL
B194	04/13/2011	50 U	0.19 J	1.8	100	1 U	NA	1.2	51000	0.99 J	1 U	1.5 J	50 U	0.41 J	DMETAL
B194	10/04/2011	50 U	0.21 J	2.7	110	0.11 J	NA	1 U	52000	0.99 J	0.11 J	1.6 U	100 U	1 U	DMETAL
B194	04/04/2012	50 U	0.23 J	0.87 J	95	1 U	NA	1 U	48000	0.65 J	1 U	2.3 U	50 U	1 U	DMETAL
B195	09/09/2010	53	1 U	2	34	0.5 U	110	1 U	150000	0.73 J	0.45 J	1.8 J	73 J	2 U	METAL
B195	04/13/2011	50 U	0.21 J	1.5	18	1 U	NA	0.28 J	51000	0.78 J	1 U	75 J	50 U	4.6	DMETAL
B195	04/13/2011	64	0.19 J	0.77 J	20	1 U	NA	0.28 J	55000	0.8 J	0.13 J	1 U	50 UJ	1 U	METAL
B195	04/13/2011	50 U	0.2 J	1.3	17	1 U	NA	0.21 J	49000	0.62 J	1 U	7.5 J	50 U	0.83 J	DMETAL
B195	04/13/2011	68	0.17 J	1.6 J	20	1 U	NA	0.27 J	55000	0.82 J	1 U	1 U	50 UJ	1 U	METAL
B195	10/04/2011	50 U	0.72 J	2.9	47	0.2 J	NA	0.4 J	160000	1.2	0.19 J	1.6 U	100 U	1 U	DMETAL
B195	10/04/2011	44 J	1 U	1.4	52	1 U	NA	1 U	180000	1 U	1 U	1.6 U	41 J	1 U	METAL
B195	04/03/2012	50 U	1 U	1.3 UJ	19	1 U	NA	0.16 J	68000	1.2	1 U	1.6 J	50 U	1 U	DMETAL
B195	04/03/2012	7.9 J	1 U	1.4 UJ	16	1 U	NA	1 U	61000	0.68 J	0.1 J	2.3 U	180 U	1 U	METAL
B197	09/09/2010	17 J	1 U	1.8	26	0.5 U	98 J	1 U	140000	1.1	0.3 J	1.7 J	100 U	2 U	METAL
B197	09/09/2010	20 U	1 U	1.8	25	0.5 U	93 J	1 U	140000	1.2	0.29 J	1.6 J	100 U	2 U	METAL
B197	04/13/2011	50 U	0.17 J	2	28	1 U	NA	1 U	160000	1 U	1.6	1 UJ	50 U	0.31 J	DMETAL
B197	10/04/2011	50 U	0.42 J	4.5	22	0.11 J	NA	0.24 J	140000	0.97 J	0.81 J	1.6 U	1300	1 U	DMETAL
B197	04/03/2012	50 U	1 U	10	35	1 U	NA	1 U	180000	1 U	1	1.2 J	980	1 U	DMETAL
B197	04/03/2012	50 U	1 U	9	33	1 U	NA	1 U	180000	1 U	0.97 J	1.3 J	920	1 U	DMETAL
B277	09/15/2010	35	1 U	1.9	34	0.5 U	110	1 U	54000	1.8	0.5 U	2 U	100 U	2 U	METAL
B277	04/18/2011	50 U	1 U	2.2	73	1 UJ	NA	2 U	57000	1.8	1 U	3.3 J	50 UJ	0.54 J	DMETAL
B277	10/05/2011	50 U	0.13 J	0.52 J	61	1 UJ	NA	1 U	54000	0.31 J	1 U	1 U	50 U	1 U	DMETAL
B277	04/03/2012	50 U	0.32 UJ	1.9 UJ	61	1 U	NA	0.34 J	56000	1.5	1 U	2.3 U	50 U	1 U	DMETAL
B278	09/16/2010	23 J	1 U	2	56	0.5 U	140	1 U	280000	1.6	0.57	1.8 J	100 U	2 U	METAL
B278	04/19/2011	50 U	0.78 J	1.5 J	59	1 U	NA	2 U	230000	1.4	1 U	1.1 J	89 UJ	0.94 J	DMETAL
B278	10/05/2011	50 U	1 U	1 U	51	1 U	NA	1 U	260000	0.49 J	1 U	1 U	50 U	1 U	DMETAL
B278	04/05/2012	50 U	1 U	2	62	1 U	NA	1 U	270000	1.4	1 U	2.3 U	50 U	1 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
B280A	09/16/2010	20 U	1 U	1.4	66	0.5 U	94 J	1 U	68000	0.93 J	0.5 U	1.1 J	100 U	2 U	METAL
B280A	04/14/2011	75 U	1.1 U	1 J	84	1 UJ	NA	2 U	50000	0.25 J	1 U	1.9 J	24 J	1.9 U	DMETAL
B280A	10/06/2011	50 U	0.42 UJ	0.55 J	110	1 U	NA	0.33 J	57000 J	0.54 J	1 U	0.52 J	120	1 U	DMETAL
B280A	04/03/2012	50 U	1 U	1.7	110	1 U	NA	1 U	64000	0.53 J	1 U	2.3 U	50 U	1 U	DMETAL
B280B	10/01/2010	19 J	1 U	3.4	8	0.5 U	280	1 U	51000	1.5	0.5 U	2 U	100 U	2 U	METAL
B280B	04/14/2011	50 U	1.1 U	1.7 J	6.4	1 UJ	NA	2 U	53000	2.1	1 U	5.8	23 J	1.9 U	DMETAL
B280B	10/06/2011	50 U	0.33 UJ	2.8	6.5	1 U	NA	1 U	52000 J	1 U	1 U	1 U	50 U	1 U	DMETAL
B280B	04/03/2012	11 J	0.2 UJ	3.3 UJ	5.2	1 U	NA	1 U	55000	1.3	1 U	0.87 J	50 U	1 U	DMETAL
B300	09/09/2010	23	1 U	2	90	0.5 U	150	1 U	150000	1.7	0.48 J	1.3 J	100 U	2 U	METAL
B300	04/15/2011	50 UJ	1 U	1.4 J	250	1 UJ	NA	2 U	280000	1 U	8.9	6	1200	0.5 J	DMETAL
B300	10/06/2011	2000 U	5 UJ	26 U	23	20 U	NA	20 U	18000 J	20 U	20 U	21 U	2000 U	20 U	DMETAL
B300	04/09/2012	50 U	1 U	2.3	150	1 U	NA	0.11 J	210000	1 U	2.1	2.3 U	4600	1 U	DMETAL
B38	09/15/2010	44	1 U	1.2	50	0.5 U	150	1 U	31000	2.3	0.5 U	3.3	72 J	2 U	METAL
B38	04/19/2011	50 U	0.22 J	1 J	47	1 U	NA	2 U	24000	0.93 J	1 U	2.2	89 U	0.57 J	DMETAL
B38	04/19/2011	50 U	0.3 J	1.3 J	51	1 U	NA	2 U	26000	1.3	1 U	65	89 U	3.6	DMETAL
B38	10/06/2011	50 U	0.33 UJ	1.5	40	1 U	NA	0.32 J	14000 J	0.14 J	1 U	1 U	150	1 U	DMETAL
B38	04/04/2012	14 J	1 U	0.99 J	37	1 U	NA	1 U	18000	0.6 J	1 U	2 J	19 UJ	1 U	DMETAL
B450	04/19/2011	50 U	2.6	1.7 J	50	0.4 J	NA	2 U	59000	1 J	1 U	1.8 J	89 U	0.43 J	DMETAL
B450	04/19/2011	110	1.2	2.3	53	1 U	NA	2 U	65000	2	1 U	2.2 U	180	1.9 U	METAL
B450	10/10/2011	50 U	1.1	1	71	1 U	NA	0.21 J	36000	0.85 J	1 U	1 U	50 U	1 U	DMETAL
B450	04/06/2012	6.8 UJ	3.3	1.8	78	0.38 J	NA	1 U	73000	0.94 J	1 U	1 J	50 U	1 U	DMETAL
B460	09/15/2010	160	1 U	3.2	13	0.5 U	82 J	1 U	31000	0.53 J	1.2	1.9 J	280	2 U	METAL
B460	04/20/2011	75 U	0.38 J	2.4	8.8 J	3.2 U	NA	2 U	43000	1.3 U	1 U	21	89 U	0.96 J	DMETAL
B460	10/07/2011	50 U	0.39 J	3.4	8.4	1 U	NA	0.31 J	40000	0.38 J	0.46 J	1 U	210	1 U	DMETAL
B460	04/06/2012	8.5 UJ	0.18 J	2.7	5.4	1 U	NA	1 U	30000	0.67 J	1 U	2.3 U	50 U	1 U	DMETAL
B473	09/24/2010	180	1 U	2	64	0.5 U	140	1 U	25000	3.9	0.31 J	4.7	330	2 U	METAL
B473	04/20/2011	75 U	1.1 U	2.2	22 J	3.2 U	NA	2 U	44000	1.6	1 U	9.1	89 UJ	0.8 J	DMETAL
B473	10/07/2011	50 U	0.35 J	1.9	19	1 U	NA	1 U	19000	1.3	1 U	1 U	50 U	1 U	DMETAL
B473	04/06/2012	14 UJ	0.4 J	2.3	12	0.32 J	NA	0.18 UJ	17000	1.4	1 U	0.97 J	50 U	1 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
B474	09/23/2010	450	1 U	9.8	25	0.5 U	200	1 U	24000	1.7	1.6	2	1400	2 U	METAL
B474	04/20/2011	75 U	1.1 U	3.9	6.2 J	3.2 U	NA	2 U	35000	1.3 U	1 U	5.1	89 U	1.9 U	DMETAL
B474	04/20/2011	31 J	0.45 J	4.3	7.4	3.2 U	NA	2 U	35000	1.3 U	1 U	4.7	89 UJ	1.9 U	METAL
B474	10/07/2011	50 U	1.7	1.6	8.1	1 U	NA	1 U	12000	1.7	1 U	12	240	0.72 J	DMETAL
B474	10/07/2011	240	1.5	2.8	36	0.69 J	NA	1 U	17000	1.2	1.2	21	990	7.3	METAL
B474	04/09/2012	50 U	0.49 J	2.7	46	1 U	NA	0.42 J	32000	0.74 J	0.96 J	2.3 U	47 J	1 U	DMETAL
B474	04/09/2012	67	3.1	2.6	34	1 U	NA	0.57 J	28000	0.84 J	0.89 J	6.8	150	0.97 J	METAL
B480	09/24/2010	22	1 U	6.5	41	0.5 U	110	1 U	53000	0.68 J	1.5	2 U	420	2 U	METAL
B480	04/19/2011	32 J	1 J	3.1	42	1 U	NA	2 U	51000	1.2 J	1 U	7.8	89 U	0.54 J	DMETAL
B480	10/07/2011	50 U	0.52 J	2.6	39	1 U	NA	0.81 J	34000	0.34 J	0.2 J	0.28 J	50 U	1 U	DMETAL
B480	04/09/2012	50 U	0.23 J	2.8	75	1 U	NA	0.65 J	51000	1.8	1 U	2.3 U	50 U	1 U	DMETAL
B490	09/16/2010	21	1 U	2.2	53	0.5 U	130	1 U	52000	2.6	0.5 U	1.1 J	100 U	2 U	METAL
B490	04/20/2011	75 U	1.1 U	1.6 J	79 J	3.2 U	NA	2 U	52000	4.4	1 U	11	89 U	1.5 J	DMETAL
B490	10/10/2011	50 U	5 U	1.8	90	1 U	NA	1 U	45000	2.7	1 U	5.2 U	50 U	0.37 J	DMETAL
B490	04/09/2012	50 U	2.8	2.4	93	1 U	NA	1 U	46000	3.2	1 U	2.3 U	37 J	1 U	DMETAL
BULB1	10/19/2010	70	10 U	17	230	1 U	1700	10 U	370000	2.1	18	6.6	100	20 U	METAL
BULB1	04/12/2011	140	0.24 J	12 J	140	1 U	NA	0.99 J	420000	0.99 J	4.7 J	1 U	660	0.47 J	METAL
BULB1	04/12/2011	50 UJ	1.4	12	110	1 U	NA	1 U	330000	0.13 J	2.3	14 J	50 UJ	0.91 J	DMETAL
BULB1	09/30/2011	50 U	0.31 J	12	150	1 U	NA	0.09 J	380000	1.2 UJ	1.3	1.6 U	50 U	1 U	DMETAL
BULB1	09/30/2011	81	0.45 J	9.7	170 J	1 U	NA	1 U	440000	1 U	0.24 J	1.6 U	340 J	13	METAL
BULB1	04/05/2012	17 J	1.2	9	120	0.25 J	NA	0.2 J	320000	0.49 J	0.52 J	2.3 U	320	1 U	DMETAL
BULB1	04/05/2012	34 UJ	3.2	9.3	120	0.22 J	NA	0.31 UJ	290000	2.5	0.38 J	2.3 U	380	1 U	METAL
BULB2	10/19/2010	770	1 U	8.9	540	0.5 U	850	1 U	130000	3	8.1	5.6 J	2800	3.9	METAL
BULB2	04/12/2011	240	1.8	5 J	230	1 U	NA	1.4	75000	1.4	4.3	0.94 J	1500	0.71 J	METAL
BULB2	04/12/2011	50 UJ	2.5	3	55	1 U	NA	0.55 J	19000	0.23 J	1.1	28 J	50 UJ	1.3	DMETAL
BULB2	09/30/2011	50 U	0.13 J	3.8	53	1 U	NA	1 U	31000	1.8 UJ	1.1	1.6 U	1200	0.18 J	DMETAL
BULB2	09/30/2011	220	0.52 J	2.6	66 J	1 U	NA	0.14 J	31000	1 U	1.4	1.6 U	880 J	0.67 J	METAL
BULB2	04/05/2012	17 J	0.21 J	3.1	370 J	1 U	NA	1 U	180000 J	0.56 J	1.8	1.7 J	3100 J	1 U	DMETAL
BULB2	04/05/2012	40 UJ	0.38 J	3.4	370 J	0.21 J	NA	0.54 UJ	180000	0.34 J	1.7	5.2	3100	0.91 J	METAL

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METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
CCC1	09/08/2010	72	1 U	3	6.3	0.5 U	91 J	1 U	27000	0.84 J	0.5 U	1.5 J	88 J	2 U	METAL
CCC1	04/14/2011	75 U	1.2	2.4	6.4	3.2 UJ	NA	2 U	34000	1.9	1 U	4.6	43 J	1.9 U	DMETAL
CCC1	10/05/2011	50 U	1 U	0.45 J	3.2	1 UJ	NA	1 U	37000	1 U	1 U	1 U	50 U	1 U	DMETAL
CCC1	04/10/2012	50 U	1 U	2.5	6.8	1 U	NA	0.27 J	44000	0.34 J	1 U	2.3 U	50 U	1 U	DMETAL
CCC2	09/08/2010	20 U	1 U	2.3	24	0.5 U	140	1 U	48000	32	0.5 U	1.5 J	100 U	2 U	METAL
CCC2	04/14/2011	75 U	0.51 J	0.85 J	36	3.2 UJ	NA	2 U	210000	2.1	1 U	20	47 J	2.6	DMETAL
CCC2	04/14/2011	17 J	1 U	0.96 J	39	1 U	NA	0.66 J	210000	2.3	1 U	1 U	50 UJ	1 U	METAL
CCC2	10/04/2011	50 U	0.54 J	3.6	21	1 U	NA	1 U	65000	13	0.25 J	1.6 U	540	1 U	DMETAL
CCC2	10/04/2011	130	4	1.8	19	1 U	NA	0.13 J	62000	12	1 U	1.6 U	140	0.3 J	METAL
CCC2	04/10/2012	50 U	1 U	1.2	35	1 U	NA	0.34 J	120000	4.5	1 U	2.3 U	12 J	1 U	DMETAL
CCC2	04/10/2012	50 U	0.2 J	1.1	29	1 U	NA	0.24 J	96000	9.4	1 U	2.3 U	17 J	1 U	METAL
CCC3	09/03/2010	390	1 U	5.9	27	0.5 U	190	1 U	68000	2.8	2.1	2.4	550	2 U	METAL
CCC3	09/03/2010	29	1 U	4.6	22	0.5 U	130	1 U	64000	1.1	1.8	1.3 J	91 J	2 U	METAL
CCC3	04/12/2011	50 U	0.19 J	2.9	9.6	1 U	NA	1 U	45000	0.86 J	1 U	12 J	50 U	0.55 J	DMETAL
CCC3	10/04/2011	50 U	0.45 J	6.7	18	1 U	NA	1 U	61000	1 U	0.48 J	1.6 U	100 U	1 U	DMETAL
CCC3	10/04/2011	50 U	0.15 J	2.4	17	1 U	NA	1 U	59000	0.67 J	0.68 J	1.6 U	100 U	1 U	DMETAL
CCC3	04/10/2012	50 U	1 U	4.4	13	1 U	NA	1 U	61000	0.28 J	0.73 J	2.3 U	14 J	1 U	DMETAL
CCCT	09/03/2010	55	1 U	3.9	28	0.5 U	210	1 U	100000	1 U	2	1.8 J	260	2 U	METAL
CCCT	04/18/2011	50 U	0.6 J	1.7 J	24	1 UJ	NA	2 U	100000	1.3 U	1 U	12 J	50 UJ	0.69 J	DMETAL
CCCT	10/03/2011	50 U	0.11 J	3.5	22	1 U	NA	1 U	98000	0.53 UJ	0.44 J	1.6 U	98	1 U	DMETAL
CCCT	04/04/2012	50 U	1.4	2.6	24	1 U	NA	1 U	110000	1 U	0.26 J	2.3 U	70 UJ	1 U	DMETAL
CTP	09/30/2010	23	1 U	2.6	38	0.5 U	120	1 U	50000	1.1	0.54	2 U	150	2 U	METAL
CTP	09/30/2010	17 J	1 U	2.5	39	0.5 U	110	1 U	50000	1.1	0.52	2 U	140	2 U	METAL
CTP	04/14/2011	75 U	1.1 U	1.3 J	55	1 UJ	NA	9.3	50000	0.47 J	0.61 J	5.4	44 J	1.9 U	DMETAL
CTP	10/06/2011	50 U	0.32 UJ	0.81 J	65	1 U	NA	0.52 J	47000 J	0.45 J	1 U	1 U	50 U	1 U	DMETAL
CTP	04/03/2012	50 U	0.27 UJ	2.1 UJ	57	1 U	NA	0.62 J	57000	1	1 U	2.3 U	50 U	1 U	DMETAL
CTPS	09/30/2010	36	1 U	3.6	82	0.5 U	260	1 U	130000	1.4	1.6	1.8 J	240	2 U	METAL
CTPS	04/19/2011	50 U	0.39 J	0.96 J	13	0.14 J	NA	2 U	47000	1.3 U	1 U	5	89 U	1.1	DMETAL
CTPS	10/07/2011	50 U	0.52 J	1.5	20	1 U	NA	0.82 J	55000	1 U	1 U	1 U	50 U	1 U	DMETAL
CTPS	04/05/2012	50 U	1 U	1.1	17	0.26 J	NA	1 U	36000	0.37 J	1 U	1.2 J	50 U	1 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
DH	09/30/2010	20 U	1 U	3.5	41	0.5 U	320	0.75 J	530000	1 U	1.2	2.8	100 U	2 U	METAL
DH	04/14/2011	75 U	1.1 U	1.3 J	89	1 UJ	NA	1.9 J	590000	0.28 J	0.33 J	3.5	89 U	1.9 U	DMETAL
DH	10/05/2011	50 U	0.18 J	1.6	100	1 UJ	NA	1 U	810000	1 U	2.7	53	50 U	1.3	DMETAL
DH	04/06/2012	34 UJ	0.21 J	18	88	1 U	NA	0.46 UJ	510000	1.5	12	2.3 U	10000	1 U	DMETAL
EERC	10/01/2010	10 J	1 U	11	39	0.5 U	480	1 U	450000	1 U	11	2.9	840	2 U	METAL
EERC	04/20/2011	75 U	1.1 U	2.9	19 J	3.2 U	NA	2 U	420000	1.3 U	0.54 J	6.2	89 U	1.9 U	DMETAL
EERC	04/20/2011	75 U	0.52 J	1.7 J	22	3.2 U	NA	2 U	460000	1.3 U	0.37 J	0.96 J	89 UJ	1.9 U	METAL
EERC	10/07/2011	50 U	0.56 J	3.1	20	1 U	NA	1 U	350000	1 U	5.1	1 U	32 J	1 U	DMETAL
EERC	10/07/2011	420	0.87 J	5.2	27	0.16 J	NA	0.29 J	350000	0.81 J	5.6	2.4	1000	0.41 J	METAL
EERC	04/06/2012	7 UJ	0.34 J	2.6	23	0.28 J	NA	1 U	330000	0.62 J	1 U	0.86 J	50 U	1 U	DMETAL
EERC	04/06/2012	19 J	2.9	2.4	25	1 U	NA	0.13 J	320000	0.74 J	1 U	0.96 J	36 UJ	1 U	METAL
EPA	09/16/2010	130	1 U	3.2	50	0.5 U	190	1 U	88000	2.1	0.74	2.7	230	2 U	METAL
EPA	04/19/2011	50 U	0.48 J	1.6 J	42	0.14 J	NA	2 U	120000	1.4	1 U	2.1 J	89 U	0.57 J	DMETAL
EPA	10/06/2011	50 U	0.41 UJ	2.3	38	1 U	NA	0.3 J	89000 J	1 U	1 U	7.5	50 U	1 U	DMETAL
EPA	04/06/2012	50 U	1 U	1.9	45	1 U	NA	1 U	100000	1 U	0.44 J	2.3 U	66 UJ	1 U	DMETAL
EPA	04/06/2012	50 U	1 U	1.8	51	0.44 J	NA	1 U	120000	0.86 J	0.91 J	1.2 J	50 U	1 U	DMETAL
ETA	09/24/2010	1600	1 U	22	39	0.5 U	150	0.93 J	110000	5.8	3.8	22	3300	9.8	METAL
ETA	09/24/2010	630	1 U	13	28	0.5 U	140	1 U	110000	2.6	2.4	8	1800	3.2	METAL
ETA	04/12/2011	50 U	0.26 J	7.4	18	1 U	NA	0.37 J	120000	0.093 J	1.3	2.1 J	120	0.36 J	DMETAL
ETA	04/12/2011	870	0.56 J	17 J	34	1 U	NA	2.4	120000	3.1	2.4	8.3	2100	4.1	METAL
ETA	09/30/2011	50 U	0.38 J	5.3	16	1 U	NA	0.28 J	99000	0.75 UJ	3	1.6 U	380	1 U	DMETAL
ETA	09/30/2011	430	1.3	5.9	21 J	1 U	NA	0.46 J	96000	0.69 J	3.4	2.9	1900 J	2.4	METAL
ETA	04/10/2012	50 U	1 U	5.5	20	1 U	NA	0.45 J	150000	0.23 J	2.4	2.3 U	410	1 U	DMETAL
ETA	04/10/2012	140	0.4 J	5.7	21	0.64 J	NA	0.7 J	120000	0.4 J	2.7	2.9	930	0.94 J	METAL
ETA	04/10/2012	50 U	1 U	5.9	20	1 U	NA	0.73 J	140000	0.23 J	2.2	2.3 U	390	1 U	DMETAL
ETA	04/10/2012	120	0.37 J	5.3	20	1 U	NA	0.47 J	110000	0.35 J	2.7	2.6	880	0.56 J	METAL
EXT	09/30/2011	50 U	0.32 J	0.46 J	55	1 U	NA	1 U	14000	0.72 UJ	1 U	1.6 U	50 U	1 U	DMETAL
EXT	09/30/2011	50 U	1 U	0.32 J	54	1 U	NA	1 U	12000	1 U	1 U	1 U	100	1 U	METAL

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METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
FG	09/23/2010	30000	1 U	9.7	190	2.6	120	1.9	120000	50	49	56	34000	33	METAL
FG	04/19/2011	1500	0.63 J	2.2	33	0.31 J	NA	2 U	34000	3.8	0.98 J	2.5	1600	0.87 J	METAL
FG	04/19/2011	50 U	0.47 J	1.2 J	21	0.25 J	NA	2 U	33000	1.3 U	1 U	24	89 U	2.8	DMETAL
FG	04/19/2011	50 U	0.4 J	1.2 J	21	0.14 J	NA	2 U	33000	0.61 J	1 U	35	89 U	2.2	DMETAL
FG	04/19/2011	760	0.58 J	1.7 J	29	0.25 J	NA	2 U	34000	2.2	1.7	2.4	1100	0.72 J	METAL
FG	10/10/2011	50 U	0.35 UJ	1.4	23	1 U	NA	0.19 J	48000	1 U	1 U	5.2	50 U	0.2 J	DMETAL
FG	10/10/2011	75	0.22 J	1 J	29	1 U	NA	0.25 J	50000	0.61 J	1 U	0.71 J	180	0.17 J	METAL
FG	04/09/2012	50 U	1 U	1.4	15 J	1 U	NA	1 U	25000	0.48 J	1 U	2.3 U	35 J	1 U	DMETAL
FG	04/09/2012	150	1 U	1.4	16	1 U	NA	0.11 J	25000	0.73 J	0.24 J	1 J	200	1 U	METAL
GEO	09/03/2010	12 J	1 U	1.8	56	0.5 U	120	1 U	59000	1.6	0.5 U	1.1 J	100 U	2 U	METAL
GEO	04/20/2011	75 U	1.1 U	1.7 J	88 J	3.2 U	NA	2 U	69000	1.3 U	0.63 J	27	89 UJ	1.7 J	DMETAL
GEO	10/06/2011	50 U	0.27 UJ	2.5	67	1 U	NA	1 U	51000 J	1.7	1 U	1 U	50 U	1 U	DMETAL
GEO	04/06/2012	15 UJ	1 U	1.6	94	0.26 J	NA	0.17 UJ	67000	0.62 J	1 U	2.3 U	50 U	1 U	DMETAL
MFA	09/24/2010	160	1 U	2.3	33	0.5 U	140	1 U	75000	0.65 J	1.1	1.8 J	220	2 U	METAL
MFA	04/12/2011	50 UJ	0.98 J	1.4	28	1 U	NA	1 U	45000	0.28 J	0.81 J	9.5 J	50 U	0.62 J	DMETAL
MFA	10/03/2011	50 U	0.11 J	0.47 J	48	1 U	NA	0.15 J	74000	0.8 UJ	0.71 J	6.2	500 U	1 U	DMETAL
MFA	04/05/2012	50 U	0.79 J	2.3	31	1 U	NA	0.57 J	47000	1 U	0.92 J	1.6 J	5.8 UJ	1 U	DMETAL
NRLF	09/16/2010	25	1 U	3.3	13	0.5 U	110	1 U	50000	1 U	0.57	2 U	300	2 U	METAL
NRLF	04/20/2011	75 U	0.41 J	5.2	15 J	3.2 U	NA	2 U	63000	1.3 U	0.86 J	82	150 UJ	4.1	DMETAL
NRLF	10/06/2011	50 U	0.38 UJ	1.4	30	1 U	NA	1 U	34000 J	1 U	1 U	1 U	50 U	1 U	DMETAL
NRLF	04/09/2012	50 U	0.61 J	2.9	58	1 U	NA	1 U	47000	1 U	0.64 J	2.3 U	180	1 U	DMETAL
OBS6	09/30/2011	33 J	0.21 J	3.6	100	1 U	NA	1 U	40000	1.5 UJ	1 U	1.6 U	50 U	1 U	DMETAL
OBS6	09/30/2011	50 U	1 U	1.7	110	1 U	NA	1 U	37000	0.15 J	1 U	2.7	22 J	2.4	METAL
PZ11	10/01/2010	20 U	1 U	2.5	11	0.5 U	77 J	2.7	200000	1 U	1	22	100 U	2 U	METAL
PZ11	04/20/2011	1200	1.1 U	0.67 J	12 J	2.1 J	NA	30	240000	1 J	3.7	1200	89 UJ	2.6	DMETAL
PZ11	04/20/2011	1200	0.56 J	0.82 J	13	1.8 J	NA	35	260000	0.74 J	3.4	1300	95 UJ	0.67 J	METAL
PZ11	10/10/2011	50 U	0.17 J	1.4	10	1 U	NA	3.4	230000	1 U	1.3	34	38 J	1 U	METAL
PZ11	10/10/2011	50 U	0.37 UJ	1.6	10	1 U	NA	4.9	230000	1 U	1.2	12	50 U	1 U	DMETAL
PZ11	04/05/2012	740	0.18 J	0.5 J	10	0.98 J	NA	19	130000	68 U	1.4	770	50 U	1 U	METAL
PZ11	04/05/2012	600	1 U	1.1	11	1.1	NA	22	160000	1.9	1.5	800	17 UJ	1 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
PZ8	10/15/2010	68	1 U	1.6	96	0.5 U	97 J	1 U	44000	1.3	0.29 J	1.5 J	110	2 U	METAL
PZ8	04/18/2011	50 U	0.32 J	2	84	1 UJ	NA	2 U	40000	1.1 J	1 U	3.7 J	50 UJ	0.45 J	DMETAL
PZ8	10/04/2011	50 U	0.36 J	7.7	99	1 U	NA	1 U	44000	1.2	1 U	1.6 U	100 U	1 U	DMETAL
PZ8	04/03/2012	50 U	1 U	2.1 UJ	88	1 U	NA	0.48 J	44000	1	1 U	1.6 J	50 U	1 U	DMETAL
PZ9	09/24/2010	20 U	1 U	2.7	79	0.5 U	62 J	1 U	36000	1 U	0.29 J	2 U	100 U	2 U	METAL
PZ9	04/20/2011	75 U	1.1 U	1.9	84 J	3.2 U	NA	2 U	37000	1.3 U	0.8 J	5.8	89 UJ	1.9 U	DMETAL
PZ9	10/07/2011	50 U	0.4 J	2.3	67	1 U	NA	1 U	29000	1 U	1 U	1 U	50 U	1 U	DMETAL
PZ9	10/07/2011	50 U	0.45 J	3.2	66	1 U	NA	0.19 J	30000	1 U	0.17 J	1 U	50 U	1 U	DMETAL
PZ9	04/06/2012	26 UJ	0.32 J	3	130 J	1 U	NA	1 U	47000	1 U	1	2.3 U	92 UJ	1 U	DMETAL
RWF	09/15/2010	54	1 U	1.3	120	0.5 U	100	1 U	72000	1.6	0.5 U	1.6 J	83 J	2 U	METAL
RWF	04/18/2011	10 J	0.26 J	0.63 J	79	1 UJ	NA	2 U	72000	0.58 J	1 U	3.7 J	50 UJ	0.49 J	DMETAL
RWF	10/06/2011	50 U	0.43 UJ	1.3	120	1 U	NA	1 U	63000 J	0.78 J	1 U	1 U	50 U	1 U	DMETAL
RWF	04/04/2012	50 U	0.18 J	2.2	150	0.21 J	NA	1.1	71000	0.47 J	0.52 J	1 J	28 UJ	1 U	DMETAL
TP1	09/29/2010	22	1 U	1.9	29	0.5 U	90 J	1 U	67000	1 U	0.28 J	1.3 J	100 U	2 U	METAL
TP1	04/18/2011	50 U	0.24 J	2.2	42	1 UJ	NA	2 U	160000	1.3 U	1.3	7.8 J	310	0.55 J	DMETAL
TP1	10/07/2011	50 U	0.52 J	1.4	23	1 U	NA	1 U	59000	1 U	0.86 J	1 U	50 U	1 U	DMETAL
TP1	04/05/2012	50 U	1 U	8.4	54	1 U	NA	1 U	180000	1 U	6.5	1.1 J	1200	1 U	DMETAL
TP2	09/29/2010	90	1 U	1.3	110	0.5 U	110	1 U	87000	1.9	0.39 J	2 U	150	2 U	METAL
TP2	04/18/2011	50 U	0.22 J	0.74 J	97	1 UJ	NA	2 U	75000	1.2 J	1 U	2.2 UJ	50 UJ	0.16 J	DMETAL
TP2	10/07/2011	50 U	1	2.4	81	1 U	NA	0.38 J	76000	0.7 J	1 U	1 U	50 U	0.27 J	DMETAL
TP2	04/09/2012	50 U	0.28 J	1.3	89	1 U	NA	0.42 J	77000	1.7	1 U	2.3 U	5.3 J	1 U	DMETAL
TP2	04/09/2012	50 U	1 U	1.9	91	1 U	NA	0.22 J	78000	1.7	1 U	2.3 U	50 U	1 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Analysis Group
WTA	09/30/2010	30	1 U	2.2	36	0.5 U	150	1 U	110000	9.5	0.33 J	2 U	100 U	2 U	METAL
WTA	04/14/2011	86	1 U	1.5 J	39	1 U	NA	0.34 J	100000	6	0.17 J	1 U	100 UJ	1 U	METAL
WTA	04/14/2011	75 U	0.51 J	1.3 J	36	3.2 UJ	NA	2 U	99000	6	1 U	11	89 U	1.9 U	DMETAL
WTA	04/14/2011	75 U	1.1 U	1.6 J	37	3.2 UJ	NA	2 U	93000	6.1	1 U	3	89 U	1.9 U	DMETAL
WTA	04/14/2011	66	1 U	1.7 J	39	1 U	NA	0.47 J	110000	6.1	0.16 J	1 U	80 UJ	1 U	METAL
WTA	10/05/2011	50 U	1 U	0.55 J	41	1 UJ	NA	1 U	100000	4.5	1 U	1 U	50 U	1 U	DMETAL
WTA	10/05/2011	150	1 U	1.6	47	1 U	NA	0.25 J	98000	5.1	0.49 J	5.2 U	270	0.17 J	METAL
WTA	04/05/2012	87 UJ	0.23 J	2.3	48	1 U	NA	0.35 UJ	90000	5.2	1 U	2.3 U	68 UJ	1 U	METAL
WTA	04/05/2012	17 J	1 U	2.4	55	1 U	NA	1 U	100000	5.8	1 U	2.3 U	8.1 UJ	1 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganes	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
B120	09/09/2010	150000	92	0.03 U	2.7	7.1	1600 J	2 U	0.5 U	170000	2 U	4.6	15	METAL
B120	04/15/2011	180000	140	0.2 U	2.2 UJ	1 U	1300	1 U	1.7 U	160000	1 U	5.2	3.3 J	DMETAL
B120	10/04/2011	170000	290	0.2 U	0.79 UJ	11	1900	0.97 J	1 U	160000	0.13 J	7.6	9 U	DMETAL
B120	04/03/2012	160000	330	0.079 J	0.9 J	6.5	1700 U	1 U	1 U	180000	1 U	4.7	9 U	DMETAL
B121	09/08/2010	39000	320	0.02 J	1.7	4.3	1600 J	2 U	0.5 U	75000	2 U	2.5 J	6.4	METAL
B121	04/13/2011	34000	7.7	0.2 U	0.33 J	1.2	850	1 U	1 U	59000	1 U	4	20	DMETAL
B121	10/04/2011	40000	8.2	0.2 U	1 U	1 U	640	1 U	0.14 J	64000	1 U	5.9	9.8	DMETAL
B121	04/04/2012	40000	7.6	0.2 U	0.89 J	1 U	470	0.34 UJ	1 U	68000	1 U	4.4	3.8 J	DMETAL
B128	09/23/2010	46000	360	0.048	2.8	2.7	6400	2 U	0.5 U	180000	2 U	4 U	2.8 J	METAL
B128	09/23/2010	39000	56	0.015 J	1.7	2	7700	2 U	0.5 U	170000	2 U	4 U	6.9	METAL
B128	04/18/2011	16000	69	0.11 J	0.91 J	10	730	0.4 J	1.7 U	93000	0.11 J	1.5 UJ	9 U	DMETAL
B128	10/04/2011	22000	170	0.052 UJ	0.36 UJ	7.1	1300	1 U	0.095 J	130000	1 U	2.5	21	DMETAL
B128	04/02/2012	17000	15	0.089 J	1 U	7.2	170 U	0.58 UJ	0.6 J	83000	1 U	1.9	9 U	DMETAL
B150	09/08/2010	19000	30	0.03 U	0.36 J	5.3	1300 J	3.2	0.5 U	36000	2 U	4 U	3.1 J	METAL
B150	04/13/2011	14000	2.2	0.2 U	1 U	2.7	560	37	1 U	26000	1 U	1.4	18	DMETAL
B150	10/05/2011	16000 UJ	5 U	0.2 U	1 U	1 U	580	14	1 U	29000	1 U	6	5 U	DMETAL
B150	10/05/2011	16000 J	5 U	0.2 U	1 U	1 U	590	10	1 U	29000	1 U	2.8	5 U	DMETAL
B150	04/04/2012	13000	1 U	0.2 U	0.22 J	0.58 J	170 U	67	1 U	30000	1 U	2.3	4.6 J	DMETAL
B150	04/04/2012	14000	0.9 J	0.2 U	0.53 J	0.71 J	170 U	66	1 U	30000	1 U	3.1	9 U	DMETAL
B158	09/08/2010	2600	13	0.03 U	0.87	1.8	1100 J	2 U	0.5 U	52000	2 U	6.4	3 J	METAL
B158	04/15/2011	1900	1.8	0.2 U	1.9 U	1 U	380	0.3 J	1.7 U	36000	0.068 J	5.9	9 U	DMETAL
B158	10/05/2011	2500	2.3 J	0.2 U	1 U	1 U	350 J	1 U	1 U	50000	1 U	8	5 U	DMETAL
B158	04/06/2012	2900	1.3	0.2 U	0.52 J	1 U	170 U	1 U	0.18 J	53000	1 U	7.3	35	DMETAL
B163	09/02/2010	200000	17000	0.083	0.95	170	2800	2 U	0.5 U	230000	2 U	4 U	9.2	METAL
B163	04/12/2011	180000	15000	0.2 UJ	0.23 J	180	1500	1 UJ	1 U	190000	0.08 J	1.9	27	DMETAL
B163	04/12/2011	190000	19000	0.19 J	1 UJ	200	1600	0.39 J	1 U	190000	0.063 J	2.2	27	METAL
B163	10/03/2011	330000	20000	0.17 UJ	0.71 UJ	200	1800	0.65 J	1 U	240000	1 U	0.68 J	15	DMETAL
B163	10/03/2011	240000	20000	0.18 J	0.35 UJ	200	2200 J	0.36 UJ	1 U	250000	1 U	2.2	4.1 J	METAL
B163	04/02/2012	200000	16000	0.23	2.4	180	1800	1.2 UJ	1 U	210000	1 U	3.3	9.1	DMETAL
B163	04/02/2012	200000 J	17000	0.22	1.2 UJ	200	990	1.3 J	1 U	220000	1 U	2.7	7.9 J	METAL

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METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganeses	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
B175S	09/03/2010	43000	250	0.072	1.3	3.3	2100	2 U	0.5 U	91000	2 U	4 U	2.5 J	METAL
B175S	04/13/2011	30000	12	0.2 U	0.23 J	2.3	740	0.86 J	1 U	67000	0.062 J	2.3	14	DMETAL
B175S	10/04/2011	38000	39	0.054 UJ	0.27 UJ	1 U	630	0.26 J	1 U	67000	1 U	2.7	7.1 J	DMETAL
B175S	04/04/2012	35000	4.6	0.2 U	1 U	1 U	110 J	0.76 UJ	1 U	74000	1 U	2.3	9 U	DMETAL
B175W	09/08/2010	12000	17	0.03 U	0.54	2.5	2700	2 U	0.5 U	56000	2 U	4 U	3.8 J	METAL
B175W	04/13/2011	9700	3.2	0.2 U	0.78 J	0.96 J	1600	1 UJ	1 U	45000	1 U	2.4	15	DMETAL
B175W	10/04/2011	13000	39	0.065 UJ	0.93 UJ	1 U	890	1 U	1 U	45000	1 U	4.7	18	DMETAL
B175W	04/04/2012	11000	4	0.2 U	3	1 U	280	1.1 UJ	1 U	45000	1 U	2	9 U	DMETAL
B177	09/23/2010	9900	3.9	0.03 U	0.27 J	1.8	2000 U	1.1 J	0.5 U	32000	2 U	4 U	4 J	METAL
B177	04/18/2011	14000	0.95 J	0.038 J	0.52 J	1 U	280	1.8	1.7 U	34000	1 U	1.7 UJ	5 U	DMETAL
B177	10/05/2011	11000 J	9.8	0.2 U	1 U	1 U	250 J	1 U	1 U	29000	0.28 J	3	5.8	DMETAL
B177	04/04/2012	21000	0.44 J	0.2 U	0.23 J	7.1	170 U	2.6	1 U	45000	1 U	2	9.3	DMETAL
B178	09/02/2010	140000	570	0.03 U	2.4	7.5	2800	2 U	0.5 U	150000	2 U	2.9 J	4.7 J	METAL
B178	04/15/2011	140000	430	0.2 U	2.4 UJ	1 U	1400	2.5 U	1.7 U	160000	1 U	4.7	3.4 J	DMETAL
B178	10/04/2011	150000	810	0.2 U	2.3 UJ	12	1400	1.5	0.16 J	130000	0.37 J	6.5	6 J	DMETAL
B178	04/03/2012	150000	1100	0.2 U	1.7	12 J	1500	0.41 UJ	1 U	250000	1 U	3.6	3.7 J	DMETAL
B180	09/15/2010	5200	20	0.03 U	1.2	2.2	2000 U	2 U	0.5 U	92000	2 U	9.6	4.2 J	METAL
B180	04/13/2011	4200	2.7	0.2 U	0.91 J	0.53 J	640	1 UJ	1 U	83000	1 U	6.2	54	DMETAL
B180	10/06/2011	5500 J	0.5 J	0.2 U	1.1 UJ	1 U	340	0.66 J	1 U	76000	1 U	9.6	9.6	DMETAL
B180	10/06/2011	5600 J	0.29 J	0.2 U	1 UJ	1 U	320	0.34 J	1 U	76000	1 U	8.5	28	DMETAL
B180	04/04/2012	4700	0.8 J	0.2 U	1.7	1 U	98 J	0.55 UJ	1 U	78000	1 U	6.7	9 U	DMETAL
B185	09/02/2010	130000	330	0.03 U	1	7.1	2400	2 U	0.5 U	130000	2 U	4 U	3.6 J	METAL
B185	04/15/2011	120000	130	0.2 U	1.9 U	1 U	990	2.5 U	1.7 U	92000	1 U	3.4	8.3	DMETAL
B185	04/15/2011	130000	120	0.2 U	1.9 U	1 U	1000	2.5 U	1.7 U	97000	1 U	3.6	5.8 J	DMETAL
B185	10/03/2011	140000	170	0.088 UJ	0.69 UJ	8.4	1200	0.28 J	1 U	120000	1 U	5.7	47	DMETAL
B185	10/03/2011	220000	170	0.088 UJ	1 U	1 U	1300	1 U	1 U	130000	1 U	5.2	29	DMETAL
B185	04/02/2012	140000	440	0.041 J	0.77 J	5.2	780	0.89 UJ	1 U	120000	1 U	4.8	9 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganeses	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
B194	09/09/2010	39000	180	0.03 U	2.3	1.8	4400	2 U	0.5 U	120000	2 U	2.4 J	5 U	METAL
B194	04/13/2011	35000	1.8	0.2 U	0.74 J	0.79 J	1100	1 UJ	1 U	99000	1 U	3.9	27	DMETAL
B194	10/04/2011	36000	8.7	0.2 U	1 U	1 U	1000	0.51 J	1 U	110000	0.24 J	4.7	9 U	DMETAL
B194	04/04/2012	35000	0.36 J	0.2 U	1 U	1 U	350 U	1 U	1 U	110000	1 U	4.4	5.4 J	DMETAL
B195	09/09/2010	110000	63	10	1.1	3.1	2900	2 U	0.5 U	130000	2 U	4 U	4.3 J	METAL
B195	04/13/2011	36000	5	1.2	0.36 J	1.1	570	1 UJ	1 U	57000	1 U	4	57	DMETAL
B195	04/13/2011	39000	11	2.4	1 UJ	1.1	660	0.43 J	1 U	59000	1 U	4.1	5 UJ	METAL
B195	04/13/2011	35000	5.1	1.1	0.39 J	1	560	0.44 J	1 U	56000	1 U	3.6	27	DMETAL
B195	04/13/2011	40000	8.1	2.2	1 UJ	2.9 U	690	0.41 J	1 U	60000	1 U	3.9	8 UJ	METAL
B195	10/04/2011	120000	15	10	1.2 UJ	3.3	820	1 U	1 U	110000	1.6	5	9 J	DMETAL
B195	10/04/2011	150000	16	15	2.5	1.5	870	1 U	1 U	140000	0.45 J	4	9 U	METAL
B195	04/03/2012	50000	8.3	2	0.71 J	1 U	390	1.1 UJ	1 U	69000	1 U	6.2	9 U	DMETAL
B195	04/03/2012	43000	7 J	2.7	1 U	0.41 J	740	1.3	1 U	65000	1 U	1.9	9 U	METAL
B197	09/09/2010	120000	36	0.03 U	1.5	2.8	2000	2 U	0.5 U	130000	2 U	2.7 J	5.8	METAL
B197	09/09/2010	120000	34	0.03 U	1.4	2.6	1800 J	2 U	0.5 U	130000	2 U	2.8 J	3.8 J	METAL
B197	04/13/2011	150000	1300	0.2 U	1.3	8.4	1300	1 U	1 U	140000	1 U	2.4	10	DMETAL
B197	10/04/2011	120000	530	0.2 U	0.73 UJ	8	1300	0.68 J	0.21 J	110000	1 U	6.7	14	DMETAL
B197	04/03/2012	170000	2500	0.049 J	1 U	3.3	1700 U	0.44 UJ	1 U	170000	1 U	1 U	9 U	DMETAL
B197	04/03/2012	160000	2400	0.062 J	1 U	2.2	1700 U	0.47 UJ	1 U	170000	1 U	1 U	9 U	DMETAL
B277	09/15/2010	23000	9.9	0.03 U	1	1 U	2000	2 U	0.5 U	58000	2 U	2.5 J	5 U	METAL
B277	04/18/2011	22000	37	0.07 J	1.4	1 U	1200	0.53 J	1.7 U	45000	1 U	4.5	7.8 J	DMETAL
B277	10/05/2011	23000 J	35	0.2 U	0.3 J	1 U	1100	1 U	1 U	55000	1 U	6.6	25	DMETAL
B277	04/03/2012	24000	4.8	0.2 U	1.1	1 U	1000	0.56 UJ	1 U	47000	1 U	6.2	12	DMETAL
B278	09/16/2010	150000	150	0.015 J	0.62	2.7	3900	2 U	0.5 U	190000	2 U	4 U	6.4	METAL
B278	04/19/2011	130000	35	0.15 J	1.9 UJ	2.3 J	2100	2.5 U	1.7 U	170000	1 U	3	38 J	DMETAL
B278	10/05/2011	150000	46	0.2 U	1 U	1 U	2500	1 U	1 U	170000	1 U	5.1	29	DMETAL
B278	04/05/2012	150000	19	0.036 UJ	0.79 UJ	2.7	1700 U	1 U	1 U	200000	1 U	4.1	20 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganeses	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
B280A	09/16/2010	29000	15	0.03 U	1.6	0.77 J	1200 J	2 U	0.5 U	66000	2 U	2.4 J	5 U	METAL
B280A	04/14/2011	22000	8.3	0.2 U	1.9 UJ	1 U	570	2.5 U	1.7 U	48000	1 U	3.7	9 U	DMETAL
B280A	10/06/2011	25000 J	14	0.2 U	1.6 UJ	0.37 J	840	0.31 J	1 U	54000	1 U	4.8	8.9	DMETAL
B280A	04/03/2012	27000	6.6	0.2 U	1 U	1 U	730	1 U	1 U	62000	1 U	6.3	9 U	DMETAL
B280B	10/01/2010	25000	7.2	0.03 U	3.8	0.62 J	8900	2 U	0.5 U	130000	2 U	4 U	3.2 J	METAL
B280B	04/14/2011	20000	0.86 J	0.2 U	1.9 UJ	1 U	3900	2.5 U	1.7 U	87000	1 U	2.7	6.5 J	DMETAL
B280B	10/06/2011	21000 J	22	0.2 U	2.8	1 U	3000	1 U	1 U	72000	1 U	2.3	7.3	DMETAL
B280B	04/03/2012	20000	3.8	0.066 J	1 U	1 U	2900	1 U	1 U	78000	1 U	5.1	9 U	DMETAL
B300	09/09/2010	82000	110	0.03 U	1	2.8	4100	2 U	0.5 U	110000	2 U	4 U	5 U	METAL
B300	04/15/2011	160000	12000	0.2 U	1.9 UJ	0.8 J	9100 J	0.4 J	1.7 U	190000	1 U	0.73 J	9 U	DMETAL
B300	10/06/2011	5300 J	1400	0.11 UJ	20 U	23 U	13000	20 U	20 U	6500	10 U	12 J	1000	DMETAL
B300	04/09/2012	130000	9200	0.06 UJ	1 U	7.6	3800	1 U	1 U	140000	1 U	0.51 J	53	DMETAL
B38	09/15/2010	23000	37	0.03 U	0.58	3.9	1600 J	2 U	0.5 U	57000	2 U	4 U	3.6 J	METAL
B38	04/19/2011	18000	4.3	0.2 U	1 UJ	2.2 J	520	2.5 U	1.7 U	47000	1 U	2.6	11	DMETAL
B38	04/19/2011	18000	4	0.089 J	1 UJ	2.6 J	590	2.5 U	1.7 U	51000	1 U	2.7	40	DMETAL
B38	10/06/2011	15000 J	31	0.2 U	0.36 UJ	3.1	480	1 U	1 U	37000	1 U	3.1	8.6	DMETAL
B38	04/04/2012	17000	11	0.2 U	0.32 J	0.67 J	170 U	0.46 UJ	1 U	42000	1 U	3.5	6.5 J	DMETAL
B450	04/19/2011	43000	5.1	0.055 J	1.4 UJ	2.9 U	1800	2.5 U	1.7 U	73000	0.36 J	3.2	3.3 J	DMETAL
B450	04/19/2011	51000	22	0.099 J	1.4 J	1 U	2200	2.5 U	1.7 U	84000	0.48 J	3.5	9 U	METAL
B450	10/10/2011	35000	73	0.2 U	0.69 J	1.5	1400	0.32 J	1 U	52000	0.16 J	3.6	38	DMETAL
B450	04/06/2012	61000	1.4	0.2 U	1.4	1 U	2100	1.7	1 U	79000	1 U	2.6	17 J	DMETAL
B460	09/15/2010	17000	500	0.03 U	0.65	2.8	3300	2 U	0.5 U	44000	2 U	4 U	8.2	METAL
B460	04/20/2011	18000 J	7.2	0.08 J	1.9 UJ	1.3 J	2900	2.5 U	1.7 U	45000	1 U	1.7 J	23	DMETAL
B460	10/07/2011	18000	270	0.2 U	1.5 UJ	0.75 J	1800	1 U	1 U	37000	1 U	1.4	7.1	DMETAL
B460	04/06/2012	15000	35	0.2 U	0.64 J	1 U	1000	1 U	1 U	36000	1 U	2.1	17 J	DMETAL
B473	09/24/2010	26000	42	0.03 U	0.95	2	1900 J	2 U	0.5 U	100000	2 U	4.1	23	METAL
B473	04/20/2011	44000 J	1.2 J	0.067 J	1.9 UJ	1.2 J	4000	2.5 U	1.7 U	99000	1 U	3.7	14	DMETAL
B473	10/07/2011	22000	0.55 UJ	0.2 U	0.38 UJ	1 U	1400	1 U	1 U	67000	1 U	3.7	8.4	DMETAL
B473	04/06/2012	18000	2.8	0.2 U	0.89 J	1 U	1000	1 U	1 U	59000	1 U	3.1	12 J	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganeses	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
B474	09/23/2010	24000	540	0.024 J	2.1	5.3	3500	2 U	0.5 U	120000	2 U	2.4 J	6.4	METAL
B474	04/20/2011	27000 J	42	0.066 J	2.5 UJ	1.5 J	3000	2.5 U	1.7 U	81000	1 U	4.2	36	DMETAL
B474	04/20/2011	26000	55	0.2 UJ	3.1	1.7 J	2900	2.5 U	1.7 U	78000	0.057 J	3.7	9 U	METAL
B474	10/07/2011	10000	4 UJ	0.11 UJ	18	3.5	1500	1 U	1 U	20000	1 U	3.5	98	DMETAL
B474	10/07/2011	14000	66	0.22	21	6	2000	0.31 J	1 U	17000	1 U	4.6	17	METAL
B474	04/09/2012	16000	140	0.07 UJ	8.7	6.7	2300	1 U	1 U	16000	1 U	4.7	11 J	DMETAL
B474	04/09/2012	14000	140	0.038 J	9.5	6	2200	0.45 J	1 U	20000	1 U	1.7	16 J	METAL
B480	09/24/2010	46000	480	0.03 U	1.5	2	3900	2 U	0.5 U	110000	2 U	2 J	3.3 J	METAL
B480	04/19/2011	39000	37	0.1 J	1.9 UJ	1.3 J	2200	2.5 U	1.7 U	86000	0.082 J	4.1	11	DMETAL
B480	10/07/2011	32000	42 UJ	0.2 U	1.3 UJ	2	1500	0.37 J	1 U	61000	1 U	3.8	30	DMETAL
B480	04/09/2012	50000	3.8	0.06 UJ	1 U	3.3	1700	1 U	1 U	92000	1 U	6.8	21	DMETAL
B490	09/16/2010	54000	86	0.03 U	0.66	2.1	1600 J	2 U	0.5 U	55000	2 U	3.2 J	5 U	METAL
B490	04/20/2011	52000	1.4 J	0.2 U	1.9 UJ	1.1 J	860	2.5 U	1.7 U	56000	1 U	5.2	16	DMETAL
B490	10/10/2011	42000	11	0.2 U	1.2 UJ	0.37 J	500 U	1 U	0.076 J	50000	0.42 J	5.3	18	DMETAL
B490	04/09/2012	50000	4.9	0.049 UJ	0.33 J	2.5	510	1 U	1 U	53000	1 U	6.7	9.8 J	DMETAL
BULB1	10/19/2010	850000	5600	0.09	33	46	150000	8.6	5 U	7700000	20 U	10 U	20	METAL
BULB1	04/12/2011	710000	2000	0.15 J	7.7	7.5	150000	0.6 J	1 U	6400000	0.39 J	1.3	38	METAL
BULB1	04/12/2011	670000	1300	0.2 UJ	5.5	4	190000	1 UJ	1 U	5700000	0.1 J	0.9 J	18	DMETAL
BULB1	09/30/2011	1400000	950	0.2 U	6.5	5	230000	1 J	0.19 J	8200000	1 U	10	19	DMETAL
BULB1	09/30/2011	980000	750	0.09 J	4.7	1 U	300000	0.73 UJ	1 U	9700000	1 U	1.3	9 U	METAL
BULB1	04/05/2012	970000	640	0.2 U	6.5	2.7	270000	0.87 J	1 U	8000000	1 U	0.64 J	20 U	DMETAL
BULB1	04/05/2012	860000	510	0.043 J	6.2	1.4	260000	1.1 UJ	1 U	7300000	1 U	4.5	20 U	METAL
BULB2	10/19/2010	190000	5600	2.5	7.9	25	40000	3	0.5 U	1900000	2 U	2.8 J	22	METAL
BULB2	04/12/2011	85000	2800	0.2 J	8.1	16	17000	0.36 J	1 U	740000	0.18 J	3.2	61	METAL
BULB2	04/12/2011	21000	460	0.2 U	6.6	3.2	10000	1 UJ	1 U	400000	0.22 J	2.1	48	DMETAL
BULB2	09/30/2011	42000	760	0.2 U	7.3	2.5	7900	1 U	1 U	220000	1 U	4.9	15	DMETAL
BULB2	09/30/2011	44000	770	0.31	5.6	0.12 J	9100	1 U	1 U	240000	1 U	3.9	9 U	METAL
BULB2	04/05/2012	190000	1600	0.047 UJ	4.2	13	37000	1.3	1 U	1500000	1 U	2.8	8.8 J	DMETAL
BULB2	04/05/2012	200000 J	1400 J	0.099 J	5.9	5.3	30000	0.46 UJ	1 U	1500000 J	1 U	2.5	15 J	METAL

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

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University of California, Berkeley, Richmond Field Station, Richmond, California

METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganeses	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
CCC1	09/08/2010	17000	4.1	0.03 U	2.2	1.2	2500	2 U	0.5 U	98000	2 U	3.3 J	3.5 J	METAL
CCC1	04/14/2011	20000	18	0.047 J	2.4 UJ	1.4 J	1400	2.5 U	1.7 U	91000	0.11 J	3.6	9 UJ	DMETAL
CCC1	10/05/2011	23000 J	24	0.2 U	0.9 J	1 U	1300	1 U	1 U	89000	1 U	6.3	2.1 J	DMETAL
CCC1	04/10/2012	28000	7.7	0.043 UJ	0.24 J	3	1500	0.28 J	1 U	120000	1 U	3.9	17 J	DMETAL
CCC2	09/08/2010	32000	42	0.03 U	2.4	1.6	3600	6.6	0.5 U	120000	2 U	2 J	3.4 J	METAL
CCC2	04/14/2011	160000	69	0.2 U	1.9 U	38	2000	5.4	1.7 U	140000	0.62 J	0.82 J	55	DMETAL
CCC2	04/14/2011	180000	100	0.2 U	1 U	40	2100	6.1	1 U	160000	1 U	1.2	5.7 UJ	METAL
CCC2	10/04/2011	47000	110	0.05 UJ	0.85 UJ	1 U	1700	6.8	1 U	110000	1 U	2.4	13	DMETAL
CCC2	10/04/2011	46000	120	0.2 U	1.3 UJ	4	1700	6.6	1 U	99000	0.63 J	3	9 U	METAL
CCC2	04/10/2012	84000	200	0.059 UJ	1 U	11	1800	3.5	1 U	110000	1 U	2.3	49	DMETAL
CCC2	04/10/2012	72000	140	0.043 J	0.75 J	9	2000	4.8	1 U	89000	1 U	1.6	7 J	METAL
CCC3	09/03/2010	47000	940	0.019 J	4	6.5	4200	2 U	0.5 U	110000	2 U	3.5 J	3.9 J	METAL
CCC3	09/03/2010	46000	1200	0.03 U	3.3	5.8	2800	2 U	0.5 U	99000	2 U	4 U	5 U	METAL
CCC3	04/12/2011	35000	31	0.2 U	1.1	1	2000	1 U	1 U	86000	1 U	3.1	13	DMETAL
CCC3	10/04/2011	45000	510	0.2 U	1.6 UJ	1 U	2000	1 U	1 U	91000	1 U	3.5	9 U	DMETAL
CCC3	10/04/2011	44000	520	0.058 UJ	2.3 UJ	1 U	1900	1 U	1 U	85000	1 U	3	9 U	DMETAL
CCC3	04/10/2012	46000	350	0.053 UJ	0.51 J	4.9	2500	1 U	1 U	95000	1 U	2.6	10 J	DMETAL
CCCT	09/03/2010	81000	1400	0.015 J	2.5	6.6	5000	2 U	0.5 U	150000	2 U	4 U	3.3 J	METAL
CCCT	04/18/2011	68000	86	0.12 J	1.7	1 U	2300	0.47 J	1.7 U	120000	0.072 J	3.2 UJ	2.7 J	DMETAL
CCCT	10/03/2011	84000	210	0.091 UJ	1.6 UJ	1 U	1900	0.26 J	1 U	140000	1 U	1 U	53	DMETAL
CCCT	04/04/2012	91000	210	0.2 U	2.9	1.6	1500	0.5 UJ	1 U	140000	1 U	2.9	7.5 J	DMETAL
CTP	09/30/2010	27000	400	0.03 U	1.2	2.1	2000	2 U	0.5 U	76000	2 U	4 U	5 U	METAL
CTP	09/30/2010	28000	400	0.03 U	1.2	2.1	1700 J	2 U	0.5 U	76000	2 U	4 U	5 U	METAL
CTP	04/14/2011	28000	280	0.2 U	1.9 UJ	1 U	1500	2.5 U	1.7 U	52000	1 U	2.9	230	DMETAL
CTP	10/06/2011	26000 J	230	0.2 U	0.74 UJ	0.9 J	890	0.17 J	1 U	56000	1 U	2.9	63	DMETAL
CTP	04/03/2012	30000	110	0.2 U	1 U	1 U	1000	0.67 UJ	1 U	63000	1 U	1.9	57	DMETAL
CTPS	09/30/2010	69000	1000	0.03 U	1.3	4.4	7500	2 U	0.5 U	150000	2 U	4 U	2.7 J	METAL
CTPS	04/19/2011	25000	6.8	0.2 U	1 UJ	1.7 J	1300	2.5 U	1.7 U	65000	1 U	0.94 J	11	DMETAL
CTPS	10/07/2011	30000	37 UJ	0.2 U	0.51 UJ	2.4	2000	0.3 J	1 U	78000	0.27 J	1.5	11	DMETAL
CTPS	04/05/2012	24000	1.7	0.023 UJ	0.57 UJ	3.1	430	1 U	0.37 J	62000	1 U	2.1	20 U	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganeses	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
DH	09/30/2010	340000	1300	0.03 U	2.2	37	6700	2 U	0.5 U	520000	2 U	4 U	5	METAL
DH	04/14/2011	420000	980	0.2 U	1.9 UJ	39	5100	2.5 U	1.7 U	480000	1 U	2.8	17	DMETAL
DH	10/05/2011	560000 J	4500	0.2 U	0.21 J	14	4200	1 U	1 U	570000	1 U	2.4	41	DMETAL
DH	04/06/2012	390000	19000	0.066 J	1.6	56	7900	1 U	1 U	560000	1 U	2.2	25	DMETAL
EERC	10/01/2010	350000	5500	0.015 J	2.9	18	9800	2 U	0.5 U	480000	2 U	4 U	7.5	METAL
EERC	04/20/2011	330000 J	320	0.044 J	1.9 UJ	9.5 J	5000	2.5 U	1.7 U	520000	1 U	3.1	11	DMETAL
EERC	04/20/2011	330000	190	0.2 UJ	1.8 J	9.7	4300	2.5 U	1.7 U	570000	0.07 J	3.3	9 U	METAL
EERC	10/07/2011	270000	2900	0.2 U	1.7 UJ	9.9	2900	0.71 J	1 U	400000	1 U	1.2	5.4	DMETAL
EERC	10/07/2011	270000	3500	0.2 U	2.4	13	2800	0.56 J	1 U	430000	1 U	2.9	11	METAL
EERC	04/06/2012	270000	23	0.2 U	1.5	1 U	3300	0.35 J	1 U	440000	1 U	3.6	7.6 J	DMETAL
EERC	04/06/2012	260000	45	0.2 U	2.9	2.7	3500	0.78 J	1 U	430000	1 U	3.1	20 U	METAL
EPA	09/16/2010	39000	700	0.017 J	2.5	2.1	5100	2 U	0.5 U	130000	2 U	4 U	6.2	METAL
EPA	04/19/2011	39000	130	0.2 U	2 UJ	1.3 J	2700	2.5 U	1.7 U	150000	1 U	1.8	4.5 J	DMETAL
EPA	10/06/2011	37000 J	390	0.2 U	1.8 UJ	1 U	2200	0.24 J	1 U	120000	1 U	2.5	11	DMETAL
EPA	04/06/2012	48000	520	0.2 U	1.4	1 U	1700	1 U	1 U	150000	1 U	1	15 J	DMETAL
EPA	04/06/2012	45000	410	0.2 U	1.4	1 U	1300	1 U	1 U	160000	1 U	1.3	8.1 J	DMETAL
ETA	09/24/2010	86000	4600	2.3	2.7	10	1900 J	2 U	0.5 U	150000	2 U	5.4	110	METAL
ETA	09/24/2010	86000	4600	1.3	2.9	4.9	1600 J	2 U	0.5 U	150000	2 U	4 U	50	METAL
ETA	04/12/2011	81000	4000	0.2 U	4.3	2.8	1300	1 U	1 U	130000	0.3 J	0.55 J	47	DMETAL
ETA	04/12/2011	89000	4300	1.6	4.9	6.3	1800	0.15 J	1 U	130000	1 U	3.9	95	METAL
ETA	09/30/2011	81000	5000	0.2 U	2.1 UJ	3.6	900	0.8 J	0.06 J	150000	1 U	13	47	DMETAL
ETA	09/30/2011	84000	4800	1.6	1.8	4.3 J	980	1 U	1 U	160000	1 U	2.2	61	METAL
ETA	04/10/2012	130000	5100	0.083 UJ	1.8	3.8	1300	1 U	1 U	190000	1 U	0.99 J	57	DMETAL
ETA	04/10/2012	90000	4900	0.78	3	4	780	1 U	0.74 J	110000	0.28 J	1.1	54	METAL
ETA	04/10/2012	110000	4800	0.095 UJ	2	3.6	1200	1 U	1 U	170000	1 U	1.1	55	DMETAL
ETA	04/10/2012	87000	4900	0.64	3	3.9	1200	1 U	1 U	110000	1 U	0.96 J	49	METAL
EXT	09/30/2011	20000	3.4	0.2 U	3.3	0.085 J	2100	0.23 J	1 U	48000	1 U	14	11	DMETAL
EXT	09/30/2011	18000	8	0.2 U	2.3	1 U	1400	1 U	1 U	46000	1 U	0.18 J	7.6	METAL

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METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganeses	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
FG	09/23/2010	130000	4200	0.015 J	0.93	130	2700	8 U	0.5 U	130000	2 U	91	170	METAL
FG	04/19/2011	35000	70	0.14 J	1.1 J	7.3	1200	2.5 U	1.7 U	91000	0.21 J	5.8	9 U	METAL
FG	04/19/2011	33000	28	0.063 J	1 UJ	2.7 J	800	2.5 U	1.7 U	83000	1 U	1.9	29	DMETAL
FG	04/19/2011	31000	31	0.057 J	1 UJ	0.26 J	810	2.5 U	1.7 U	79000	1 U	1.8	29	DMETAL
FG	04/19/2011	35000	84	0.1 J	1.9 U	6.7	1000	2.5 U	1.7 U	87000	0.15 J	4.2	9 U	METAL
FG	10/10/2011	50000	93	0.2 U	0.73 UJ	3.8	2100	0.19 J	1 U	94000	1 U	2	31	DMETAL
FG	10/10/2011	54000	160	0.2 U	0.66 J	4.9	1200	0.21 J	1 U	100000	1 U	1.8	10	METAL
FG	04/09/2012	29000	1.8	0.032 UJ	1 U	1 U	420	0.28 J	1 U	75000	1 U	4.2	20 U	DMETAL
FG	04/09/2012	27000	13	0.2 U	0.8 UJ	2.1	810	1 U	1 U	73000	1 U	1.9	20 U	METAL
GEO	09/03/2010	30000	43	0.03 U	2.6	1.5	2800	2 U	0.5 U	85000	2 U	2.5 J	5 U	METAL
GEO	04/20/2011	31000 J	440	0.071 J	4.5 UJ	6.2 J	3700	2.5 U	1.7 U	69000	0.17 J	3.2	58	DMETAL
GEO	10/06/2011	25000 J	230	0.2 U	3.4	1.5	1900	0.32 J	1 U	54000	1 U	4	26	DMETAL
GEO	04/06/2012	33000	27	0.2 U	1.6	1 U	810	1 U	1 U	71000	1 U	4.6	36	DMETAL
MFA	09/24/2010	61000	580	0.18	5.2	7.9	1400 J	2 U	0.5 U	150000	2 U	3.9 J	4.4 J	METAL
MFA	04/12/2011	37000	230	0.2 UJ	4.2	7.1	510	1 UJ	1 U	99000	1 U	4.6	39	DMETAL
MFA	10/03/2011	60000	410	0.82	4.1 J	16	450	0.23 J	1 U	120000	1 U	3.3	8.2 J	DMETAL
MFA	04/05/2012	43000	270	0.52	5.4	9.4	200	1 U	1 U	130000	0.21 J	6.4	20 U	DMETAL
NRLF	09/16/2010	26000	440	0.03 U	1.1	1.9	2400	2 U	0.5 U	57000	2 U	4 U	5 U	METAL
NRLF	04/20/2011	30000 J	640	0.2 U	1.9 UJ	2.9 UJ	2700	2.5 U	1.7 U	81000	1 U	0.92 J	83	DMETAL
NRLF	10/06/2011	22000 J	110	0.2 U	1 UJ	0.31 J	920	1 U	1 U	42000	1 U	2.8	22	DMETAL
NRLF	04/09/2012	25000	210	0.053 UJ	1 U	4.9	1300	1 U	1 U	54000	1 U	0.89 J	11 J	DMETAL
OBS6	09/30/2011	23000	1 U	0.2 U	2.1 UJ	1 U	1800	0.76 J	1 U	49000	1 U	3	4.3 J	DMETAL
OBS6	09/30/2011	21000	100	0.2 U	0.31 J	0.67 UJ	1300	1 U	1 U	45000	1 U	1.7	51	METAL
PZ11	10/01/2010	210000	1700	0.03 U	3.8	140	1100 J	2 U	0.5 U	170000	2 U	3.8 J	430	METAL
PZ11	04/20/2011	290000 J	11000	0.08 J	1.9 UJ	1700 J	350	2.5 U	1.7 U	180000	1 U	1.7 U	10000	DMETAL
PZ11	04/20/2011	290000	13000	0.23 UJ	1.9 U	2400	430	2.5 U	1.7 U	200000	0.1 J	1.7 U	13000	METAL
PZ11	10/10/2011	270000	3700	0.2 U	3.6	340	490	1 U	1 U	160000	1 U	3.8	810	METAL
PZ11	10/10/2011	250000	3200	0.2 U	3.4	300	730	0.22 J	1 U	150000	1 U	4.4	740	DMETAL
PZ11	04/05/2012	180000	5400	0.03 J	0.41 UJ	1200	170 U	0.48 UJ	1 U	160000	1 U	0.4 J	6600	METAL
PZ11	04/05/2012	200000	6600	0.049 UJ	1 U	1400	170 U	0.35 J	1 U	170000	1 U	1	7600	DMETAL

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METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganes	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
PZ8	10/15/2010	40000	27	0.03 UJ	0.49 J	2.5	2000 U	2 U	0.5 U	66000	2 U	3.5 J	3.4 J	METAL
PZ8	04/18/2011	31000	2.9	0.04 J	0.56 J	1 U	800	0.26 J	1.7 U	53000	1 U	4.1	5 U	DMETAL
PZ8	10/04/2011	40000	0.73 J	0.07 UJ	0.56 UJ	0.87 J	490	0.26 J	0.099 J	62000	1 U	4.2	9 U	DMETAL
PZ8	04/03/2012	42000	4.5	0.2 U	1 U	1 U	130 J	0.44 J	1 U	56000	1 U	3.1	9 U	DMETAL
PZ9	09/24/2010	36000	260	0.17	0.95	3.5	2000 U	2 U	0.5 U	54000	2 U	2.3 J	4.9 J	METAL
PZ9	04/20/2011	34000 J	1900	0.2 U	1.9 UJ	5.3 J	330	2.5 U	1.7 U	45000	1 U	2.1	10	DMETAL
PZ9	10/07/2011	31000	190	0.022 UJ	0.54 UJ	2.7	560	1 U	1 U	42000	1 U	3.8	69	DMETAL
PZ9	10/07/2011	32000	200	0.2 U	0.64 UJ	1 U	570	1 U	1 U	43000	1 U	3.6	60	DMETAL
PZ9	04/06/2012	44000	2900 J	0.026 J	1.7	1 U	170 U	1 U	1 U	53000	1 U	0.47 J	8.3 J	DMETAL
RWF	09/15/2010	60000	88	0.03 U	0.71	2.8	2000	2 U	0.5 U	77000	2 U	2.1 J	3.8 J	METAL
RWF	04/18/2011	55000	3.1	0.2 U	1	1 U	1100	0.21 J	1.7 U	75000	1 U	2.6 UJ	9 U	DMETAL
RWF	10/06/2011	53000 J	19	0.2 U	0.52 UJ	0.78 J	1000	0.54 J	1 U	61000	1 U	3.7	29	DMETAL
RWF	04/04/2012	57000	290	0.029 J	0.86 J	2.9	2300	1 U	1 U	70000	1 U	3.9	120	DMETAL
TP1	09/29/2010	60000	260	0.33	1.3	5.8	2000	2 U	0.5 U	92000	2 U	2.3 J	7.2	METAL
TP1	04/18/2011	94000	980	0.17 J	1.9	1 U	3900	0.21 J	1.7 U	210000	1 U	1.7 UJ	5.5 J	DMETAL
TP1	10/07/2011	60000	420	0.056 UJ	0.65 UJ	11	980	1 U	1 U	71000	1 U	1.8	12	DMETAL
TP1	04/05/2012	120000	3400	0.2 UJ	2.7	20	1300	1 U	1 U	290000	1 U	1.1	20 U	DMETAL
TP2	09/29/2010	72000	120	0.03 U	1.1	8.6	1600 J	2 U	0.5 U	88000	2 U	2.9 J	5 U	METAL
TP2	04/18/2011	56000	3.3	0.2 U	0.82 J	1 U	2300	0.78 J	1.7 U	75000	1 U	3.9	4.2 J	DMETAL
TP2	10/07/2011	67000	5.1 UJ	0.2 U	0.68 UJ	1 U	1300	0.17 J	1 U	73000	0.11 J	3.4	42	DMETAL
TP2	04/09/2012	66000	5.4	0.054 UJ	1 U	4.1	1800	1 U	1 U	75000	1 U	5.7	8.5 J	DMETAL
TP2	04/09/2012	67000	6.1	0.058 UJ	1 U	3.4	1500	0.28 J	1 U	79000	1 U	6.8	8.7 J	DMETAL

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

METALS (µg/L)

Location ID	Sample Date	Magnesium	Manganeses	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Analysis Group
WTA	09/30/2010	66000	48	0.03 U	1.4	1.5	2100	2 U	0.5 U	150000	2 U	3 J	5 U	METAL
WTA	04/14/2011	63000	31	0.041 J	1 UJ	2.9 U	1200	1 U	1 U	130000	1 U	4.1	5 UJ	METAL
WTA	04/14/2011	61000	21	0.2 U	1.9 UJ	0.97 J	1100	2.5 U	1.7 U	120000	0.093 J	3.8	4.3 J	DMETAL
WTA	04/14/2011	61000	20	0.2 U	1.9 UJ	1 J	1100	2.5 U	1.7 U	120000	0.1 J	4.1	9 U	DMETAL
WTA	04/14/2011	64000	29	0.042 J	1 UJ	2.9 U	1200	1 U	1 U	130000	1 U	4.1	9 U	METAL
WTA	10/05/2011	64000 J	93	0.2 U	0.25 J	1 U	1300	1 U	1 U	140000	1 U	4.1	5 U	DMETAL
WTA	10/05/2011	67000 J	120 J	0.2 U	1.2	2.7 UJ	1100	0.66 J	1 U	130000	0.15 J	5.2	5.6	METAL
WTA	04/05/2012	55000	46	0.2 U	1.5 UJ	1 U	500	0.97 UJ	1 U	140000	1 U	3.9	6.7 J	METAL
WTA	04/05/2012	60000	26	0.03 UJ	1.3 UJ	1.1	990	1 U	1 U	150000	1 U	5.1	20 U	DMETAL

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VOCs (µg/L)

Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
B120	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.6	0.5 U
B120	04/15/2011	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	0.5 J	1.3 U
B120	10/04/2011	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	8 U	2 U	2 U	0.6 J	2 U
B120	04/03/2012	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	0.6 J	1.3 U
B121	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B121	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B121	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B121	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B128	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B128	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B128	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B128	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B128	04/02/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B150	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B150	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B150	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B150	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B150	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B150	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B158	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B158	04/15/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B158	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B158	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U

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VOCs (µg/L)

Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
B163	09/02/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	8.5	0.5 U
B163	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	9	0.5 U
B163	10/03/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	7.1	0.5 U
B163	04/02/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	8.2	0.5 U
B175S	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B175S	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B175S	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B175S	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B175W	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B175W	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B175W	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B175W	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B177	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B177	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B177	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B177	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B178	09/02/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5	0.5 U
B178	04/15/2011	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	0.4 J	1.3 U
B178	10/04/2011	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	0.5 J	1.3 U
B178	04/03/2012	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.7 U	1.7 U	1.7 U	0.5 J	1.7 U
B180	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B180	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B180	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B180	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B180	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U

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VOCs (µg/L)

Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
B185	09/02/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	1.4	0.5 U
B185	04/15/2011	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	2.9 U	0.7 U	0.7 U	1	0.7 U
B185	04/15/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	1.3	0.5 U
B185	10/03/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	1.6	0.5 U
B185	10/03/2011	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.3 J	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	2.9 U	0.7 U	0.7 U	1.1	0.7 U
B185	04/02/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	1.1	0.5 U
B194	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B194	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B194	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B194	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B195	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	1	0.5 U
B195	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.3 J	0.5 U
B195	04/13/2011	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	2.9 U	0.7 U	0.7 U	0.2 J	0.7 U
B195	10/04/2011	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	0.7 J	1.3 U
B195	04/03/2012	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.6 J	1 U
B197	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5	0.5 U
B197	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5	0.5 U
B197	04/13/2011	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.7 U	1.7 U	1.7 U	1.7 U	1.7 U
B197	10/04/2011	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.7 U	1.7 U	1.7 U	0.4 J	1.7 U
B197	04/03/2012	1 U	1 U	1 U	1 U	1 U	0.3 J	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.7 J	1 U
B197	04/03/2012	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.7 J	1 U
B277	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B277	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B277	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B277	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCs (µg/L)															
Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
B278	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B278	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B278	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B278	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B280A	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B280A	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B280A	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B280A	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B280B	10/01/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B280B	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B280B	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B280B	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B300	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B300	04/15/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B300	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B300	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B38	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B38	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B38	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B38	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B38	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B450	04/19/2011	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B450	10/10/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B450	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

		VOCs (µg/L)															
Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
B460	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B460	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B460	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B460	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B473	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B473	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B473	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B473	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B474	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B474	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B474	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B474	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B480	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B480	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B480	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B480	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B490	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B490	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B490	10/10/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
B490	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
BULB1	10/19/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
BULB1	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
BULB1	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
BULB1	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
BULB2	10/19/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
BULB2	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
BULB2	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
BULB2	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC1	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC1	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC1	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC1	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC2	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC2	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC2	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC2	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC3	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC3	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC3	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC3	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC3	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC3	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CCCT	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.2 J	0.5 U
CCCT	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.2 J	0.5 U
CCCT	10/03/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.2 J	0.5 U
CCCT	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.2 J	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
CTP	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CTP	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CTP	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CTP	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CTP	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CTPS	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CTPS	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CTPS	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
CTPS	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
DH	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
DH	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
DH	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
DH	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EERC	10/01/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EERC	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EERC	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EERC	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EPA	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EPA	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EPA	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EPA	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EPA	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
ETA	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
ETA	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
ETA	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
ETA	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.2 J	0.5 U
ETA	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
ETA	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
EXT	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
FG	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
FG	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
FG	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
FG	10/10/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
FG	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
GEO	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
GEO	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
GEO	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
GEO	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
MFA	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
MFA	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
MFA	10/03/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
MFA	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
NRLF	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
NRLF	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
NRLF	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
NRLF	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
OBS6	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
PZ11	10/01/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ11	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ11	10/10/2011	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	2.4 J	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	13 U	3.1 U	3.1 U	3.1 U	3.1 U
PZ11	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ8	10/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ8	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ8	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ8	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ9	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ9	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ9	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ9	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ9	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
RWF	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
RWF	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
RWF	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
RWF	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
TP1	09/29/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
TP1	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
TP1	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
TP1	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
TP2	09/29/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
TP2	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
TP2	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
TP2	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
TP2	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
WTA	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5
WTA	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.4 J
WTA	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.4 J
WTA	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 J
WTA	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
B120	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B120	04/15/2011	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	25 U	1.3 U	25 U	25 U	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U
B120	10/04/2011	2 U	2 U	2 U	2 U	2 U	40 U	2 U	40 U	2 U	40 U	40 U	2 U	2 U	2 U	2 U	4 U
B120	04/03/2012	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	25 U	1.3 U	25 U	25 U	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U
B121	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B121	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B121	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B121	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B128	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	43	0.5 U	NA	0.5 U	NA	11 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B128	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	49	0.5 U	NA	0.5 U	NA	14 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B128	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B128	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B128	04/02/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B150	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B150	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B150	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B150	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B150	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B150	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B158	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B158	04/15/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B158	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B158	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B163	09/02/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	4 U	0.5 U	NA	0.5 U	NA	2.7 UJ	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U
B163	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.3 J	0.5 U	0.5 U	0.5 U	1 U
B163	10/03/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.3 J	0.5 U	0.5 U	0.5 U	1 U
B163	04/02/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.4 J	0.5 U	0.5 U	0.5 U	1 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
B175S	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	4 U	0.5 U	NA	0.5 U	NA	2.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B175S	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B175S	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B175S	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B175W	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B175W	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B175W	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B175W	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B177	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B177	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B177	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B177	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B178	09/02/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B178	04/15/2011	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	25 U	1.3 U	25 U	25 U	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U
B178	10/04/2011	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	25 U	1.3 U	25 U	25 U	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U
B178	04/03/2012	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	33 U	1.7 U	33 U	1.7 U	33 U	33 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U
B180	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B180	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B180	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B180	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B180	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B185	09/02/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B185	04/15/2011	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	14 U	0.7 U	14 U	0.7 U	14 U	14 U	0.7 U	0.7 U	0.7 U	0.7 U	1.4 U
B185	04/15/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.1 J	0.5 U	0.5 U	0.5 U	1 U
B185	10/03/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.1 J	0.5 U	0.5 U	0.5 U	1 U
B185	10/03/2011	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	14 U	0.7 U	14 U	0.7 U	14 U	14 U	0.7 U	0.7 U	0.7 U	0.7 U	1.4 U
B185	04/02/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.1 J	0.5 U	0.5 U	0.5 U	1 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

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University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
B194	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.1 J	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B194	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B194	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B194	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B195	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B195	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B195	04/13/2011	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	14 U	0.7 U	14 U	0.7 U	14 U	14 U	0.7 U	0.7 U	0.7 U	0.7 U	1.4 U
B195	10/04/2011	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	25 U	1.3 U	25 U	25 U	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U
B195	04/03/2012	1 U	1 U	1 U	1 U	1 U	20 U	1 U	20 U	1 U	20 U	20 U	1 U	1 U	1 U	1 U	2 U
B197	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B197	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B197	04/13/2011	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	33 U	1.7 U	33 U	1.7 U	33 U	33 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U
B197	10/04/2011	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	33 U	1.7 U	33 U	1.7 U	33 U	33 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U
B197	04/03/2012	1 U	1 U	1 U	1 U	1 U	20 U	1 U	20 U	1 U	20 U	20 U	1 U	1 U	1 U	1 U	2 U
B197	04/03/2012	1 U	1 U	1 U	1 U	1 U	20 U	1 U	20 U	1 U	20 U	20 U	1 U	1 U	1 U	1 U	2 U
B277	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B277	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B277	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B277	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B278	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	12	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B278	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B278	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B278	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B280A	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B280A	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B280A	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B280A	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U

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VOCs (µg/L)

Location ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
B280B	10/01/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B280B	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B280B	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B280B	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B300	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B300	04/15/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B300	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	1.5 J	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B300	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B38	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B38	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B38	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B38	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B38	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B450	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B450	10/10/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B450	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B460	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	27	0.5 U	NA	0.5 U	NA	22	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B460	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B460	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B460	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B473	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B473	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B473	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B473	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
B474	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	180	0.5 U	NA	0.5 U	NA	40 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B474	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B474	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B474	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B480	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	3.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B480	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B480	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B480	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B490	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
B490	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B490	10/10/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
B490	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
BULB1	10/19/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	2.3 J	2.3	0.5 U	0.5 U	0.5 U	0.5 U
BULB1	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
BULB1	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
BULB1	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
BULB2	10/19/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	3.3 J	4.1	0.5 U	0.5 U	0.5 U	0.5 U
BULB2	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
BULB2	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
BULB2	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCC1	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	2.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC1	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCC1	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCC1	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
CCC2	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC2	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCC2	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCC2	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCC3	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	30	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC3	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	32	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CCC3	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCC3	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCC3	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCC3	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCCT	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	3.2 J	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CCCT	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCCT	10/03/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CCCT	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CTP	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	35 J	0.5 U	NA	0.5 U	NA	7 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CTP	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	17 J	0.5 U	NA	0.5 U	NA	4.4 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CTP	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CTP	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CTP	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CTPS	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CTPS	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CTPS	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
CTPS	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
DH	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	2.4 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DH	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
DH	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
DH	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	15 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
EERC	10/01/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
EERC	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
EERC	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
EERC	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
EPA	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
EPA	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
EPA	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
EPA	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
EPA	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
ETA	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETA	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETA	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
ETA	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
ETA	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
ETA	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
EXT	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
FG	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	2.7 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
FG	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
FG	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
FG	10/10/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
FG	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
GEO	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
GEO	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
GEO	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
GEO	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
MFA	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MFA	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
MFA	10/03/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
MFA	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
NRLF	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	200	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
NRLF	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
NRLF	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
NRLF	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
OBS6	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PZ11	10/01/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ11	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PZ11	10/10/2011	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	63 U	3.1 U	63 U	3.1 U	63 U	63 U	3.1 U	3.1 U	3.1 U	3.1 U	6.3 U
PZ11	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PZ8	10/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ8	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PZ8	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PZ8	04/03/2012	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PZ9	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PZ9	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PZ9	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PZ9	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PZ9	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
RWF	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RWF	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
RWF	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
RWF	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform
TP1	09/29/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TP1	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
TP1	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
TP1	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
TP2	09/29/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	4 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TP2	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
TP2	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1 U
TP2	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
TP2	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
WTA	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4 U	0.5 U	NA	0.5 U	NA	2 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
WTA	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
WTA	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
WTA	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
WTA	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	10 U	0.5 U	10 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

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University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Bromomethane	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethyl tert-butyl ether	Ethylbenzene	Freon 113	Freon 12
B120	09/09/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.1	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B120	04/15/2011	2.5 U	1.3 U	1.3 U	1.3 U	2.5 U	0.3 J	2.5 U	3.6	1.3 U	1.3 U	1.3 U	NA	1.3 U	1.3 U	5 U	2.5 U
B120	10/04/2011	4 U	2 U	2 U	2 U	4 U	2 U	4 U	3.5	2 U	2 U	2 U	NA	2 U	2 U	8 U	4 U
B120	04/03/2012	2.5 U	1.3 U	1.3 U	1.3 U	2.5 U	1.3 U	2.5 U	3	1.3 U	1.3 U	1.3 U	NA	1.3 U	1.3 U	5 U	2.5 U
B121	09/08/2010	0.5 U	NA	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B121	04/13/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B121	10/04/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B121	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.1 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B128	09/23/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B128	09/23/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B128	04/18/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B128	10/04/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B128	04/02/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B150	09/08/2010	0.5 U	NA	0.5 U	0.5 U	0.5 UJ	1.4	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B150	04/13/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B150	10/05/2011	1 UJ	0.5 U	0.5 U	0.5 U	1 U	0.6	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B150	10/05/2011	1 UJ	0.5 U	0.5 U	0.5 U	1 U	0.5 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B150	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B150	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B158	09/08/2010	0.5 U	NA	0.5 U	0.5 U	0.5 UJ	4	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B158	04/15/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	1.6	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B158	10/05/2011	1 UJ	0.5 U	0.5 U	0.5 U	1 U	2	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B158	04/06/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	1.6 UJ	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B163	09/02/2010	0.5 U	NA	0.5 U	6.5	0.5 U	2.1	0.5 U	3	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B163	04/12/2011	1 U	0.5 U	0.5 U	8.4	1 U	2.3	1 U	3.2	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B163	10/03/2011	1 U	0.5 U	0.5 U	7.6	1 U	2.4	1 U	3.6	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B163	04/02/2012	1 U	0.5 U	0.5 U	7.5	1 U	2.3	1 U	3	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ

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VOCs (µg/L)

Location ID	Sample Date	Bromomethane	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethyl tert-butyl ether	Ethylbenzene	Freon 113	Freon 12
B175S	09/03/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B175S	04/13/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B175S	10/04/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.2 J	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B175S	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B175W	09/08/2010	0.5 U	NA	0.5 U	0.5 U	0.5 UJ	0.4 J	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B175W	04/13/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.2 J	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B175W	10/04/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.2 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B175W	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.3 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B177	09/23/2010	0.5 UJ	NA	0.5 U	0.5 U	0.5 U	9.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 UJ	NA
B177	04/18/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	2.7	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B177	10/05/2011	1 UJ	0.5 U	0.5 U	0.5 U	1 U	6.5	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B177	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.9	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B178	09/02/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	2.5	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B178	04/15/2011	2.5 U	1.3 U	1.3 U	1.3 U	2.5 U	0.4 J	2.5 U	2.7	1.3 U	1.3 U	1.3 U	NA	1.3 U	1.3 U	5 U	2.5 U
B178	10/04/2011	2.5 U	1.3 U	1.3 U	1.3 U	2.5 U	1.3 U	2.5 U	3.2	1.3 U	1.3 U	1.3 U	NA	1.3 U	1.3 U	5 U	2.5 U
B178	04/03/2012	3.3 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U	3.3 U	2.3	1.7 U	1.7 U	1.7 U	NA	1.7 U	1.7 U	6.7 U	3.3 U
B180	09/15/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	1.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B180	04/13/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.3 J	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B180	10/06/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.4 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B180	10/06/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.4 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B180	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.1 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B185	09/02/2010	0.5 U	NA	4.3	1.2	0.5 U	1.3	0.5 U	1	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B185	04/15/2011	1.4 U	0.7 U	3.5	1	1.4 U	0.8	1.4 U	1	0.7 U	0.7 U	0.7 U	NA	0.7 U	0.7 U	2.9 U	1.4 U
B185	04/15/2011	1 U	0.5 U	4.7	1.1	1 U	1.2	1 U	1.5	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B185	10/03/2011	1 U	0.5 U	5.6	1.6	1 U	1.4	1 U	1.4	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B185	10/03/2011	1.4 U	0.7 U	4.1	1.1	1.4 U	1	1.4 U	1.3	0.7 U	0.7 U	0.7 U	NA	0.7 U	0.7 U	2.9 U	1.4 U
B185	04/02/2012	1 U	0.5 U	4.8	1.2	1 U	0.9	1 U	1.1	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ

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VOCs (µg/L)

Location ID	Sample Date	Bromomethane	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethyl tert-butyl ether	Ethylbenzene	Freon 113	Freon 12
B194	09/09/2010	0.5 U	NA	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B194	04/13/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B194	10/04/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B194	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B195	09/09/2010	0.5 U	NA	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	3.7	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B195	04/13/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	1.4	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B195	04/13/2011	1.4 U	0.7 U	0.7 U	0.7 U	1.4 U	0.7 U	1.4 UJ	1	0.7 U	0.7 U	0.7 U	NA	0.7 U	0.7 U	2.9 U	1.4 U
B195	10/04/2011	2.5 U	1.3 UJ	1.3 U	0.9 J	2.5 U	1.3 U	2.5 UJ	4.1	1.3 U	1.3 U	1.3 U	NA	1.3 U	1.3 U	5 U	2.5 U
B195	04/03/2012	2 U	1 U	1 U	0.9 J	2 U	1 U	2 U	1.7	1 U	1 U	1 U	NA	1 U	1 U	4 U	2 U
B197	09/09/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.8	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B197	09/09/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.9	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B197	04/13/2011	3.3 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U	3.3 UJ	2.2	1.7 U	1.7 U	1.7 U	NA	1.7 U	1.7 U	6.7 U	3.3 U
B197	10/04/2011	3.3 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U	3.3 U	3.6	1.7 U	1.7 U	1.7 U	NA	1.7 U	1.7 U	6.7 U	3.3 U
B197	04/03/2012	2 U	1 U	1 U	1 U	2 U	1 U	2 U	2.3	1 U	1 U	1 U	NA	1 U	1 U	4 U	2 U
B197	04/03/2012	2 U	1 U	1 U	1 U	2 U	1 U	2 U	2.5	1 U	1 U	1 U	NA	1 U	1 U	4 U	2 U
B277	09/15/2010	0.5 U	NA	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B277	04/18/2011	1 U	0.5 U	1	0.5 U	1 U	0.3 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B277	10/05/2011	1 UJ	0.5 U	0.8	0.5 U	1 U	0.3 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B277	04/03/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B278	09/16/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	1.7	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B278	04/19/2011	1 U	0.5 U	0.3 J	0.5 U	1 U	2.1	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B278	10/05/2011	1 UJ	0.5 U	0.1 J	0.5 U	1 U	0.9	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B278	04/05/2012	1 U	0.5 U	0.2 J	0.5 U	1 U	1	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B280A	09/16/2010	0.5 U	NA	0.9	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B280A	04/14/2011	1 U	0.5 U	1.1	0.5 U	1 U	0.2 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B280A	10/06/2011	1 U	0.5 U	1.4	0.5 U	1 U	0.1 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B280A	04/03/2012	1 U	0.5 U	0.9	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Bromomethane	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethyl tert-butyl ether	Ethylbenzene	Freon 113	Freon 12
B280B	10/01/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B280B	04/14/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.1 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B280B	10/06/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B280B	04/03/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B300	09/09/2010	0.5 U	NA	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B300	04/15/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B300	10/06/2011	0.3 J	0.5 U	0.5 U	0.5 U	1 U	0.5 U	5.1	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B300	04/09/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B38	09/15/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B38	04/19/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B38	04/19/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.1 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B38	10/06/2011	0.4 J	0.5 U	0.5 U	0.5 U	1 U	0.5 U	3.1	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B38	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B450	04/19/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.2 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B450	10/10/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.2 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B450	04/06/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 UJ	1 U	0.3 J	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B460	09/15/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B460	04/20/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B460	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B460	04/06/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
B473	09/24/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B473	04/20/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B473	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B473	04/06/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ

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VOCs (µg/L)

Location ID	Sample Date	Bromomethane	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethyl tert-butyl ether	Ethylbenzene	Freon 113	Freon 12
B474	09/23/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B474	04/20/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B474	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B474	04/09/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B480	09/24/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
B480	04/19/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B480	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.9	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B480	04/09/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B490	09/16/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
B490	04/20/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B490	10/10/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
B490	04/09/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
BULB1	10/19/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
BULB1	04/12/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
BULB1	09/30/2011	1 U	0.6	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
BULB1	04/05/2012	1 U	0.4 J	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
BULB2	10/19/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
BULB2	04/12/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
BULB2	09/30/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.4 J	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
BULB2	04/05/2012	1 U	0.5 U	0.5 U	0.3 J	1 U	0.5 U	1 U	0.3 J	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.1 J	2 U	1 U
CCC1	09/08/2010	0.5 U	NA	0.5 U	0.5 U	0.5 UJ	1.2	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
CCC1	04/14/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.4 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCC1	10/05/2011	1 UJ	0.5 U	0.5 U	0.5 U	1 U	0.2 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
CCC1	04/10/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.1 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U

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VOCs (µg/L)

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CCC2	09/08/2010	0.5 U	NA	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
CCC2	04/14/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCC2	10/04/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.1 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCC2	04/10/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCC3	09/03/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
CCC3	09/03/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
CCC3	04/12/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCC3	10/04/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCC3	10/04/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCC3	04/10/2012	1 U	0.5 J	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCCT	09/03/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
CCCT	04/18/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	1.1	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCCT	10/03/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	1.3	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CCCT	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	1.4	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CTP	09/30/2010	0.5 U	NA	19	0.5 U	0.5 U	8.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
CTP	09/30/2010	0.5 U	NA	20	0.5 U	0.5 U	8.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
CTP	04/14/2011	1 U	0.5 U	16	0.5 U	1 U	5.5	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CTP	10/06/2011	1 U	0.5 U	25	0.5 U	1 U	7.6	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CTP	04/03/2012	1 U	0.5 U	14	0.5 U	1 U	6.6	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CTPS	09/30/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	6.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
CTPS	04/19/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CTPS	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
CTPS	04/05/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
DH	09/30/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
DH	04/14/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
DH	10/05/2011	1 UJ	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
DH	04/05/2012	1 U	24	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U

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EERC	10/01/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
EERC	04/20/2011	1 UJ	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
EERC	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
EERC	04/06/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
EPA	09/16/2010	0.5 U	NA	1.8	0.5 U	0.5 U	2.3	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
EPA	04/19/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.2 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
EPA	10/06/2011	1 U	0.5 U	0.5 U	0.1 J	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
EPA	04/06/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
EPA	04/06/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
ETA	09/24/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
ETA	09/24/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
ETA	04/12/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.7	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
ETA	09/30/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	1.7	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
ETA	04/10/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	2.1	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
ETA	04/10/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	2	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
EXT	09/30/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
FG	09/23/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
FG	04/19/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
FG	04/19/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
FG	10/10/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
FG	04/09/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
GEO	09/03/2010	0.5 U	NA	1.1	0.5 U	0.5 U	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
GEO	04/20/2011	1 U	0.5 U	1.2	0.5 U	1 U	0.7	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
GEO	10/06/2011	1 U	0.5 U	1	0.5 U	1 U	0.5	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
GEO	04/06/2012	1 U	0.5 U	0.9	0.5 U	1 U	0.8 UJ	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Bromomethane	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethyl tert-butyl ether	Ethylbenzene	Freon 113	Freon 12
MFA	09/24/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
MFA	04/12/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
MFA	10/03/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	1.7	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
MFA	04/05/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	1	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
NRLF	09/16/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
NRLF	04/20/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
NRLF	10/06/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
NRLF	04/09/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
OBS6	09/30/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
PZ11	10/01/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
PZ11	04/20/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
PZ11	10/10/2011	6.3 U	3.1 U	3.1 U	3.1 U	6.3 U	3.1 U	6.3 U	87	3.1 U	3.1 U	3.1 U	NA	3.1 U	3.1 U	13 U	6.3 U
PZ11	04/05/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.3 J	1 U	0.3 J	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
PZ8	10/15/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
PZ8	04/18/2011	0.1 J	0.5 U	0.5 U	0.5 U	1 U	0.4 J	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
PZ8	10/04/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.9	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
PZ8	04/03/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	1.4	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
PZ9	09/24/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
PZ9	04/20/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.3 J	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
PZ9	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.6	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
PZ9	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.7	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
PZ9	04/06/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	1.2	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
RWF	09/15/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
RWF	04/18/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
RWF	10/06/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
RWF	04/04/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U

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VOCs (µg/L)

Location ID	Sample Date	Bromomethane	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethyl tert-butyl ether	Ethylbenzene	Freon 113	Freon 12
TP1	09/29/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
TP1	04/18/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
TP1	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.2 J	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
TP1	04/05/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
TP2	09/29/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	NA	0.5 U	0.5 U	NA
TP2	04/18/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
TP2	10/07/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 UJ	0.2 J	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
TP2	04/09/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
TP2	04/09/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
WTA	09/30/2010	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA
WTA	04/14/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
WTA	04/14/2011	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U
WTA	10/05/2011	1 UJ	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 UJ
WTA	04/05/2012	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	2 U	1 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	M, P-Xylene	Methyl Tert-Butyl Ether	Methylene Chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	O-Xylene	P-isopropyltoluene	Sec-Butylbenzene	Styrene	Tert Butyl Alcohol	Tert-amyl methyl ether	Tert-Butylbenzene
B120	09/09/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B120	04/15/2011	5 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	1.3 U
B120	10/04/2011	8 U	2 U	2 U	2 U	2 U	40 U	2 U	2 U	8 U	2 U	2 U	2 U	2 U	40 U	2 U	2 U
B120	04/03/2012	5 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	1.3 U
B121	09/08/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B121	04/13/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B121	10/04/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B121	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B128	09/23/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B128	09/23/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B128	04/18/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B128	10/04/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B128	04/02/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B150	09/08/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B150	04/13/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B150	10/05/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B150	10/05/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B150	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B150	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B158	09/08/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B158	04/15/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B158	10/05/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B158	04/06/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B163	09/02/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B163	04/12/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B163	10/03/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B163	04/02/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U

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VOCs (µg/L)

Location ID	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	M,P-Xylene	Methyl Tert-Butyl Ether	Methylene Chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	O-Xylene	P-isopropyltoluene	Sec-Butylbenzene	Styrene	Tert Butyl Alcohol	Tert-amyl methyl ether	Tert-Butylbenzene
B175S	09/03/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B175S	04/13/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B175S	10/04/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B175S	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B175W	09/08/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B175W	04/13/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B175W	10/04/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B175W	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B177	09/23/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B177	04/18/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B177	10/05/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B177	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B178	09/02/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B178	04/15/2011	5 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	1.3 U
B178	10/04/2011	5 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	1.3 U
B178	04/03/2012	6.7 U	1.7 U	1.7 U	1.7 U	1.7 U	33 U	1.7 U	1.7 U	6.7 U	1.7 U	1.7 U	1.7 U	1.7 U	33 U	1.7 U	1.7 U
B180	09/15/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B180	04/13/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B180	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B180	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B180	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B185	09/02/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B185	04/15/2011	2.9 U	0.7 U	0.7 U	0.7 U	0.2 J	14 U	0.7 U	0.7 U	2.9 U	0.7 U	0.7 U	0.7 U	0.7 U	14 U	0.7 U	0.7 U
B185	04/15/2011	2 U	0.5 U	0.5 U	0.5 U	0.3 J	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B185	10/03/2011	2 U	0.5 U	0.5 U	0.5 U	0.2 J	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B185	10/03/2011	2.9 U	0.7 U	0.7 U	0.7 U	0.2 J	14 U	0.7 U	0.7 U	2.9 U	0.7 U	0.7 U	0.7 U	0.7 U	14 U	0.7 U	0.7 U
B185	04/02/2012	2 U	0.5 U	0.5 U	0.5 U	0.2 J	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	M,P-Xylene	Methyl Tert-Butyl Ether	Methylene Chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	O-Xylene	P-Isopropyltoluene	Sec-Butylbenzene	Styrene	Tert Butyl Alcohol	Tert-amyl methyl ether	Tert-Butylbenzene
B194	09/09/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B194	04/13/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B194	10/04/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B194	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B195	09/09/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B195	04/13/2011	2 UJ	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B195	04/13/2011	2.9 U	0.7 U	0.7 U	0.7 U	0.7 U	14 U	0.7 U	0.7 U	2.9 U	0.7 U	0.7 U	0.7 U	0.7 U	14 U	0.7 U	0.7 U
B195	10/04/2011	5 U	1.3 U	1.3 U	0.4 J	1.3 U	25 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	25 U	1.3 U	1.3 U
B195	04/03/2012	4 U	1 U	1 U	1 U	1 U	20 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	20 U	1 U	1 U
B197	09/09/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B197	09/09/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B197	04/13/2011	6.7 U	1.7 U	1.7 U	1.7 U	1.7 U	33 U	1.7 U	1.7 U	6.7 U	1.7 U	1.7 U	1.7 U	1.7 U	33 U	1.7 U	1.7 U
B197	10/04/2011	6.7 U	1.7 U	1.7 U	1.7 U	1.7 U	33 U	1.7 U	1.7 U	6.7 U	1.7 U	1.7 U	1.7 U	1.7 U	33 U	1.7 U	1.7 U
B197	04/03/2012	4 U	1 U	1 U	1 U	1 U	20 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	20 U	1 U	1 U
B197	04/03/2012	4 U	1 U	1 U	1 U	1 U	20 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U	20 U	1 U	1 U
B277	09/15/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B277	04/18/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B277	10/05/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B277	04/03/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B278	09/16/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B278	04/19/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B278	10/05/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B278	04/05/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B280A	09/16/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B280A	04/14/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B280A	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B280A	04/03/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	M, P-Xylene	Methyl Tert-Butyl Ether	Methylene Chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	O-Xylene	P-isopropyltoluene	Sec-Butylbenzene	Styrene	Tert Butyl Alcohol	Tert-amyl methyl ether	Tert-Butylbenzene
B280B	10/01/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B280B	04/14/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B280B	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B280B	04/03/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B300	09/09/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B300	04/15/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.2 J	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B300	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	1.6 J	0.5 U	3.5	0.5 U	0.5 U	10 U	0.5 U	0.1 J
B300	04/09/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.2 J	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B38	09/15/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B38	04/19/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B38	04/19/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B38	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.2 J	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B38	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B450	04/19/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B450	10/10/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B450	04/06/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B460	09/15/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B460	04/20/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B460	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B460	04/06/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B473	09/24/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B473	04/20/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B473	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B473	04/06/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	M, P-Xylene	Methyl Tert-Butyl Ether	Methylene Chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	O-Xylene	P-isopropyltoluene	Sec-Butylbenzene	Styrene	Tert Butyl Alcohol	Tert-amyl methyl ether	Tert-Butylbenzene
B474	09/23/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B474	04/20/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B474	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B474	04/09/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B480	09/24/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B480	04/19/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B480	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B480	04/09/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B490	09/16/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
B490	04/20/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B490	10/10/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
B490	04/09/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
BULB1	10/19/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
BULB1	04/12/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
BULB1	09/30/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
BULB1	04/05/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
BULB2	10/19/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
BULB2	04/12/2011	2 U	0.5 U	0.5 U	0.5 U	0.9	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
BULB2	09/30/2011	2 U	0.5 U	0.5 U	0.5 U	0.9	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
BULB2	04/05/2012	2 U	0.5 U	0.3 J	0.2 J	0.6	10 U	0.5 U	0.5 U	2 UJ	0.3 J	0.5 U	0.1 J	0.5 U	10 U	0.5 U	0.5 U
CCC1	09/08/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
CCC1	04/14/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCC1	10/05/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCC1	04/10/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	M,P-Xylene	Methyl Tert-Butyl Ether	Methylene Chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	O-Xylene	P-Isopropyltoluene	Sec-Butylbenzene	Styrene	Tert Butyl Alcohol	Tert-amyl methyl ether	Tert-Butylbenzene
CCC2	09/08/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
CCC2	04/14/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCC2	10/04/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCC2	04/10/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCC3	09/03/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
CCC3	09/03/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
CCC3	04/12/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCC3	10/04/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCC3	10/04/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCC3	04/10/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCCT	09/03/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
CCCT	04/18/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCCT	10/03/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CCCT	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CTP	09/30/2010	0.5 U	NA	0.5 U	1 U	2 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
CTP	09/30/2010	0.5 U	NA	0.5 U	1 U	2 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
CTP	04/14/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CTP	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CTP	04/03/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CTPS	09/30/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
CTPS	04/19/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CTPS	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
CTPS	04/05/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
DH	09/30/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
DH	04/14/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
DH	10/05/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
DH	04/05/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.1 J	0.5 U	0.5 U	10 U	0.5 U	0.5 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	M, P-Xylene	Methyl Tert-Butyl Ether	Methylene Chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	O-Xylene	P-isopropyltoluene	Sec-Butylbenzene	Styrene	Tert Butyl Alcohol	Tert-amyl methyl ether	Tert-Butylbenzene
EERC	10/01/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
EERC	04/20/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
EERC	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
EERC	04/06/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
EPA	09/16/2010	0.5 U	NA	0.5 U	1 U	2 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
EPA	04/19/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
EPA	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
EPA	04/06/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
EPA	04/06/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
ETA	09/24/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
ETA	09/24/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
ETA	04/12/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
ETA	09/30/2011	2 U	0.5 U	0.5 U	0.5 U	0.1 J	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
ETA	04/10/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
ETA	04/10/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
EXT	09/30/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
FG	09/23/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
FG	04/19/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
FG	04/19/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
FG	10/10/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
FG	04/09/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
GEO	09/03/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
GEO	04/20/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
GEO	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
GEO	04/06/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	M,P-Xylene	Methyl Tert-Butyl Ether	Methylene Chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	O-Xylene	P-isopropyltoluene	Sec-Butylbenzene	Styrene	Tert Butyl Alcohol	Tert-amyl methyl ether	Tert-Butylbenzene
MFA	09/24/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
MFA	04/12/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
MFA	10/03/2011	2 U	0.5 U	0.5 U	0.5 U	0.1 J	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
MFA	04/05/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
NRLF	09/16/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
NRLF	04/20/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
NRLF	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
NRLF	04/09/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
OBS6	09/30/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
PZ11	10/01/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
PZ11	04/20/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
PZ11	10/10/2011	13 U	3.1 U	3.1 U	3.1 U	3.1 U	63 U	3.1 U	3.1 U	13 U	3.1 U	3.1 U	3.1 U	3.1 U	63 U	3.1 U	3.1 U
PZ11	04/05/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
PZ8	10/15/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
PZ8	04/18/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
PZ8	10/04/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
PZ8	04/03/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
PZ9	09/24/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
PZ9	04/20/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
PZ9	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
PZ9	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
PZ9	04/06/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
RWF	09/15/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
RWF	04/18/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
RWF	10/06/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
RWF	04/04/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

VOCs (µg/L)

Location ID	Sample Date	Hexachlorobutadiene	Isopropyl ether	Isopropylbenzene	M, P-Xylene	Methyl Tert-Butyl Ether	Methylene Chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	O-Xylene	P-Isopropyltoluene	Sec-Butylbenzene	Styrene	Tert Butyl Alcohol	Tert-amyl methyl ether	Tert-Butylbenzene
TP1	09/29/2010	0.5 U	NA	0.5 U	1 U	2 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
TP1	04/18/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
TP1	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
TP1	04/05/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
TP2	09/29/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
TP2	04/18/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
TP2	10/07/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
TP2	04/09/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
TP2	04/09/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
WTA	09/30/2010	0.5 U	NA	0.5 U	1 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.5 U
WTA	04/14/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
WTA	04/14/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
WTA	10/05/2011	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U
WTA	04/05/2012	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U

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VOCs (µg/L)

Location ID	Sample Date	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
B120	09/09/2010	0.4 J	0.5 U	0.5 U	0.5 U	210	0.5 U	NA	0.5 U
B120	04/15/2011	1.3 U	1.3 U	1.3 U	1.3 U	170	2.5 U	25 U	1.3 U
B120	10/04/2011	0.4 J	2 U	0.4 J	2 U	180	4 U	40 U	2 U
B120	04/03/2012	0.7 J	1.3 U	1.3 U	1.3 U	190	2.5 U	25 U	1.3 U
B121	09/08/2010	0.3 J	0.5 U	0.5 U	0.5 U	0.8	0.5 U	NA	0.5 UJ
B121	04/13/2011	0.4 J	0.5 U	0.5 U	0.5 U	1.1	1 U	10 U	0.5 U
B121	10/04/2011	0.3 J	0.5 U	0.5 U	0.5 U	1.8	1 U	10 U	0.5 U
B121	04/04/2012	0.3 J	0.5 U	0.5 U	0.5 U	2	1 U	10 U	0.5 U
B128	09/23/2010	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B128	09/23/2010	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B128	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B128	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B128	04/02/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B150	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 UJ
B150	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B150	10/05/2011	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B150	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B150	04/04/2012	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B150	04/04/2012	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B158	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 UJ
B158	04/15/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B158	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B158	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B163	09/02/2010	8.4	0.5 U	0.3 J	0.5 U	100	0.5 U	NA	0.7
B163	04/12/2011	9.5	0.5 U	0.4 J	0.5 U	77 J	1 U	10 UJ	1.2
B163	10/03/2011	12	0.5 U	0.4 J	0.5 U	70	1 U	10 U	0.8
B163	04/02/2012	11	0.5 U	0.4 J	0.5 U	78	1 U	10 UJ	0.9

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VOCs (µg/L)

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B175S	09/03/2010	0.2 J	0.5 U	0.5 U	0.5 U	7.9	0.5 U	NA	0.5 U
B175S	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	5.3	1 U	10 U	0.5 U
B175S	10/04/2011	0.1 J	0.5 U	0.5 U	0.5 U	8.6	1 U	10 U	0.5 U
B175S	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	2.6	1 U	10 U	0.5 U
B175W	09/08/2010	1.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 UJ
B175W	04/13/2011	1.7	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B175W	10/04/2011	1.6	0.5 U	0.5 U	0.5 U	0.1 J	1 U	10 U	0.5 U
B175W	04/04/2012	2.7	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B177	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B177	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B177	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B177	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B178	09/02/2010	0.2 J	0.5 U	0.4 J	0.5 U	360	0.5 U	NA	0.5 U
B178	04/15/2011	0.3 J	1.3 U	1.3 U	1.3 U	160	2.5 U	25 U	1.3 U
B178	10/04/2011	0.3 J	1.3 U	0.5 J	1.3 U	170	2.5 U	25 U	1.3 U
B178	04/03/2012	1.7 U	1.7 U	1.7 U	1.7 U	170	3.3 U	33 U	1.7 U
B180	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B180	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B180	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B180	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B180	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B185	09/02/2010	0.4 J	0.5 U	0.5 U	0.5 U	150	0.5 U	NA	0.2 J
B185	04/15/2011	0.3 J	0.7 U	0.7 U	0.7 U	77	1.4 U	14 UJ	0.2 J
B185	04/15/2011	0.3 J	0.5 U	0.2 J	0.5 U	93	1 U	10 U	0.1 J
B185	10/03/2011	0.4 J	0.5 U	0.2 J	0.5 U	94	1 U	10 U	0.3 J
B185	10/03/2011	0.4 J	0.7 U	0.2 J	0.7 U	77	1.4 U	14 U	0.7 U
B185	04/02/2012	0.4 J	0.5 U	0.5 U	0.5 U	95	1 U	10 UJ	0.2 J

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VOCs (µg/L)

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B194	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	2	0.5 U	NA	0.5 UJ
B194	04/13/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B194	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B194	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B195	09/09/2010	3.1	0.5 U	0.4 J	0.5 U	140	0.5 U	NA	0.5 UJ
B195	04/13/2011	2.2	0.5 U	0.2 J	0.5 U	68	1 U	10 UJ	0.5 U
B195	04/13/2011	1.7	0.7 U	0.7 U	0.7 U	65	1.4 U	14 U	0.7 U
B195	10/04/2011	3	1.1 J	0.5 J	1.3 U	170 J	2.5 U	25 U	1.3 U
B195	04/03/2012	2.8	1 U	0.3 J	1 U	120	2 U	20 U	1 U
B197	09/09/2010	1	0.5 U	0.4 J	0.5 U	200	0.5 U	NA	0.5 U
B197	09/09/2010	1	0.5 U	0.4 J	0.5 U	170	0.5 U	NA	0.5 U
B197	04/13/2011	1.7 U	1.7 U	1.7 U	1.7 U	150	3.3 U	33 U	1.7 U
B197	10/04/2011	1.1 J	1.7 U	0.4 J	1.7 U	170	3.3 U	33 U	1.7 U
B197	04/03/2012	1.1	1 U	0.3 J	1 U	160	2 U	20 U	1 U
B197	04/03/2012	0.9 J	1 U	0.3 J	1 U	170	2 U	20 U	1 U
B277	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B277	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B277	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B277	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B278	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	13 J	0.5 U	NA	0.5 U
B278	04/19/2011	0.1 J	0.5 U	0.5 U	0.5 U	15	1 U	10 UJ	0.5 U
B278	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	11	1 U	10 UJ	0.5 U
B278	04/05/2012	0.1 J	0.5 U	0.5 U	0.5 U	11	1 U	10 U	0.5 U
B280A	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B280A	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B280A	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B280A	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U

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B280B	10/01/2010	0.5 U	0.5 U	0.5 U	0.5 UJ	1.8	0.5 U	NA	0.5 U
B280B	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B280B	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B280B	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B300	09/09/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.5 U	NA	0.5 UJ
B300	04/15/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B300	10/06/2011	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B300	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B38	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B38	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B38	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B38	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B38	04/04/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B450	04/19/2011	0.2 J	0.5 U	0.5 U	0.5 U	5	1 U	10 UJ	0.5 U
B450	10/10/2011	0.1 J	0.5 U	0.5 U	0.5 U	6.7	1 U	10 U	0.5 U
B450	04/06/2012	0.4 J	0.5 U	0.5 U	0.5 U	26	1 U	10 U	0.5 U
B460	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B460	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B460	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B460	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B473	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	12	0.5 U	NA	0.5 U
B473	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	3.4	1 U	10 UJ	0.5 U
B473	10/07/2011	0.1 J	0.5 U	0.5 U	0.5 U	6.1	1 U	10 U	0.5 U
B473	04/06/2012	0.2 J	0.5 U	0.5 U	0.5 U	6	1 U	10 U	0.5 U

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B474	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B474	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	1 U	10 UJ	0.5 U
B474	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B474	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B480	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	10	0.5 U	NA	0.5 U
B480	04/19/2011	0.1 J	0.5 U	0.5 U	0.5 U	9.1	1 U	10 UJ	0.5 U
B480	10/07/2011	0.2 J	0.5 U	0.5 U	0.5 U	13	1 U	10 U	0.5 U
B480	04/09/2012	0.2 J	0.5 U	0.5 U	0.5 U	14	1 U	10 U	0.5 U
B490	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
B490	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
B490	10/10/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
B490	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
BULB1	10/19/2010	0.5 U	3.4	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
BULB1	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
BULB1	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
BULB1	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
BULB2	10/19/2010	0.5 U	6.8	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
BULB2	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	1 U	10 UJ	0.5 U
BULB2	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	1	1 U	10 U	0.5 U
BULB2	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	1 U	10 U	0.5 U
CCC1	09/08/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 UJ
CCC1	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
CCC1	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
CCC1	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U

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CCC2	09/08/2010	2.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 UJ
CCC2	04/14/2011	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
CCC2	10/04/2011	2.1	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
CCC2	04/10/2012	1.1	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
CCC3	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	6	0.5 U	NA	0.5 U
CCC3	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	6.2	0.5 U	NA	0.5 U
CCC3	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.7	1 U	10 UJ	0.5 U
CCC3	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	1.9	1 U	10 U	0.5 U
CCC3	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	1.9	1 U	10 U	0.5 U
CCC3	04/10/2012	0.5 U	0.5 U	0.5 U	0.5 U	1.3	1 U	10 U	0.5 U
CCCT	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	120	0.5 U	NA	0.5 U
CCCT	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	84	1 U	10 U	0.5 U
CCCT	10/03/2011	0.5 U	0.5 U	0.1 J	0.5 U	79	1 U	10 U	0.5 U
CCCT	04/04/2012	0.5 U	0.5 U	0.1 J	0.5 U	85	1 U	10 U	0.5 U
CTP	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	NA	0.5 U
CTP	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	NA	0.5 U
CTP	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1 U	10 U	0.5 U
CTP	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	1 U	10 U	0.5 U
CTP	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	1 U	10 U	0.5 U
CTPS	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	NA	0.5 U
CTPS	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
CTPS	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
CTPS	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
DH	09/30/2010	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	NA	0.5 U
DH	04/14/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
DH	10/05/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
DH	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U

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VOCs (µg/L)

Location ID	Sample Date	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
EERC	10/01/2010	0.3 J	0.5 U	0.5 U	0.5 U	6.8	0.5 U	NA	0.5 UJ
EERC	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
EERC	10/07/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
EERC	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
EPA	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.5 U	NA	0.5 U
EPA	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
EPA	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
EPA	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
EPA	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
ETA	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	12	0.5 U	NA	0.5 U
ETA	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	14	0.5 U	NA	0.5 U
ETA	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	7.3	1 U	10 UJ	0.5 U
ETA	09/30/2011	0.3 J	0.5 U	0.3 J	0.5 U	17	1 U	10 U	0.5 U
ETA	04/10/2012	0.5 U	0.5 U	1	0.5 U	9.2	1 U	10 U	0.5 U
ETA	04/10/2012	0.5 U	0.5 U	0.9	0.5 U	9.3	1 U	10 U	0.5 U
EXT	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
FG	09/23/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
FG	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
FG	04/19/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
FG	10/10/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1 U	10 U	0.5 U
FG	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
GEO	09/03/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	NA	0.5 U
GEO	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
GEO	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
GEO	04/06/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U

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VOCs (µg/L)

Location ID	Sample Date	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
MFA	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	5.7	0.5 U	NA	0.5 U
MFA	04/12/2011	0.5 U	0.5 U	0.5 U	0.5 U	3.1	1 U	10 UJ	0.5 U
MFA	10/03/2011	0.5 U	0.5 U	0.5 U	0.5 U	8.2	1 U	10 U	0.2 J
MFA	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	5.4	1 U	10 U	0.5 U
NRLF	09/16/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
NRLF	04/20/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 UJ	0.5 U
NRLF	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
NRLF	04/09/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
OBS6	09/30/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
PZ11	10/01/2010	67	0.5 U	2.4	0.5 UJ	690	0.5 U	NA	0.6
PZ11	04/20/2011	1.2	0.5 U	0.5 U	0.5 U	8.1	1 U	10 UJ	0.5 U
PZ11	10/10/2011	53	3.1 U	9.6	3.1 U	490	6.3 U	63 U	3.1 U
PZ11	04/05/2012	0.9	0.5 U	0.5 U	0.5 U	9.7	1 U	10 U	0.5 U
PZ8	10/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U
PZ8	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
PZ8	10/04/2011	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	10 U	0.5 U
PZ8	04/03/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	1 U	10 U	0.5 U
PZ9	09/24/2010	0.5 U	0.5 U	0.5 U	0.5 U	16	0.5 U	NA	0.5 U
PZ9	04/20/2011	0.2 J	0.5 U	0.5 U	0.5 U	11	1 U	10 UJ	0.5 U
PZ9	10/07/2011	0.3 J	0.5 U	0.5 U	0.5 U	28	1 U	10 U	0.5 U
PZ9	10/07/2011	0.4 J	0.5 U	0.5 U	0.5 U	27	1 U	10 U	0.5 U
PZ9	04/06/2012	0.6	0.5 U	0.5 U	0.5 U	65 J	1 U	10 UJ	0.5 U
RWF	09/15/2010	0.5 U	0.5 U	0.5 U	0.5 U	4.4	0.5 U	NA	0.5 U
RWF	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	2.8	1 U	10 U	0.5 U
RWF	10/06/2011	0.5 U	0.5 U	0.5 U	0.5 U	5	1 U	10 U	0.5 U
RWF	04/04/2012	0.1 J	0.5 U	0.5 U	0.5 U	2.8	1 U	10 U	0.5 U

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VOCs (µg/L)

Location ID	Sample Date	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
TP1	09/29/2010	0.5 U	0.5 U	0.5 UJ	0.5 U	13	0.5 U	NA	0.5 U
TP1	04/18/2011	0.5 U	0.5 U	0.5 U	0.5 U	1.8	1 U	10 U	0.5 U
TP1	10/07/2011	0.1 J	0.5 U	0.5 U	0.5 U	8.5	1 U	10 U	0.5 U
TP1	04/05/2012	0.5 U	0.5 U	0.5 U	0.5 U	3.8	1 U	10 U	0.5 U
TP2	09/29/2010	0.2 J	0.5 U	0.5 U	0.5 U	15	0.5 U	NA	0.5 U
TP2	04/18/2011	0.3 J	0.5 U	0.5 U	0.5 U	12	1 U	10 U	0.5 U
TP2	10/07/2011	0.3 J	0.5 U	0.5 U	0.5 U	14	1 U	10 U	0.5 U
TP2	04/09/2012	0.3 J	0.5 U	0.5 U	0.5 U	13	1 U	10 U	0.5 U
TP2	04/09/2012	0.2 J	0.5 U	0.5 U	0.5 U	12	1 U	10 U	0.5 U
WTA	09/30/2010	3.2	0.5 U	0.5 U	0.5 UJ	0.4 J	0.5 U	NA	0.5 U
WTA	04/14/2011	3.8	0.5 U	0.5 U	0.5 U	0.4 J	1 U	10 U	0.5 U
WTA	04/14/2011	4.1	0.5 U	0.5 U	0.5 U	0.4 J	1 U	10 U	0.5 U
WTA	10/05/2011	3.2	0.5 U	0.5 U	0.5 U	0.5 J	1 U	10 UJ	0.5 U
WTA	04/05/2012	1.3	0.5 U	0.5 U	0.5 U	0.2 J	1 U	10 U	0.5 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B120	09/09/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B120	09/09/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 UJ	0.9 U	0.9 U
B120	04/15/2011	NA	NA	NA	NA	0.03 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B120	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B120	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B120	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B120	04/03/2012	9.6 U	9.6 U	9.6 U	9.6 U	NA	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	9.6 U	9.6 U	9.6 U
B120	04/03/2012	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B121	09/08/2010	NA	NA	NA	NA	NA	0.048 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B121	09/08/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
B121	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B121	04/13/2011	NA	NA	NA	NA	0.06 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B121	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B121	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B121	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B121	04/04/2012	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	09/23/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	09/23/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B128	09/23/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	09/23/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B128	04/18/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B128	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B128	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	04/02/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	04/02/2012	9.6 U	9.6 U	9.6 U	9.6 U	NA	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	9.6 U	9.6 U	9.6 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B150	09/08/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	4.8 U	4.8 U	4.8 U	4.8 U	19 U	1 U	1 U	1 U
B150	09/08/2010	NA	NA	NA	NA	NA	0.048 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/13/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B150	10/05/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	10/05/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B150	10/05/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B150	10/05/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B150	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B158	09/08/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B158	09/08/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B158	04/15/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B158	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B158	10/05/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B158	10/05/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B158	04/06/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B158	04/06/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B163	09/02/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B163	09/02/2010	1 U	1 U	1 U	1 U	0.5 J	NA	1 UJ	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B163	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U	9.4 U
B163	04/12/2011	NA	NA	NA	NA	0.2 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B163	10/03/2011	NA	NA	NA	NA	0.2 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B163	10/03/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B163	04/02/2012	9.6 U	9.6 U	9.6 U	9.6 U	NA	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	9.6 U	9.6 U	9.6 U
B163	04/02/2012	NA	NA	NA	NA	0.09 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	09/03/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	09/03/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 UJ	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
B175S	04/13/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B175S	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B175S	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B175W	09/08/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175W	09/08/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B175W	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B175W	04/13/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175W	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175W	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B175W	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175W	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B177	09/23/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B177	09/23/2010	0.9 U	0.9 U	0.9 U	0.9 UJ	0.9 U	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
B177	04/18/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B177	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B177	10/05/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B177	10/05/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B177	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B177	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B178	09/02/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B178	09/02/2010	1 U	1 U	1 U	1 U	1 U	NA	1 UJ	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B178	04/15/2011	NA	NA	NA	NA	0.04 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B178	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B178	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B178	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B178	04/03/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B178	04/03/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B180	09/15/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	09/15/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	4.8 U	4.8 U	4.8 U	4.8 U	19 U	1 UJ	1 U	1 U
B180	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B180	04/13/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	10/06/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U	9.4 U
B180	10/06/2011	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	10/06/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	10/06/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U	9.4 U
B180	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	04/04/2012	9.7 U	9.7 U	9.7 U	9.7 U	NA	NA	9.7 U	9.7 U	9.7 U	9.7 U	9.7 U	9.7 U	19 U	9.7 U	9.7 U	9.7 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B185	09/02/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	09/02/2010	0.9 U	0.9 U	0.9 U	0.9 U	10	NA	0.9 UJ	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
B185	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B185	04/15/2011	NA	NA	NA	NA	6	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B185	04/15/2011	NA	NA	NA	NA	6.8	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	10/03/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B185	10/03/2011	NA	NA	NA	NA	6.1	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	10/03/2011	NA	NA	NA	NA	6.3	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	10/03/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B185	04/02/2012	NA	NA	NA	NA	4.4	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	04/02/2012	9.6 U	9.6 U	9.6 U	9.6 U	NA	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	9.6 U	9.6 U	9.6 U
B194	09/09/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B194	09/09/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 UJ	0.9 U	0.9 U
B194	04/13/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B194	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B194	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B194	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B194	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B194	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B195	09/09/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	09/09/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 UJ	0.9 U	0.9 U
B195	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B195	04/13/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B195	04/13/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B195	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	04/03/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	04/03/2012	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
B197	09/09/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	09/09/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 UJ	0.9 U	0.9 U
B197	09/09/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	09/09/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	4.8 U	4.8 U	4.8 U	4.8 U	19 U	1 UJ	1 U	1 U
B197	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B197	04/13/2011	NA	NA	NA	NA	0.04 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B197	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	04/03/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B197	04/03/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	04/03/2012	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	04/03/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B277	09/15/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B277	09/15/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 UJ	1 U	1 U
B277	04/18/2011	NA	NA	NA	NA	0.2 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B277	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B277	10/05/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B277	10/05/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B277	04/03/2012	NA	NA	NA	NA	0.1 J	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B277	04/03/2012	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
B278	09/16/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B278	09/16/2010	1 U	1 U	1 U	1 U	1.4	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 UJ	1 U	1 U
B278	04/19/2011	NA	NA	NA	NA	1.1	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B278	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B278	10/05/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B278	10/05/2011	NA	NA	NA	NA	0.9 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B278	04/05/2012	NA	NA	NA	NA	1.1	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B278	04/05/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B280A	09/16/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280A	09/16/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 UJ	1 U	1 U
B280A	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B280A	04/14/2011	NA	NA	NA	NA	0.2 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280A	10/06/2011	NA	NA	NA	NA	0.2 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280A	10/06/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U	9.4 U
B280A	04/03/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B280A	04/03/2012	NA	NA	NA	NA	0.2 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B280B	10/01/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280B	10/01/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B280B	04/14/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280B	04/14/2011	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
B280B	10/06/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U	9.4 U
B280B	10/06/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280B	04/03/2012	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
B280B	04/03/2012	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B300	09/09/2010	0.9 U	0.9 U	0.9 U	0.9 U	1.4	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 UJ	0.9 U	0.9 U
B300	09/09/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B300	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B300	04/15/2011	NA	NA	NA	NA	0.1 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B300	10/06/2011	97 U	97 U	97 U	97 U	NA	NA	97 U	97 U	97 U	97 U	97 U	97 U	190 UJ	97 U	97 U	97 U
B300	10/06/2011	NA	NA	NA	NA	5.9	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B300	04/09/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B300	04/09/2012	NA	NA	NA	NA	0.8 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	09/15/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 UJ	1 U	1 U
B38	09/15/2010	NA	NA	NA	NA	NA	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B38	04/19/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	04/19/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B38	10/06/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	10/06/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U	9.4 U
B38	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B450	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B450	04/19/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B450	10/10/2011	9.6 UJ	9.6 UJ	9.6 UJ	9.6 UJ	NA	NA	9.6 UJ	9.6 UJ	9.6 UJ	9.6 UJ	9.6 UJ	9.6 UJ	19 UJ	9.6 UJ	9.6 UJ	9.6 UJ
B450	10/10/2011	NA	NA	NA	NA	0.3 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B450	04/06/2012	NA	NA	NA	NA	0.5 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B450	04/06/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B460	09/15/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 UJ	1 U	1 U
B460	09/15/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B460	04/20/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B460	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B460	10/07/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B460	10/07/2011	9.6 U	9.6 U	9.6 U	9.6 U	NA	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	9.6 U	9.6 U	9.6 U
B460	04/06/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B460	04/06/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B473	09/24/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B473	09/24/2010	1 U	1 U	1 U	1 U	0.5 J	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B473	04/20/2011	NA	NA	NA	NA	0.06 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B473	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B473	10/07/2011	NA	NA	NA	NA	0.3 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B473	10/07/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B473	04/06/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B473	04/06/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
B474	09/23/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B474	09/23/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B474	04/20/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B474	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B474	10/07/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B474	10/07/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B474	04/09/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B474	04/09/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B480	09/24/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B480	09/24/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B480	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B480	04/19/2011	NA	NA	NA	NA	0.2 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B480	10/07/2011	NA	NA	NA	NA	0.3 J	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B480	10/07/2011	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
B480	04/09/2012	NA	NA	NA	NA	0.1 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B480	04/09/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B490	09/16/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B490	09/16/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
B490	04/20/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B490	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B490	10/10/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B490	10/10/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B490	04/09/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B490	04/09/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
BULB1	10/19/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB1	10/19/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 UJ	0.9 U	0.9 U	0.9 U
BULB1	04/12/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB1	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
BULB1	09/30/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB1	09/30/2011	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
BULB1	04/05/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB1	04/05/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
BULB2	10/19/2010	NA	NA	NA	NA	NA	0.033 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB2	10/19/2010	1 U	1 U	1 U	1 U	1.3	NA	1 U	NA	5 U	5 U	5 U	5 U	20 UJ	1 U	1 U	1 U
BULB2	04/12/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB2	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
BULB2	09/30/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
BULB2	09/30/2011	NA	NA	NA	NA	1.2	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB2	04/05/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
BULB2	04/05/2012	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	09/08/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	09/08/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
CCC1	04/14/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC1	10/05/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	10/05/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC1	04/10/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	04/10/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
CCC2	09/08/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC2	09/08/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	4.8 U	4.8 U	4.8 U	4.8 U	19 U	1 U	1 U	1 U
CCC2	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC2	04/14/2011	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC2	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC2	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC2	04/10/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC2	04/10/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC3	09/03/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	09/03/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 UJ	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
CCC3	09/03/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	09/03/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 UJ	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
CCC3	04/12/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC3	10/04/2011	NA	NA	NA	NA	0.1 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC3	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC3	10/04/2011	NA	NA	NA	NA	0.1 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	04/10/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC3	04/10/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
CCCT	09/03/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCCT	09/03/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 UJ	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
CCCT	04/18/2011	NA	NA	NA	NA	0.1 J	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCCT	04/18/2011	9.5 U	9.5 U	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
CCCT	10/03/2011	NA	NA	NA	NA	0.08 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCCT	10/03/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCCT	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCCT	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CTP	09/30/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	09/30/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
CTP	09/30/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	09/30/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
CTP	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CTP	04/14/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	10/06/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	10/06/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U	9.4 U
CTP	04/03/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	04/03/2012	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
CTPS	10/01/2010	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	NA	1.2 U	NA	6 U	6 U	6 U	6 U	24 U	1.2 U	1.2 U	1.2 U
CTPS	10/18/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTPS	04/19/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTPS	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CTPS	10/07/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CTPS	10/10/2011	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTPS	04/05/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTPS	04/05/2012	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
DH	09/30/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DH	09/30/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
DH	04/14/2011	NA	NA	NA	NA	0.04 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DH	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
DH	10/05/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DH	10/05/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
DH	04/05/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DH	04/06/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EERC	10/01/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
EERC	10/15/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EERC	04/20/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EERC	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EERC	10/07/2011	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EERC	10/07/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EERC	04/06/2012	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
EERC	04/06/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	09/16/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	09/16/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
EPA	04/19/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EPA	10/06/2011	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	10/06/2011	9.8 U	9.8 U	9.8 U	9.8 U	NA	NA	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	20 U	9.8 U	9.8 U	9.8 U
EPA	04/06/2012	NA	NA	NA	NA	0.5 J	0.05 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	04/06/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EPA	04/06/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	04/06/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

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 University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
ETA	09/24/2010	NA	NA	NA	NA	NA	0.033 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	09/24/2010	0.9 U	0.9 U	0.9 U	0.9 U	12	NA	0.9 U	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
ETA	09/24/2010	NA	NA	NA	NA	NA	0.032 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	09/24/2010	1 U	1 U	1 U	1 U	12	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
ETA	04/12/2011	NA	NA	NA	NA	8.1	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
ETA	09/30/2011	NA	NA	NA	NA	6.1	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	09/30/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
ETA	04/10/2012	NA	NA	NA	NA	12	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	04/10/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
ETA	04/10/2012	NA	NA	NA	NA	12	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	04/10/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EXT	09/30/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EXT	09/30/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	09/23/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	09/23/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
FG	04/19/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
FG	04/19/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
FG	10/10/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	10/10/2011	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
FG	04/09/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	04/09/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
GEO	09/03/2010	NA	NA	NA	NA	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GEO	09/03/2010	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	0.9 UJ	NA	4.7 U	4.7 U	4.7 U	4.7 U	19 U	0.9 U	0.9 U	0.9 U
GEO	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
GEO	04/20/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GEO	10/06/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U	9.4 U
GEO	10/06/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GEO	04/06/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GEO	04/06/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
MFA	09/24/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MFA	09/24/2010	1 U	1 U	1 U	1 U	2.3	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
MFA	04/12/2011	NA	NA	NA	NA	1.1	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MFA	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
MFA	10/03/2011	NA	NA	NA	NA	1.7	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MFA	10/03/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
MFA	04/05/2012	NA	NA	NA	NA	1.2	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MFA	04/05/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
NRLF	09/16/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	4.8 U	4.8 U	4.8 U	4.8 U	19 U	1 UJ	1 U	1 U
NRLF	09/16/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRLF	04/20/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRLF	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
NRLF	10/06/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRLF	10/06/2011	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 UJ	9.5 U	9.5 U	9.5 U
NRLF	04/09/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRLF	04/09/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
OBS6	09/30/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OBS6	09/30/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
PZ11	10/01/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ11	10/01/2010	1 U	1 U	1 U	1 U	0.7 J	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
PZ11	04/20/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ11	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ11	10/10/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ11	10/10/2011	NA	NA	NA	NA	0.3 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ11	04/05/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ11	04/05/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	10/15/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	10/15/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 UJ	1 U	1 U	1 U
PZ8	04/18/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ8	10/04/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	10/04/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ8	04/03/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	04/03/2012	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ	NA	NA	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ	19 UJ	9.7 UJ	9.7 UJ	9.7 UJ
PZ9	09/24/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	09/24/2010	1 U	1 U	1 U	1 U	1.6	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
PZ9	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ9	04/20/2011	NA	NA	NA	NA	0.9 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	10/07/2011	NA	NA	NA	NA	1.2	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	10/07/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ9	10/07/2011	NA	NA	NA	NA	1.2	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	10/07/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ9	04/06/2012	NA	NA	NA	NA	1	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	04/06/2012	9.4 UJ	9.4 U	9.4 UJ	9.4 UJ	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
RWF	09/15/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RWF	09/15/2010	1 U	1 U	1 U	1 U	0.7 J	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 UJ	1 U	1 U
RWF	04/18/2011	NA	NA	NA	NA	0.06 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RWF	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
RWF	10/06/2011	NA	NA	NA	NA	0.6 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RWF	10/06/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U	9.4 U
RWF	04/04/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
RWF	04/04/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	09/29/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
TP1	09/29/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	04/18/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
TP1	10/07/2011	NA	NA	NA	NA	0.05 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	10/07/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
TP1	04/05/2012	NA	NA	NA	NA	1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	04/05/2012	9.5 U	9.5 U	9.5 U	9.5 U	NA	NA	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
TP2	09/29/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	09/29/2010	1 U	1 U	1 U	1 U	1.1	NA	1 U	NA	5 U	5 U	5 U	5 U	20 U	1 U	1 U	1 U
TP2	04/18/2011	NA	NA	NA	NA	0.7 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
TP2	10/07/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
TP2	10/07/2011	NA	NA	NA	NA	0.9 J	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	04/09/2012	NA	NA	NA	NA	0.3 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	04/09/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
TP2	04/09/2012	NA	NA	NA	NA	0.4 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	04/09/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	1-Methylnaphthalene	2,2'-Oxybis(1-Chloropropane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene
WTA	09/30/2010	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WTA	09/30/2010	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	5 U	5 U	5 U	5 U	20 UJ	1 U	1 U	1 U
WTA	04/14/2011	NA	NA	NA	NA	0.06 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
WTA	04/14/2011	NA	NA	NA	NA	0.07 J	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
WTA	10/05/2011	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WTA	10/05/2011	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
WTA	04/05/2012	9.4 U	9.4 U	9.4 U	9.4 U	NA	NA	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
WTA	04/05/2012	NA	NA	NA	NA	0.9 U	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	3/4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol
B120	09/09/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B120	09/09/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 UJ
B120	04/15/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B120	04/15/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B120	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B120	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B120	04/03/2012	9.6 U	NA	9.6 U	19 U	19 U	19 U	19 U	NA	19 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	19 U
B120	04/03/2012	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B121	09/08/2010	NA	0.048 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B121	09/08/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 U
B121	04/13/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B121	04/13/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B121	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B121	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B121	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B121	04/04/2012	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	09/23/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	09/23/2010	5 U	1 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
B128	09/23/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	09/23/2010	5 U	1 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
B128	04/18/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	04/18/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B128	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B128	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	04/02/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B128	04/02/2012	9.6 U	NA	9.6 U	19 U	19 U	19 U	19 U	NA	19 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	19 U

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Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	3/4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol
B150	09/08/2010	4.8 U	1 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 UJ	1 U	4.8 U	4.8 U	1 U	NA	4.8 U	4.8 U
B150	09/08/2010	NA	0.048 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/13/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/13/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B150	10/05/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	10/05/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B150	10/05/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B150	10/05/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B150	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B150	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B158	09/08/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B158	09/08/2010	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
B158	04/15/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B158	04/15/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B158	10/05/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B158	10/05/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B158	04/06/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B158	04/06/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	3/4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol
B163	09/02/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B163	09/02/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	NA	5 UJ	1 U	5 U	5 U	1 U	5 U	5 U	5 U
B163	04/12/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U	19 U	19 U
B163	04/12/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B163	10/03/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B163	10/03/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B163	04/02/2012	9.6 U	NA	9.6 U	19 U	19 U	19 U	19 U	NA	19 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	19 U
B163	04/02/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	09/03/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	09/03/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	NA	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U
B175S	04/13/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	04/13/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B175S	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B175S	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175S	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B175W	09/08/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175W	09/08/2010	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
B175W	04/13/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B175W	04/13/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175W	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175W	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B175W	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B175W	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	3/4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol
B177	09/23/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B177	09/23/2010	4.7 U	0.9 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 U
B177	04/18/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B177	04/18/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B177	10/05/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B177	10/05/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B177	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B177	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B178	09/02/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B178	09/02/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	NA	5 UJ	1 U	5 U	5 U	1 U	5 U	5 U	5 U
B178	04/15/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B178	04/15/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B178	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B178	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B178	04/03/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B178	04/03/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B180	09/15/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	09/15/2010	4.8 U	1 U	4.8 U	4.8 U	4.8 U	4.8 UJ	4.8 U	4.8 U	4.8 UJ	1 U	4.8 U	4.8 U	1 U	NA	4.8 U	4.8 UJ
B180	04/13/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B180	04/13/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	10/06/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B180	10/06/2011	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	10/06/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	10/06/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B180	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B180	04/04/2012	9.7 U	NA	9.7 U	19 U	19 U	19 U	19 U	NA	19 U	9.7 U	9.7 U	9.7 U	9.7 U	9.7 U	19 U	19 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	3/4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol
B185	09/02/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	09/02/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	NA	4.7 UJ	0.9 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	4.7 U
B185	04/15/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B185	04/15/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	04/15/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B185	04/15/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	10/03/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B185	10/03/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	10/03/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	10/03/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B185	04/02/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B185	04/02/2012	9.6 U	NA	9.6 U	19 U	19 U	19 U	19 U	NA	19 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	19 U
B194	09/09/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B194	09/09/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 UJ
B194	04/13/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B194	04/13/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B194	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B194	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B194	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B194	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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SVOC AND PAH (µg/L)

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B195	09/09/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	09/09/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 UJ
B195	04/13/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B195	04/13/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	04/13/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B195	04/13/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B195	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	04/03/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B195	04/03/2012	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
B197	09/09/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	09/09/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 UJ
B197	09/09/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	09/09/2010	4.8 U	1 U	4.8 U	4.8 U	4.8 U	4.8 UJ	4.8 U	4.8 U	4.8 UJ	1 U	4.8 U	4.8 U	1 U	NA	4.8 U	4.8 UJ
B197	04/13/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B197	04/13/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B197	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	04/03/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B197	04/03/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	04/03/2012	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B197	04/03/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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SVOC AND PAH (µg/L)

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B277	09/15/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B277	09/15/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 UJ
B277	04/18/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B277	04/18/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B277	10/05/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B277	10/05/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B277	04/03/2012	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B277	04/03/2012	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
B278	09/16/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B278	09/16/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 UJ
B278	04/19/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B278	04/19/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B278	10/05/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B278	10/05/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B278	04/05/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B278	04/05/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B280A	09/16/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280A	09/16/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 UJ
B280A	04/14/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B280A	04/14/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280A	10/06/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280A	10/06/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B280A	04/03/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B280A	04/03/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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B280B	10/01/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280B	10/01/2010	5 U	1 UJ	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
B280B	04/14/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280B	04/14/2011	10 U	10 U	10 U	20 U	20 U	20 U	20 U	NA	20 U	10 U	10 U	10 U	10 U	10 U	20 U	20 U
B280B	10/06/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B280B	10/06/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B280B	04/03/2012	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
B280B	04/03/2012	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B300	09/09/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 UJ
B300	09/09/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B300	04/15/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B300	04/15/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B300	10/06/2011	97 U	NA	97 U	190 U	190 U	190 U	190 U	NA	190 U	97 U	97 U	97 U	97 U	97 U	190 U	190 U
B300	10/06/2011	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B300	04/09/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B300	04/09/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	09/15/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 UJ
B38	09/15/2010	NA	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	04/19/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B38	04/19/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	04/19/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	04/19/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B38	10/06/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	10/06/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B38	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B38	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	3/4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol
B450	04/19/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B450	04/19/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B450	10/10/2011	9.6 UJ	NA	9.6 UJ	19 UJ	19 UJ	19 UJ	19 UJ	NA	19 UJ	9.6 UJ	9.6 UJ	9.6 UJ	9.6 UJ	9.6 UJ	19 UJ	19 UJ
B450	10/10/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B450	04/06/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B450	04/06/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B460	09/15/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 UJ
B460	09/15/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B460	04/20/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B460	04/20/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B460	10/07/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B460	10/07/2011	9.6 U	NA	9.6 U	19 U	19 U	19 U	19 U	NA	19 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	19 U	19 U
B460	04/06/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B460	04/06/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B473	09/24/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B473	09/24/2010	5 U	1 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
B473	04/20/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B473	04/20/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B473	10/07/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B473	10/07/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B473	04/06/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B473	04/06/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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SVOC AND PAH (µg/L)

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B474	09/23/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B474	09/23/2010	5 U	1 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
B474	04/20/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B474	04/20/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B474	10/07/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B474	10/07/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B474	04/09/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B474	04/09/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B480	09/24/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B480	09/24/2010	5 U	1 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
B480	04/19/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B480	04/19/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B480	10/07/2011	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B480	10/07/2011	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
B480	04/09/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B480	04/09/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B490	09/16/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B490	09/16/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 UJ
B490	04/20/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B490	04/20/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B490	10/10/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B490	10/10/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B490	04/09/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
B490	04/09/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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SVOC AND PAH (µg/L)

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BULB1	10/19/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB1	10/19/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 U
BULB1	04/12/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB1	04/12/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	19 U
BULB1	09/30/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB1	09/30/2011	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
BULB1	04/05/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB1	04/05/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
BULB2	10/19/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB2	10/19/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
BULB2	04/12/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB2	04/12/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 UJ	19 U
BULB2	09/30/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
BULB2	09/30/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BULB2	04/05/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
BULB2	04/05/2012	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	09/08/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	09/08/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 U
CCC1	04/14/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	04/14/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CCC1	10/05/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	10/05/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CCC1	04/10/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC1	04/10/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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SVOC AND PAH (µg/L)

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CCC2	09/08/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC2	09/08/2010	4.8 U	1 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 UJ	1 U	4.8 U	4.8 U	1 U	NA	4.8 U	4.8 U
CCC2	04/14/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CCC2	04/14/2011	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC2	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC2	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CCC2	04/10/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC2	04/10/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CCC3	09/03/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	09/03/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	NA	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U
CCC3	09/03/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	09/03/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	NA	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U
CCC3	04/12/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	04/12/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U	19 U	19 U
CCC3	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CCC3	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CCC3	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCC3	04/10/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CCC3	04/10/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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CCCT	09/03/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCCT	09/03/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	NA	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U
CCCT	04/18/2011	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCCT	04/18/2011	9.5 U	9.5 U	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
CCCT	10/03/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCCT	10/03/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CCCT	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCCT	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CTP	09/30/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	09/30/2010	5 U	1 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	13	5 UJ	1 U	5 U	5 UJ	1 U	NA	5 U	5 U
CTP	09/30/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	09/30/2010	5 U	1 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	9	5 UJ	1 U	5 U	5 UJ	1 U	NA	5 U	5 U
CTP	04/14/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CTP	04/14/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	10/06/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	10/06/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CTP	04/03/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTP	04/03/2012	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
CTPS	10/01/2010	6 U	1.2 UJ	6 UJ	6 U	6 U	6 UJ	6 U	6 U	6 UJ	1.2 U	6 U	6 U	1.2 U	NA	6 U	6 U
CTPS	10/18/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTPS	04/19/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTPS	04/19/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CTPS	10/07/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
CTPS	10/10/2011	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTPS	04/05/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTPS	04/05/2012	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	3/4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol
DH	09/30/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DH	09/30/2010	5 U	1 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	1 U	5 U	5 UJ	1 U	NA	5 U	5 U
DH	04/14/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DH	04/14/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
DH	10/05/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DH	10/05/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
DH	04/05/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DH	04/06/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	3.2 J	19 U	19 U
EERC	10/01/2010	5 U	1 UJ	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
EERC	10/15/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EERC	04/20/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EERC	04/20/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
EERC	10/07/2011	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EERC	10/07/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
EERC	04/06/2012	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
EERC	04/06/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	09/16/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	09/16/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 UJ
EPA	04/19/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	04/19/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
EPA	10/06/2011	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	10/06/2011	9.8 U	NA	9.8 U	20 U	20 U	20 U	20 U	NA	20 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	20 U	20 U
EPA	04/06/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	04/06/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
EPA	04/06/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA	04/06/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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ETA	09/24/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	09/24/2010	4.7 U	0.9 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	NA	4.7 U	4.7 U
ETA	09/24/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	09/24/2010	5 U	1 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
ETA	04/12/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	04/12/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U	19 U	19 U
ETA	09/30/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	09/30/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
ETA	04/10/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	04/10/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
ETA	04/10/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETA	04/10/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
EXT	09/30/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
EXT	09/30/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	09/23/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	09/23/2010	5 U	1 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
FG	04/19/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	04/19/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
FG	04/19/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	04/19/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
FG	10/10/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	10/10/2011	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
FG	04/09/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FG	04/09/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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SVOC AND PAH (µg/L)

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GEO	09/03/2010	NA	0.047 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GEO	09/03/2010	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	NA	4.7 UJ	0.9 U	4.7 U	4.7 U	0.9 U	4.7 U	4.7 U	4.7 U
GEO	04/20/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
GEO	04/20/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GEO	10/06/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
GEO	10/06/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GEO	04/06/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GEO	04/06/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
MFA	09/24/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MFA	09/24/2010	5 U	1 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
MFA	04/12/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MFA	04/12/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U	19 U	19 U
MFA	10/03/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MFA	10/03/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
MFA	04/05/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MFA	04/05/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
NRLF	09/16/2010	4.8 U	1 U	4.8 U	4.8 U	4.8 U	4.8 UJ	4.8 U	4.8 U	4.8 UJ	1 U	4.8 U	4.8 U	1 U	NA	4.8 U	4.8 UJ
NRLF	09/16/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRLF	04/20/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRLF	04/20/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
NRLF	10/06/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRLF	10/06/2011	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
NRLF	04/09/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRLF	04/09/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
OBS6	09/30/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OBS6	09/30/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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SVOC AND PAH (µg/L)

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PZ11	10/01/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ11	10/01/2010	5 U	1 UJ	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
PZ11	04/20/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ11	04/20/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
PZ11	10/10/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
PZ11	10/10/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ11	04/05/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
PZ11	04/05/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	10/15/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	10/15/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
PZ8	04/18/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	04/18/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
PZ8	10/04/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	10/04/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
PZ8	04/03/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ8	04/03/2012	9.7 UJ	NA	9.7 UJ	19 UJ	19 UJ	19 UJ	19 UJ	NA	19 UJ	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ	19 UJ	19 UJ
PZ9	09/24/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	09/24/2010	5 U	1 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 U
PZ9	04/20/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
PZ9	04/20/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	10/07/2011	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	10/07/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
PZ9	10/07/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	10/07/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
PZ9	04/06/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ9	04/06/2012	9.4 UJ	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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RWF	09/15/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RWF	09/15/2010	5 U	1 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	1 U	5 U	5 U	1 U	NA	5 U	5 UJ
RWF	04/18/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RWF	04/18/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
RWF	10/06/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RWF	10/06/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
RWF	04/04/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
RWF	04/04/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	09/29/2010	5 U	1 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	1 U	5 U	5 UJ	1 U	NA	5 U	5 U
TP1	09/29/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	04/18/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	04/18/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
TP1	10/07/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	10/07/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
TP1	04/05/2012	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP1	04/05/2012	9.5 U	NA	9.5 U	19 U	19 U	19 U	19 U	NA	19 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	19 U
TP2	09/29/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	09/29/2010	5 U	1 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	1 U	5 U	5 UJ	1 U	NA	5 U	5 U
TP2	04/18/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	04/18/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
TP2	10/07/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
TP2	10/07/2011	NA	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	04/09/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	04/09/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
TP2	04/09/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TP2	04/09/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	3/4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol
WTA	09/30/2010	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WTA	09/30/2010	5 U	1 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	1 U	5 U	5 UJ	1 U	NA	5 U	5 U
WTA	04/14/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
WTA	04/14/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
WTA	10/05/2011	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WTA	10/05/2011	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
WTA	04/05/2012	9.4 U	NA	9.4 U	19 U	19 U	19 U	19 U	NA	19 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	19 U
WTA	04/05/2012	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
B120	09/09/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B120	09/09/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 UJ	0.9 UJ	0.9 U
B120	04/15/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B120	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B120	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B120	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B120	04/03/2012	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
B120	04/03/2012	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
B121	09/08/2010	0.048 U	0.048 U	0.048 U	NA	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	NA	NA	NA	NA	NA	NA	NA
B121	09/08/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 UJ	NA	4.7 U	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U
B121	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B121	04/13/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B121	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
B121	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B121	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B121	04/04/2012	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
B128	09/23/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B128	09/23/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	6.2	1 UJ	1 U
B128	09/23/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B128	09/23/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 UJ	1 U
B128	04/18/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B128	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B128	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B128	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B128	04/02/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B128	04/02/2012	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzy Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
B150	09/08/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ	NA	4.8 U	1 U	1 U	1 UJ	1 U	1 U
B150	09/08/2010	0.048 U	0.048 U	0.048 U	NA	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	NA	NA	NA	NA	NA	NA	NA
B150	04/13/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B150	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B150	10/05/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B150	10/05/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B150	10/05/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B150	10/05/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B150	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B150	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
B150	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B150	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B158	09/08/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B158	09/08/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ	NA	5 U	1 U	1 U	1 UJ	1 U	1 U
B158	04/15/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B158	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B158	10/05/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	2.4 UJ	9.4 U	9.4 U
B158	10/05/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B158	04/06/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B158	04/06/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzy Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
B163	09/02/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B163	09/02/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ	NA	5 U	1 U	1 U	5.7	1 U	1 U
B163	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
B163	04/12/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B163	10/03/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B163	10/03/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B163	04/02/2012	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
B163	04/02/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B175S	09/03/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B175S	09/03/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 UJ	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
B175S	04/13/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B175S	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B175S	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B175S	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B175S	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B175S	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B175W	09/08/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B175W	09/08/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ	NA	5 U	1 U	1 U	1 UJ	1 U	1 U
B175W	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B175W	04/13/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B175W	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B175W	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B175W	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B175W	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

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B177	09/23/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B177	09/23/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
B177	04/18/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B177	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B177	10/05/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B177	10/05/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B177	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B177	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B178	09/02/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B178	09/02/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
B178	04/15/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B178	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B178	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B178	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B178	04/03/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B178	04/03/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B180	09/15/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B180	09/15/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	4.8 U	1 U	1 U	1 U	1 U	1 U
B180	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B180	04/13/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B180	10/06/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B180	10/06/2011	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
B180	10/06/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B180	10/06/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	20 U	9.4 U	9.4 U
B180	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B180	04/04/2012	NA	NA	NA	9.7 U	NA	NA	NA	NA	NA	49 U	9.7 U	9.7 U	9.7 U	9.7 U	9.7 U	9.7 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzy Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
B185	09/02/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B185	09/02/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.5 U	0.9 U	0.9 U
B185	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	20 U	9.4 U	9.4 U
B185	04/15/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B185	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B185	04/15/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B185	10/03/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B185	10/03/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B185	10/03/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B185	10/03/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B185	04/02/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B185	04/02/2012	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
B194	09/09/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B194	09/09/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
B194	04/13/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B194	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B194	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B194	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B194	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B194	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
B195	09/09/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B195	09/09/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 UJ	0.9 UJ	0.9 U
B195	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B195	04/13/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B195	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B195	04/13/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B195	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B195	10/04/2011	0.09 U	0.09 U	0.09 UJ	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B195	04/03/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B195	04/03/2012	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
B197	09/09/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B197	09/09/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 UJ	0.9 UJ	0.9 U
B197	09/09/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B197	09/09/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	4.8 U	1 U	1 U	1 UJ	1 UJ	1 U
B197	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B197	04/13/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B197	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B197	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B197	04/03/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B197	04/03/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B197	04/03/2012	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
B197	04/03/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

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Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
B277	09/15/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B277	09/15/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 UJ	1 UJ	1 U
B277	04/18/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B277	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B277	10/05/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B277	10/05/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B277	04/03/2012	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
B277	04/03/2012	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
B278	09/16/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B278	09/16/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 UJ	1 UJ	1 U
B278	04/19/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B278	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B278	10/05/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B278	10/05/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B278	04/05/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B278	04/05/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B280A	09/16/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B280A	09/16/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 UJ	1 UJ	1 U
B280A	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B280A	04/14/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B280A	10/06/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B280A	10/06/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
B280A	04/03/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B280A	04/03/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA

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B280B	10/01/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B280B	10/01/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
B280B	04/14/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B280B	04/14/2011	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U
B280B	10/06/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B280B	10/06/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B280B	04/03/2012	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
B280B	04/03/2012	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
B300	09/09/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 UJ	0.9 UJ	0.9 U
B300	09/09/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
B300	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B300	04/15/2011	0.09 U	0.08 J	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B300	10/06/2011	NA	NA	NA	97 U	NA	NA	NA	NA	NA	180 J	73 J	97 U	97 U	97 U	97 U	97 U
B300	10/06/2011	0.5 U	4.9	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	NA
B300	04/09/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B300	04/09/2012	0.09 U	0.2	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B38	09/15/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 UJ	1 UJ	1 U
B38	09/15/2010	0.05 UJ	0.05 UJ	0.05 UJ	NA	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	NA	NA	NA	NA	NA	NA	NA
B38	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B38	04/19/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B38	04/19/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B38	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B38	10/06/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B38	10/06/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B38	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B38	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	13 UJ	9.4 U	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
B450	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B450	04/19/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B450	10/10/2011	NA	NA	NA	9.6 UJ	NA	NA	NA	NA	NA	48 UJ	9.6 UJ	9.6 UJ	9.6 UJ	9.6 UJ	9.6 UJ	9.6 UJ
B450	10/10/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B450	04/06/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B450	04/06/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
B460	09/15/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 UJ	1 UJ	1 U
B460	09/15/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B460	04/20/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B460	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B460	10/07/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B460	10/07/2011	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	48 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
B460	04/06/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B460	04/06/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
B473	09/24/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B473	09/24/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	0.5 J	1 UJ	1 U
B473	04/20/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B473	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B473	10/07/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B473	10/07/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B473	04/06/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B473	04/06/2012	0.09 U	0.09 U	0.02 J	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA

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B474	09/23/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B474	09/23/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
B474	04/20/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B474	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B474	10/07/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B474	10/07/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B474	04/09/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B474	04/09/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B480	09/24/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B480	09/24/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	0.8 J	1 U	1 U
B480	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B480	04/19/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B480	10/07/2011	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
B480	10/07/2011	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
B480	04/09/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B480	04/09/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B490	09/16/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
B490	09/16/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
B490	04/20/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B490	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B490	10/10/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
B490	10/10/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B490	04/09/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
B490	04/09/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA

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BULB1	10/19/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
BULB1	10/19/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.6 UJ	0.9 U	0.9 U
BULB1	04/12/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
BULB1	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
BULB1	09/30/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
BULB1	09/30/2011	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
BULB1	04/05/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
BULB1	04/05/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
BULB2	10/19/2010	0.062	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
BULB2	10/19/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
BULB2	04/12/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
BULB2	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
BULB2	09/30/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	19 UJ	9.4 U	9.4 U
BULB2	09/30/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
BULB2	04/05/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
BULB2	04/05/2012	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
CCC1	09/08/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
CCC1	09/08/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 UJ	NA	4.7 U	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U
CCC1	04/14/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCC1	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CCC1	10/05/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCC1	10/05/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CCC1	04/10/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCC1	04/10/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

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CCC2	09/08/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
CCC2	09/08/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 UJ	NA	4.8 U	1 U	1 U	0.6 J	1 U	1 U
CCC2	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CCC2	04/14/2011	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
CCC2	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCC2	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
CCC2	04/10/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCC2	04/10/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CCC3	09/03/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
CCC3	09/03/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 UJ	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
CCC3	09/03/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
CCC3	09/03/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 UJ	NA	4.7 U	0.9 U	0.9 U	1 UJ	0.9 U	0.9 U
CCC3	04/12/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCC3	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
CCC3	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCC3	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CCC3	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CCC3	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCC3	04/10/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CCC3	04/10/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA

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SVOC AND PAH (µg/L)

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CCCT	09/03/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
CCCT	09/03/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
CCCT	04/18/2011	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
CCCT	04/18/2011	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
CCCT	10/03/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCCT	10/03/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CCCT	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CCCT	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CTP	09/30/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
CTP	09/30/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
CTP	09/30/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
CTP	09/30/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
CTP	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CTP	04/14/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CTP	10/06/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CTP	10/06/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CTP	04/03/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CTP	04/03/2012	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
CTPS	10/01/2010	1.2 U	1.2 U	1.2 U	NA	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	NA	6 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
CTPS	10/18/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
CTPS	04/19/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CTPS	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CTPS	10/07/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
CTPS	10/10/2011	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
CTPS	04/05/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
CTPS	04/05/2012	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
DH	09/30/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
DH	09/30/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
DH	04/14/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
DH	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
DH	10/05/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
DH	10/05/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	2.2 UJ	9.4 U	9.4 U
DH	04/05/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
DH	04/06/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
EERC	10/01/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
EERC	10/15/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
EERC	04/20/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
EERC	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
EERC	10/07/2011	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
EERC	10/07/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
EERC	04/06/2012	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 UJ	9.5 U	9.5 U
EERC	04/06/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
EPA	09/16/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
EPA	09/16/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 UJ	1 UJ	1 U
EPA	04/19/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
EPA	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
EPA	10/06/2011	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
EPA	10/06/2011	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	49 U	9.8 U	9.8 U	9.8 U	9.8 UJ	9.8 U	9.8 U
EPA	04/06/2012	0.2	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
EPA	04/06/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
EPA	04/06/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
EPA	04/06/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

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ETA	09/24/2010	0.11	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
ETA	09/24/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	1.1	0.9 UJ	0.9 U
ETA	09/24/2010	0.11	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
ETA	09/24/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	0.5 J	1 UJ	1 U
ETA	04/12/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
ETA	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
ETA	09/30/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
ETA	09/30/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
ETA	04/10/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
ETA	04/10/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
ETA	04/10/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
ETA	04/10/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
EXT	09/30/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
EXT	09/30/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
FG	09/23/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
FG	09/23/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 UJ	1 U
FG	04/19/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
FG	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
FG	04/19/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
FG	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
FG	10/10/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
FG	10/10/2011	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
FG	04/09/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
FG	04/09/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

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Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
GEO	09/03/2010	0.047 U	0.047 U	0.047 U	NA	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	NA	NA	NA	NA	NA	NA	NA
GEO	09/03/2010	0.9 U	0.9 U	0.9 U	NA	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	NA	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
GEO	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
GEO	04/20/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
GEO	10/06/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
GEO	10/06/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
GEO	04/06/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
GEO	04/06/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
MFA	09/24/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
MFA	09/24/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	27	1 U	1 U
MFA	04/12/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
MFA	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
MFA	10/03/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
MFA	10/03/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
MFA	04/05/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
MFA	04/05/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
NRLF	09/16/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	4.8 U	1 U	1 U	1 U	1 U	1 U
NRLF	09/16/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
NRLF	04/20/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
NRLF	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
NRLF	10/06/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
NRLF	10/06/2011	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
NRLF	04/09/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
NRLF	04/09/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
OBS6	09/30/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
OBS6	09/30/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

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PZ11	10/01/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
PZ11	10/01/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
PZ11	04/20/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
PZ11	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
PZ11	10/10/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
PZ11	10/10/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
PZ11	04/05/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
PZ11	04/05/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
PZ8	10/15/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
PZ8	10/15/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
PZ8	04/18/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
PZ8	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
PZ8	10/04/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
PZ8	10/04/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
PZ8	04/03/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
PZ8	04/03/2012	NA	NA	NA	9.7 UJ	NA	NA	NA	NA	NA	49 UJ	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ
PZ9	09/24/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
PZ9	09/24/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 UJ	1 U
PZ9	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
PZ9	04/20/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
PZ9	10/07/2011	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
PZ9	10/07/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
PZ9	10/07/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
PZ9	10/07/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
PZ9	04/06/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
PZ9	04/06/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U	9.4 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
RWF	09/15/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
RWF	09/15/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 UJ	1 UJ	1 U
RWF	04/18/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
RWF	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RWF	10/06/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
RWF	10/06/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RWF	04/04/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
RWF	04/04/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
TP1	09/29/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
TP1	09/29/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
TP1	04/18/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
TP1	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
TP1	10/07/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
TP1	10/07/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
TP1	04/05/2012	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
TP1	04/05/2012	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	48 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
TP2	09/29/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
TP2	09/29/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
TP2	04/18/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
TP2	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
TP2	10/07/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
TP2	10/07/2011	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA
TP2	04/09/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
TP2	04/09/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
TP2	04/09/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
TP2	04/09/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	23 UJ	9.4 U	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Benzoic Acid	Benzy Alcohol	Bis(2-Chloroethoxy)Methane	Bis(2-Chloroethyl)Ether	Bis(2-Ethylhexyl)Phthalate	Butylbenzylphthalate	Carbazole
WTA	09/30/2010	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA
WTA	09/30/2010	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
WTA	04/14/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 UJ	9.4 U	9.4 U
WTA	04/14/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
WTA	10/05/2011	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA
WTA	10/05/2011	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	3.3 UJ	9.4 U	9.4 U
WTA	04/05/2012	NA	NA	NA	9.4 U	NA	NA	NA	NA	NA	47 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
WTA	04/05/2012	0.09 U	0.09 U	0.09 U	NA	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA	NA	NA	NA	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
B120	09/09/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B120	09/09/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 UJ	0.9 U	0.9 U	0.9 U
B120	04/15/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B120	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B120	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B120	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B120	04/03/2012	NA	9.6 U	9.6 U	NA	9.6 U	9.6 U	9.6 U	NA	NA	NA	9.6 U	9.6 U	19 U	9.6 U	NA	9.6 U
B120	04/03/2012	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
B121	09/08/2010	0.048 U	NA	NA	0.048 U	NA	NA	NA	NA	0.048 U	0.048 U	NA	NA	NA	NA	0.048 U	NA
B121	09/08/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
B121	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B121	04/13/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B121	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B121	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B121	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B121	04/04/2012	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
B128	09/23/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B128	09/23/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B128	09/23/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B128	09/23/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B128	04/18/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B128	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B128	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B128	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B128	04/02/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B128	04/02/2012	NA	9.6 U	9.6 U	NA	9.6 U	9.6 U	9.6 U	NA	NA	NA	9.6 U	9.6 U	19 U	9.6 U	NA	9.6 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
B150	09/08/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.8 U	1 U	1 U	1 U
B150	09/08/2010	0.048 U	NA	NA	0.048 U	NA	NA	NA	NA	0.048 U	0.048 U	NA	NA	NA	NA	0.048 U	NA
B150	04/13/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B150	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B150	10/05/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B150	10/05/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B150	10/05/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B150	10/05/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B150	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B150	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B150	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B150	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B158	09/08/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B158	09/08/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
B158	04/15/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B158	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B158	10/05/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B158	10/05/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B158	04/06/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B158	04/06/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
B163	09/02/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B163	09/02/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
B163	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B163	04/12/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B163	10/03/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B163	10/03/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B163	04/02/2012	NA	9.6 U	9.6 U	NA	9.6 U	9.6 U	9.6 U	NA	NA	NA	9.6 U	9.6 U	19 U	9.6 U	NA	9.6 U
B163	04/02/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B175S	09/03/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B175S	09/03/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
B175S	04/13/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B175S	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B175S	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B175S	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B175S	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B175S	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B175W	09/08/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B175W	09/08/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
B175W	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B175W	04/13/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B175W	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B175W	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B175W	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B175W	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
B177	09/23/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B177	09/23/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	4.7 UJ	0.9 U	0.9 U	0.9 U
B177	04/18/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B177	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B177	10/05/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B177	10/05/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B177	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B177	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B178	09/02/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B178	09/02/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
B178	04/15/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B178	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B178	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B178	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B178	04/03/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B178	04/03/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B180	09/15/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B180	09/15/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.8 UJ	1 U	1 U	1 U
B180	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B180	04/13/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B180	10/06/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B180	10/06/2011	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
B180	10/06/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B180	10/06/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B180	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B180	04/04/2012	NA	9.7 U	9.7 U	NA	9.7 U	9.7 U	9.7 U	NA	NA	NA	9.7 U	9.7 U	19 U	9.7 U	NA	9.7 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
B185	09/02/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B185	09/02/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
B185	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B185	04/15/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B185	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B185	04/15/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B185	10/03/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B185	10/03/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B185	10/03/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B185	10/03/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B185	04/02/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B185	04/02/2012	NA	9.6 U	9.6 U	NA	9.6 U	9.6 U	9.6 U	NA	NA	NA	9.6 U	9.6 U	19 U	9.6 U	NA	9.6 U
B194	09/09/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B194	09/09/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 UJ	0.9 U	0.9 U	0.9 U
B194	04/13/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B194	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B194	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B194	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B194	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B194	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
B195	09/09/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B195	09/09/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 UJ	0.9 U	0.9 U	0.9 U
B195	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B195	04/13/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B195	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B195	04/13/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B195	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B195	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 UJ	0.09 U	NA	NA	NA	NA	0.09 U	NA
B195	04/03/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B195	04/03/2012	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
B197	09/09/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B197	09/09/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 UJ	0.9 U	0.9 U	0.9 U
B197	09/09/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B197	09/09/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.8 UJ	1 U	1 U	1 U
B197	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B197	04/13/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B197	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B197	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B197	04/03/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B197	04/03/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B197	04/03/2012	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
B197	04/03/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

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SVOC AND PAH (µg/L)

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B277	09/15/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B277	09/15/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B277	04/18/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B277	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B277	10/05/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B277	10/05/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B277	04/03/2012	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
B277	04/03/2012	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
B278	09/16/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B278	09/16/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B278	04/19/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B278	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B278	10/05/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B278	10/05/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B278	04/05/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B278	04/05/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B280A	09/16/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B280A	09/16/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B280A	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B280A	04/14/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B280A	10/06/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B280A	10/06/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B280A	04/03/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B280A	04/03/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
B280B	10/01/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B280B	10/01/2010	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B280B	04/14/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B280B	04/14/2011	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
B280B	10/06/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B280B	10/06/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B280B	04/03/2012	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
B280B	04/03/2012	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
B300	09/09/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 UJ	0.9 U	0.9 U	0.9 U
B300	09/09/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
B300	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B300	04/15/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B300	10/06/2011	NA	97 U	97 U	NA	97 U	97 U	97 U	NA	NA	NA	97 U	97 U	190 U	97 U	NA	97 U
B300	10/06/2011	0.5 U	NA	NA	0.5 U	NA	NA	NA	NA	0.5 U	0.5 U	NA	NA	NA	NA	0.5 U	NA
B300	04/09/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B300	04/09/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B38	09/15/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B38	09/15/2010	0.05 UJ	NA	NA	0.05 UJ	NA	NA	NA	NA	0.05 UJ	0.05 UJ	NA	NA	NA	NA	0.05 UJ	NA
B38	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B38	04/19/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B38	04/19/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B38	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B38	10/06/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B38	10/06/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B38	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B38	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
B450	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B450	04/19/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B450	10/10/2011	NA	9.6 UJ	9.6 UJ	NA	9.6 UJ	9.6 UJ	9.6 UJ	NA	NA	NA	9.6 UJ	9.6 UJ	19 UJ	9.6 UJ	NA	9.6 UJ
B450	10/10/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B450	04/06/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B450	04/06/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B460	09/15/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B460	09/15/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B460	04/20/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B460	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B460	10/07/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B460	10/07/2011	NA	9.6 U	9.6 U	NA	9.6 U	9.6 U	9.6 U	NA	NA	NA	9.6 U	9.6 U	19 U	9.6 U	NA	9.6 U
B460	04/06/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B460	04/06/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B473	09/24/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B473	09/24/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B473	04/20/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B473	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B473	10/07/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B473	10/07/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B473	04/06/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B473	04/06/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
B474	09/23/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B474	09/23/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B474	04/20/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B474	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B474	10/07/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B474	10/07/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B474	04/09/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B474	04/09/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B480	09/24/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B480	09/24/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B480	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B480	04/19/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B480	10/07/2011	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
B480	10/07/2011	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
B480	04/09/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B480	04/09/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B490	09/16/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
B490	09/16/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
B490	04/20/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B490	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B490	10/10/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
B490	10/10/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B490	04/09/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
B490	04/09/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA

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Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
BULB1	10/19/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
BULB1	10/19/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 UJ	0.9 U	0.9 U	0.9 U
BULB1	04/12/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
BULB1	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
BULB1	09/30/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
BULB1	09/30/2011	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
BULB1	04/05/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
BULB1	04/05/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
BULB2	10/19/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
BULB2	10/19/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
BULB2	04/12/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
BULB2	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
BULB2	09/30/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
BULB2	09/30/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
BULB2	04/05/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
BULB2	04/05/2012	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
CCC1	09/08/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
CCC1	09/08/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
CCC1	04/14/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCC1	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC1	10/05/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCC1	10/05/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CCC1	04/10/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCC1	04/10/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

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CCC2	09/08/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
CCC2	09/08/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.8 U	1 U	1 U	1 U
CCC2	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC2	04/14/2011	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
CCC2	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCC2	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CCC2	04/10/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCC2	04/10/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CCC3	09/03/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
CCC3	09/03/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
CCC3	09/03/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
CCC3	09/03/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
CCC3	04/12/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCC3	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC3	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCC3	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CCC3	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CCC3	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCC3	04/10/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CCC3	04/10/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
CCCT	09/03/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
CCCT	09/03/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
CCCT	04/18/2011	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
CCCT	04/18/2011	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
CCCT	10/03/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCCT	10/03/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CCCT	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CCCT	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CTP	09/30/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
CTP	09/30/2010	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
CTP	09/30/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
CTP	09/30/2010	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
CTP	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CTP	04/14/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CTP	10/06/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CTP	10/06/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CTP	04/03/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CTP	04/03/2012	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
CTPS	10/01/2010	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6 UJ	1.2 U	1.2 U	1.2 U
CTPS	10/18/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
CTPS	04/19/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CTPS	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CTPS	10/07/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
CTPS	10/10/2011	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
CTPS	04/05/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
CTPS	04/05/2012	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
DH	09/30/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
DH	09/30/2010	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
DH	04/14/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
DH	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
DH	10/05/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
DH	10/05/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
DH	04/05/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
DH	04/06/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
EERC	10/01/2010	1 U	1 U	1 U	1 U	1 U	0.6 J	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
EERC	10/15/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
EERC	04/20/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
EERC	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EERC	10/07/2011	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
EERC	10/07/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
EERC	04/06/2012	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
EERC	04/06/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
EPA	09/16/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
EPA	09/16/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
EPA	04/19/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
EPA	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EPA	10/06/2011	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
EPA	10/06/2011	NA	9.8 U	9.8 U	NA	9.8 U	9.8 U	9.8 U	NA	NA	NA	9.8 U	9.8 U	20 U	9.8 U	NA	9.8 U
EPA	04/06/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.04 J	0.03 J	NA	NA	NA	NA	0.09 U	NA
EPA	04/06/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
EPA	04/06/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
EPA	04/06/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
ETA	09/24/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.041 J	0.17	NA	NA	NA	NA	0.05 U	NA
ETA	09/24/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 UJ	0.9 U	0.9 U	0.9 U
ETA	09/24/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.035 J	0.16	NA	NA	NA	NA	0.05 U	NA
ETA	09/24/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
ETA	04/12/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
ETA	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
ETA	09/30/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
ETA	09/30/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
ETA	04/10/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
ETA	04/10/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
ETA	04/10/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
ETA	04/10/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
EXT	09/30/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
EXT	09/30/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
FG	09/23/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
FG	09/23/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
FG	04/19/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
FG	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
FG	04/19/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
FG	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
FG	10/10/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
FG	10/10/2011	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
FG	04/09/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
FG	04/09/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

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GEO	09/03/2010	0.047 U	NA	NA	0.047 U	NA	NA	NA	NA	0.047 U	0.047 U	NA	NA	NA	NA	0.047 U	NA
GEO	09/03/2010	0.9 U	0.9 U	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
GEO	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
GEO	04/20/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
GEO	10/06/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
GEO	10/06/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
GEO	04/06/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
GEO	04/06/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
MFA	09/24/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
MFA	09/24/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
MFA	04/12/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
MFA	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
MFA	10/03/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
MFA	10/03/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
MFA	04/05/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
MFA	04/05/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
NRLF	09/16/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.8 UJ	1 U	1 U	1 U
NRLF	09/16/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
NRLF	04/20/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
NRLF	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
NRLF	10/06/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
NRLF	10/06/2011	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
NRLF	04/09/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
NRLF	04/09/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
OBS6	09/30/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
OBS6	09/30/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

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University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
PZ11	10/01/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
PZ11	10/01/2010	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
PZ11	04/20/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
PZ11	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ11	10/10/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
PZ11	10/10/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
PZ11	04/05/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
PZ11	04/05/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
PZ8	10/15/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
PZ8	10/15/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
PZ8	04/18/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
PZ8	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ8	10/04/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
PZ8	10/04/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
PZ8	04/03/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
PZ8	04/03/2012	NA	9.7 UJ	9.7 UJ	NA	9.7 UJ	9.7 UJ	9.7 UJ	NA	NA	NA	9.7 UJ	9.7 UJ	19 UJ	9.7 UJ	NA	9.7 UJ
PZ9	09/24/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
PZ9	09/24/2010	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
PZ9	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ9	04/20/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
PZ9	10/07/2011	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
PZ9	10/07/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
PZ9	10/07/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
PZ9	10/07/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
PZ9	04/06/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
PZ9	04/06/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
RWF	09/15/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
RWF	09/15/2010	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
RWF	04/18/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
RWF	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
RWF	10/06/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
RWF	10/06/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
RWF	04/04/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
RWF	04/04/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
TP1	09/29/2010	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
TP1	09/29/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
TP1	04/18/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
TP1	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
TP1	10/07/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
TP1	10/07/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
TP1	04/05/2012	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
TP1	04/05/2012	NA	9.5 U	9.5 U	NA	9.5 U	9.5 U	9.5 U	NA	NA	NA	9.5 U	9.5 U	19 U	9.5 U	NA	9.5 U
TP2	09/29/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
TP2	09/29/2010	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U
TP2	04/18/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
TP2	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
TP2	10/07/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
TP2	10/07/2011	0.1 U	NA	NA	0.1 U	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	0.1 U	NA
TP2	04/09/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
TP2	04/09/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
TP2	04/09/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
TP2	04/09/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	Chrysene	Di-N-Butylphthalate	Di-N-Octylphthalate	Dibenz(A,H)Anthracene	Dibenzofuran	Diethylphthalate	Dimethylphthalate	Diphenyl Amine	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-Cd)Pyrene	Isophorone
WTA	09/30/2010	0.05 U	NA	NA	0.05 U	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.05 U	NA
WTA	09/30/2010	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 UJ	1 U	1 U	1 U
WTA	04/14/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
WTA	04/14/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
WTA	10/05/2011	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA
WTA	10/05/2011	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
WTA	04/05/2012	NA	9.4 U	9.4 U	NA	9.4 U	9.4 U	9.4 U	NA	NA	NA	9.4 U	9.4 U	19 U	9.4 U	NA	9.4 U
WTA	04/05/2012	0.09 U	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	NA	0.09 U	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
B120	09/09/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B120	09/09/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
B120	04/15/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B120	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B120	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B120	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B120	04/03/2012	9.6 U	9.6 U	9.6 U	NA	9.6 U	19 U	NA	9.6 U	NA
B120	04/03/2012	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
B121	09/08/2010	NA	NA	NA	0.048 U	NA	NA	0.048 U	NA	0.048 U
B121	09/08/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
B121	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B121	04/13/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B121	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B121	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B121	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B121	04/04/2012	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
B128	09/23/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B128	09/23/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B128	09/23/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B128	09/23/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B128	04/18/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B128	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B128	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B128	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B128	04/02/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B128	04/02/2012	9.6 U	9.6 U	9.6 U	NA	9.6 U	19 U	NA	9.6 U	NA

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SVOC AND PAH (µg/L)

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B150	09/08/2010	1 U	NA	NA	1 U	1 U	4.8 U	1 U	4.8 U	1 U
B150	09/08/2010	NA	NA	NA	0.048 U	NA	NA	0.048 U	NA	0.048 U
B150	04/13/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B150	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B150	10/05/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B150	10/05/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B150	10/05/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B150	10/05/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B150	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B150	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B150	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B150	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B158	09/08/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B158	09/08/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B158	04/15/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B158	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B158	10/05/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B158	10/05/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B158	04/06/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B158	04/06/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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SVOC AND PAH (µg/L)

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B163	09/02/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B163	09/02/2010	1 UJ	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B163	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B163	04/12/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B163	10/03/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B163	10/03/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B163	04/02/2012	9.6 U	9.6 U	9.6 U	NA	9.6 U	19 U	NA	9.6 U	NA
B163	04/02/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B175S	09/03/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B175S	09/03/2010	0.9 UJ	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
B175S	04/13/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B175S	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B175S	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B175S	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B175S	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B175S	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B175W	09/08/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B175W	09/08/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B175W	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B175W	04/13/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B175W	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B175W	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B175W	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B175W	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
B177	09/23/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B177	09/23/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
B177	04/18/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B177	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B177	10/05/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B177	10/05/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B177	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B177	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B178	09/02/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B178	09/02/2010	1 UJ	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B178	04/15/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B178	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B178	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B178	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B178	04/03/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B178	04/03/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B180	09/15/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B180	09/15/2010	1 U	NA	NA	1 U	1 U	4.8 U	1 U	4.8 U	1 U
B180	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B180	04/13/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B180	10/06/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B180	10/06/2011	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
B180	10/06/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B180	10/06/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B180	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B180	04/04/2012	9.7 U	9.7 U	9.7 U	NA	9.7 U	19 U	NA	9.7 U	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
B185	09/02/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B185	09/02/2010	0.9 UJ	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
B185	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B185	04/15/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.02 J
B185	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B185	04/15/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B185	10/03/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B185	10/03/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B185	10/03/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B185	10/03/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B185	04/02/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B185	04/02/2012	9.6 U	9.6 U	9.6 U	NA	9.6 U	19 U	NA	9.6 U	NA
B194	09/09/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B194	09/09/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
B194	04/13/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B194	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B194	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B194	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B194	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B194	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
B195	09/09/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B195	09/09/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
B195	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B195	04/13/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B195	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B195	04/13/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B195	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B195	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B195	04/03/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B195	04/03/2012	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
B197	09/09/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B197	09/09/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
B197	09/09/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B197	09/09/2010	1 U	NA	NA	1 U	1 U	4.8 U	1 U	4.8 U	1 U
B197	04/13/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B197	04/13/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B197	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B197	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B197	04/03/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B197	04/03/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B197	04/03/2012	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
B197	04/03/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
B277	09/15/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B277	09/15/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B277	04/18/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B277	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B277	10/05/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B277	10/05/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B277	04/03/2012	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
B277	04/03/2012	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
B278	09/16/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B278	09/16/2010	1 U	NA	NA	1 U	1 UJ	5 U	1 U	5 U	1 U
B278	04/19/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B278	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B278	10/05/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B278	10/05/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B278	04/05/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B278	04/05/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B280A	09/16/2010	NA	NA	NA	0.035 J	NA	NA	0.05 U	NA	0.05 U
B280A	09/16/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B280A	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B280A	04/14/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B280A	10/06/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B280A	10/06/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B280A	04/03/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B280A	04/03/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
B280B	10/01/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B280B	10/01/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B280B	04/14/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B280B	04/14/2011	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
B280B	10/06/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B280B	10/06/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B280B	04/03/2012	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
B280B	04/03/2012	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
B300	09/09/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
B300	09/09/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
B300	04/15/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B300	04/15/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B300	10/06/2011	97 U	97 U	97 U	NA	97 U	190 U	NA	97 U	NA
B300	10/06/2011	NA	NA	NA	0.5 U	NA	NA	0.5 U	NA	0.5 U
B300	04/09/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B300	04/09/2012	NA	NA	NA	0.02 J	NA	NA	0.09 U	NA	0.09 U
B38	09/15/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B38	09/15/2010	NA	NA	NA	0.05 UJ	NA	NA	0.05 UJ	NA	0.05 UJ
B38	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B38	04/19/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B38	04/19/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B38	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B38	10/06/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B38	10/06/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B38	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B38	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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B450	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B450	04/19/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B450	10/10/2011	9.6 UJ	9.6 UJ	9.6 UJ	NA	9.6 UJ	19 UJ	NA	9.6 UJ	NA
B450	10/10/2011	NA	NA	NA	0.02 J	NA	NA	0.09 U	NA	0.09 U
B450	04/06/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B450	04/06/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B460	09/15/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B460	09/15/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B460	04/20/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 UJ
B460	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B460	10/07/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B460	10/07/2011	9.6 U	9.6 U	9.6 U	NA	9.6 U	19 U	NA	9.6 U	NA
B460	04/06/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B460	04/06/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B473	09/24/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B473	09/24/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B473	04/20/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B473	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B473	10/07/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B473	10/07/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B473	04/06/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B473	04/06/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
B474	09/23/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B474	09/23/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B474	04/20/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B474	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B474	10/07/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B474	10/07/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B474	04/09/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B474	04/09/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B480	09/24/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B480	09/24/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B480	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B480	04/19/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B480	10/07/2011	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
B480	10/07/2011	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
B480	04/09/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B480	04/09/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B490	09/16/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
B490	09/16/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
B490	04/20/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B490	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
B490	10/10/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
B490	10/10/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B490	04/09/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
B490	04/09/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
BULB1	10/19/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
BULB1	10/19/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
BULB1	04/12/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
BULB1	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
BULB1	09/30/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
BULB1	09/30/2011	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
BULB1	04/05/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
BULB1	04/05/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
BULB2	10/19/2010	NA	NA	NA	0.19	NA	NA	0.05 U	NA	0.05 U
BULB2	10/19/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
BULB2	04/12/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
BULB2	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
BULB2	09/30/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
BULB2	09/30/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
BULB2	04/05/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
BULB2	04/05/2012	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
CCC1	09/08/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
CCC1	09/08/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
CCC1	04/14/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCC1	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC1	10/05/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCC1	10/05/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CCC1	04/10/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCC1	04/10/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
CCC2	09/08/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
CCC2	09/08/2010	1 U	NA	NA	1 U	1 U	4.8 U	1 U	4.8 U	1 U
CCC2	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC2	04/14/2011	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
CCC2	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCC2	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CCC2	04/10/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCC2	04/10/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CCC3	09/03/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
CCC3	09/03/2010	0.9 UJ	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
CCC3	09/03/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
CCC3	09/03/2010	0.9 UJ	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
CCC3	04/12/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCC3	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CCC3	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCC3	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CCC3	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CCC3	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCC3	04/10/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CCC3	04/10/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
CCCT	09/03/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
CCCT	09/03/2010	0.9 UJ	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
CCCT	04/18/2011	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
CCCT	04/18/2011	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U	19 U	9.5 U	9.5 U	9.5 U
CCCT	10/03/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCCT	10/03/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CCCT	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CCCT	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CTP	09/30/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
CTP	09/30/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
CTP	09/30/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
CTP	09/30/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
CTP	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CTP	04/14/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CTP	10/06/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CTP	10/06/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CTP	04/03/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CTP	04/03/2012	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
CTPS	10/01/2010	1.2 U	NA	NA	1.2 U	1.2 U	6 U	1.2 U	6 U	1.2 U
CTPS	10/18/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
CTPS	04/19/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CTPS	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
CTPS	10/07/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
CTPS	10/10/2011	NA	NA	NA	0.02 J	NA	NA	0.1 U	NA	0.1 U
CTPS	04/05/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
CTPS	04/05/2012	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA

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Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
DH	09/30/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
DH	09/30/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
DH	04/14/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
DH	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
DH	10/05/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
DH	10/05/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
DH	04/05/2012	NA	NA	NA	0.03 J	NA	NA	0.09 U	NA	0.09 U
DH	04/06/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
EERC	10/01/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
EERC	10/15/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
EERC	04/20/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
EERC	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EERC	10/07/2011	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
EERC	10/07/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
EERC	04/06/2012	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
EERC	04/06/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
EPA	09/16/2010	NA	NA	NA	0.042 J	NA	NA	0.05 U	NA	0.05 U
EPA	09/16/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
EPA	04/19/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
EPA	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
EPA	10/06/2011	NA	NA	NA	0.02 J	NA	NA	0.1 U	NA	0.1 U
EPA	10/06/2011	9.8 U	9.8 U	9.8 U	NA	9.8 U	20 U	NA	9.8 U	NA
EPA	04/06/2012	NA	NA	NA	0.4	NA	NA	0.02 J	NA	0.02 J
EPA	04/06/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
EPA	04/06/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
EPA	04/06/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
ETA	09/24/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.088
ETA	09/24/2010	0.9 U	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
ETA	09/24/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.074
ETA	09/24/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
ETA	04/12/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
ETA	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
ETA	09/30/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.04 J
ETA	09/30/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
ETA	04/10/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.03 J
ETA	04/10/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
ETA	04/10/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.03 J
ETA	04/10/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
EXT	09/30/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
EXT	09/30/2011	NA	NA	NA	0.04 J	NA	NA	0.09 U	NA	0.09 U
FG	09/23/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
FG	09/23/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
FG	04/19/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
FG	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
FG	04/19/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
FG	04/19/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
FG	10/10/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
FG	10/10/2011	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
FG	04/09/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
FG	04/09/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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GEO	09/03/2010	NA	NA	NA	0.047 U	NA	NA	0.047 U	NA	0.047 U
GEO	09/03/2010	0.9 UJ	NA	NA	0.9 U	0.9 U	4.7 U	0.9 U	4.7 U	0.9 U
GEO	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
GEO	04/20/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 UJ
GEO	10/06/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
GEO	10/06/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
GEO	04/06/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
GEO	04/06/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
MFA	09/24/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
MFA	09/24/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
MFA	04/12/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
MFA	04/12/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
MFA	10/03/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
MFA	10/03/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
MFA	04/05/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
MFA	04/05/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
NRLF	09/16/2010	1 U	NA	NA	1 U	1 U	4.8 U	1 U	4.8 U	1 U
NRLF	09/16/2010	NA	NA	NA	0.029 J	NA	NA	0.05 U	NA	0.05 U
NRLF	04/20/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 UJ
NRLF	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
NRLF	10/06/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
NRLF	10/06/2011	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
NRLF	04/09/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
NRLF	04/09/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
OBS6	09/30/2011	NA	NA	NA	0.04 J	NA	NA	0.09 U	NA	0.09 U
OBS6	09/30/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
PZ11	10/01/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
PZ11	10/01/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
PZ11	04/20/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
PZ11	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ11	10/10/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
PZ11	10/10/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
PZ11	04/05/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
PZ11	04/05/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
PZ8	10/15/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
PZ8	10/15/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
PZ8	04/18/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
PZ8	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ8	10/04/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
PZ8	10/04/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
PZ8	04/03/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
PZ8	04/03/2012	9.7 UJ	9.7 UJ	9.7 UJ	NA	9.7 UJ	19 UJ	NA	9.7 UJ	NA
PZ9	09/24/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
PZ9	09/24/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
PZ9	04/20/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
PZ9	04/20/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 UJ
PZ9	10/07/2011	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
PZ9	10/07/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
PZ9	10/07/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
PZ9	10/07/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
PZ9	04/06/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
PZ9	04/06/2012	9.4 U	9.4 U	9.4 U	NA	9.4 UJ	19 U	NA	9.4 U	NA

ATTACHMENT 6: SUMMARY OF COMPLETE ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Technical Memorandum: Sampling Results for Phase I Groundwater Sampling, Field Sampling Workplan
University of California, Berkeley, Richmond Field Station, Richmond, California

SVOC AND PAH (µg/L)

Location ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitrosodimethylamine	N-Nitrosodiphenylamine(1)	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
RWF	09/15/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
RWF	09/15/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
RWF	04/18/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
RWF	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
RWF	10/06/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
RWF	10/06/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
RWF	04/04/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
RWF	04/04/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
TP1	09/29/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
TP1	09/29/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.036 UJ
TP1	04/18/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
TP1	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
TP1	10/07/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
TP1	10/07/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
TP1	04/05/2012	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
TP1	04/05/2012	9.5 U	9.5 U	9.5 U	NA	9.5 U	19 U	NA	9.5 U	NA
TP2	09/29/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
TP2	09/29/2010	1 U	NA	NA	1 U	1 U	5 U	1 U	5 U	1 U
TP2	04/18/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
TP2	04/18/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
TP2	10/07/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
TP2	10/07/2011	NA	NA	NA	0.1 U	NA	NA	0.1 U	NA	0.1 U
TP2	04/09/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
TP2	04/09/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
TP2	04/09/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
TP2	04/09/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA

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SVOC AND PAH (µg/L)

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WTA	09/30/2010	NA	NA	NA	0.05 U	NA	NA	0.05 U	NA	0.05 U
WTA	09/30/2010	1 U	NA	NA	1 U	1 UJ	5 U	1 U	5 U	1 U
WTA	04/14/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
WTA	04/14/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
WTA	04/14/2011	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	19 U	9.4 U	9.4 U	9.4 U
WTA	10/05/2011	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U
WTA	10/05/2011	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
WTA	04/05/2012	9.4 U	9.4 U	9.4 U	NA	9.4 U	19 U	NA	9.4 U	NA
WTA	04/05/2012	NA	NA	NA	0.09 U	NA	NA	0.09 U	NA	0.09 U

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Location ID	Sample Date	PCBs (µg/L)										PESTICIDES (µg/L)					
		Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC
B120	09/09/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.09 J	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 UJ	0.05 U	0.05 U	0.05 U
B121	09/08/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B128	09/23/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B128	09/23/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B150	09/08/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B158	09/08/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
B163	09/02/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B175S	09/03/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B175W	09/08/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B177	09/23/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
B178	09/02/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B180	09/15/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B185	09/02/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B194	09/09/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 UJ	0.05 U	0.05 U	0.05 U
B195	09/09/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.1 U	0.1 U	0.1 U	0.05 UJ	0.05 U	0.05 U	0.05 U
B197	09/09/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.1 U	0.1 U	0.1 U	0.05 UJ	0.05 U	0.05 U	0.05 U
B197	09/09/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 UJ	0.05 U	0.05 U	0.05 U
B277	09/15/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B278	09/16/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B280A	09/16/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B280B	10/01/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B300	09/09/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 UJ	0.05 U	0.05 U	0.05 U
B38	09/15/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B460	09/15/2010	0.2 UJ	0.4 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B473	09/24/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B474	09/23/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U

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		Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC
B480	09/24/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
B490	09/16/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
BULB1	10/19/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
BULB2	10/19/2010	0.19 UJ	0.38 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
CCC1	09/08/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
CCC2	09/08/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
CCC3	09/03/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
CCC3	09/03/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
CCCT	09/03/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
CTP	09/30/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
CTP	09/30/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
CTPS	09/30/2010	0.22 UJ	0.44 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	0.22 UJ	NA	NA	NA	NA	NA	NA	NA
CTPS	10/18/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U	0.11 U	0.11 U	0.05 U	0.05 U	0.05 U	0.05 U
DH	09/30/2010	0.2 UJ	0.4 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
EERC	10/01/2010	0.2 UJ	0.4 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	NA	NA	NA	NA	NA	NA	NA
EERC	10/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
EPA	09/16/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
ETA	09/24/2010	0.2 UJ	0.4 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
ETA	09/24/2010	0.2 UJ	0.4 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
EXT	09/30/2011	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U
FG	09/23/2010	0.2 UJ	0.4 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
GEO	09/03/2010	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
MFA	09/24/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
NRLF	09/16/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
OBS6	09/30/2011	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U
PZ11	10/01/2010	0.19 UJ	0.38 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U

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		Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC
PZ8	10/15/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
PZ9	09/24/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
RWF	09/15/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
TP1	09/29/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U
TP2	09/29/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U
WTA	09/30/2010	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U

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PESTICIDES (µg/L)

Location ID	Sample Date	Chlordane	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Gamma-BHC (Lindane)	Gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
B120	09/09/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
B121	09/08/2010	4.8 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.48 U	4.8 U
B128	09/23/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B128	09/23/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B150	09/08/2010	4.8 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.48 U	4.8 U
B158	09/08/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
B163	09/02/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B175S	09/03/2010	4.8 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.48 U	4.8 U
B175W	09/08/2010	4.8 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.48 U	4.8 U
B177	09/23/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
B178	09/02/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B180	09/15/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B185	09/02/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B194	09/09/2010	NA	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	NA
B195	09/09/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B197	09/09/2010	4.8 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.48 U	4.8 U
B197	09/09/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
B277	09/15/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B278	09/16/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B280A	09/16/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B280B	10/01/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B300	09/09/2010	NA	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	NA
B38	09/15/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B460	09/15/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B473	09/24/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U

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PESTICIDES (µg/L)

Location ID	Sample Date	Chlordane	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Gamma-BHC (Lindane)	Gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
B474	09/23/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B480	09/24/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
B490	09/16/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
BULB1	10/19/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
BULB2	10/19/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
CCC1	09/08/2010	4.8 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.48 U	4.8 U
CCC2	09/08/2010	4.8 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.48 U	4.8 U
CCC3	09/03/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
CCC3	09/03/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
CCCT	09/03/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
CTP	09/30/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
CTP	09/30/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
CTPS	09/30/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTPS	10/18/2010	5.5 U	0.05 U	0.11 U	0.05 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.05 U	0.05 U	0.05 U	0.05 U	0.55 U	5.5 U
DH	09/30/2010	4.8 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.48 U	4.8 U
EERC	10/01/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EERC	10/15/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
EPA	09/16/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
ETA	09/24/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
ETA	09/24/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
EXT	09/30/2011	NA	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	1 U
FG	09/23/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
GEO	09/03/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
MFA	09/24/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
NRLF	09/16/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U

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PESTICIDES (µg/L)

Location ID	Sample Date	Chlordane	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Gamma-BHC (Lindane)	Gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
OBS6	09/30/2011	NA	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	0.9 U
PZ11	10/01/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
PZ8	10/15/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
PZ9	09/24/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
RWF	09/15/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
TP1	09/29/2010	4.7 U	0.05 U	0.09 U	0.05 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.05 U	0.05 U	0.05 U	0.05 U	0.47 U	4.7 U
TP2	09/29/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U
WTA	09/30/2010	5 U	0.05 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	5 U

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Location ID	Sample Date	TPH (mg/kg)			MISCELLANEOUS		
		Diesel	Motor Oil	Gasoline	Perchlorate (ug/L)	Hardness (mg/kg)	TDS (mg/kg)
B120	09/09/2010	0.24 U	0.95 U	0.07 Z	2 U	1000	1900
B120	04/15/2011	0.05 U	0.3 U	0.086	NA	NA	2510
B120	10/04/2011	0.013 J	0.3 U	0.1 YZ	NA	NA	2230
B120	04/03/2012	0.05 U	0.3 U	0.097 UJ	NA	NA	2190
B121	09/08/2010	0.25 U	1 U	0.05 U	2 U	280	520
B121	04/13/2011	0.05 UJ	0.3 U	0.05 UJ	NA	NA	520
B121	10/04/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	530
B121	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	510
B128	09/23/2010	0.25 U	1 U	0.05 U	2 U	360	800
B128	09/23/2010	0.25 U	1 U	0.05 U	2 U	320	970
B128	04/18/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	500
B128	10/04/2011	0.028 J	0.3 U	0.05 UJ	NA	NA	560
B128	04/02/2012	0.05 UJ	0.3 U	0.05 UJ	NA	NA	440
B128DEEP	10/15/2010	NA	NA	NA	2 U	NA	440
B150	09/08/2010	0.24 U	0.95 U	0.05 U	2 U	150	290
B150	04/13/2011	0.05 UJ	0.3 U	0.05 UJ	NA	NA	220
B150	10/05/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	290
B150	10/05/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	280
B150	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	150
B150	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	190
B158	09/08/2010	0.24 U	0.95 U	0.05 U	2 U	21	200
B158	04/15/2011	0.05 U	0.3 U	0.05 U	NA	NA	180
B158	10/05/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	310
B158	04/06/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	200
B163	09/02/2010	0.2 ZJ	1 U	0.046 ZJ	2 U	1500	2900
B163	04/12/2011	0.05 U	0.3 U	0.064 Y	NA	NA	2820
B163	10/03/2011	0.011 J	0.3 U	0.062 Z	NA	NA	2860
B163	04/02/2012	0.05 UJ	0.3 U	0.05 UJ	NA	NA	2700

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Location ID	Sample Date	TPH (mg/kg)			MISCELLANEOUS		
		Diesel	Motor Oil	Gasoline	Perchlorate (ug/L)	Hardness (mg/kg)	TDS (mg/kg)
B175S	09/03/2010	0.24 U	0.95 U	0.05 U	2 U	310	590
B175S	04/13/2011	0.053 UJ	0.3 U	0.05 UJ	NA	NA	580
B175S	10/04/2011	0.017 J	0.3 U	0.05 UJ	NA	NA	540
B175S	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	550
B175W	09/08/2010	0.25 U	1 U	0.05 U	2 U	92	270
B175W	04/13/2011	0.052 UJ	0.3 U	0.012 UJ	NA	NA	270
B175W	10/04/2011	0.051 Y	0.091 J	0.05 UJ	NA	NA	290
B175W	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	210
B177	09/23/2010	0.24 U	0.95 U	0.05 U	2 U	71	190
B177	04/18/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	250
B177	10/05/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	200
B177	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	270
B178	09/02/2010	0.25 U	1 U	0.063 Z	1.9 J	990	1800
B178	04/15/2011	0.05 U	0.3 U	0.073 UJ	NA	NA	2050
B178	10/04/2011	0.05 U	0.3 U	0.12 YZ	NA	NA	1810
B178	04/03/2012	0.011 J	0.3 U	0.094 UJ	NA	NA	2190
B180	09/15/2010	0.25 U	1 U	0.05 U	2 U	35	360
B180	04/13/2011	0.05 UJ	0.3 U	0.05 UJ	NA	NA	330
B180	10/06/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	350
B180	10/06/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	350
B180	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	260
B185	09/02/2010	0.12 ZJ	0.95 U	0.036 ZJ	3.1	920	1700
B185	04/15/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	1630
B185	04/15/2011	0.05 U	0.3 U	0.062 UJ	NA	NA	1610
B185	10/03/2011	0.05 U	0.3 U	0.055 YZ	NA	NA	1670
B185	10/03/2011	0.05 U	0.3 U	0.048 J	NA	NA	1630
B185	04/02/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	1670

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		Diesel	Motor Oil	Gasoline	Perchlorate (ug/L)	Hardness (mg/kg)	TDS (mg/kg)
B194	09/09/2010	0.24 U	0.95 U	0.05 U	2 U	300	670
B194	04/13/2011	0.05 UJ	0.3 U	0.05 UJ	NA	NA	660
B194	10/04/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	630
B194	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	570
B195	09/09/2010	0.24 U	0.95 U	0.059 ZJ	2 U	830	1600
B195	04/13/2011	0.05 UJ	0.3 U	0.05 UJ	NA	NA	570
B195	04/13/2011	0.05 UJ	0.3 U	0.051 Z	NA	NA	550
B195	10/04/2011	0.05 U	0.3 U	0.15 YZ	NA	NA	1610
B195	04/03/2012	0.05 U	0.3 U	0.088 UJ	NA	NA	790
B197	09/09/2010	0.25 U	1 U	0.073 Z	2 U	830	1500
B197	09/09/2010	0.24 U	0.95 U	0.074 Z	2 U	830	1500
B197	04/13/2011	0.05 UJ	0.3 U	0.1 YZ	NA	NA	2170
B197	10/04/2011	0.05 U	0.3 U	0.11 YZ	NA	NA	1560
B197	04/03/2012	0.05 U	0.3 U	0.092 UJ	NA	NA	2290
B197	04/03/2012	0.05 U	0.3 U	0.095 UJ	NA	NA	2240
B277	09/15/2010	0.25 U	1 U	0.05 U	2 U	230	400
B277	04/18/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	450
B277	10/05/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	400
B277	04/03/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	420
B278	09/16/2010	0.25 U	1 U	0.05 U	2 U	1300	2300
B278	04/19/2011	0.05 U	0.3 U	0.019 J	NA	NA	2050 J
B278	10/05/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	2250
B278	04/05/2012	0.01 J	0.3 U	0.05 UJ	NA	NA	NA
B280A	09/16/2010	0.25 U	1 U	0.05 U	2 U	290	510
B280A	04/14/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	430
B280A	10/06/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	510
B280A	04/03/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	540

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Location ID	Sample Date	TPH (mg/kg)			MISCELLANEOUS		
		Diesel	Motor Oil	Gasoline	Perchlorate (ug/L)	Hardness (mg/kg)	TDS (mg/kg)
B280B	10/01/2010	0.25 U	1 U	0.05 U	2 U	230	650
B280B	04/14/2011	0.05 U	0.3 U	0.05 U	NA	NA	580
B280B	10/06/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	530
B280B	04/03/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	490
B300	09/09/2010	0.24 U	0.95 U	0.05 U	2 U	720	1100
B300	04/15/2011	0.05 U	0.3 U	0.05 U	NA	NA	2480
B300	10/06/2011	0.33 Y	0.3 U	0.21 YZ	NA	NA	580
B300	04/09/2012	0.0086 J	0.3 U	0.05 UJ	NA	NA	1680
B38	09/15/2010	0.25 U	1 U	0.05 U	2 U	170	310
B38	04/19/2011	0.05 U	0.3 U	0.05 U	NA	NA	350
B38	04/19/2011	0.05 U	0.3 U	0.05 U	NA	NA	350
B38	10/06/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	290
B38	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	240
B38DEEP	10/18/2010	NA	NA	NA	2 U	NA	350
B450	04/19/2011	0.013 J	0.3 U	0.018 J	NA	NA	610
B450	10/10/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	120
B450	04/06/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	770
B460	09/15/2010	0.25 U	1 U	0.05 U	2 U	150	290
B460	04/20/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	320
B460	10/07/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	320
B460	04/06/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	270
B473	09/24/2010	0.25 U	1 U	0.05 U	2 U	170	460
B473	04/20/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	590
B473	10/07/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	350
B473	04/06/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	300

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		Diesel	Motor Oil	Gasoline	Perchlorate (ug/L)	Hardness (mg/kg)	TDS (mg/kg)
B474	09/23/2010	0.37 ZJ	1 U	0.049 ZJ	2 U	160	430
B474	04/20/2011	0.05 U	0.3 U	0.05 U	NA	NA	420
B474	10/07/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	130
B474	04/09/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	250
B480	09/24/2010	0.25 U	1 U	0.05 U	2 U	320	670
B480	04/19/2011	0.014 J	0.3 U	0.019 J	NA	NA	620
B480	10/07/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	490
B480	04/09/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	640
B480DEEP	10/15/2010	NA	NA	NA	2 U	NA	360
B490	09/16/2010	0.25 U	1 U	0.05 U	2 U	350	540
B490	04/20/2011	0.05 U	0.3 U	0.05 U	NA	NA	560
B490	10/10/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	270
B490	04/09/2012	0.008 J	0.3 U	0.05 UJ	NA	NA	550
BULB1	10/19/2010	0.24 U	0.94 U	0.038 J	40 U	4400	25000
BULB1	04/12/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	22800
BULB1	09/30/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	27600
BULB1	04/05/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	NA
BULB2	10/19/2010	0.17 ZJ	1 U	0.077	10 U	1100	5900
BULB2	04/12/2011	0.0078 J	0.3 U	0.05 UJ	NA	NA	1530
BULB2	09/30/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	930
BULB2	04/05/2012	0.013 J	0.3 U	0.05 UJ	NA	NA	NA
CCC1	09/08/2010	0.24 U	0.95 U	0.05 U	2 U	140	440
CCC1	04/14/2011	0.05 UJ	0.3 U	0.05 U	NA	NA	520
CCC1	10/05/2011	0.012 J	0.3 U	0.05 UJ	NA	NA	510
CCC1	04/10/2012	0.049 U	0.29 U	0.05 UJ	NA	NA	640

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		Diesel	Motor Oil	Gasoline	Perchlorate (ug/L)	Hardness (mg/kg)	TDS (mg/kg)
CCC2	09/08/2010	0.25 U	1 U	0.05 U	2 U	250	630
CCC2	04/14/2011	0.05 UJ	0.3 U	0.05 U	NA	NA	1990
CCC2	10/04/2011	0.014 J	0.3 U	0.05 UJ	NA	NA	770
CCC2	04/10/2012	0.049 U	0.29 U	0.05 UJ	NA	NA	1140
CCC3	09/03/2010	0.24 U	0.95 U	0.05 U	2 U	360	730
CCC3	09/03/2010	0.25 U	1 U	0.05 U	2 U	350	710
CCC3	04/12/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	720
CCC3	10/04/2011	0.018 J	0.3 U	0.05 UJ	NA	NA	700
CCC3	10/04/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	710
CCC3	04/10/2012	0.049 U	0.29 U	0.05 UJ	NA	NA	740
CCCT	09/03/2010	0.24 U	0.94 U	0.038 ZJ	1.6 J	590	1100
CCCT	04/18/2011	0.05 U	0.3 U	0.055 UJ	NA	NA	1110
CCCT	10/03/2011	0.05 U	0.3 U	0.046 JYZ	NA	NA	1120
CCCT	04/04/2012	0.05 U	0.3 U	0.054 UJ	NA	NA	1240
CTP	09/30/2010	0.25 U	1 U	0.05 U	2 U	240	490
CTP	09/30/2010	0.25 U	1 U	0.05 U	2 U	240	500
CTP	04/14/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	480
CTP	10/06/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	480
CTP	04/03/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	540
CTPDEEP	10/15/2010	NA	NA	NA	2 U	NA	370
CTPS	09/30/2010	NA	NA	0.05 U	NA	610	NA
CTPS	04/19/2011	0.05 U	0.3 U	0.013 J	NA	NA	520
CTPS	10/07/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	500
CTPS	04/05/2012	0.013 J	0.3 U	0.05 UJ	NA	NA	NA

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		Diesel	Motor Oil	Gasoline	Perchlorate (ug/L)	Hardness (mg/kg)	TDS (mg/kg)
DH	09/30/2010	0.25 U	1 U	0.05 U	4 U	2700	5500
DH	04/14/2011	0.05 UJ	0.3 U	0.05 UJ	NA	NA	5350
DH	10/05/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	7480
DH	04/05/2012	NA	NA	0.05 UJ	NA	NA	NA
DH	04/06/2012	0.0085 J	0.3 U	NA	NA	NA	4580
EERC	10/01/2010	0.16 J	1 U	0.05 U	NA	2500	NA
EERC	10/15/2010	NA	NA	NA	4 U	NA	4800
EERC	04/20/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	4260
EERC	10/07/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	3530
EERC	04/06/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	4190
EPA	09/16/2010	0.25 U	1 U	0.05 U	2 U	380	710
EPA	04/19/2011	0.05 U	0.3 U	0.013 J	NA	NA	950
EPA	10/06/2011	0.012 UJ	0.3 U	0.05 UJ	NA	NA	950
EPA	04/06/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	1050
EPA	04/06/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	1100
ETA	09/24/2010	0.12 J	1 U	0.05 U	2 U	630	1300
ETA	09/24/2010	0.12 J	1 U	0.05 U	2 U	620	1300
ETA	04/12/2011	0.014 J	0.3 U	0.05 UJ	NA	NA	1410
ETA	09/30/2011	0.014 J	0.3 U	0.05 UJ	NA	NA	1290
ETA	04/10/2012	0.049 U	0.29 U	0.05 UJ	NA	NA	1510
ETA	04/10/2012	0.049 U	0.29 U	0.05 UJ	NA	NA	1510
EXT	09/30/2011	0.014 J	0.3 U	0.05 UJ	NA	NA	240
FG	09/23/2010	0.25 U	1 U	0.05 U	2 U	820	1300
FG	04/19/2011	0.05 U	0.3 U	0.021 J	NA	NA	590
FG	04/19/2011	0.05 U	0.3 U	0.016 J	NA	NA	580
FG	10/10/2011	0.05 UJ	0.3 UJ	0.05 UJ	NA	NA	800
FG	04/09/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	500

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		Diesel	Motor Oil	Gasoline	Perchlorate (ug/L)	Hardness (mg/kg)	TDS (mg/kg)
GEO	09/03/2010	0.24 U	0.95 U	0.05 U	2 U	270	510
GEO	04/20/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	560
GEO	10/06/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	520
GEO	04/06/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	570
MFA	09/24/2010	0.25 U	1 U	0.05 U	2 U	440	900
MFA	04/12/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	640
MFA	10/03/2011	0.036 J	0.3 U	0.05 UJ	NA	NA	930
MFA	04/05/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	NA
NRLF	09/16/2010	0.12 ZJ	1 U	0.041 ZJ	2 U	230	400
NRLF	04/20/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	560
NRLF	10/06/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	420
NRLF	04/09/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	430
OBS6	09/30/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	360
PZ11	10/01/2010	0.25 U	1 U	0.31 ZJ	2 U	1400	2500
PZ11	04/20/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	2930
PZ11	10/10/2011	0.05 U	0.3 U	0.21 YZJ	NA	NA	3090
PZ11	04/05/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	NA
PZ8	10/15/2010	0.25 U	1 U	0.05 U	2 UJ	270	510
PZ8	04/18/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	480
PZ8	10/04/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	540
PZ8	04/03/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	560
PZ9	09/24/2010	0.25 U	1 U	0.05 U	2 U	240	400
PZ9	04/20/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	370
PZ9	10/07/2011	0.05 U	0.13 J	0.05 UJ	NA	NA	340
PZ9	10/07/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	330
PZ9	04/06/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	450

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		Diesel	Motor Oil	Gasoline	Perchlorate (ug/L)	Hardness (mg/kg)	TDS (mg/kg)
RWF	09/15/2010	0.24 U	0.95 U	0.05 U	2 U	430	720
RWF	04/18/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	780
RWF	10/06/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	760
RWF	04/04/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	720
TP1	09/29/2010	0.24 U	0.95 U	0.05 U	2 U	410	720
TP1	04/18/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	1770
TP1	10/07/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	750
TP1	04/05/2012	0.013 J	0.3 U	0.05 UJ	NA	NA	NA
TP2	09/29/2010	0.25 U	1 U	0.05 U	2 U	510	830
TP2	04/18/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	810
TP2	10/07/2011	0.031 J	0.3 U	0.05 UJ	NA	NA	800
TP2	04/09/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	820
TP2	04/09/2012	0.05 U	0.3 U	0.05 UJ	NA	NA	790
WTA	09/30/2010	0.25 U	1 U	0.05 U	2 U	550	1000
WTA	04/14/2011	0.05 UJ	0.3 U	0.05 U	NA	NA	1020
WTA	04/14/2011	0.05 UJ	0.3 U	0.05 UJ	NA	NA	1010
WTA	10/05/2011	0.05 U	0.3 U	0.05 UJ	NA	NA	1050
WTA	04/05/2012	0.0099 J	0.3 U	0.05 UJ	NA	NA	NA

Notes:	BHC	Hexachlorocyclohexane	mg/L	Milligrams per liter	TPH	Total Petroleum Hydrocarbons
	DDD	Dichlorodiphenyldichloroethane	NA	Not analyzed	U	Nondetect
	DDE	Dichlorodiphenyldichloroethene	PAH	Polycyclic aromatic hydrocarbon	VOC	Volatile Organic Compounds
	DDT	Dichlorodiphenyltrichloroethane	PCB	Polychlorinated biphenyl	Z	Chromatographic pattern does not resemble TPH fuel pattern (individual peaks)
	J	Estimated value	SVOC	Semivolatile Organic Compounds	ug/L	Micrograms per liter