CORRECTIVE ACTION MONITORING REPORT
2008 SECOND SEMIANNUAL EVENT

FORMER HOUSTON WOOD PRESERVING WORKS
4910 LIBERTY ROAD
HOUSTON, TEXAS

January 15, 2009

Prepared for:

Mr. Geoffrey Reeder, P.G.
UNION PACIFIC RAILROAD COMPANY

24125 Aldine Westfield Road
Spring, Texas 77373

Prepared by:

PASTOR, BEHLING & WHEELER, LLC

2201 Double Creek Drive, Suite 4004
Round Rock, Texas 78664
(512) 671-3434

PBW Project No. 1358

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

1.0 EXECUTIVE SUMMARY

This semi-annual report presents a summary and evaluation of the Corrective Action Groundwater Monitoring for the Closed Surface Impoundment (Solid Waste Management Unit No. 1) at the former Wood Preserving Works facility (the Site) located in Houston, Texas. The groundwater monitoring activities for this period were performed by Delta Environmental Consultants, Inc. (Delta) in July 2008.

The two uppermost groundwater bearing units, the A-Transmissive Zone (A-TZ) and the B-Transmissive Zone (B-TZ), were monitored during this period. Groundwater elevation data collected during the July 2008 sampling event show groundwater flow to the west in the A-TZ with a hydraulic gradient of approximately 0.005. A-TZ groundwater flow direction is similar to the groundwater flow direction observed during the January 2008 first semi-annual monitoring event.

Groundwater elevation data collected in the B-TZ show groundwater flow to the west-southwest with a hydraulic gradient of approximately 0.004. Groundwater flow in the B-TZ zone is similar to the flow direction observed during previous monitoring events.

Analytical results from the July 2008 sampling event were compared to Texas Commission on Environmental Quality Texas Risk Reduction Program Protective Concentration Limits, as designated in Section IV.D of the Compliance Plan, dated June 10, 2005. Constituent concentrations were below their respective PCLs for the sixth consecutive semi-annual monitoring event. Monitoring wells in both the A-TZ and B-TZ are considered to be compliant for this monitoring period.

2.0 INTRODUCTION

This semi-annual report presents a summary and evaluation of groundwater monitoring data collected during the 2008 second semi-annual monitoring period (July through December) at the former Houston Wood Preserving Works facility (the Site) located at 4910 Liberty Road in Houston, Texas (Figure 1). Semi-annual groundwater monitoring is required for the Site as a condition of the Texas Commission on Environmental Quality (TCEQ) Hazardous Waste Permit No. 50343 and associated Compliance Plan (CP) No. 50343, both renewed and issued on June 10, 2005. Groundwater monitoring at the Site is performed to monitor groundwater quality beneath the Closed Surface Impoundment Unit No. 001 (Solid Waste Management Unit (SWMU) No. 1).

Delta Environmental Consultants, Inc. (Delta) conducted groundwater monitoring activities at the Site on July 16, 2008. Groundwater monitoring activities included sampling and gauging the background and point of compliance (POC) wells and piezometers associated with SWMU No. 1. The sampling event, analytical data, and data evaluation provided in this report fulfill the semi-annual corrective action reporting requirements for the second half of 2008 as described in the CP, Section VII.C.2. This section requires the following reporting elements:

Semi-Annual Corrective Action Report Requirements	Report Section, Table(s) and/or Figure(s)
A narrative summary of the evaluations made in accordance with CP Sections V, VI, and VII for the preceding six-month period. These periods shall be January 1 through June 30 and July 1 through December 31 (VII.C.2.a.)	3.0
Summary of Methods utilized for management of recovered/purged water (VII.C.2.b.)	3.2
An updated table and map of the monitoring and corrective action system wells (VII.C.2.c.)	Section 3.1.1 and Figure 2
The results of the chemical analyses, submitted in a tabulated format in a form acceptable to the Executive Director, which clearly indicates each parameter that exceeds the Groundwater Protection Standard (GWPS). Copies of the original laboratory report for chemical analyses showing detection limits and quality control and quality assurance data shall be provided if requested by the Executive Director (VII.C.2.d.)	Tables 1 & 2 Appendix C
Tabulation of the water level elevations (relative to mean sea level), depth to water measurements, and total depth of well measurements collected since the data that was submitted in the previous semiannual report (VII.C.2.e.)	Table 4
Potentiometric surface maps showing the elevation of the water table at the time of sampling and direction of groundwater flow gradients (VII.C.2.f.)	Figures 3 & 4
A notation of the presence or absence of non-aqueous phase liquids (NAPLs), both light and dense phases, in each well during each sampling event since the last event covered in the previous semiannual report and tabulation of depth and thickness of NAPLs, if detected (VII.C.2.g.)	Table 4

Semi-Annual Corrective Action Report Requirements (cont'd)	Report Section, Table(s) and/or Figure(s)
Quarterly tabulations of quantities of recovered groundwater and NAPLs, and graphs of monthly recorded flow rates versus time for the recovery wells during each period. A narrative summary describing and evaluating the NAPL recovery program shall also be included (VII.C.2.h.)	Not Applicable
Tabulation of the total contaminant mass recovered from each recovery system for each reporting period, if such a system is installed (VII.C.2.i.)	Not Applicable
Tabulation of the data evaluation results pursuant to Section VI.D and status of each well listed on CP Table V with regard to compliance with the corrective action objectives and compliance with the GWPSs (VII.C.2.j.)	Table 5
Maps of the contaminated area depicting concentrations of constituents listed in Table IV and any newly detected Table III constituents as isopleths contours or discrete concentrations if isopleths contours cannot be inferred (VII.C.2.k.)	Not Applicable
Maps indicating the extent and thickness of the LNAPLs and DNAPLs, if detected (VII.C.2.l.)	Not Detected
An updated schedule summary as required by Section X (VII.C.2.m.)	Appendix D
Summary of any changes made to the monitoring/corrective action program and a summary of recovery well inspections, repairs, and any operational difficulties (VII.C.2.n.)	None
A table of the modifications and amendments made to this Compliance Plan with their corresponding approval dates by the executive director or the Commission and a brief description of each action (VII.C.2.o.)	None
Corrective Measures Implementation (CMI) Report to be submitted in accordance with Section VIII.F, if necessary (VII.C.2.p.)	Not Applicable
Tabulation of well casing elevations in accordance with Attachment B No. 16 (VII.C.2.q.)	Table 4
Recommendation for any changes (VII.C.2.r.)	None
Certification and well installation diagram for any new well installation or replacement and certification for any well plugging and abandonment (VII.C.2.s.)	Not Applicable
A summary of any activity within an area subject to institutional control (VII.C.2.t.)	None
Any other items requested by the Executive Director (VII.C.2.u.)	None

As of December 2008, a recovery system had not been installed at this facility. Therefore, Provisions 8, 9, and 10 that relate to recovery wells or recovery system, are not applicable to this reporting period.

Responses to each of the semi-annual report provisions required by CP Section VII.C.2 are provided in Section 3.0. Conclusions and recommendations are provided in Section 4.0.

3.0 2008 SECOND SEMI-ANNUAL GROUNDWATER MONITORING EVENT

A discussion of each of the semi-annual report provisions required by CP Section VII.C.2, are presented below by reference number to the list of provisions in Section 2.0.

3.1 Narrative Summary of Second Semi-annual Monitoring Activities

The CP requires an evaluation of the Corrective Action Program (Section V) and Groundwater Monitoring Program summarizing the overall effectiveness of the Corrective Action Program (Section VI). This narrative summary includes provisions for response and reporting requirements as detailed in the CP Section VII, as discussed below.

3.1.1 Corrective Action Program

Groundwater samples were collected from the Background and POC wells (as detailed in CP Table V, which is provided in Appendix A) to assess potentially affected groundwater quality in the A-Transmissive Zone (A-TZ) and the B-Transmissive Zone (B-TZ). These water-bearing zones are defined as:

- A-TZ refers to the first sand unit encountered at approximately 13 feet below ground surface (bgs) and averages 7 feet in thickness; and
- B-TZ refers to the second sand unit encountered at approximately 30 feet bgs and averages 9 feet in thickness.

The definitions of the A-TZ and B-TZ are consistent with the Uppermost Transmissive Zone (UTZ) and Second Transmissive Zone (STZ), respectively, as defined in CP Provision I.A.

The following monitoring wells were sampled during this event (Figure 2):

- A-TZ POC wells: MW-01A, MW-02, MW-07, MW-10A, and MW-11A;
- A-TZ Background well: MW-08;
- B-TZ POC wells: MW-10B, MW-11B, and P-10; and
- B-TZ background well: P-12.

3.1.2 Groundwater Monitoring

Delta performed quarterly well inspections and semi-annual groundwater sampling activities on July 16, 2008. Groundwater sampling was performed using procedures outlined in a U.S. Environmental Protection Agency (EPA) document titled *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (EPA/540/S-95/504) published in April 1996 and approved in the CP application. Groundwater samples were analyzed for the Detected Hazardous and Solid Waste Constituents listed in the CP, Table III (Appendix A).

Monitoring wells are equipped with dedicated polytetrafluoroethylene (PTFE) tubing for groundwater sampling. A Master-Flex® peristaltic pump was used to collect the groundwater samples. An approximate one-foot section of disposable silicon tubing was placed around the pump head and attached to the PTFE tubing for proper operation of the pump. Groundwater was pumped from the screened interval of each well at a flow rate of less than 0.5 L/min using a flow-through cell, field parameters including temperature, pH, specific conductivity, dissolved oxygen, and turbidity were measured during purging and sampling activities. When field parameters had stabilized to the EPA-specified criteria, a sample was then collected for analysis. The samples were also collected at a flow rate of less than 0.5 L/min. Recorded field parameters are summarized in Appendix B.

For each well, sample bottles were filled directly from the pumping apparatus described above, and were sealed and packed in coolers with sufficient ice to maintain a sample temperature of approximately 4°C. The sample coolers were delivered to TestAmerica Laboratory, in Houston, Texas for analysis. Chain-of-Custody (COC) forms were completed and kept with their respective samples. Copies of the analytical data and COCs are included in Appendix C. Groundwater samples were then analyzed for the Detected Hazardous and Solid Waste Constituents listed in the CP, Table III (Appendix A).

3.2 Purge Water Management

Approximately 3.5 gallons of purge water was generated during the July 2008 low-flow groundwater sampling event. The purge water was containerized in a Department of Transportation (DOT) certified, 55-gallon steel drum and temporarily stored on site in a fenced and locked container storage area (NOR 006). Since the groundwater sampled and analyzed during this event did not contain hazardous constituents above the applicable health-based levels (i.e. PCLs discussed in Section 3.10), the purge water generated was not considered hazardous in accordance with the EPA "contained-in determination"

detailed in the 1986 EPA memorandum "RCRA Regulatory Status of Contaminated Groundwater". However, purge water and associated personal protective equipment (PPE) were disposed of at US Ecology Texas LP in Robstown, Texas on November 20, 2008 under water codes 0909101H and 0915301H, respectively.

3.3 Monitoring and Corrective Action System Wells

A summary of the current monitoring and corrective action groundwater wells is discussed in Section 3.1.1. Configuration of the current monitoring and corrective action well network is presented on Figure 2.

3.4 Analytical Results

The 2008 second semi-annual groundwater analytical results from the A-TZ and B-TZ are summarized in Tables 1 and 2, respectively and the laboratory analytical report is provided in Appendix C. The analytical results were compared to the Detected Hazardous and Solid Waste Constituent limits, which are taken from the TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Protective Concentration Levels (PCLs). TRRP PCLs serve as the Groundwater Protection Standard (GWPS), as detailed in Section IV.D and Table III of the CP. If any concentrations exceeded the concentration limits of this report, the concentration is bolded within the table.

Quality assurance/quality control (QA/QC) samples (field blank, matrix spike and matrix spike duplicate results) are summarized in Table 3.

3.5 Well Measurements

During the sampling event, the following information was recorded at each monitoring well:

Before Sampling

- The presence of light NAPLs was evaluated; and
- Depth to groundwater below the top of casing was measured to the nearest 0.01 foot.

After Sampling

- The presence of dense non-aqueous phase liquids (DNAPLs) were evaluated using visual observations and an oil-water interface probe; and
- Total well depths of the wells were measured.

Table 4 provides a summary of these measurements. None of the compliance wells had measurable amounts or any indication of LNAPL or DNAPL.

3.6 Potentiometric Surface Maps

Groundwater elevation data recorded during the 2008 second semi-annual monitoring event were used to create potentiometric surface maps of the A-TZ and B-TZ, presented on Figures 3 and 4, respectively.

Groundwater elevation data collected during the July 2008 sampling event show groundwater flow in the A-TZ to the west with a hydraulic gradient of approximately 0.005. A-TZ groundwater flow direction is similar to the flow direction observed during the January 2008 first semi-annual monitoring event.

Groundwater elevation data collected in the B-TZ show groundwater flow to the west-southwest with a hydraulic gradient of approximately 0.004. Groundwater flow in the B-TZ zone is similar to the flow direction observed during previous monitoring events.

3.7 Non-Aqueous Phase Liquids

Measurable amounts of LNAPL and/or DNAPL were not observed in any of the compliance wells.

3.8 Recovered Groundwater and NAPL

To date, a recovery system has not been installed at the SWMU No. 1; therefore, this provision is not applicable.

3.9 Contaminant Mass Recovered

To date, a recovery system has no been installed at the SWMU No. 1; therefore, this provision is not applicable.

3.10 Analytical Data Evaluation

Section VI.D of the CP describes two methods which may be used to determine the compliance status of a given well:

1) Analytical results may be either directly compared with PCLs (CP Table III; included in Appendix A), or
2) Analytical results can be statistically compared PCLs using the Confidence Interval Procedure for the mean concentration based on normal, log-normal, or non-parametric distribution, which the 95% confidence coefficient of the t-distribution will be used in construction of the confidence interval.

Direct comparison to PCLs was used to evaluate the analytical data. Tables 1 and 2 show the results of a direct comparison of data for this sampling event to the respective PCLs. Wells and piezometers are in compliance if each of the constituents listed in the CP Table III was reported at a concentration less than or equal to the PCL. Based on the analytical results from the July 2008 monitoring event the compliance wells completed in both transmissive zones are compliant with groundwater results below their respective PCLs; therefore the monitoring wells are considered to be compliant for this monitoring period. Compliance status for each of the monitoring wells is provided in Table 5.

Monitoring wells in A-TZ and B-TZ have not exceeded the established CP PCLs since July 2005, at which time dibenzofuran exceeded its respective PCL of 0.098 mg/L in MW-01A (0.11 mg/L). Including the 2008 second semi-annual analytical data, the SMWU No. 1 monitoring wells have been compliant for six consecutive semi-annual monitoring events (three years).

A QA/QC review and Data Usability Summary (DUS) were prepared for the July 2008 analytical data. Analytical results were flagged based on the data validation review of the QA/QC samples.

The following samples were qualified as *Estimated (J) or (UJ)*:

- MW-02, MW-07, and MW-08 for Acenaphthene
- MW-02 for Anthracene
- MW-01A, DUP-01, MW-10A, MW-10B, P-10, DUP-02, and P-12 for Bis(2-ethylhexyl)phthalate

- P-10 for Fluoranthene;
- MW-07 and MW-08 for Phenanthrene; and
- MW-02 for Pyrene.

The following samples were qualified as *Estimated Low (UJL)*:

- P-10, P-12, DUP-02, MW-10B, and MW-11B for Phenol.

The following samples were qualified as *Blank Affected (U)*:

- P-10, DUP-02, and P-12 for Di-n-butyl phthalate;
- MW-07, P-10, DUP-01, MW-08, P-12, DUP-02, and MW-02 for Naphthalene.

A DUS for the laboratory analyses is included in Appendix C, and validated qualifiers were added to the data tables (Tables 1 and 2). Based on the QA/QC data review, the analytical data are usable for the intended use.

3.11 Reported Concentration Maps

Reported concentrations of each constituent analyzed for the 2008 Second Semi-Annual Groundwater Monitoring Event are presented on Figures 5 and 6 for the A-TZ and B-TZ compliance wells, respectively. In the event a constituent exceeded their respective PCL, the value would be highlighted on the figures. There were no exceedances of PCLs for any of the required constituents.

3.12 Extent of NAPL

Measurable amounts of LNAPL or DNAPL were not detected in any of the compliance wells.

3.13 Updated Compliance Schedule

Section X of the CP requires that the Permittee submit a schedule summarizing the activities required by the Compliance Plan issued on June 10, 2005, which was originally submitted to the TCEQ on August 4, 2004. An updated compliance schedule is included as Appendix D of this report.

3.14 Summary of Changes Made to Corrective Action Program

No changes have been made to the corrective action program.

3.15 Modifications and Amendments to Compliance Plan

A compliance plan renewal application was submitted to TCEQ on December 23, 2003 consistent with the renewal requirements for the RCRA permit at the site. The RCRA permit and CP were issued June 10, 2005. There have been no modifications or amendments to the Compliance Plan since the last permit issued.

3.16 Corrective Measures Implementation (CMI) Report

A Response Action Plan (RAP) has not been submitted; therefore, this provision does not apply.

3.17 Well Casing Elevations

Top-of-casing elevations referenced to feet above Mean Sea Level (MSL) for each compliance monitoring well are summarized in Table 4.

3.18 Recommendation for Changes

There are no recommendations for changes to the monitoring program or to the Corrective Action Program.

3.19 Well Installation and/or Abandonment

No monitoring wells were installed or abandoned as part of the monitoring program or the Corrective Action Program during the reporting period.

3.20 Activity Within Area Subject to Institutional Control

No areas are under institutional control; therefore, this provision does not apply.

3.21 Other Requested Items

No other items have been requested by the executive director.

TABLES

Table 1
Summary of Analytical Results for the A-Transmissive Zone (A-TZ)
Semiannual Monitoring Report: 2008 Second Semiannual Event

Houston Wood Preserving Works
Houston, Texas

Analyte	PCL (mg/L)	Monitoring Well IDs (Concentrations mg/L)																			
		MW-01A			DUP-01			MW-02			MW-07			MW-08			MW-10A			MW-11A		
		7/16/2008	LQ	VQ	7/16/2008	LQ	VQ	7/16/2008	LQ	VQ	7/16/2008	LQ	VQ	7/16/2008	LQ	VQ	7/16/2008	LQ	VQ	7/16/2008	LQ	VQ
Acenaphthene	1.5	0.126			0.119			0.0218			<0.00029	U		<0.0003	U		<0.00029	U		0.02		
Acenaphthylene	1.5	0.00143			0.00135			0.0003	J	J	0.00044	J	J	0.00044	J	J	<0.00029	U		<0.0003	U	
Anthracene	7.3	0.00267			0.00232			0.00042	J	J	0.000982			0.000669			<0.00019	U		0.00054		
bis(2-ethylhexyl)phthalate	0.006	0.00137	J	J	0.00126	J	J	<0.00019	U		<0.00019	U		<0.0002	U		0.0002	J	J	<0.0002	U	
Dibenzofuran	0.098	0.00774		J	0.00163		J	0.00673			<0.00029	U		<0.0003	U		<0.00029	U		<0.0003	U	
Fluoranthene	0.98	0.00923			0.00836			0.000961			<0.00019	U		<0.0002	U		<0.00019	U		0.00387		
Fluorene	0.98	0.0659			0.0551			0.0103			<0.00019	U		<0.0002	U		<0.00019	U		0.00089		
2-Methylnaphthalene	0.098	0.0109		J	0.00224		J	<0.00039	U		<0.00039	U		<0.0004	U		<0.00038	U		<0.0004	U	
Naphthalene	0.49	0.0168	b	J	0.00312		U	0.00118		U	0.000675	b	U	0.000654		U	<0.00038	U	UJL	<0.0004	U	UJL
Phenanthrene	0.73	0.00177			0.000783			<0.00019	U		0.00036	J	J	0.00036	J	J	<0.00019	U		<0.0002	U	
Pyrene	0.73	0.00417			0.00375			0.000450	J	J	<0.00019	U		<0.0002	U		<0.00019	U		0.00184		

Notes:
PCL = Protective Concentration Level
The Compliance Plan Section IV.D defines the Groundwater Protection Standard (GWPS) as the PCL
DUP-01= Duplicate sample collected at MW-01A

LQ - Lab Qualifier
J = Estimated value between the SDL and the MDL
U = Value not detected greater than the MDL
b = Targen analyte was found in Method Blank

VQ - Validation Qualifier
J = Estimated data; The reported sample concentration is approximate due to the exceedance of one or more QC requirements
UJ = Estimated data; The analyte was not detected above the reported sample detecteion limit (SDL) however, the SDL is approximate due to exceedance of one or more QC requirements
L = Bias in sample result is likely to be low

Table 2
Summary of Analytical Results for the B-Transmissive Zone (B-TZ)
Semiannual Monitoring Report: 2008 Second Semiannual Event

Houston Wood Preserving Works
Houston, Texas

Analyte	PCL (mg/L)	Monitoring Well IDs (Concentrations mg/L)														
		MW-10B			MW-11B			P-10			DUP-02			P-12		
		7/16/2008	LQ	VQ	7/16/2008	LQ	VQ	7/16/2008	LQ	VQ	7/16/2008	LQ	VQ	7/16/2008	LQ	VQ
Acenaphthene	1.5	0.0975			0.12			0.0106			<0.0003	U		<0.0003	U	
Acenaphthylene	1.5	0.00113			0.00126			0.00053			<0.0003	U		<0.0003	U	
Anthracene	7.3	0.00484			0.00472			0.000747			0.000566			0.000552		
bis(2-ethylhexyl)phthalate	0.006	0.0002	J	J	<0.00021	U		0.00022	J	J	0.00064	J	J	0.00034	J	J
Dibenzofuran	0.098	0.0392			0.0649			0.00176			<0.0003	U		<0.0003	U	
Di-n-butyl phthalate	2.4	<0.0002	U		<0.00021	U		0.00092	Jb	U	0.00087	Jb	U	0.00085	Jb	U
Fluoranthene	0.98	0.00397			0.00383			0.00022	J		<0.0002	U		<0.0002	U	
Fluorene	0.98	0.0457			0.0578			0.00245		J	<0.0002	U		<0.0002	U	
Naphthalene	0.49	0.014		JL	0.0772		JL	0.00079	b	U	0.000639	b	U	0.000626		U
Phenol	7.3	<0.0002	U	UJL	<0.00021	U	UJL	<0.00021	U	UJL	<0.0002	U	UJL	<0.0002	U	UJL
Pyrene	0.73	0.00174			0.00163			<0.00021	U		0.00166			0.00211		

Notes:
PCL = Protective Concentration Level
The Compliance Plan Section IV.D defines the Groundwater Protection Standard (GWPS) as the PCL
DUP-02 = Duplicate sample collected at P-12

LQ - Lab Qualifier
J = Estimated value between the SDL and the MDL
U = Value not detected greater than the MDL
b = Targen analyte was found in Method Blank

VQ - Validation Qualifier
J = Estimated data; The reported sample concentration is approximate due to the exceedance of one or more QC requirements
UJ = Estimated data; The analyte was not detected above the reported sample detecteion limit (SDL) however, the SDL is approximate due to exceedance of one or more QC requirements
L = Bias in sample result is likely to be low

Table 3
Summary of Analytical Results for Quality Assurance/Quality Control Samples
Semiannual Monitoring Report: 2008 Second Semiannual Event

Houston Wood Preserving Works
Houston, Texas

Analyte	PCL (mg/L)	Sample IDs (Concentrations mg/L)					
		FB-01		P-12(MS)[1]		P-12(MSD)[1]	
		Field Blank		Matrix Spike		Matrix Spike Duplicate	
		7/16/2008		7/16/2008		7/16/2008	
Acenaphthene	1.5	<0.00033	U	0.00756		0.00664	
Acenaphthylene	1.5	<0.00033	U	0.00715		0.00603	
Anthracene	7.3	<0.00022	U	0.00699		0.00726	
bis(2-ethylhexyl)phthalate	0.006	<0.00022	U	0.00606		0.00651	
Dibenzofuran	0.098	<0.00033	U	0.008		0.00727	
Di-n-butyl phthalate	2.4	0.00096	Jb	0.00775		0.00847	
Fluoranthene	0.98	<0.00022	U	0.00849		0.009	
Fluorene	0.98	<0.00022	U	0.00769		0.0073	
2-Methylnaphthalene	0.098	<0.00044	U	NA		NA	
Naphthalene	0.49	0.000689	b	0.0063		0.00567	
Phenanthrene	0.73	<0.00022	U	NA		NA	
Phenol	7.3	<0.00022	U	0.00298		0.00286	
Pyrene	0.73	<0.00022	U	0.00962		0.00998	

Notes:
PCL = Protective Concentration Level
(1) = P-12(MS) and P-12(MSD) are matrix spike and matrix spike duplicate samples collected at P-12, respectively.
U = Not detected above the Method Detection Limit
NA = not analyzed
J = Estimated value between the SDL and MDL
b = Target analyte was found in Method Blank

Table 4
Water Level Measurements
Semiannual Monitoring Report: 2008 First Semiannual Event

Houston Wood Preserving Works
Houston, Texas

Well ID	Top of Casing Elevation (TOC) (ft MSL)	Date Measured	Water Depth (ft. BTOC)	Depth to NAPL (ft. BTOC)	Total Well Depth as Completed (ft. BTOC)	Total Well Depth (ft. BTOC)	Potentiometric Elevation (ft. MSL)
A-TZ Monitoring Locations							
MW-01A	47.92	7/16/2008	7.21	ND	20.2	19.9	40.71
MW-02	47.97	7/16/2008	7.72	ND	20.3	20.2	40.25
MW-07	48.86	7/16/2008	7.94	ND	NA	24.8	40.92
MW-08	49.33	7/16/2008	8.32	ND	26.8	25.7	41.01
MW-10A	49.86	7/16/2008	9.31	ND	25.9	25.6	40.55
MW-11A	50.05	7/16/2008	9.25	ND	24.4	24.1	40.80
B-TZ Monitoring Locations							
MW-10B	49.94	7/16/2008	9.42	ND	48.8	48.35	40.52
MW-11B	50.18	7/16/2008	9.49	ND	46.8	47.10	40.69
P-10	47.69	7/16/2008	6.91	ND	40.0	43.89	40.78
P-12	48.78	7/16/2008	6.78	ND	40.0	43.36	42.00

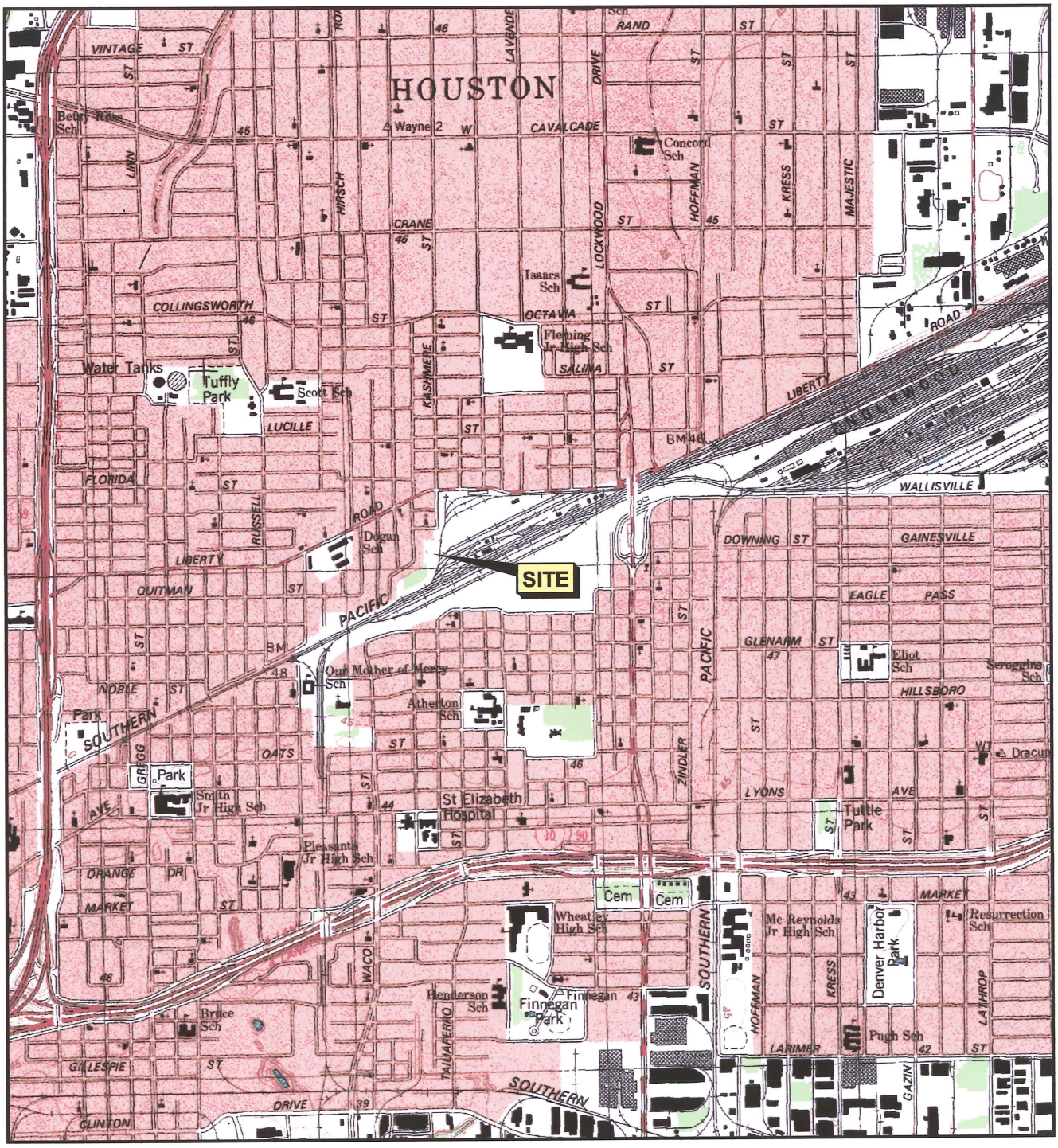
Notes
BTOC = feet below the top of the well casing
ft. MSL = feet above Mean Sea Level
NA = Information not available
ND = Not Detected

Table 5
Compliance Status of Wells and Piezometers
Semiannual Monitoring Report: 2008 First Semiannual Event

Houston Wood Preserving Works
Houston, Texas

Zone	Monitoring Well Location	Well Designation	Compliance Status
A-TZ Monitoring Location	MW-01A	Point of Compliance	Compliant
	MW-02	Point of Compliance	Compliant
	MW-07	Point of Compliance	Compliant
	MW-08	Background Well	Compliant
	MW-10A	Point of Compliance	Compliant
	MW-11A	Point of Compliance	Compliant
B-TZ Monitoring Location	MW-10B	Point of Compliance	Compliant
	MW-11B	Point of Compliance	Compliant
	P-10	Point of Compliance	Compliant
	P-12	Background Well	Compliant

FIGURES



QUADRANGLE LOCATION

N

Scale in Feet

0 1000 2000

Source:
U.S.G.S. 7.5 minute quadrangle, Settegast, Texas, 1982.

UNION PACIFIC RAILROAD CO.

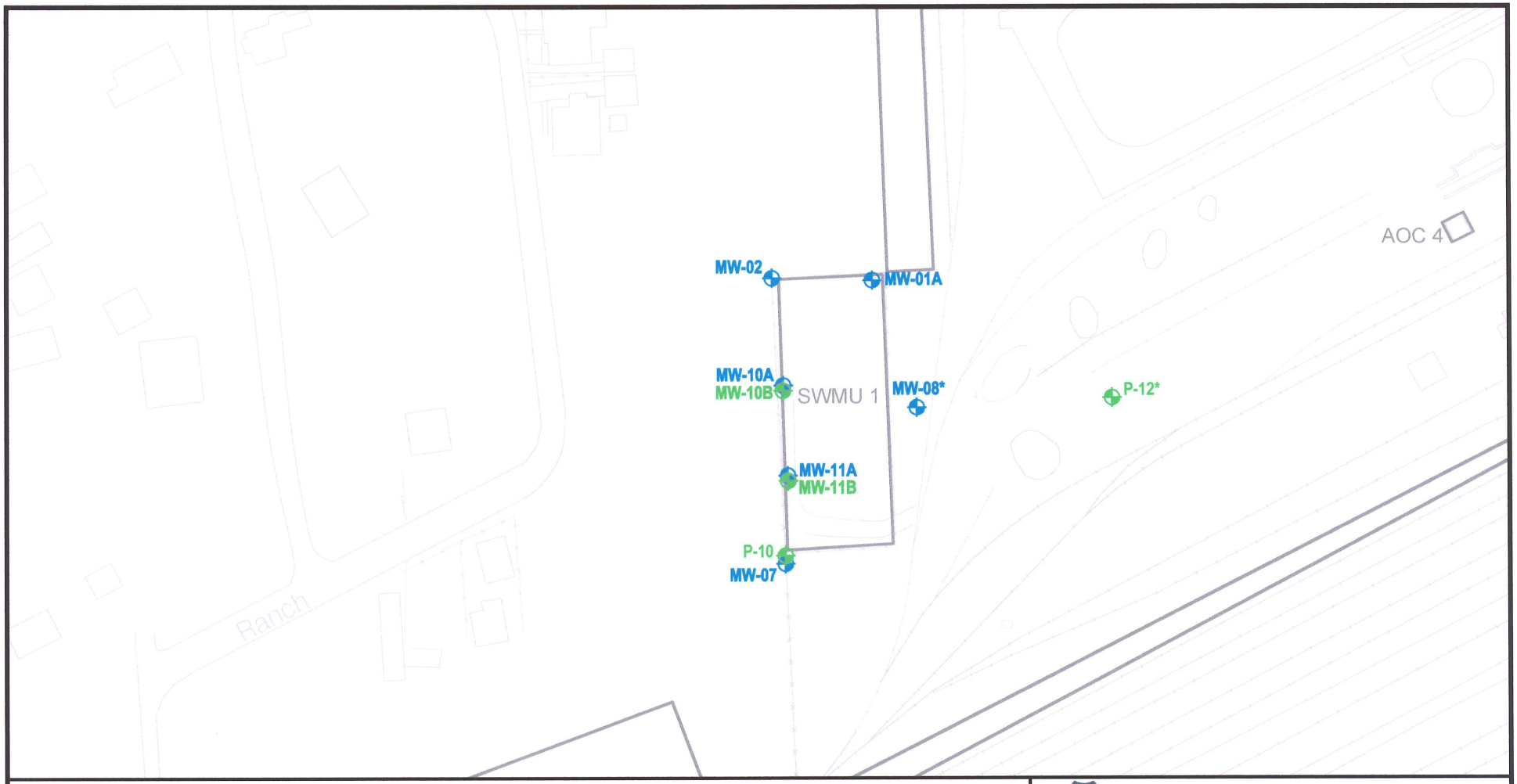
HOUSTON WOOD PRESERVING WORKS

Figure 1

SITE LOCATION MAP

PROJECT: 1358	BY: ZGK	REVISIONS
DATE: DEC., 2008	CHECKED: ECM	

PASTOR, BEHLING & WHEELER, LLC
CONSULTING ENGINEERS AND SCIENTISTS



EXPLANATION

- Road, Parking Lot, Sidewalk
- Fence
- Railroad
- Zone A Monitoring Well Location
- Zone B Monitoring Well Location

Note:
* Background well.

STATE OF TEXAS
ERIC C. MATZNER
GEOLOGY
LIC. # 795
LICENSED
PROFESSIONAL GEOSCIENTIST

N

Approx. Scale in Feet

0 60 120

Source:
Base map from ERM-Southwest, Inc
0014419a310.dwg, 6/19/2006.

UNION PACIFIC RAILROAD CO.

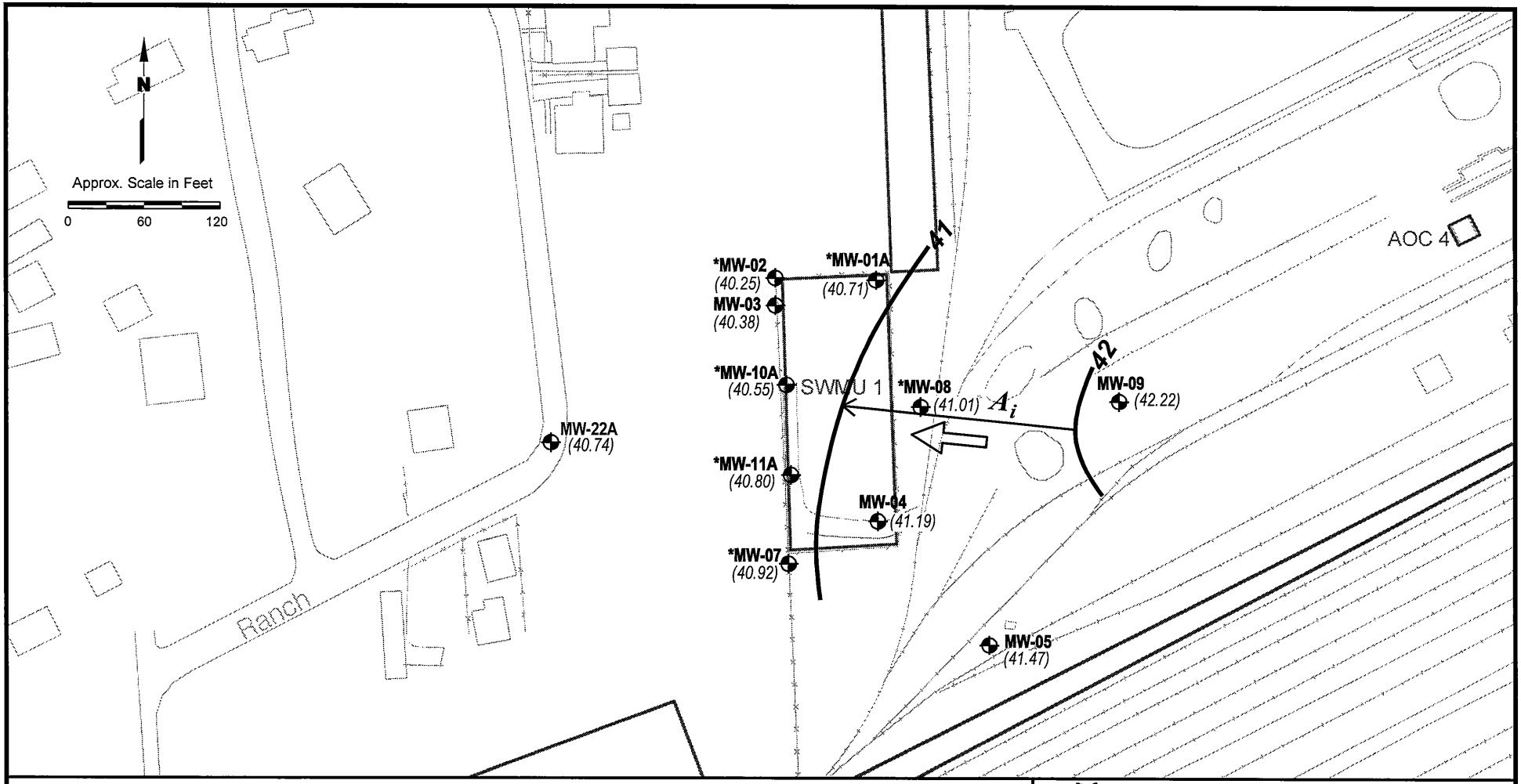
HOUSTON WOOD PRESERVING WORKS

Figure 2

CORRECTIVE ACTION MONITORING WELL NETWORK TCEQ PERMIT UNIT NO. 1

PROJECT: 1358	BY: ZGK	REVISIONS
DATE: DEC., 2008	CHECKED: ECM	

PASTOR, BEHLING & WHEELER, LLC
CONSULTING ENGINEERS AND SCIENTISTS



EXPLANATION

- Road, Parking Lot, Sidewalk
- Fence
- Railroad
- A-TZ Monitoring Well Location (* - Compliance Well)
- (40.92) Groundwater Elevation (Ft, MSL)
- 42 Groundwater Elevation Contour (Ft, MSL) C.I.= 1 Ft
- General Groundwater Flow Direction

ESTIMATED GRADIENT

$A_i \rightarrow A_i = \frac{1ft}{186ft} = 0.005\ ft/ft$

Source:
Base map from ERM-Southwest, Inc
0014419a310.dwg, 6/19/2006.

STATE OF TEXAS
ERIC C. MATZNER
GEOLOGY
LIC. # 795
LICENSED
PROFESSIONAL GEOSCIENTIST

UNION PACIFIC RAILROAD CO.

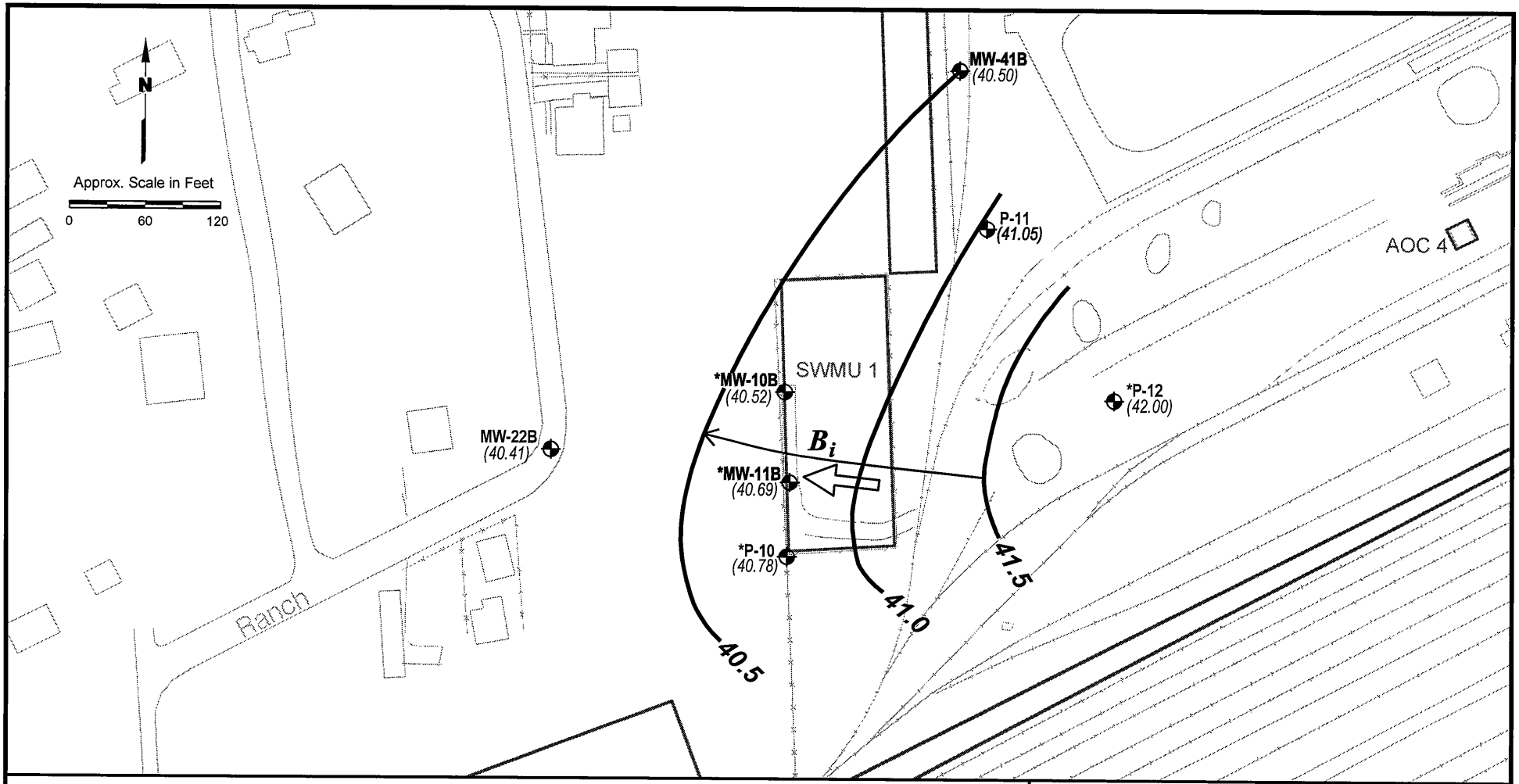
HOUSTON WOOD PRESERVING WORKS

Figure 3

A-TZ POTENTIOMETRIC SURFACE CONTOUR MAP JULY 16, 2008

PROJECT: 1358	BY: ZGK	REVISIONS
DATE: DEC., 2008	CHECKED: ECM	

PASTOR, BEHLING & WHEELER, LLC
CONSULTING ENGINEERS AND SCIENTISTS



EXPLANATION

- Road, Parking Lot, Sidewalk
- Fence
- Railroad
- B-TZ Monitoring Well Location (* - Compliance Well)
- (40.78) Groundwater Elevation (Ft, MSL) (NM = Not Measured)
- –40.5– Groundwater Elevation Contour (Ft, MSL) C.I.= 0.5 Ft
- General Groundwater Flow Direction

ESTIMATED GRADIENT

B_i → $B_i = \frac{1ft}{226ft} = 0.004\ ft/ft$

Source:
Base map from ERM-Southwest, Inc
0014419a310.dwg, 6/19/2006.

STATE OF TEXAS
ERIC C. MATZNER
GEOLOGY
LIC. # 795
LICENSED
PROFESSIONAL GEOSCIENTIST

UNION PACIFIC RAILROAD CO.

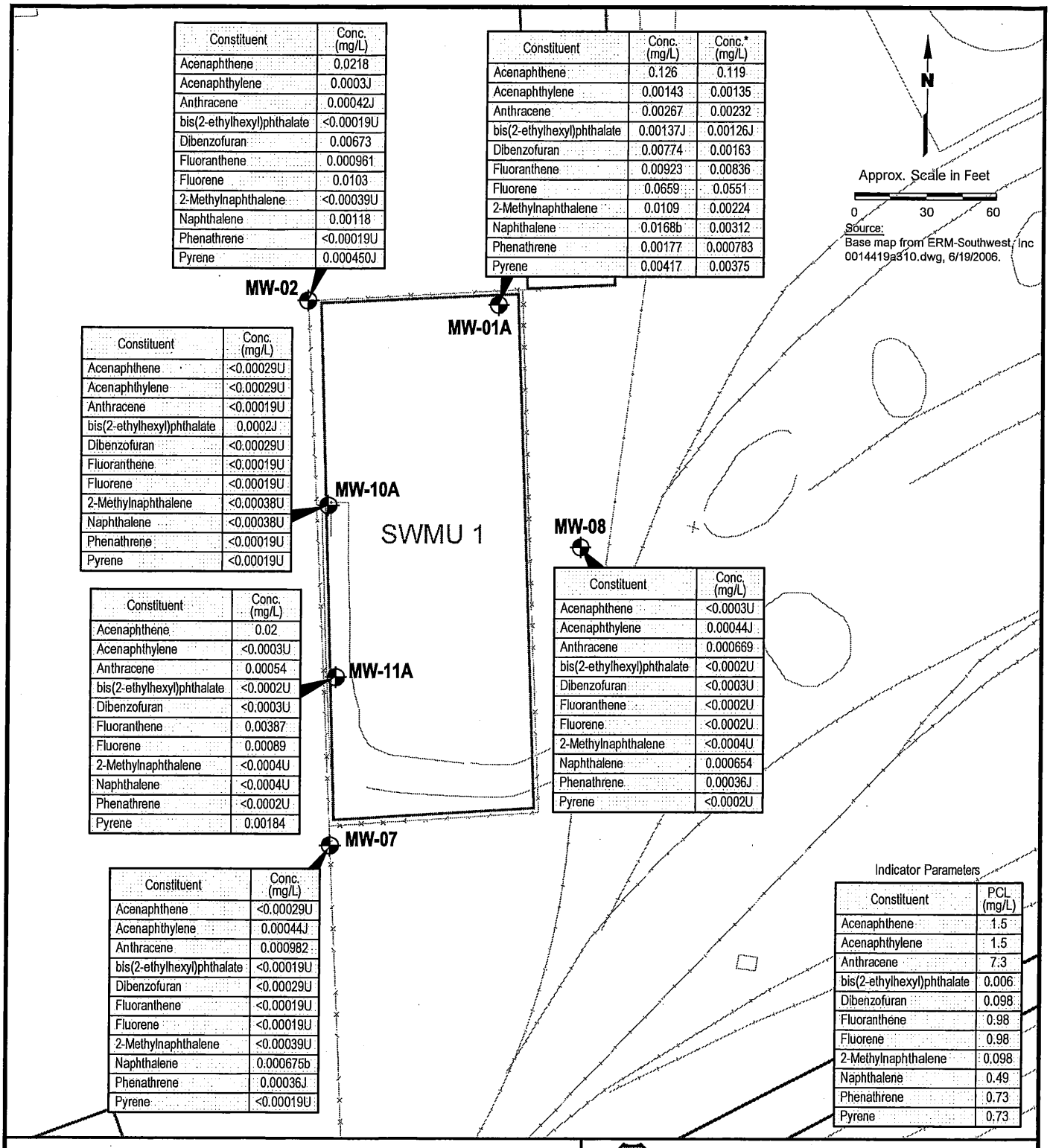
HOUSTON WOOD PRESERVING WORKS

Figure 4

B-TZ POTENTIOMETRIC SURFACE CONTOUR MAP JULY 16, 2008

PROJECT: 1358	BY: ZGK	REVISIONS
DATE: DEC., 2008	CHECKED: ECM	

PASTOR, BEHLING & WHEELER, LLC
CONSULTING ENGINEERS AND SCIENTISTS



Constituent	Conc. (mg/L)
Acenaphthene	0.0218
Acenaphthylene	0.0003J
Anthracene	0.00042J
bis(2-ethylhexyl)phthalate	<0.00019U
Dibenzofuran	0.00673
Fluoranthene	0.000961
Fluorene	0.0103
2-Methylnaphthalene	<0.00039U
Naphthalene	0.00118
Phenathrene	<0.00019U
Pyrene	0.000450J

Constituent	Conc. (mg/L)	Conc.* (mg/L)
Acenaphthene	0.126	0.119
Acenaphthylene	0.00143	0.00135
Anthracene	0.00267	0.00232
bis(2-ethylhexyl)phthalate	0.00137J	0.00126J
Dibenzofuran	0.00774	0.00163
Fluoranthene	0.00923	0.00836
Fluorene	0.0659	0.0551
2-Methylnaphthalene	0.0109	0.00224
Naphthalene	0.0168b	0.00312
Phenathrene	0.00177	0.000783
Pyrene	0.00417	0.00375

Constituent	Conc. (mg/L)
Acenaphthene	<0.00029U
Acenaphthylene	<0.00029U
Anthracene	<0.00019U
bis(2-ethylhexyl)phthalate	0.0002J
Dibenzofuran	<0.00029U
Fluoranthene	<0.00019U
Fluorene	<0.00019U
2-Methylnaphthalene	<0.00038U
Naphthalene	<0.00038U
Phenathrene	<0.00019U
Pyrene	<0.00019U

Constituent	Conc. (mg/L)
Acenaphthene	0.02
Acenaphthylene	<0.0003U
Anthracene	0.00054
bis(2-ethylhexyl)phthalate	<0.0002U
Dibenzofuran	<0.0003U
Fluoranthene	0.00387
Fluorene	0.00089
2-Methylnaphthalene	<0.0004U
Naphthalene	<0.0004U
Phenathrene	<0.0002U
Pyrene	0.00184

Constituent	Conc. (mg/L)
Acenaphthene	<0.0003U
Acenaphthylene	0.00044J
Anthracene	0.000669
bis(2-ethylhexyl)phthalate	<0.0002U
Dibenzofuran	<0.0003U
Fluoranthene	<0.0002U
Fluorene	<0.0002U
2-Methylnaphthalene	<0.0004U
Naphthalene	0.000654
Phenathrene	0.00036J
Pyrene	<0.0002U

Constituent	Conc. (mg/L)
Acenaphthene	<0.00029U
Acenaphthylene	0.00044J
Anthracene	0.000982
bis(2-ethylhexyl)phthalate	<0.00019U
Dibenzofuran	<0.00029U
Fluoranthene	<0.00019U
Fluorene	<0.00019U
2-Methylnaphthalene	<0.00039U
Naphthalene	0.000675b
Phenathrene	0.00036J
Pyrene	<0.00019U

Indicator Parameters

Constituent	PCL (mg/L)
Acenaphthene	1.5
Acenaphthylene	1.5
Anthracene	7.3
bis(2-ethylhexyl)phthalate	0.006
Dibenzofuran	0.098
Fluoranthene	0.98
Fluorene	0.98
2-Methylnaphthalene	0.098
Naphthalene	0.49
Phenathrene	0.73
Pyrene	0.73

EXPLANATION

- Fence
- Railroad
- A-TZ Monitoring Well Location

Notes:
1. * Duplicates sample taken at MW-1A.
2. Sample collected on July 16, 2008.
3. J= Estimated value between SQL and MDL.
4. U= Value not detected greater than the MDL.
5. Target analyte was found in Method Blank.

STATE OF TEXAS
ERIC C. MATZNER
GEOLOGY
LIC. # 795
LICENSED
PROFESSIONAL GEOSCIENTIST

UNION PACIFIC RAILROAD CO.

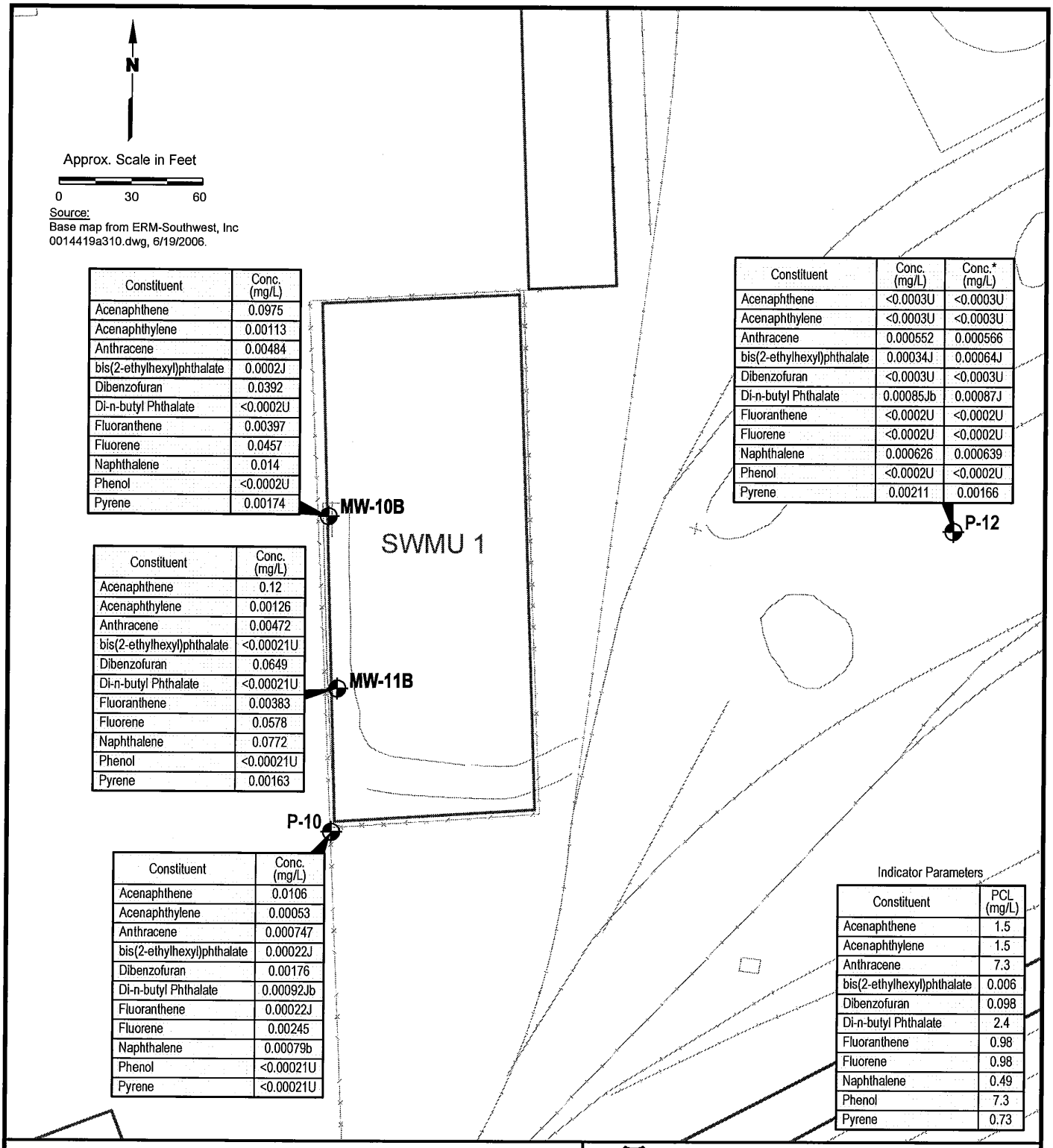
HOUSTON WOOD PRESERVING WORKS

Figure 5

A-TZ REPORTED CONCENTRATIONS 2008 2nd SEMI ANNUAL MONITORING EVENT

PROJECT: 1358	BY: ZGK	REVISIONS
DATE: DEC., 2008	CHECKED: ECM	

PASTOR, BEHLING & WHEELER, LLC
CONSULTING ENGINEERS AND SCIENTISTS



Constituent	Conc. (mg/L)
Acenaphthene	0.0975
Acenaphthylene	0.00113
Anthracene	0.00484
bis(2-ethylhexyl)phthalate	0.0002J
Dibenzofuran	0.0392
Di-n-butyl Phthalate	<0.0002U
Fluoranthene	0.00397
Fluorene	0.0457
Naphthalene	0.014
Phenol	<0.0002U
Pyrene	0.00174

Constituent	Conc. (mg/L)
Acenaphthene	0.12
Acenaphthylene	0.00126
Anthracene	0.00472
bis(2-ethylhexyl)phthalate	<0.00021U
Dibenzofuran	0.0649
Di-n-butyl Phthalate	<0.00021U
Fluoranthene	0.00383
Fluorene	0.0578
Naphthalene	0.0772
Phenol	<0.00021U
Pyrene	0.00163

Constituent	Conc. (mg/L)
Acenaphthene	0.0106
Acenaphthylene	0.00053
Anthracene	0.000747
bis(2-ethylhexyl)phthalate	0.00022J
Dibenzofuran	0.00176
Di-n-butyl Phthalate	0.00092Jb
Fluoranthene	0.00022J
Fluorene	0.00245
Naphthalene	0.00079b
Phenol	<0.00021U
Pyrene	<0.00021U

Constituent	Conc. (mg/L)	Conc.* (mg/L)
Acenaphthene	<0.0003U	<0.0003U
Acenaphthylene	<0.0003U	<0.0003U
Anthracene	0.000552	0.000566
bis(2-ethylhexyl)phthalate	0.00034J	0.00064J
Dibenzofuran	<0.0003U	<0.0003U
Di-n-butyl Phthalate	0.00085Jb	0.00087J
Fluoranthene	<0.0002U	<0.0002U
Fluorene	<0.0002U	<0.0002U
Naphthalene	0.000626	0.000639
Phenol	<0.0002U	<0.0002U
Pyrene	0.00211	0.00166

Indicator Parameters

Constituent	PCL (mg/L)
Acenaphthene	1.5
Acenaphthylene	1.5
Anthracene	7.3
bis(2-ethylhexyl)phthalate	0.006
Dibenzofuran	0.098
Di-n-butyl Phthalate	2.4
Fluoranthene	0.98
Fluorene	0.98
Naphthalene	0.49
Phenol	7.3
Pyrene	0.73

EXPLANATION

- Fence
- Railroad
- B-TZ Monitoring Well Location

Notes:
1. * Duplicates sample taken at P-10.
2. Sample collected on July 16, 2008.
3. J= Estimated value between SQL and MDL.
4. U= Value not detected greater than the MDL.
5. Target analyte was found in Method Blank.

STATE OF TEXAS
ERIC C. MATZNER
GEOLOGY
LIC. # 795
LICENSED
PROFESSIONAL GEOSCIENTIST

UNION PACIFIC RAILROAD CO.

HOUSTON WOOD PRESERVING WORKS

Figure 6

B-TZ REPORTED CONCENTRATIONS 2008 2nd SEMI ANNUAL MONITORING EVENT

PROJECT: 1358	BY: ZGK	REVISIONS
DATE: DEC., 2008	CHECKED: ECM	

PASTOR, BEHLING & WHEELER, LLC
CONSULTING ENGINEERS AND SCIENTISTS

APPENDIX A
COMPLIANCE PLAN TABLES

TABLE III - CORRECTIVE ACTION PROGRAM
Table of Detected Hazardous and Solid Waste Constituents and Concentration Limits for the Ground-Water Protection Standard

Closed Surface Impoundment (NOR Unit No. 001, SWMU No. 01)

A-Transmissive Zone		B-Transmissive Zone	
COLUMN A Hazardous Constituents	COLUMN B Concentration Limits (mg/l)	COLUMN A Hazardous Constituents	COLUMN B Concentration Limits (mg/l)
Acenaphthene	1.5[PCL]	Acenaphthene	1.5[PCL]
Acenaphthylene	1.5[PCL]	Acenaphthylene	1.5[PCL]
Anthracene	7.3[PCL]	Anthracene	7.3[PCL]
Dibenzofuran	0.098[PCL]	Dibenzofuran	0.098[PCL]
Bis(2-ethylhexyl)phthalate	0.006[PCL]	Bis(2-ethylhexyl)phthalate	0.006[PCL]
Fluoranthene	0.98[PCL]	Fluoranthene	0.98[PCL]
Fluorene	0.98[PCL]	Fluorene	0.98[PCL]
2-Methylnaphthalene	0.098[PCL]	Di-n-butyl phthalate	2.4[PCL]
Naphthalene	0.49[PCL]	Naphthalene	0.49[PCL]
Phenanthrene	0.73[PCL]	Phenol	7.3[PCL]
Pyrene	0.73[PCL]	Pyrene	0.73[PCL]

PCL Alternate Concentration Limit pursuant to 30 TAC §335.160(b) based upon the Protective Concentration Level determined under 30 TAC Chapter 350 for Residential Land Use. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

APPENDIX B
FIELD PARAMETERS

TABLE B-1
Groundwater Sampling Field Parameters
Semiannual Monitoring Report: 2008 First Semiannual Event

Houston Wood Preserving Works
Houston, Texas

Field Parameter	Monitoring Well IDs									
	A-Transmissive Zone						B-Transmissive Zone			
	MW-01A	MW-02	MW-07	MW-08	MW-10A	MW-11A	MW-10B	MW-11B	P-10	P-12
	7/16/2008	7/16/2008	7/16/2008	7/16/2008	7/16/2008	7/16/2008	7/16/2008	7/16/2008	7/16/2008	7/16/2008
Time Sampled (hrs CST)	9:41	10:59	8:35	10:55	11:26	12:20	11:50	12:47	9:08	11:25
Temperature (ºC)	25.33	24.55	24.39	28.68	25.83	25.62	24.84	24.91	24.9	27.27
pH (Standard Units)	6.59	6.95	6.81	7.2	7.02	6.89	6.89	6.93	6.93	6.8
Specific Conductivity (µS)	1,601	792	870	870	1,009	1,232	1,311	1,248	1,210	656
Dissolved Oxygen (mg/L)	0.59	1.04	0.96	4.21	1.51	0.89	0.93	0.63	0.65	0.62
Turbidity (NTU)	2.40	4.24	2.90	2.80	4.42	8.43	1.75	1.08	2.30	2.40

APPENDIX C
LABORATORY ANALYTICAL REPORTS and DATA USABILITY SUMMARIES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

JOB NUMBER: 357238
Project ID: 1620 HOUSTON TX- WOOD PR

Prepared For:

Pastor, Behling & Wheeler, LLC
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Attention: Eric Matzner

Date: 08/11/2008

Signature

08/12/08
Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 61

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

08/11/2008

Eric Matzner
Pastor, Behling & Wheeler, LLC
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Project : 1620 HOUSTON TX- WOOD PRESERVING WORKS
Project No. : 357238
Date Received : 07/16/2008
TestAmerica Job : 357238

Dear Eric Matzner:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

1. WG-1620-FB01-071608
2. WG-1620-MW07-071608
3. WG-1620-P10-071608
4. WG-1620-MW01A-071608
5. WG-1620-FD01-071608
6. WG-1620-MW08-071608
7. WG-1620-P12-071608
8. WG-1620-P12-071608 MS
9. WG-1620-P12-071608 MSD
10. WG-1620-FD02-071608
11. WG-1620-TB04-071608
12. WG-1620-MW02-071608
13. WG-1620-MW10A-071608
14. WG-1620-MW10B-071608
15. WG-1620-MW11A-071608
16. WG-1620-MW11B-071608

All hold times were met for the tests performed on these samples.

Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

The test results in this report meet all NELAP requirements for TestAmerica Houston's NELAP accredited parameters. Any exceptions to the NELAP requirements will be flagged accordingly and where applicable, included in a case narrative as a part of this report.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting TestAmerica to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely,

Sachin G. Kudchadkar
Project Manager

6310 Rothway Street Houston, TX 77040 tel 713.690.4444 fax 713.690.5646 www.testamericainc.com

Table 1
Cross Reference Lab Identifications, Field Identifications, and Methods

Lab Identification	Field Identification	SW-846 8260B	SW-846 8270C
357238-001	WG-1620-FB01-071608	1	1
357238-002	WG-1620-MW07-071608	1	1
357238-003	WG-1620-P10 -071608	1	1
357238-004	WG-1620-MW01A-071608	1	1
357238-005	WG-1620-FD01-071608	1	1
357238-006	WG-1620-MW08-071608	1	1
357238-007	WG-1620-P12 -071608	1	1
357238-008	WG-1620-P12 -071608 MS	1	1
357238-009	WG-1620-P12 -071608 MSD	1	1
357238-010	WG-1620-FD02-071608	1	1
357238-011	WG-1620-TB04-071608	1	
357238-012	WG-1620-MW02 -071608	1	1
357238-013	WG-1620-MW10A-071608	1	1
357238-014	WG-1620-MW10B-071608	1	1
357238-015	WG-1620-MW11A-071608	1	1
357238-016	WG-1620-MW11B-071608	1	1

Appendix A Laboratory Data Package Cover Page

This data package consists of:

- ☒ This signature page, the laboratory review checklist, and the following reportable data:
- ☒ R1 Field chain-of-custody documentation;
- ☒ R2 Sample identification cross-reference;
- ☒ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test reports/summary forms for blank samples;
- ☒ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☒ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies.
- ☒ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [ ] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Craig Bromley	Craig Bromley	Laboratory Director	8/19/08
Name (Printed)	Signature	Official Title (printed)	Date

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 07/30/08
Project Name: 1620 HOUSTON TX- WOOD PRESERVING WORKS	Laboratory Job Number: 357238
Reviewer Name: YX	Prep Batch Number(s): 402524, 402545, 402679, and 402765-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SQL to minimize the matrix interference affects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

4

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 07/30/08
Project Name: 1620 HOUSTON TX- WOOD PRESERVING WORKS	Laboratory Job Number: 357238
Reviewer Name: YX	Prep Batch Number(s): 402524, 402545, 402679, and 402765-VOA

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section					
		Are all the methods used to generate the data documented, verified, and validated, where	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 07/30/08
Project Name: 1620 HOUSTON TX- WOOD PRESERVING WORKS	Laboratory Job Number: 357238
Reviewer Name: YX	Prep Batch Number(s): 402524, 402545, 402679, and 402765-VOA

ER #[1]	DESCRIPTION
1	The 1,2-dichloroethane-d4 and 4-bromofluorobenzene surrogate recoveries in sample 357238-9 MSD were outside acceptance limits due to matrix interference.

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 08/11/08
Project Name: 1620 HOUSTON TX- WOOD PRESERVING WORKS	Laboratory Job Number: 357238
Reviewer Name: KA	Prep Batch Number(s): 402237 and 402330-SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?		X			1
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SQL to minimize the matrix interference affects on the sample results?	X				2

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 08/11/08
Project Name: 1620 HOUSTON TX- WOOD PRESERVING WORKS	Laboratory Job Number: 357238
Reviewer Name: KA	Prep Batch Number(s): 402237 and 402330-SV

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section					
		Are all the methods used to generate the data documented, verified, and validated, where	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 08/11/08
Project Name: 1620 HOUSTON TX- WOOD PRESERVING WORKS	Laboratory Job Number: 357238
Reviewer Name: KA	Prep Batch Number(s): 402237 and 402330-SV

ER #[1]	DESCRIPTION
1	Naphthalene was detected above the MQL in the method blank analyzed on 07/31/08 at 12:37. Di-n-butyl phthalate was detected above the MDL, but below the MQL in the method blanks analyzed on 07/31/08 at 12:37 and 17:41. The level of detection is below the recommended reporting limit and the appropriate flags have been applied to the report.
2	The acenaphthene and fluorene SDLs for samples 357238-4, 5, 14, and 16 were elevated. The naphthalene SDL for sample 357238-16 and the dibenzofuran SDLs for samples 357238-14 and 16 were elevated. All elevated SDLs were due to the dilutions necessary for analyses.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#357238

CHAIN OF CUSTODY RECORD

Customer Information		Project Information			Analysis/Method	No. -1
PO		PROJECT NAME	99000484-HWPW	A	A) 8260B- VOC	
WO	Event1/SWMU1	LAB NUMBER	BOTTLE ORDER	B	B) 8270C- SVOC- ATZ	
COMPANY	Pastor, Behling & Wheeler, LLC	BILL TO	Union Pacific Railroad	C	C) 8270C-SVOC- BTZ	
SEND REPORT TO	Eric Matzner	INVOICE ATTN	Geoff Reeder	D	D) 8270C - SVOC	
ADDRESS	2201 Double Creek Drive	ADDRESS	24125 Aldine Westfield Road	E		
	Suite 4004			F		
				G		
CITY/STATE/ZIP	Round Rock, TX 78664	CITY/STATE/ZIP	Spring, TX 77373-9015	H		
PHONE	512-671-3434	PHONE	281-350-7197	I		
FAX	512-671-3446	FAX	281-350-7362	J		
				K		
				L		
				M		
				N		
				O		
				P		
				Q		
				R		
				S		

SAMP NO.	SAMPLE DESCRIPTION	PRESERV.	F	SAMPLE MATRIX	SAMPLE DATE	SAMPLE TIME	#CONTAINR	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	WG-1620- FB01-071608	HCl		Water	7/16/08	0755	5	X			X															
	WG-1620- MW07-071608					0835	5	X	X																	
	WG-1620- P10-071608					0908	5	X		X																
	WG-1620- MW01A-071608					0941	5	X	X																	
	WG-1620- FD01-071608					—	5	X	X																	
	WG-1620- MW08-071608					1055	5	X	X																	
	WG-1620- P12-071608					1125	5	X		X																
	WG-1620- P12-071608 MS	↓		↓	↓	1125	5	X		X																

Sampler: P. Marty	Shipment Method:		Airbill No.:		Required TurnAround: 14days
1. Relinquished By:	Date 7/16/08	2. Relinquished By:	Date 7/16/08	3. Relinquished By:	Date
Company Name: Delta	Time 1430	Company Name: TAL	Time 16:33	Company Name:	Time
1. Received By:	Date 7/16/08	2. Received By:	Date 7/16/08	3. Received By:	Date
Company Name: TAL	Time 16:20	Company Name: TAL	Time 16:33	Company Name:	Time

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#357238

CHAIN OF CUSTODY RECORD

Customer Information		Project Information			Analysis/Method No. -1
PO		PROJECT NAME	99000484-HWPW	A	A) 8260B- VOC
WO	Event1/SWMU1	LAB NUMBER	BOTTLE ORDER	B	B) 8270C- SVOC- ATZ
COMPANY	Pastor, Behling & Wheeler, LLC	BILL TO	Union Pacific Railroad	C	C) 8270C-SVOC- BTZ
SEND REPORT TO	Eric Matzner	INVOICE ATTN	Geoff Reeder	D	
ADDRESS	2201 Double Creek Drive	ADDRESS	24125 Aldine Westfield Road	E	
	Suite 4004			F	
				G	
CITY/STATE/ZIP	Round Rock, TX 78664	CITY/STATE/ZIP	Spring, TX 77373-9015	H	
PHONE	512-671-3434	PHONE	281-350-7197	I	
FAX	512-671-3446	FAX	281-350-7362	J	
				K	
				L	
				M	
				N	
				O	
				P	
				Q	
				R	
				S	

SAMP NO.	SAMPLE DESCRIPTION	PRESERV.	F	SAMPLE MATRIX	SAMPLE DATE	SAMPLE TIME	#CONTAINR	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	WG-1620-P12-071608 MSD	HCl		Water	7/16/08	1125	5	X	X																	
	WG-1620-FD02-071608	↓		↓	↓	—	5	X	X																	
	WG-1620-TB04-071608	↓		↓	↓	—	2	X																		

Sampler: P. Marty	Shipment Method:		Airbill No.:		Required TurnAround: 14days		
1. Relinquished By:	Date 7/16/08	2. Relinquished By:	Date 7/16/08	3. Relinquished By:	Date		
Company Name: Delta	Time 1430	Company Name: TAL	Time 16:33	Company Name:	Time		
1. Received By:	Date 7/16/08	2. Received By:	Date 7/16/08	3. Received By:	Date		
Company Name: TAL	Time 16:20	Company Name: TAL	Time 16:33	Company Name:	Time		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

#357238

CHAIN OF CUSTODY RECORD

Customer Information		Project Information			Analysis/Method	No. -1
PO		PROJECT NAME	99000484-HWPW		A	A) 8260B- VOC
WO	Event1/SWMU1	LAB NUMBER		BOTTLE ORDER	B	B) 8270C- SVOC- ATZ
COMPANY	Pastor, Behling & Wheeler, LLC	BILL TO	Union Pacific Railroad		C	C) 8270C-SVOC- BTZ
SEND REPORT TO	Eric Matzner	INVOICE ATTN	Geoff Reeder		D	
ADDRESS	2201 Double Creek Drive	ADDRESS	24125 Aldine Westfield Road		E	
	Suite 4004				F	
					G	
CITY/STATE/ZIP	Round Rock, TX 78664	CITY/STATE/ZIP	Spring, TX 77373-9015		H	
PHONE	512-671-3434	PHONE	281-350-7197		I	
FAX	512-671-3446	FAX	281-350-7362		J	
					K	
					L	
					M	
					N	
					O	
					P	
					Q	
					R	
					S	

SAMP NO.	SAMPLE DESCRIPTION	PRESERV.	F	SAMPLE MATRIX	SAMPLE DATE	SAMPLE TIME	#CONTAINR	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	WG-1620-MW02-071608	HCL/None		GW	7/16/08	1059	5	X	X																	
	WG-1620-MW10A-071608	↓		↓	↓	1126	↓	X	X																	
	WG-1620-MW10B-071608					1150		X	X																	
	WG-1620-MW11A-071608					1220		X	X																	
	WG-1620-MW11B-071608					1247		X	X																	

Sampler: Blake Ford | Shipment Method: Pick-up | Airbill No.: | Required TurnAround: 14days

1. Relinquished By:	Date 7/16/08	2. Relinquished By:	Date 7/16/08	3. Relinquished By:	Date
Company Name: Delta	Time 1430	Company Name: FTS	Time 16:33	Company Name:	Time
1. Received By:	Date 7/16/08	2. Received By:	Date 7/16/08	3. Received By:	Date
Company Name: FTS	Time 16:20	Company Name: TAL	Time 16:33	Company Name:	Time

rpjsckl	Job Sample Receipt Checklist Report	V2

Job Number.: 357238 Location.: 57216 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: 07/17/2008 Date of the Report..: 07/17/2008
Project Number.: 99000484 Project Description.: UPRR-HWPW Project Manager.....: sgk
Customer.....: Pastor, Behling & Wheeler, LLC Contact.: Eric Matzner

Questions ?	(Y/N)	Comments
Chain of Custody Received?	Y	
...If "yes", completed properly?	Y	
Custody seal on shipping container?	N	
...If "yes", custody seal intact?		
Custody seals on sample containers?	N	
...If "yes", custody seal intact?		
Samples chilled?	Y	
Temperature of cooler acceptable? (<=6 Deg C).	Y	2.9/5.6/5.2/5.1/5.3
...If "no", is sample an air matrix?(no temp req.)		
Thermometer ID	Y	464
Samples received intact (good condition)?	Y	
Volatile samples acceptable? (no headspace)	Y	
Correct containers used?	Y	
Adequate sample volume provided?	Y	
Samples preserved correctly?	Y	
Samples received within holding-time?	Y	
Agreement between COC and sample labels?	Y	
Radioactivity at or below background levels?	Y	
Additional		
Comments		
Sample Custodian Signature/Date	Y	

7/17/08

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-FB01-071608

Date/Time Sampled .....: 7/16/2008 07:55

Date/Time Received .....: 7/16/2008 16:33

Laboratory Sample ID: 357238-001

Sample Matrix .....: Water

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/22/2008 14:45	402237	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.00109	U		0.00109	0.00500	0.00109	mg/L	7/27/2008 02:48	402545	1.00	klv
Benzene	71-43-2	0.00112	U		0.00112	0.00500	0.00112	mg/L	7/27/2008 02:48	402545	1.00	klv
Chlorobenzene	108-90-7	0.00150	U		0.00150	0.00500	0.00150	mg/L	7/27/2008 02:48	402545	1.00	klv
Ethylbenzene	100-41-4	0.00142	U		0.00142	0.00500	0.00142	mg/L	7/27/2008 02:48	402545	1.00	klv
Methylene Chloride	75-09-2	0.00122	U		0.00122	0.00500	0.00122	mg/L	7/27/2008 02:48	402545	1.00	klv
Toluene	108-88-3	0.00138	U		0.00138	0.00500	0.00138	mg/L	7/27/2008 02:48	402545	1.00	klv
Xylenes (total)	1330-20-7	0.00302	U		0.00302	0.0150	0.00302	mg/L	7/27/2008 02:48	402545	1.00	klv

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-FB01-071608

Laboratory Sample ID: 357238-001

Date/Time Sampled .....: 7/16/2008 07:55

Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
2-Methylnaphthalene	91-57-6	0.000440	U		0.000400	0.000500	0.000440	mg/L	7/31/2008 13:32	402960	1.00	maz
Acenaphthene	83-32-9	0.000330	U		0.000300	0.000500	0.000330	mg/L	7/31/2008 13:32	402960	1.00	maz
Acenaphthylene	208-96-8	0.000330	U		0.000500	0.000500	0.000330	mg/L	7/31/2008 13:32	402960	1.00	maz
Anthracene	120-12-7	0.000220	U		0.000200	0.000500	0.000220	mg/L	7/31/2008 13:32	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000220	U		0.000200	0.00250	0.000220	mg/L	7/31/2008 13:32	402960	1.00	maz
Dibenzofuran	132-64-9	0.000330	U		0.000300	0.000500	0.000330	mg/L	7/31/2008 13:32	402960	1.00	maz
Di-n-butyl Phthalate	84-74-2	0.000960	J	b	0.000200	0.00250	0.000220	mg/L	7/31/2008 13:32	402960	1.00	maz
Fluoranthene	206-44-0	0.000220	U		0.000200	0.000500	0.000220	mg/L	7/31/2008 13:32	402960	1.00	maz
Fluorene	86-73-7	0.000220	U		0.000200	0.000500	0.000220	mg/L	7/31/2008 13:32	402960	1.00	maz
Naphthalene	91-20-3	0.000689		b	0.000400	0.000500	0.000440	mg/L	7/31/2008 13:32	402960	1.00	maz
Phenanthrene	85-01-8	0.000220	U		0.000200	0.000500	0.000220	mg/L	7/31/2008 13:32	402960	1.00	maz
Phenol	108-95-2	0.000220	U		0.000200	0.000500	0.000220	mg/L	7/31/2008 13:32	402960	1.00	maz
Pyrene	129-00-0	0.000220	U		0.000200	0.000500	0.000220	mg/L	7/31/2008 13:32	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW07-071608

Laboratory Sample ID: 357238-002

Date/Time Sampled .....: 7/16/2008 08:35

Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/22/2008 14:45	402237	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/30/2008 15:08	402765	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/30/2008 15:08	402765	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/30/2008 15:08	402765	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/30/2008 15:08	402765	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/30/2008 15:08	402765	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/30/2008 15:08	402765	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/30/2008 15:08	402765	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW07-071608
Laboratory Sample ID: 357238-002
Date/Time Sampled .....: 7/16/2008 08:35
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
2-Methylnaphthalene	91-57-6	0.000390	U		0.000400	0.000500	0.000390	mg/L	7/31/2008 13:59	402960	1.00	maz
Acenaphthene	83-32-9	0.000290	U		0.000300	0.000500	0.000290	mg/L	7/31/2008 13:59	402960	1.00	maz
Acenaphthylene	208-96-8	0.000440	J		0.000500	0.000500	0.000290	mg/L	7/31/2008 13:59	402960	1.00	maz
Anthracene	120-12-7	0.000982			0.000200	0.000500	0.000190	mg/L	7/31/2008 13:59	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000190	U		0.000200	0.00250	0.000190	mg/L	7/31/2008 13:59	402960	1.00	maz
Dibenzofuran	132-64-9	0.000290	U		0.000300	0.000500	0.000290	mg/L	7/31/2008 13:59	402960	1.00	maz
Fluoranthene	206-44-0	0.000190	U		0.000200	0.000500	0.000190	mg/L	7/31/2008 13:59	402960	1.00	maz
Fluorene	86-73-7	0.000190	U		0.000200	0.000500	0.000190	mg/L	7/31/2008 13:59	402960	1.00	maz
Naphthalene	91-20-3	0.000675		b	0.000400	0.000500	0.000390	mg/L	7/31/2008 13:59	402960	1.00	maz
Phenanthrene	85-01-8	0.000360	J		0.000200	0.000500	0.000190	mg/L	7/31/2008 13:59	402960	1.00	maz
Pyrene	129-00-0	0.000190	U		0.000200	0.000500	0.000190	mg/L	7/31/2008 13:59	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-P10-071608
Laboratory Sample ID: 357238-003
Date/Time Sampled .....: 7/16/2008 09:08
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/22/2008 14:45	402237	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/30/2008 15:33	402765	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/30/2008 15:33	402765	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/30/2008 15:33	402765	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/30/2008 15:33	402765	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/30/2008 15:33	402765	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/30/2008 15:33	402765	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/30/2008 15:33	402765	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-P10-071608

Laboratory Sample ID: 357238-003

Date/Time Sampled .....: 7/16/2008 09:08

Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
Acenaphthene	83-32-9	0.0106			0.000300	0.000500	0.000320	mg/L	7/31/2008 14:27	402960	1.00	maz
Acenaphthylene	208-96-8	0.000530			0.000500	0.000500	0.000320	mg/L	7/31/2008 14:27	402960	1.00	maz
Anthracene	120-12-7	0.000747			0.000200	0.000500	0.000210	mg/L	7/31/2008 14:27	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000220	J		0.000200	0.00250	0.000210	mg/L	7/31/2008 14:27	402960	1.00	maz
Dibenzofuran	132-64-9	0.00176			0.000300	0.000500	0.000320	mg/L	7/31/2008 14:27	402960	1.00	maz
Di-n-butyl Phthalate	84-74-2	0.000920	J	b	0.000200	0.00250	0.000210	mg/L	7/31/2008 14:27	402960	1.00	maz
Fluoranthene	206-44-0	0.000220	J		0.000200	0.000500	0.000210	mg/L	7/31/2008 14:27	402960	1.00	maz
Fluorene	86-73-7	0.00245			0.000200	0.000500	0.000210	mg/L	7/31/2008 14:27	402960	1.00	maz
Naphthalene	91-20-3	0.000790		b	0.000400	0.000500	0.000420	mg/L	7/31/2008 14:27	402960	1.00	maz
Phenol	108-95-2	0.000210	U		0.000200	0.000500	0.000210	mg/L	7/31/2008 14:27	402960	1.00	maz
Pyrene	129-00-0	0.000210	U		0.000200	0.000500	0.000210	mg/L	7/31/2008 14:27	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW01A-071608

Date/Time Sampled .....: 7/16/2008 09:41

Date/Time Received .....: 7/16/2008 16:33

Laboratory Sample ID: 357238-004

Sample Matrix .....: Water

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/22/2008 14:45	402237	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/30/2008 15:59	402765	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/30/2008 15:59	402765	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/30/2008 15:59	402765	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/30/2008 15:59	402765	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/30/2008 15:59	402765	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/30/2008 15:59	402765	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/30/2008 15:59	402765	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW01A-071608

Laboratory Sample ID: 357238-004

Date/Time Sampled .....: 7/16/2008 09:41

Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F	Analyst
Method: SW-846 8270C, Water												
2-Methylnaphthalene	91-57-6	0.0109			0.000400	0.000500	0.000390	mg/L	7/31/2008 14:55	402960	1.00	maz
Acenaphthene	83-32-9	0.126			0.000300	0.000500	0.00290	mg/L	8/1/2008 15:47	402960	10.0	maz
Acenaphthylene	208-96-8	0.00143			0.000500	0.000500	0.000290	mg/L	7/31/2008 14:55	402960	1.00	maz
Anthracene	120-12-7	0.00267			0.000200	0.000500	0.000190	mg/L	7/31/2008 14:55	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.00137	J		0.000200	0.00250	0.000190	mg/L	7/31/2008 14:55	402960	1.00	maz
Dibenzofuran	132-64-9	0.00774			0.000300	0.000500	0.000290	mg/L	7/31/2008 14:55	402960	1.00	maz
Fluoranthene	206-44-0	0.00923			0.000200	0.000500	0.000190	mg/L	7/31/2008 14:55	402960	1.00	maz
Fluorene	86-73-7	0.0659			0.000200	0.000500	0.000970	mg/L	8/1/2008 12:39	402960	5.00	maz
Naphthalene	91-20-3	0.0168		b	0.000400	0.000500	0.000390	mg/L	7/31/2008 14:55	402960	1.00	maz
Phenanthrene	85-01-8	0.00177			0.000200	0.000500	0.000190	mg/L	7/31/2008 14:55	402960	1.00	maz
Pyrene	129-00-0	0.00417			0.000200	0.000500	0.000190	mg/L	7/31/2008 14:55	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-FD01-071608
Laboratory Sample ID: 357238-005
Date/Time Sampled .....: 7/16/2008 00:00
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/22/2008 14:45	402237	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/30/2008 16:24	402765	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/30/2008 16:24	402765	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/30/2008 16:24	402765	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/30/2008 16:24	402765	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/30/2008 16:24	402765	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/30/2008 16:24	402765	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/30/2008 16:24	402765	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-FD01-071608

Laboratory Sample ID: 357238-005

Date/Time Sampled .....: 7/16/2008 00:00

Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
2-Methylnaphthalene	91-57-6	0.00224			0.000400	0.000500	0.000390	mg/L	7/31/2008 15:22	402960	1.00	maz
Acenaphthene	83-32-9	0.119			0.000300	0.000500	0.00150	mg/L	8/1/2008 13:05	402960	5.00	maz
Acenaphthylene	208-96-8	0.00135			0.000500	0.000500	0.000290	mg/L	7/31/2008 15:22	402960	1.00	maz
Anthracene	120-12-7	0.00232			0.000200	0.000500	0.000200	mg/L	7/31/2008 15:22	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.00126	J		0.000200	0.00250	0.000200	mg/L	7/31/2008 15:22	402960	1.00	maz
Dibenzofuran	132-64-9	0.00163			0.000300	0.000500	0.000290	mg/L	7/31/2008 15:22	402960	1.00	maz
Fluoranthene	206-44-0	0.00836			0.000200	0.000500	0.000200	mg/L	7/31/2008 15:22	402960	1.00	maz
Fluorene	86-73-7	0.0551			0.000200	0.000500	0.000980	mg/L	8/1/2008 13:05	402960	5.00	maz
Naphthalene	91-20-3	0.00312		b	0.000400	0.000500	0.000390	mg/L	7/31/2008 15:22	402960	1.00	maz
Phenanthrene	85-01-8	0.000783			0.000200	0.000500	0.000200	mg/L	7/31/2008 15:22	402960	1.00	maz
Pyrene	129-00-0	0.00375			0.000200	0.000500	0.000200	mg/L	7/31/2008 15:22	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW08-071608

Laboratory Sample ID: 357238-006

Date/Time Sampled .....: 7/16/2008 10:55

Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/23/2008 08:00	402330	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.00109	U		0.00109	0.00500	0.00109	mg/L	7/29/2008 23:03	402679	1.00	klv
Benzene	71-43-2	0.00112	U		0.00112	0.00500	0.00112	mg/L	7/29/2008 23:03	402679	1.00	klv
Chlorobenzene	108-90-7	0.00150	U		0.00150	0.00500	0.00150	mg/L	7/29/2008 23:03	402679	1.00	klv
Ethylbenzene	100-41-4	0.00142	U		0.00142	0.00500	0.00142	mg/L	7/29/2008 23:03	402679	1.00	klv
Methylene Chloride	75-09-2	0.00122	U		0.00122	0.00500	0.00122	mg/L	7/29/2008 23:03	402679	1.00	klv
Toluene	108-88-3	0.00138	U		0.00138	0.00500	0.00138	mg/L	7/29/2008 23:03	402679	1.00	klv
Xylenes (total)	1330-20-7	0.00302	U		0.00302	0.0150	0.00302	mg/L	7/29/2008 23:03	402679	1.00	klv

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW08-071608 Laboratory Sample ID: 357238-006

Date/Time Sampled .....: 7/16/2008 10:55 Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
2-Methylnaphthalene	91-57-6	0.000400	U		0.000400	0.000500	0.000400	mg/L	7/31/2008 18:37	402960	1.00	maz
Acenaphthene	83-32-9	0.000300	U		0.000300	0.000500	0.000300	mg/L	7/31/2008 18:37	402960	1.00	maz
Acenaphthylene	208-96-8	0.000440	J		0.000500	0.000500	0.000300	mg/L	7/31/2008 18:37	402960	1.00	maz
Anthracene	120-12-7	0.000669			0.000200	0.000500	0.000200	mg/L	7/31/2008 18:37	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000200	U		0.000200	0.00250	0.000200	mg/L	7/31/2008 18:37	402960	1.00	maz
Dibenzofuran	132-64-9	0.000300	U		0.000300	0.000500	0.000300	mg/L	7/31/2008 18:37	402960	1.00	maz
Fluoranthene	206-44-0	0.000200	U		0.000200	0.000500	0.000200	mg/L	7/31/2008 18:37	402960	1.00	maz
Fluorene	86-73-7	0.000200	U		0.000200	0.000500	0.000200	mg/L	7/31/2008 18:37	402960	1.00	maz
Naphthalene	91-20-3	0.000654			0.000400	0.000500	0.000400	mg/L	7/31/2008 18:37	402960	1.00	maz
Phenanthrene	85-01-8	0.000360	J		0.000200	0.000500	0.000200	mg/L	7/31/2008 18:37	402960	1.00	maz
Pyrene	129-00-0	0.000200	U		0.000200	0.000500	0.000200	mg/L	7/31/2008 18:37	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-P12-071608
Laboratory Sample ID: 357238-007
Date/Time Sampled .....: 7/16/2008 11:25
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/23/2008 08:00	402330	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.00109	U		0.00109	0.00500	0.00109	mg/L	7/29/2008 23:36	402679	1.00	klv
Benzene	71-43-2	0.00112	U		0.00112	0.00500	0.00112	mg/L	7/29/2008 23:36	402679	1.00	klv
Chlorobenzene	108-90-7	0.00150	U		0.00150	0.00500	0.00150	mg/L	7/29/2008 23:36	402679	1.00	klv
Ethylbenzene	100-41-4	0.00142	U		0.00142	0.00500	0.00142	mg/L	7/29/2008 23:36	402679	1.00	klv
Methylene Chloride	75-09-2	0.00122	U		0.00122	0.00500	0.00122	mg/L	7/29/2008 23:36	402679	1.00	klv
Toluene	108-88-3	0.00138	U		0.00138	0.00500	0.00138	mg/L	7/29/2008 23:36	402679	1.00	klv
Xylenes (total)	1330-20-7	0.00302	U		0.00302	0.0150	0.00302	mg/L	7/29/2008 23:36	402679	1.00	klv

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-P12-071608
Laboratory Sample ID: 357238-007
Date/Time Sampled .....: 7/16/2008 11:25
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F	Analyst
Method: SW-846 8270C, Water												
Acenaphthene	83-32-9	0.000300	U		0.000300	0.000500	0.000300	mg/L	7/31/2008 19:04	402960	1.00	maz
Acenaphthylene	208-96-8	0.000300	U		0.000500	0.000500	0.000300	mg/L	7/31/2008 19:04	402960	1.00	maz
Anthracene	120-12-7	0.000552			0.000200	0.000500	0.000200	mg/L	7/31/2008 19:04	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000340	J		0.000200	0.00250	0.000200	mg/L	7/31/2008 19:04	402960	1.00	maz
Dibenzofuran	132-64-9	0.000300	U		0.000300	0.000500	0.000300	mg/L	7/31/2008 19:04	402960	1.00	maz
Di-n-butyl Phthalate	84-74-2	0.000850	J	b	0.000200	0.00250	0.000200	mg/L	7/31/2008 19:04	402960	1.00	maz
Fluoranthene	206-44-0	0.000200	U		0.000200	0.000500	0.000200	mg/L	7/31/2008 19:04	402960	1.00	maz
Fluorene	86-73-7	0.000200	U		0.000200	0.000500	0.000200	mg/L	7/31/2008 19:04	402960	1.00	maz
Naphthalene	91-20-3	0.000626			0.000400	0.000500	0.000400	mg/L	7/31/2008 19:04	402960	1.00	maz
Phenol	108-95-2	0.000200	U		0.000200	0.000500	0.000200	mg/L	7/31/2008 19:04	402960	1.00	maz
Pyrene	129-00-0	0.00211			0.000200	0.000500	0.000200	mg/L	7/31/2008 19:04	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-P12-071608 MS
Laboratory Sample ID: 357238-008
Date/Time Sampled .....: 7/16/2008 11:25
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/23/2008 08:00	402330	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.0386			0.00109	0.00500	0.00109	mg/L	7/26/2008 18:33	402545	1.00	klv
Benzene	71-43-2	0.0509			0.00112	0.00500	0.00112	mg/L	7/26/2008 18:33	402545	1.00	klv
Chlorobenzene	108-90-7	0.0564			0.00150	0.00500	0.00150	mg/L	7/26/2008 18:33	402545	1.00	klv
Ethylbenzene	100-41-4	0.0569			0.00142	0.00500	0.00142	mg/L	7/26/2008 18:33	402545	1.00	klv
Methylene Chloride	75-09-2	0.0412			0.00122	0.00500	0.00122	mg/L	7/26/2008 18:33	402545	1.00	klv
Toluene	108-88-3	0.0556			0.00138	0.00500	0.00138	mg/L	7/26/2008 18:33	402545	1.00	klv
Xylenes (total)	1330-20-7	0.167			0.00302	0.0150	0.00302	mg/L	7/26/2008 18:33	402545	1.00	klv

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-P12-071608 MS
Laboratory Sample ID: 357238-008
Date/Time Sampled .....: 7/16/2008 11:25
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
Acenaphthene	83-32-9	0.00756			0.000300	0.000500	0.000290	mg/L	7/31/2008 19:32	402960	1.00	maz
Acenaphthylene	208-96-8	0.00715			0.000500	0.000500	0.000290	mg/L	7/31/2008 19:32	402960	1.00	maz
Anthracene	120-12-7	0.00699			0.000200	0.000500	0.000190	mg/L	7/31/2008 19:32	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.00606			0.000200	0.00250	0.000190	mg/L	7/31/2008 19:32	402960	1.00	maz
Dibenzofuran	132-64-9	0.00800			0.000300	0.000500	0.000290	mg/L	7/31/2008 19:32	402960	1.00	maz
Di-n-butyl Phthalate	84-74-2	0.00775			0.000200	0.00250	0.000190	mg/L	7/31/2008 19:32	402960	1.00	maz
Fluoranthene	206-44-0	0.00849			0.000200	0.000500	0.000190	mg/L	7/31/2008 19:32	402960	1.00	maz
Fluorene	86-73-7	0.00769			0.000200	0.000500	0.000190	mg/L	7/31/2008 19:32	402960	1.00	maz
Naphthalene	91-20-3	0.00630			0.000400	0.000500	0.000380	mg/L	7/31/2008 19:32	402960	1.00	maz
Phenol	108-95-2	0.00298			0.000200	0.000500	0.000190	mg/L	7/31/2008 19:32	402960	1.00	maz
Pyrene	129-00-0	0.00962			0.000200	0.000500	0.000190	mg/L	7/31/2008 19:32	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-P12-071608 MSD
Laboratory Sample ID: 357238-009
Date/Time Sampled .....: 7/16/2008 11:25
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/23/2008 08:00	402330	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.0320			0.00109	0.00500	0.00109	mg/L	7/26/2008 18:57	402545	1.00	klv
Benzene	71-43-2	0.0512			0.00112	0.00500	0.00112	mg/L	7/26/2008 18:57	402545	1.00	klv
Chlorobenzene	108-90-7	0.0572			0.00150	0.00500	0.00150	mg/L	7/26/2008 18:57	402545	1.00	klv
Ethylbenzene	100-41-4	0.0609			0.00142	0.00500	0.00142	mg/L	7/26/2008 18:57	402545	1.00	klv
Methylene Chloride	75-09-2	0.0360			0.00122	0.00500	0.00122	mg/L	7/26/2008 18:57	402545	1.00	klv
Toluene	108-88-3	0.0595			0.00138	0.00500	0.00138	mg/L	7/26/2008 18:57	402545	1.00	klv
Xylenes (total)	1330-20-7	0.176			0.00302	0.0150	0.00302	mg/L	7/26/2008 18:57	402545	1.00	klv

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-P12-071608 MSD
Laboratory Sample ID: 357238-009
Date/Time Sampled .....: 7/16/2008 11:25
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F	Analyst
Method: SW-846 8270C, Water												
Acenaphthene	83-32-9	0.00664			0.000300	0.000500	0.000300	mg/L	7/31/2008 20:00	402960	1.00	maz
Acenaphthylene	208-96-8	0.00603			0.000500	0.000500	0.000300	mg/L	7/31/2008 20:00	402960	1.00	maz
Anthracene	120-12-7	0.00726			0.000200	0.000500	0.000200	mg/L	7/31/2008 20:00	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.00651			0.000200	0.00250	0.000200	mg/L	7/31/2008 20:00	402960	1.00	maz
Dibenzofuran	132-64-9	0.00727			0.000300	0.000500	0.000300	mg/L	7/31/2008 20:00	402960	1.00	maz
Di-n-butyl Phthalate	84-74-2	0.00847			0.000200	0.00250	0.000200	mg/L	7/31/2008 20:00	402960	1.00	maz
Fluoranthene	206-44-0	0.00900			0.000200	0.000500	0.000200	mg/L	7/31/2008 20:00	402960	1.00	maz
Fluorene	86-73-7	0.00730			0.000200	0.000500	0.000200	mg/L	7/31/2008 20:00	402960	1.00	maz
Naphthalene	91-20-3	0.00567			0.000400	0.000500	0.000400	mg/L	7/31/2008 20:00	402960	1.00	maz
Phenol	108-95-2	0.00286			0.000200	0.000500	0.000200	mg/L	7/31/2008 20:00	402960	1.00	maz
Pyrene	129-00-0	0.00998			0.000200	0.000500	0.000200	mg/L	7/31/2008 20:00	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-FD02-071608
Laboratory Sample ID: 357238-010
Date/Time Sampled .....: 7/16/2008 00:00
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/22/2008 14:45	402237	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/26/2008 18:55	402524	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/26/2008 18:55	402524	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/26/2008 18:55	402524	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/26/2008 18:55	402524	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/26/2008 18:55	402524	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/26/2008 18:55	402524	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/26/2008 18:55	402524	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-FD02-071608
Laboratory Sample ID: 357238-010
Date/Time Sampled .....: 7/16/2008 00:00
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
Acenaphthene	83-32-9	0.000300	U		0.000300	0.000500	0.000300	mg/L	7/31/2008 15:50	402960	1.00	maz
Acenaphthylene	208-96-8	0.000300	U		0.000500	0.000500	0.000300	mg/L	7/31/2008 15:50	402960	1.00	maz
Anthracene	120-12-7	0.000566			0.000200	0.000500	0.000200	mg/L	7/31/2008 15:50	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000640	J		0.000200	0.00250	0.000200	mg/L	7/31/2008 15:50	402960	1.00	maz
Dibenzofuran	132-64-9	0.000300	U		0.000300	0.000500	0.000300	mg/L	7/31/2008 15:50	402960	1.00	maz
Di-n-butyl Phthalate	84-74-2	0.000870	J	b	0.000200	0.00250	0.000200	mg/L	7/31/2008 15:50	402960	1.00	maz
Fluoranthene	206-44-0	0.000200	U		0.000200	0.000500	0.000200	mg/L	7/31/2008 15:50	402960	1.00	maz
Fluorene	86-73-7	0.000200	U		0.000200	0.000500	0.000200	mg/L	7/31/2008 15:50	402960	1.00	maz
Naphthalene	91-20-3	0.000639		b	0.000400	0.000500	0.000400	mg/L	7/31/2008 15:50	402960	1.00	maz
Phenol	108-95-2	0.000200	U		0.000200	0.000500	0.000200	mg/L	7/31/2008 15:50	402960	1.00	maz
Pyrene	129-00-0	0.00166			0.000200	0.000500	0.000200	mg/L	7/31/2008 15:50	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-TB04-071608

Laboratory Sample ID: 357238-011

Date/Time Sampled .....: 7/16/2008 00:00

Sample Matrix .....: Trip Blank

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/26/2008 17:40	402524	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/26/2008 17:40	402524	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/26/2008 17:40	402524	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/26/2008 17:40	402524	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/26/2008 17:40	402524	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/26/2008 17:40	402524	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/26/2008 17:40	402524	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW02-071608

Laboratory Sample ID: 357238-012

Date/Time Sampled .....: 7/16/2008 10:59

Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/23/2008 08:00	402330	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/26/2008 18:30	402524	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/26/2008 18:30	402524	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/26/2008 18:30	402524	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/26/2008 18:30	402524	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/26/2008 18:30	402524	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/26/2008 18:30	402524	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/26/2008 18:30	402524	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW02-071608
Laboratory Sample ID: 357238-012
Date/Time Sampled .....: 7/16/2008 10:59
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
2-Methylnaphthalene	91-57-6	0.000390	U		0.000400	0.000500	0.000390	mg/L	8/1/2008 13:32	402960	1.00	maz
Acenaphthene	83-32-9	0.0218			0.000300	0.000500	0.000290	mg/L	8/1/2008 13:32	402960	1.00	maz
Acenaphthylene	208-96-8	0.000300	J		0.000500	0.000500	0.000290	mg/L	8/1/2008 13:32	402960	1.00	maz
Anthracene	120-12-7	0.000420	J		0.000200	0.000500	0.000190	mg/L	8/1/2008 13:32	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000190	U		0.000200	0.00250	0.000190	mg/L	8/1/2008 13:32	402960	1.00	maz
Dibenzofuran	132-64-9	0.00673			0.000300	0.000500	0.000290	mg/L	8/1/2008 13:32	402960	1.00	maz
Fluoranthene	206-44-0	0.000961			0.000200	0.000500	0.000190	mg/L	8/1/2008 13:32	402960	1.00	maz
Fluorene	86-73-7	0.0103			0.000200	0.000500	0.000190	mg/L	8/1/2008 13:32	402960	1.00	maz
Naphthalene	91-20-3	0.00118			0.000400	0.000500	0.000390	mg/L	8/1/2008 13:32	402960	1.00	maz
Phenanthrene	85-01-8	0.000190	U		0.000200	0.000500	0.000190	mg/L	8/1/2008 13:32	402960	1.00	maz
Pyrene	129-00-0	0.000450	J		0.000200	0.000500	0.000190	mg/L	8/1/2008 13:32	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW10A-071608 Laboratory Sample ID: 357238-013

Date/Time Sampled .....: 7/16/2008 11:26 Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/23/2008 08:00	402330	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/26/2008 16:26	402524	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/26/2008 16:26	402524	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/26/2008 16:26	402524	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/26/2008 16:26	402524	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/26/2008 16:26	402524	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/26/2008 16:26	402524	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/26/2008 16:26	402524	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW10A-071608 Laboratory Sample ID: 357238-013

Date/Time Sampled .....: 7/16/2008 11:26 Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
2-Methylnaphthalene	91-57-6	0.000380	U		0.000400	0.000500	0.000380	mg/L	8/1/2008 13:59	402960	1.00	maz
Acenaphthene	83-32-9	0.000290	U		0.000300	0.000500	0.000290	mg/L	8/1/2008 13:59	402960	1.00	maz
Acenaphthylene	208-96-8	0.000290	U		0.000500	0.000500	0.000290	mg/L	8/1/2008 13:59	402960	1.00	maz
Anthracene	120-12-7	0.000190	U		0.000200	0.000500	0.000190	mg/L	8/1/2008 13:59	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000200	J		0.000200	0.00250	0.000190	mg/L	8/1/2008 13:59	402960	1.00	maz
Dibenzofuran	132-64-9	0.000290	U		0.000300	0.000500	0.000290	mg/L	8/1/2008 13:59	402960	1.00	maz
Fluoranthene	206-44-0	0.000190	U		0.000200	0.000500	0.000190	mg/L	8/1/2008 13:59	402960	1.00	maz
Fluorene	86-73-7	0.000190	U		0.000200	0.000500	0.000190	mg/L	8/1/2008 13:59	402960	1.00	maz
Naphthalene	91-20-3	0.000380	U		0.000400	0.000500	0.000380	mg/L	8/1/2008 13:59	402960	1.00	maz
Phenanthrene	85-01-8	0.000190	U		0.000200	0.000500	0.000190	mg/L	8/1/2008 13:59	402960	1.00	maz
Pyrene	129-00-0	0.000190	U		0.000200	0.000500	0.000190	mg/L	8/1/2008 13:59	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW10B-071608
Laboratory Sample ID: 357238-014
Date/Time Sampled .....: 7/16/2008 11:50
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/23/2008 08:00	402330	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/26/2008 16:51	402524	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/26/2008 16:51	402524	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/26/2008 16:51	402524	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/26/2008 16:51	402524	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/26/2008 16:51	402524	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/26/2008 16:51	402524	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/26/2008 16:51	402524	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW10B-071608

Date/Time Sampled .....: 7/16/2008 11:50

Date/Time Received .....: 7/16/2008 16:33

Laboratory Sample ID: 357238-014

Sample Matrix .....: Water

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
Acenaphthene	83-32-9	0.0975			0.000300	0.000500	0.00290	mg/L	8/1/2008 16:41	402960	10.0	maz
Acenaphthylene	208-96-8	0.00113			0.000500	0.000500	0.000290	mg/L	8/1/2008 14:26	402960	1.00	maz
Anthracene	120-12-7	0.00484			0.000200	0.000500	0.000200	mg/L	8/1/2008 14:26	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000200	J		0.000200	0.00250	0.000200	mg/L	8/1/2008 14:26	402960	1.00	maz
Dibenzofuran	132-64-9	0.0392			0.000300	0.000500	0.000590	mg/L	8/1/2008 16:14	402960	2.00	maz
Di-n-butyl Phthalate	84-74-2	0.000200	U		0.000200	0.00250	0.000200	mg/L	8/1/2008 14:26	402960	1.00	maz
Fluoranthene	206-44-0	0.00397			0.000200	0.000500	0.000200	mg/L	8/1/2008 14:26	402960	1.00	maz
Fluorene	86-73-7	0.0457			0.000200	0.000500	0.00200	mg/L	8/1/2008 16:41	402960	10.0	maz
Naphthalene	91-20-3	0.0140			0.000400	0.000500	0.000390	mg/L	8/1/2008 14:26	402960	1.00	maz
Phenol	108-95-2	0.000200	U		0.000200	0.000500	0.000200	mg/L	8/1/2008 14:26	402960	1.00	maz
Pyrene	129-00-0	0.00174			0.000200	0.000500	0.000200	mg/L	8/1/2008 14:26	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW11A-071608
Laboratory Sample ID: 357238-015
Date/Time Sampled .....: 7/16/2008 12:20
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/23/2008 08:00	402330	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/26/2008 17:16	402524	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/26/2008 17:16	402524	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/26/2008 17:16	402524	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/26/2008 17:16	402524	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/26/2008 17:16	402524	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/26/2008 17:16	402524	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/26/2008 17:16	402524	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238 Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW11A-071608
Laboratory Sample ID: 357238-015
Date/Time Sampled .....: 7/16/2008 12:20
Sample Matrix .....: Water
Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
2-Methylnaphthalene	91-57-6	0.000400	U		0.000400	0.000500	0.000400	mg/L	8/1/2008 14:53	402960	1.00	maz
Acenaphthene	83-32-9	0.0200			0.000300	0.000500	0.000300	mg/L	8/1/2008 14:53	402960	1.00	maz
Acenaphthylene	208-96-8	0.000300	U		0.000500	0.000500	0.000300	mg/L	8/1/2008 14:53	402960	1.00	maz
Anthracene	120-12-7	0.000540			0.000200	0.000500	0.000200	mg/L	8/1/2008 14:53	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000200	U		0.000200	0.00250	0.000200	mg/L	8/1/2008 14:53	402960	1.00	maz
Dibenzofuran	132-64-9	0.000300	U		0.000300	0.000500	0.000300	mg/L	8/1/2008 14:53	402960	1.00	maz
Fluoranthene	206-44-0	0.00387			0.000200	0.000500	0.000200	mg/L	8/1/2008 14:53	402960	1.00	maz
Fluorene	86-73-7	0.000890			0.000200	0.000500	0.000200	mg/L	8/1/2008 14:53	402960	1.00	maz
Naphthalene	91-20-3	0.000400	U		0.000400	0.000500	0.000400	mg/L	8/1/2008 14:53	402960	1.00	maz
Phenanthrene	85-01-8	0.000200	U		0.000200	0.000500	0.000200	mg/L	8/1/2008 14:53	402960	1.00	maz
Pyrene	129-00-0	0.00184			0.000200	0.000500	0.000200	mg/L	8/1/2008 14:53	402960	1.00	maz

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW11B-071608

Date/Time Sampled .....: 7/16/2008 12:47

Date/Time Received .....: 7/16/2008 16:33

Laboratory Sample ID: 357238-016

Sample Matrix .....: Water

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 3510C, Water												
Separatory Funnel Liq/Liq Extraction	NA	Complete						N/A	7/23/2008 08:00	402330	1.00	mra
Method: SW-846 8260B, Water												
1,2-Dichloroethane	107-06-2	0.000520	U		0.00109	0.00500	0.000520	mg/L	7/26/2008 18:05	402524	1.00	zfl
Benzene	71-43-2	0.000250	U		0.00112	0.00500	0.000250	mg/L	7/26/2008 18:05	402524	1.00	zfl
Chlorobenzene	108-90-7	0.000470	U		0.00150	0.00500	0.000470	mg/L	7/26/2008 18:05	402524	1.00	zfl
Ethylbenzene	100-41-4	0.000250	U		0.00142	0.00500	0.000250	mg/L	7/26/2008 18:05	402524	1.00	zfl
Methylene Chloride	75-09-2	0.000540	U		0.00122	0.00500	0.000540	mg/L	7/26/2008 18:05	402524	1.00	zfl
Toluene	108-88-3	0.000410	U		0.00138	0.00500	0.000410	mg/L	7/26/2008 18:05	402524	1.00	zfl
Xylenes (total)	1330-20-7	0.00127	U		0.00302	0.0150	0.00127	mg/L	7/26/2008 18:05	402524	1.00	zfl

TRRP Laboratory Test Results

Job Number: 357238

Date: 8/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PRESERVING ATTN: Eric Matzner

Customer Sample ID: WG-1620-MW11B-071608

Laboratory Sample ID: 357238-016

Date/Time Sampled .....: 7/16/2008 12:47

Sample Matrix .....: Water

Date/Time Received .....: 7/16/2008 16:33

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: SW-846 8270C, Water												
Acenaphthene	83-32-9	0.120			0.000300	0.000500	0.00310	mg/L	8/1/2008 17:08	402960	10.0	maz
Acenaphthylene	208-96-8	0.00126			0.000500	0.000500	0.000310	mg/L	8/1/2008 15:20	402960	1.00	maz
Anthracene	120-12-7	0.00472			0.000200	0.000500	0.000210	mg/L	8/1/2008 15:20	402960	1.00	maz
bis(2-ethylhexyl)phthalate	117-81-7	0.000210	U		0.000200	0.00250	0.000210	mg/L	8/1/2008 15:20	402960	1.00	maz
Dibenzofuran	132-64-9	0.0649			0.000300	0.000500	0.00310	mg/L	8/1/2008 17:08	402960	10.0	maz
Di-n-butyl Phthalate	84-74-2	0.000210	U		0.000200	0.00250	0.000210	mg/L	8/1/2008 15:20	402960	1.00	maz
Fluoranthene	206-44-0	0.00383			0.000200	0.000500	0.000210	mg/L	8/1/2008 15:20	402960	1.00	maz
Fluorene	86-73-7	0.0578			0.000200	0.000500	0.00210	mg/L	8/1/2008 17:08	402960	10.0	maz
Naphthalene	91-20-3	0.0772			0.000400	0.000500	0.00410	mg/L	8/1/2008 17:08	402960	10.0	maz
Phenol	108-95-2	0.000210	U		0.000200	0.000500	0.000210	mg/L	8/1/2008 15:20	402960	1.00	maz
Pyrene	129-00-0	0.00163			0.000200	0.000500	0.000210	mg/L	8/1/2008 15:20	402960	1.00	maz

QUALITY CONTROL RESULTS

Job Number.: 357238 Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PR ATTN: Eric Matzner

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8270C Units.....: ug/L Analyst...: maz
Method Description.: Semivolatile Organics, Low Level Batch(s)...: 402622 402960

LCS	Laboratory Control Sample	SVS061808A	402237		07/28/2008	1157

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2-Methylnaphthalene, Water	8.00951		10.0		80.1		26-168	
Naphthalene, Water	7.41943		10.0		74.2		36-139	

LCS	Laboratory Control Sample	SVS061808A	402330		07/28/2008	1251

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2-Methylnaphthalene, Water	8.70257		10.0		87.0		26-168	
Naphthalene, Water	8.26954		10.0		82.7		36-139	

MB	Method Blank	SVS042808A	402237		07/28/2008	1131

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2-Methylnaphthalene, Water	0							
Naphthalene, Water	0							

MB	Method Blank	SVS042808A	402330		07/28/2008	1224

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2-Methylnaphthalene, Water	0							
Naphthalene, Water	0							

MS	Matrix Spike	SVS061808A	357241-6		07/28/2008	1606

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2-Methylnaphthalene, Water	6.29234		10.0	0	63		60-140	
Naphthalene, Water	5.76467		10.0	0	58		30-130	

MS	Matrix Spike	SVS061808A	357238-8		07/28/2008	1727

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2-Methylnaphthalene, Water	7.46234		10.0	0	75		60-140	
Naphthalene, Water	6.87366		10.0	0	69		30-130	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 357238 — Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC — PROJECT: 1620 HOUSTON TX- WOOD PR — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	SVS061808A	357241-6		07/28/2008	1633

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2-Methylnaphthalene, Water	5.77560	6.29234	10.0	0	58		60-140	a
					8.6		30.0	
Naphthalene, Water	5.33391	5.76467	10.0	0	53		30-130	
					7.8		50.0	

MSD	Matrix Spike Duplicate	SVS061808A	357238-9		07/28/2008	1754

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2-Methylnaphthalene, Water	6.39688	7.46234	10.0	0	64		60-140	
					15.4		30.0	
Naphthalene, Water	5.96048	6.87366	10.0	0	60		30-130	
					14.2		50.0	

LCS	Laboratory Control Sample	SVS061808A	402237		07/31/2008	1304

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Acenaphthene, Water	7.96878		10.0		79.7		32-165	
Acenaphthylene, Water	7.88855		10.0		78.9		10-150	
Anthracene, Water	8.01314		10.0		80.1		23-178	
bis(2-ethylhexyl)phthalate, Water	9.81647		10.0		98.2		25-173	
Dibenzofuran, Water	8.71395		10.0		87.1		35-153	
Di-n-butyl Phthalate, Water	9.72681		10.0		97.3		28-185	
Fluoranthene, Water	9.68208		10.0		96.8		28-180	
Fluorene, Water	8.50862		10.0		85.1		30-189	
2-Methylnaphthalene, Water	8.36087		10.0		83.6		26-168	
Naphthalene, Water	7.46269		10.0		74.6		36-139	
Phenanthrene, Water	8.94940		10.0		89.5		26-166	
Pyrene, Water	9.38808		10.0		93.9		28-173	
Phenol, Water	3.29061		10.0		32.9		20-83	

LCS	Laboratory Control Sample	SVS061808A	402330		07/31/2008	1809

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Acenaphthene, Water	8.65122		10.0		86.5		32-165	
Acenaphthylene, Water	8.22403		10.0		82.2		10-150	
Anthracene, Water	8.20740		10.0		82.1		23-178	
bis(2-ethylhexyl)phthalate, Water	9.63234		10.0		96.3		25-173	
Dibenzofuran, Water	8.98945		10.0		89.9		35-153	
Di-n-butyl Phthalate, Water	9.52590		10.0		95.3		28-185	
Fluoranthene, Water	9.77101		10.0		97.7		28-180	
Fluorene, Water	9.03668		10.0		90.4		30-189	
2-Methylnaphthalene, Water	8.58536		10.0		85.9		26-168	
Naphthalene, Water	7.96491		10.0		79.6		36-139	
Phenanthrene, Water	9.02957		10.0		90.3		26-166	
Pyrene, Water	9.40764		10.0		94.1		28-173	
Phenol, Water	4.28959		10.0		42.9		20-83	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 357238 Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PR ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	SVS042808A	402237		07/31/2008	1237

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Acenaphthene, Water	0							
Acenaphthylene, Water	0							
Anthracene, Water	0							
bis(2-ethylhexyl)phthalate, Water	0							
Dibenzofuran, Water	0							
Di-n-butyl Phthalate, Water	0.85928							b
Fluoranthene, Water	0							
Fluorene, Water	0							
2-Methylnaphthalene, Water	0							
Naphthalene, Water	0.61796							b
Phenanthrene, Water	0							
Pyrene, Water	0							
Phenol, Water	0							

MB	Method Blank	SVS042808A	402330		07/31/2008	1741

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Acenaphthene, Water	0							
Acenaphthylene, Water	0							
Anthracene, Water	0							
bis(2-ethylhexyl)phthalate, Water	0							
Dibenzofuran, Water	0							
Di-n-butyl Phthalate, Water	0.86527							b
Fluoranthene, Water	0							
Fluorene, Water	0							
2-Methylnaphthalene, Water	0							
Naphthalene, Water	0							
Phenanthrene, Water	0							
Pyrene, Water	0							
Phenol, Water	0							

MS	Matrix Spike	SVS061808A	357241-6		07/31/2008	1646

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Acenaphthene, Water	7.40191		10.0	0	74		46-118	
Acenaphthylene, Water	6.13570		10.0	0	61		30-130	
Anthracene, Water	5.71718		10.0	0.51137	52		30-130	
bis(2-ethylhexyl)phthalate, Water	5.77295		10.0	0.19624	56		60-140	a
Dibenzofuran, Water	8.02483		10.0	0	80		30-130	
Di-n-butyl Phthalate, Water	7.20269		10.0	0.86539	63		30-130	
Fluoranthene, Water	7.81132		10.0	0	78		30-130	
Fluorene, Water	7.61204		10.0	0	76		30-130	
2-Methylnaphthalene, Water	6.72468		10.0	0	67		60-140	
Naphthalene, Water	5.32979		10.0	0.65926	47		30-130	
Phenanthrene, Water	7.20420		10.0	0.36735	68		30-130	
Pyrene, Water	7.53654		10.0	0	75		26-115	
Phenol, Water	2.32053		10.0	0	23		10-112	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 357238 — Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC — PROJECT: 1620 HOUSTON TX- WOOD PR — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	SVS061808A	357238-8		07/31/2008	1932

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Acenaphthene, Water	7.85618		10.0	0	79		46-118	
Acenaphthylene, Water	7.43285		10.0	0	74		30-130	
Anthracene, Water	7.26475		10.0	0.55708	67		30-130	
bis(2-ethylhexyl)phthalate, Water	6.29982		10.0	0.34463	60		60-140	
Dibenzofuran, Water	8.31435		10.0	0	83		30-130	
Di-n-butyl Phthalate, Water	8.05436		10.0	0.86234	72		30-130	
Fluoranthene, Water	8.82617		10.0	0	88		30-130	
Fluorene, Water	7.99349		10.0	0	80		30-130	
2-Methylnaphthalene, Water	7.66624		10.0	0	77		60-140	
Naphthalene, Water	6.55216		10.0	0.63239	59		30-130	
Phenanthrene, Water	8.16833		10.0	0.36618	78		30-130	
Pyrene, Water	9.99803		10.0	2.12861	79		26-115	
Phenol, Water	3.09383		10.0	0	31		10-112	

MSD	Matrix Spike Duplicate	SVS061808A	357241-6		07/31/2008	1713

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Acenaphthene, Water	6.71948	7.40191	10.0	0	67		46-118	
					9.7		31.0	
Acenaphthylene, Water	5.83754	6.13570	10.0	0	58		30-130	
					5.0		50.0	
Anthracene, Water	5.95625	5.71718	10.0	0.51137	54		30-130	
					4.1		50.0	
bis(2-ethylhexyl)phthalate, Water	6.02487	5.77295	10.0	0.19624	58		60-140	a
					4.3		30.0	
Dibenzofuran, Water	7.32599	8.02483	10.0	0	73		30-130	
					9.1		50.0	
Di-n-butyl Phthalate, Water	7.36497	7.20269	10.0	0.86539	65		30-130	
					2.2		50.0	
Fluoranthene, Water	8.07137	7.81132	10.0	0	81		30-130	
					3.3		50.0	
Fluorene, Water	7.18727	7.61204	10.0	0	72		30-130	
					5.7		50.0	
2-Methylnaphthalene, Water	6.17452	6.72468	10.0	0	62		60-140	
					8.5		30.0	
Naphthalene, Water	4.95301	5.32979	10.0	0.65926	43		30-130	
					7.3		50.0	
Phenanthrene, Water	7.21738	7.20420	10.0	0.36735	69		30-130	
					0.2		50.0	
Pyrene, Water	7.81167	7.53654	10.0	0	78		26-115	
					3.6		31.0	
Phenol, Water	2.12458	2.32053	10.0	0	21		10-112	
					8.8		23.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 357238

Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PR ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	SVS061808A	357238-9		07/31/2008	2000

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Acenaphthene, Water	6.70679	7.85618	10.0	0	67		46-118	
					15.8		31.0	
Acenaphthylene, Water	6.08882	7.43285	10.0	0	61		30-130	
					19.9		50.0	
Anthracene, Water	7.33015	7.26475	10.0	0.55708	68		30-130	
					0.9		50.0	
bis(2-ethylhexyl)phthalate, Water	6.57675	6.29982	10.0	0.34463	62		60-140	
					4.3		30.0	
Dibenzofuran, Water	7.34702	8.31435	10.0	0	73		30-130	
					12.4		50.0	
Di-n-butyl Phthalate, Water	8.55077	8.05436	10.0	0.86234	77		30-130	
					6.0		50.0	
Fluoranthene, Water	9.08965	8.82617	10.0	0	91		30-130	
					2.9		50.0	
Fluorene, Water	7.36927	7.99349	10.0	0	74		30-130	
					8.1		50.0	
2-Methylnaphthalene, Water	6.77132	7.66624	10.0	0	68		60-140	
					12.4		30.0	
Naphthalene, Water	5.73181	6.55216	10.0	0.63239	51		30-130	
					13.4		50.0	
Phenanthrene, Water	8.01782	8.16833	10.0	0.36618	77		30-130	
					1.9		50.0	
Pyrene, Water	10.0792	9.99803	10.0	2.12861	80		26-115	
					0.8		31.0	
Phenol, Water	2.88611	3.09383	10.0	0	29		10-112	
					6.9		23.0	

Test Method.....: SW-846 8260B
Method Description.: Volatile Organics

Units.....: ug/L
Batch(s)...: 402524 402545 402679 402765

Analyst...: zfl

LCS	Laboratory Control Sample	VS072108H	402524-1		07/26/2008	1145

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	49.8367		50.00	ND	99.7		68-127	
Chlorobenzene, Water	50.8440		50.00	ND	101.7		65-129	
1,2-Dichloroethane, Water	46.0968		50.00	ND	92.2		65-133	
Ethylbenzene, Water	48.4969		50.00	ND	97.0		64-132	
Methylene Chloride, Water	44.7073		50.00	ND	89.4		54-133	
Toluene, Water	48.8752		50.00	ND	97.8		63-127	
Xylenes (total), Water	145.773		150.	ND	97.2		37-161	

MB	Method Blank	VS072308C	402524-1		07/26/2008	1300

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Chlorobenzene, Water	ND							
1,2-Dichloroethane, Water	ND							
Ethylbenzene, Water	ND							
Methylene Chloride, Water	ND							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 357238 Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PR ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	VS072308C	402524-1		07/26/2008	1300

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toluene, Water	ND							
Xylenes (total), Water	ND							

MS	Matrix Spike	VS072108E	357205-5	10.00000	07/26/2008	1357

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	55.6429		50.00	3.26342	105		65-125	
Chlorobenzene, Water	53.5690		50.00	ND	107		74-122	
1,2-Dichloroethane, Water	53.6427		50.00	ND	107		60-140	
Ethylbenzene, Water	72.6651		50.00	22.6408	100		60-140	
Methylene Chloride, Water	46.5532		50.00	ND	93		60-140	
Toluene, Water	52.7610		50.00	ND	106		76-125	
Xylenes (total), Water	185.919		150.0	33.4804	102		37-140	

MSD	Matrix Spike Duplicate	VS072108E	357205-5	10.00000	07/26/2008	1421

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	58.2751	55.6429	50.00	3.26342	110		65-125	
					4.6		30.0	
Chlorobenzene, Water	54.5350	53.5690	50.00	ND	109		74-122	
					1.8		30.0	
1,2-Dichloroethane, Water	53.7550	53.6427	50.00	ND	108		60-140	
					0.2		30.0	
Ethylbenzene, Water	73.6448	72.6651	50.00	22.6408	102		60-140	
					1.3		30.0	
Methylene Chloride, Water	49.3327	46.5532	50.00	ND	99		60-140	
					5.8		30.0	
Toluene, Water	53.6058	52.7610	50.00	ND	107		76-125	
					1.6		30.0	
Xylenes (total), Water	190.242	185.919	150.0	33.4804	105		37-140	
					2.3		30.0	

LCS	Laboratory Control Sample	VS072308H	402545-1		07/26/2008	1633

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	47.7079		50.00	ND	95.4		68-127	
Chlorobenzene, Water	52.6033		50.00	ND	105.2		65-129	
1,2-Dichloroethane, Water	40.0843		50.00	ND	80.2		65-133	
Ethylbenzene, Water	51.3773		50.00	ND	102.8		64-132	
Methylene Chloride, Water	40.5611		50.00	ND	81.1		54-133	
Toluene, Water	51.0267		50.00	ND	102.1		63-127	
Xylenes (total), Water	154.038		150.	ND	102.7		37-161	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 357238

Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PR ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	VS072308C	402545-1		07/26/2008	1809

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Chlorobenzene, Water	ND							
1,2-Dichloroethane, Water	ND							
Ethylbenzene, Water	ND							
Methylene Chloride, Water	ND							
Toluene, Water	ND							
Xylenes (total), Water	ND							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	VS072308E	357238-8		07/26/2008	1833

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	50.9074		50.00	ND	102		65-125	
Chlorobenzene, Water	56.3836		50.00	ND	113		74-122	
1,2-Dichloroethane, Water	38.5972		50.00	ND	77		60-140	
Ethylbenzene, Water	56.9375		50.00	ND	114		60-140	
Methylene Chloride, Water	41.1867		50.00	ND	82		60-140	
Toluene, Water	55.5808		50.00	ND	111		76-125	
Xylenes (total), Water	167.158		150.0	ND	111		37-140	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	VS072308E	357238-9		07/26/2008	1857

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	51.1985	50.9074	50.00	ND	102		65-125	
					0.6		30.0	
Chlorobenzene, Water	57.1879	56.3836	50.00	ND	114		74-122	
					1.4		30.0	
1,2-Dichloroethane, Water	32.0120	38.5972	50.00	ND	64		60-140	
					18.7		30.0	
Ethylbenzene, Water	60.9454	56.9375	50.00	ND	122		60-140	
					6.8		30.0	
Methylene Chloride, Water	35.9621	41.1867	50.00	ND	72		60-140	
					13.5		30.0	
Toluene, Water	59.5166	55.5808	50.00	ND	119		76-125	
					6.8		30.0	
Xylenes (total), Water	176.389	167.158	150.0	ND	118		37-140	
					5.4		30.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	VS072808H	402679-1		07/29/2008	1705

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	47.9237		50.00	ND	95.8		68-127	
Chlorobenzene, Water	50.5378		50.00	ND	101.1		65-129	
1,2-Dichloroethane, Water	47.5313		50.00	ND	95.1		65-133	
Ethylbenzene, Water	48.9990		50.00	ND	98.0		64-132	
Methylene Chloride, Water	44.9055		50.00	ND	89.8		54-133	
Toluene, Water	49.0157		50.00	ND	98.0		63-127	
Xylenes (total), Water	150.438		150.	ND	100.3		37-161	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 357238

Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PR ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	VS072308C	402679-1		07/29/2008	1859

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Chlorobenzene, Water	ND							
1,2-Dichloroethane, Water	ND							
Ethylbenzene, Water	ND							
Methylene Chloride, Water	ND							
Toluene, Water	ND							
Xylenes (total), Water	ND							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	VS072308E	357622-6	20.00000	07/29/2008	1946

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, TCLP	47.0298		50.00	ND	94		63-123	
Chlorobenzene, TCLP	51.1840		50.00	ND	102		61-126	
1,2-Dichloroethane, TCLP	41.8308		50.00	ND	84		66-135	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	VS072308E	357622-6	20.00000	07/29/2008	2010

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, TCLP	49.3851	47.0298	50.00	ND	99		63-123	
					4.9		30.0	
Chlorobenzene, TCLP	53.7705	51.1840	50.00	ND	108		61-126	
					4.9		30.0	
1,2-Dichloroethane, TCLP	41.8055	41.8308	50.00	ND	84		66-135	
					0.1		30.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
PB	Prep. Blank	VS072308C		20.00000	07/29/2008	1835

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, TCLP	ND							
Chlorobenzene, TCLP	ND							
1,2-Dichloroethane, TCLP	ND							
Ethylbenzene, TCLP	ND							
Methylene Chloride, TCLP	ND							
Toluene, TCLP	ND							
Xylenes (total), TCLP	ND							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	VS072108H	402765-1		07/30/2008	1324

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	54.7541		50.00	ND	109.5		68-127	
Chlorobenzene, Water	53.6703		50.00	ND	107.3		65-129	
1,2-Dichloroethane, Water	56.5442		50.00	ND	113.1		65-133	
Ethylbenzene, Water	51.6319		50.00	ND	103.3		64-132	
Methylene Chloride, Water	40.2467		50.00	ND	80.5		54-133	
Toluene, Water	51.1232		50.00	ND	102.2		63-127	
Xylenes (total), Water	154.323		150.	ND	102.9		37-161	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 357238

Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PR ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	VS072308C	402765-1		07/30/2008	1443

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Chlorobenzene, Water	ND							
1,2-Dichloroethane, Water	ND							
Ethylbenzene, Water	ND							
Methylene Chloride, Water	ND							
Toluene, Water	ND							
Xylenes (total), Water	ND							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	VS072108E	357678-4	20.00000	07/30/2008	1804

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, TCLP	49.3456		50.00	ND	99		63-123	
Chlorobenzene, TCLP	47.6160		50.00	ND	95		61-126	
1,2-Dichloroethane, TCLP	58.5162		50.00	ND	117		66-135	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	VS072108E	357678-4	20.00000	07/30/2008	1830

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, TCLP	52.5434	49.3456	50.00	ND	105		63-123	
					6.3		30.0	
Chlorobenzene, TCLP	49.9001	47.6160	50.00	ND	100		61-126	
					4.7		30.0	
1,2-Dichloroethane, TCLP	53.6023	58.5162	50.00	ND	107		66-135	
					8.8		30.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
PB	Prep. Blank	VS072308C			07/30/2008	1418

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, TCLP	ND							
Chlorobenzene, TCLP	ND							
1,2-Dichloroethane, TCLP	ND							
Ethylbenzene, TCLP	ND							
Methylene Chloride, TCLP	ND							
Toluene, TCLP	ND							
Xylenes (total), TCLP	ND							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

SURROGATE RECOVERIES REPORT

Job Number.: 357238 Report Date.: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOOD PR ATTN: Eric Matzner

Method.....: Volatile Organics Method Code...: 8260 Prep Batch....:
Batch(s).....: 402524 402545 402679 402765 Test Matrix...: Water Equipment Code: GCMSVOA05

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
357205- 5	MS	WG-1620-MW17C-071508	07/26/2008	102.7	107.6	88.4	103.4
357205- 5	MSD	WG-1620-MW17C-071508	07/26/2008	106.1	110.1	90.6	104.1
357238- 1		WG-1620-FB01-071608	07/27/2008	71.5	127.7	87.7	124.3
357238- 2		WG-1620-MW07-071608	07/30/2008	108.5	105.1	86.2	105.2
357238- 3		WG-1620-P10-071608	07/30/2008	117.8	115.4	110.2	113.9
357238- 4		WG-1620-MW01A-071608	07/30/2008	109.7	99.3	78.9	100.4
357238- 5		WG-1620-FD01-071608	07/30/2008	114.6	106.1	86.5	110.8
357238- 6		WG-1620-MW08-071608	07/29/2008	78.6	103.8	84.8	100.9
357238- 7		WG-1620-P12-071608	07/29/2008	70.6	100.8	76.1	99.6
357238- 8	MS	WG-1620-P12-071608 MS	07/26/2008	82.4	124.9	97.0	119.6
357238- 9	MSD	WG-1620-P12-071608 MSD	07/26/2008	64.5A	132.3A	85.8	128.8
357238- 10		WG-1620-FD02-071608	07/26/2008	96.5	103.6	93.4	101.4
357238- 11		WG-1620-TB04-071608	07/26/2008	95.8	106.1	81.4	101.8
357238- 12		WG-1620-MW02-071608	07/26/2008	97.1	101.7	85.7	98.4
357238- 13		WG-1620-MW10A-071608	07/26/2008	101.6	111.3	88.9	110.7
357238- 14		WG-1620-MW10B-071608	07/26/2008	97.2	104.4	85.6	98.7
357238- 15		WG-1620-MW11A-071608	07/26/2008	95.9	108.5	86.9	102.1
357238- 16		WG-1620-MW11B-071608	07/26/2008	98.0	101.9	82.5	102.0
402524- 1	LCS		07/26/2008	101.2	87.7	92.0	88.5
402524- 1	MB		07/26/2008	94.7	98.8	88.2	95.1
402545- 1	LCS		07/26/2008	73.6	102.9	81.3	96.1
402545- 1	MB		07/26/2008	78.9	104.8	84.7	101.9
402679- 1	LCS		07/29/2008	99.4	104.1	102.8	103.2
402679- 1	MB		07/29/2008	91.1	95.3	87.8	86.7
402765- 1	LCS		07/30/2008	107.2	89.3	87.2	95.9
402765- 1	MB		07/30/2008	110.0	105.4	87.7	101.6

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4	70 - 130
BRFLBE	4-Bromofluorobenzene	70 - 130
DBRFLM	Dibromofluoromethane	70 - 130
TOLD8	Toluene-d8	70 - 130

Method.....: Volatile Organics Method Code...: 8260 Prep Batch....:
Batch(s).....: 402679 402765 Test Matrix...: TCLP Equipment Code: GCMSVOA07

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
357622- 6	MS	VB-25233	07/29/2008	84.5	104.5	88.2	96.2
357622- 6	MSD	VB-25233	07/29/2008	80.0	109.2	86.6	102.2
357678- 4	MS	POST-DILUTION	07/30/2008	103.2	100.4	80.5	101.7
357678- 4	MSD	POST-DILUTION	07/30/2008	103.9	102.6	90.0	99.8
402567--21	PB		07/29/2008	100.2	102.8	96.6	94.5
402647--21	PB		07/30/2008	109.4	111.9	86.9	103.3

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4	70 - 130
BRFLBE	4-Bromofluorobenzene	70 - 130
DBRFLM	Dibromofluoromethane	70 - 130
TOLD8	Toluene-d8	70 - 130

SURROGATE RECOVERIES REPORT

Job Number.: 357238 Report Date.: 08/11/2008

CUSTOMER: 483648 PROJECT: 1620 HOUSTON TX- WOOD PR ATTN: Eric Matzner

Method.....: Semivolatile Organics, Low Level Method Code...: 8270LL Prep Batch....: 402237
Batch(s)....: 402622 402960 Test Matrix...: Water Equipment Code: EGCMS08

Lab ID	DT	Sample ID	Date	246TBP	2FLUBP	2FLUPH	NITRD5	PHEND6	TERD14
357238- 1		WG-1620-FB01-071608	07/31/2008	62.7	95.7	26.5	94.1	20.3	118.3
357238- 2		WG-1620-MW07-071608	07/31/2008	102.4	96.3	36.2	87.9	25.8	119.1
357238- 3		WG-1620-P10-071608	07/31/2008	107.9	89.2	37.8	79.2	25.4	121.5
357238- 4		WG-1620-MW01A-071608	07/31/2008	111.3	99.7	47.1	94.4	34.2	124.1
357238- 4		WG-1620-MW01A-071608	08/01/2008	92.9	87.3	37.3	82.9	19.6	113.3
357238- 4		WG-1620-MW01A-071608	08/01/2008	75.7	83.6	37.0	67.2	20.0	103.8
357238- 5		WG-1620-FD01-071608	07/31/2008	115.6	101.6	46.9	91.5	32.7	123.3
357238- 5		WG-1620-FD01-071608	08/01/2008	94.8	86.4	44.1	80.9	20.7	112.6
357238- 10		WG-1620-FD02-071608	07/31/2008	88.2	75.0	28.7	68.8	21.3	110.2
357241- 6	MS	MW-12W	07/28/2008	95.2	64.8	34.9	189.7A	27.3	74.2
357241- 6	MS	MW-12W	07/31/2008	88.7	79.4	31.2	68.1	25.2	105.7
357241- 6	MSD	MW-12W	07/28/2008	83.2	53.5	24.6	54.1	24.8	71.1
357241- 6	MSD	MW-12W	07/31/2008	78.7	68.4	26.2	59.1	19.3	99.8
402237--21	LCS		07/31/2008	104.3	95.8	46.0	88.3	34.4	124.8
402237--21	MB		07/31/2008	88.2	91.1	47.1	87.1	34.6	125.0
402237--21	LCS		07/28/2008	100.1	80.8	34.7	83.9	36.4	86.9
402237--21	MB		07/28/2008	52.4	74.0	37.3	74.6	23.0	89.3

Test	Test Description	Limits
246TBP	2,4,6-Tribromophenol	10 - 123
2FLUBP	2-Fluorobiphenyl	43 - 116
2FLUPH	2-Fluorophenol	21 - 100
NITRD5	Nitrobenzene-d5	35 - 114
PHEND6	Phenol-d6	10 - 94
TERD14	Terphenyl-d14	33 - 141

Method.....: Semivolatile Organics, Low Level Method Code...: 8270LL Prep Batch....: 402330
Batch(s)....: 402622 402960 Test Matrix...: Water Equipment Code: EGCMS08

Lab ID	DT	Sample ID	Date	246TBP	2FLUBP	2FLUPH	NITRD5	PHEND6	TERD14
357238- 6		WG-1620-MW08-071608	07/31/2008	95.0	86.8	38.6	80.0	28.1	116.3
357238- 7		WG-1620-P12-071608	07/31/2008	101.2	81.9	43.5	76.8	35.1	125.3
357238- 8	MS	WG-1620-P12-071608 MS	07/28/2008	103.7	73.4	41.2	79.4	35.4	82.7
357238- 8	MS	WG-1620-P12-071608 MS	07/31/2008	101.3	86.5	42.9	83.0	32.8	119.2
357238- 9	MSD	WG-1620-P12-071608 MSD	07/28/2008	102.9	59.6	43.4	71.5	33.3	85.8
357238- 9	MSD	WG-1620-P12-071608 MSD	07/31/2008	101.9	71.9	40.8	75.9	31.4	123.5
357238- 12		WG-1620-MW02-071608	08/01/2008	102.2	75.5	42.5	75.1	29.6	113.3
357238- 13		WG-1620-MW10A-071608	08/01/2008	85.8	74.4	37.8	79.5	19.3	117.4
357238- 14		WG-1620-MW10B-071608	08/01/2008	110.6	86.2	53.3	85.7	38.9	112.0
357238- 14		WG-1620-MW10B-071608	08/01/2008	100.9	81.5	47.0	80.8	34.9	108.1
357238- 14		WG-1620-MW10B-071608	08/01/2008	91.2	81.5	36.3	71.9	20.9	109.3
357238- 15		WG-1620-MW11A-071608	08/01/2008	91.2	79.2	41.2	77.0	29.1	108.6
357238- 16		WG-1620-MW11B-071608	08/01/2008	109.4	86.3	51.4	85.4	36.7	120.0
357238- 16		WG-1620-MW11B-071608	08/01/2008	78.5	83.9	39.8	68.7	15.5	111.3
402330--21	LCS		07/28/2008	104.8	85.3	68.3	96.5	48.0	93.9
402330--21	LCS		07/31/2008	107.7	103.1	61.5	98.8	46.8	139.3
402330--21	MB		07/28/2008	56.7	82.0	42.7	85.3	24.9	93.4
402330--21	MB		07/31/2008	87.1	94.3	50.8	92.3	39.5	134.8

SURROGATE RECOVERIES REPORT

Job Number.: 357238 Report Date.: 08/11/2008

CUSTOMER: 483648 PROJECT: 1620 HOUSTON TX- WOOD PR ATTN: Eric Matzner

Method.....: Semivolatile Organics, Low Level Method Code...: 8270LL Prep Batch....: 402330
Batch(s).....: 402622 402960 Test Matrix...: Water Equipment Code: EGCMS08

Test	Test Description	Limits
246TBP	2,4,6-Tribromophenol	10 - 123
2FLUBP	2-Fluorobiphenyl	43 - 116
2FLUPH	2-Fluorophenol	21 - 100
NITRD5	Nitrobenzene-d5	35 - 114
PHEND6	Phenol-d6	10 - 94
TERD14	Terphenyl-d14	33 - 141

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field,(e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reportesd as the final result.
- m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, mutltiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

U - This qualifier indicates that the analyte was analyzed but not detected.
J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

A - Matrix interference present in sample.
a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
b - Target analyte was found in the method blank.
M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

observed above the RL in the associated samples.
G - Marginal outlier within 1% of acceptance criteria.
r - RPD value is outside method acceptance criteria.
C - Poor RPD values observed due to the non-homogenous nature of the sample.
O - Sample required dilution due to matrix interference.
D - Sample reported from a dilution.
d - Spike and/or surrogate diluted.
E - The reported concentration exceeds the instrument calibration.
F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
q - See the subcontract final report for qualifier explanation.
W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
K - High recovery will not affect the quality of reported results.
Z - See case narrative.

Explanation of Organic QC Outliers:

e - Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
T - Sample analysis yielded poor surrogate recovery.
R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
X - Gaseous compound. In-house QC limits are advisory.
Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
e - Serial dilution failed due to matrix interference.
g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
N - Spiked sample recovery is not within control limits.
n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
* - Duplicate analysis is not within control limits.

Abbreviations:

Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
CCV - Continuing Calibration Verification
CRA - Low level standard check - GFAA, Mercury
CRI - Low level standard check - ICP
Dil Fac - Dilution Factor - Secondary dilution analysis

DLFac - Detection Limit Factor
DU - Duplicate
EB - Extraction Blank (TCLP, SPLP, etc.)
ICAL - Initial Calibration
ICB - Initial Calibration Blank
ICV - Initial Calibration Verification
ISA - Interference Check Sample A - ICP
ISB - Interference Check Sample B - ICP
LCD - Laboratory Control Duplicate
LCS - Laboratory Control Sample
MB - Method Blank
MD - Method Duplicate
MDL - Method Detection Limit
MQL - Method Quantitation Limit (TRRP)
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ND - Not Detected
PB - Preparation Blank
PREPF - Preparation Factor
RL - Reporting Limit
RPD - Relative Percent Difference
RRF - Relative Response Factor
RT - Retention Time
SQL - Sample Quantitation Limit (TRRP)
TIC - Tentatively Identified Compound

Method References:

(1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-94-111 Methods for the Determination of METals in Environmental Samples, Supplement I, May 1994.
(3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
(4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
(5) HACH Water Analysis Handbook 3rd Edition (1997).
(6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
(7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.

(9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

LABORATORY CHRONICLE

Job Number: 357238 Date: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WOO ATTN: Eric Matzner

Lab ID: 357238-1 Client ID: WG-1620-FB01-071608 Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
	Electronic Data Deliverables	1				
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402237		07/22/2008 1445	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402237	07/31/2008 1332	1.00000
SW-846 8260B	Volatile Organics	1	402545		07/27/2008 0248	1.00000

Lab ID: 357238-2 Client ID: WG-1620-MW07-071608 Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402237		07/22/2008 1445	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402237	07/31/2008 1359	1.00000
SW-846 8260B	Volatile Organics	1	402765		07/30/2008 1508	1.00000

Lab ID: 357238-3 Client ID: WG-1620-P10-071608 Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402237		07/22/2008 1445	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402237	07/31/2008 1427	1.00000
SW-846 8260B	Volatile Organics	1	402765		07/30/2008 1533	1.00000

Lab ID: 357238-4 Client ID: WG-1620-MW01A-071608 Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402237		07/22/2008 1445	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402237	07/31/2008 1455	1.00000
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402237	08/01/2008 1239	5.00000
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402237	08/01/2008 1547	10.0000
SW-846 8260B	Volatile Organics	1	402765		07/30/2008 1559	1.00000

Lab ID: 357238-5 Client ID: WG-1620-FD01-071608 Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402237		07/22/2008 1445	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402237	07/31/2008 1522	1.00000
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402237	08/01/2008 1305	5.00000
SW-846 8260B	Volatile Organics	1	402765		07/30/2008 1624	1.00000

Lab ID: 357238-6 Client ID: WG-1620-MW08-071608 Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402330		07/23/2008 0800	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	07/31/2008 1837	1.00000
SW-846 8260B	Volatile Organics	1	402679		07/29/2008 2303	1.00000

Lab ID: 357238-7 Client ID: WG-1620-P12-071608 Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402330		07/23/2008 0800	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	07/31/2008 1904	1.00000
SW-846 8260B	Volatile Organics	1	402679		07/29/2008 2336	1.00000

Lab ID: 357238-8 Client ID: WG-1620-P12-071608 MS Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402330		07/23/2008 0800	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	07/31/2008 1932	1.00000
SW-846 8260B	Volatile Organics	1	402545		07/26/2008 1833	1.00000

Lab ID: 357238-9 Client ID: WG-1620-P12-071608 MSD Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402330		07/23/2008 0800	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	07/31/2008 2000	1.00000
SW-846 8260B	Volatile Organics	1	402545		07/26/2008 1857	1.00000

LABORATORY CHRONICLE

Job Number: 357238

Date: 08/11/2008

CUSTOMER: Pastor, Behling & Wheeler, LLC PROJECT: 1620 HOUSTON TX- WCO ATTN: Eric Matzner

Lab ID: 357238-10 Client ID: WG-1620-FD02-071608

Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402237		07/22/2008	1445	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402237	07/31/2008	1550	1.00000
SW-846 8260B	Volatile Organics	1	402524		07/26/2008	1855	1.00000

Lab ID: 357238-11 Client ID: WG-1620-TB04-071608

Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 8260B	Volatile Organics	1	402524		07/26/2008	1740	1.00000

Lab ID: 357238-12 Client ID: WG-1620-MW02-071608

Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402330		07/23/2008	0800	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	08/01/2008	1332	1.00000
SW-846 8260B	Volatile Organics	1	402524		07/26/2008	1830	1.00000

Lab ID: 357238-13 Client ID: WG-1620-MW10A-071608

Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402330		07/23/2008	0800	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	08/01/2008	1359	1.00000
SW-846 8260B	Volatile Organics	1	402524		07/26/2008	1626	1.00000

Lab ID: 357238-14 Client ID: WG-1620-MW10B-071608

Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402330		07/23/2008	0800	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	08/01/2008	1426	1.00000
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	08/01/2008	1614	2.00000
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	08/01/2008	1641	10.0000
SW-846 8260B	Volatile Organics	1	402524		07/26/2008	1651	1.00000

Lab ID: 357238-15 Client ID: WG-1620-MW11A-071608

Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402330		07/23/2008	0800	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	08/01/2008	1453	1.00000
SW-846 8260B	Volatile Organics	1	402524		07/26/2008	1716	1.00000

Lab ID: 357238-16 Client ID: WG-1620-MW11B-071608

Date Recvd: 07/16/2008 Sample Date: 07/16/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3510C	Extraction (Sep. Funnel) SVOC Low Level	1	402330		07/23/2008	0800	
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	08/01/2008	1520	1.00000
SW-846 8270C	Semivolatile Organics, Low Level	1	402960	402330	08/01/2008	1708	10.0000
SW-846 8260B	Volatile Organics	1	402524		07/26/2008	1805	1.00000

SITE:	Union Pacific Railroad Company (UPRR) Houston Wood Preserving Works Houston, Texas (PBW Project No. 1358-230)
UPRR SITE ID:	Houston, TX – Wood Preserving Works (99000484-HWPW)
CLIENT:	Pastor, Behling & Wheeler, LLC (PBW)
EVENT:	Semi-Annual Compliance Monitoring – July 2008 (2H08)
INTENDED USE:	Ten groundwater samples from background and compliance wells were collected during a semi-annual monitoring event from the closed surface impoundment SWMU No. 1. The analytical data will be used to monitor chemicals of concern (COCs) in the groundwater that have been identified during past investigations and to evaluate whether migration of COCs could result in a risk to human or ecological health.
LABORATORY:	TestAmerica Analytical Testing Corporation (Houston, TX) Work Order: 357238
TESTS/ METHODS:	Volatile Organics (VOC) SW-846 8260B Semivolatile Organics (SVOC) SW-846 3510C/ 8270C
SAMPLES:	Ten groundwater samples Two field duplicates One matrix spike/matrix spike duplicate (MS/MSD) pair One field blank One trip blank (See Table 1 for a complete listing of samples and target analytes.)

QAA completed a third-party review of the above chemical analysis data for conformance with the requirements of the Texas Risk Reduction Program (TRRP) guidance document, *Review and Reporting of COC Concentration Data* (RGG-366/TRRP-13) and adherence to project objectives. The results of the review are discussed in this Data Usability Summary (DUS).

All samples collected during the event were included in the review. QAA completed the review using the following laboratory submittals and project data:

- the laboratory reportable data as defined in TRRP-13;
- the Laboratory Review Checklists (LRCs) and associated exception reports; and
- the field notes on sampling activities.

The review of the reportable data included the Quality Control (QC) parameters listed below, as required per TRRP-13, using the applicable analytical method and project requirements:

- Chain-of-Custody Procedures
- Sample Condition - Holding Time, Preservation, and Containers
- Field Procedures
- Results Reporting Procedures
- Laboratory and Field Blanks

- Laboratory Control Spike and Matrix Spike Recoveries
- Surrogate Recoveries
- Laboratory, Matrix, and Field Duplicate Precision

Additionally, QAA used the LRCs to evaluate the following QC parameters:

- Method Quantitation Limits (MQLs)
- Method Detection Limits (MDLs)
- Instrument Tuning, Calibration and Performance
- Internal Standards

No project specific criteria have been specified for this site and thus the reviewer selected appropriate criteria as follows:

- Organics: 60-140% spike recovery (but not less than 10%) and ± MQL difference or 40% RPD (for laboratory duplicates) as recommended in TRRP-13
- Aqueous Samples: ± 2x MQL difference or 30% RPD (for field duplicates)

The results of the review are summarized in Table 2, which lists all of the qualified results for environmental samples. The checklists used by the reviewer are included as Attachment 1.

USABILITY SUMMARY

1. Usability Of Unqualified Non-Detects – For all tests, non-detects are reported as less than the Sample Detection Limit (SDL) as required per TRRP. Additionally, according to the LRC, an MDL study was performed for each target analyte and the MDLs were checked for reasonableness. The Levels of Required Performance (LORPs) for the site have been defined by PBW as the Tier 1 Protective Concentration Levels (PCLs), $^{GW}GW_{Ing}$, for residential land use. As needed per TRRP, the Unadjusted MQL stated by the laboratory is at or below the LORP for each target analyte, and thus the results can be used to demonstrate conformance with critical PCLs.
2. Usability Of Qualified Data – There are no major QC deficiencies and thus all data is usable for the intended use. Data for various analytes is qualified as biased low (JL or UJL) or estimated (J) due to minor QC deficiencies (see Table 2). Results that are biased low can be used for determining the presence of the analyte and as an indication that the concentration of the analyte exceeds a given criterion. However, the concentration reported for detects or the SDL for non-detects may be low. Results that are biased high can be used for determining the presence of the analyte and as an indication that the concentration of the analyte is less than a given criterion. However, the concentration reported for detects may be high. Similarly, results that are estimated may be either low or high. Results for 2-Methylnaphthalene, Dibenzofuran, and Naphthalene in MW01A and its field duplicate (FD01) are qualified as estimated (J) due to poor precision for the field duplicate pair. For a conservative approach, the higher results (from the original sample) should be used. Data for Di-n-butyl Phthalate and Naphthalene are qualified as blank affected (U) due to the presence of these analytes in a laboratory blank and/or field blank at a comparable level. The analytes should be considered not detected at the reported concentration.

QAA Reviewer: Taryn G. Scholz (Name) 1/7/2009 (Date)

QC PARAMETER	QC OUTCOME
Chain-of-Custody	Proper sample custody procedures were followed. This confirms that the integrity of the samples was maintained.
Sample Condition	Samples were collected in appropriate containers, properly preserved in the field, and prepared and analyzed within the holding times as required in the analytical methods, which ensures that the samples were not affected by analyte degradation.
Field Procedures	Wells were inspected and gauged and then purged and sampled using a low-flow technique (0.1 liters per minute) and dedicated tubing. Field instruments were calibrated daily. All samples were immediately put on ice and kept on ice until delivered to the laboratory. Two field duplicates (one for each transmissive zone), one MS/MSD pair, and one field blank (one for each day of sampling) were collected with the ten investigative samples. Readings for pH, temperature, turbidity, dissolved oxygen, and specific conductivity were recorded and wells were purged until the well conditions stabilized (i.e., no parameter measurement varied by more than 10% between two consecutive readings).
Results Reporting	The analytical results include a Result, MDL, MQL, and SDL. The MQL is unadjusted, i.e., does not include correction for sample-specific actions such as dilution or use of a smaller sample aliquot. Results are reported in mg/L. As required per TRRP, results for non-detects are reported as less than the SDL. The laboratory qualified results for detects between the SDL and the unadjusted MQL with a J-flag to indicate that the concentration is estimated. The DUQ includes a flag for the concentration being below the MQL (with adjustment for sample-specific actions) plus any other QC deficiencies. Results for some detects are reported from a dilution due to a high concentration, but there are no elevated reporting limits for a non-detect in any sample.
MQLs	The LORPs for the site are defined as the Tier 1 Protective Concentration Levels (PCLs) for residential land use and a Class 2 groundwater resource (i.e., the $^{GW}GW_{Ing}$ in TCEQ Table 3 dated April 23, 2008). For each target analyte, the unadjusted MQL is at or below the LORP.
MDLs	According to the LRC, an MDL study was performed for each target analyte, and the MDLs were checked for reasonableness and either adjusted or supported by the analysis of Detectability Check Standards (DCSs) as required per TRRP-13.
Laboratory Blanks	The laboratory blanks do not contain any target analytes above the detection limit, which confirms that no contamination was introduced in the laboratory, except as follows:

Test	QC Batch	Analyte	Blank Concentration
SVOC	402237	Di-n-butyl Phthalate	0.000859 J mg/L
SVOC	402237	Naphthalene	0.000618 mg/L

QC PARAMETER	QC OUTCOME

Laboratory Blanks

Test	QC Batch	Analyte	Blank Concentration
SVOC	402330	Di-n-butyl Phthalate	0.000865 J mg/L

The reviewer qualified any detects in the samples associated with the blank (extracted in the same batch) at a level comparable to that in the blank (less than or equal to 5 times the blank concentration, 10 times for phthalates) as blank affected (U).

Field Blanks

The field blanks do not contain any target analytes above the detection limit, which confirms that no contamination was introduced in the field, except as follows:

Test	Field Blank	Analyte	Blank Concentration
SVOC	WG-1620-FB01-071608	Di-n-butyl Phthalate	0.000960 J mg/L
SVOC	WG-1620-FB01-071608	Naphthalene	0.000689 mg/L

The reviewer qualified detects in the samples associated with a blank (all samples for this event since all were collected on the same date) at a level comparable to that in the blank (less than or equal to 5 times the blank concentration, 10 times for phthalates) as blank affected (U). Note that these analytes were also detected in the laboratory blanks.

Laboratory Control Spike Recovery

The laboratory prepared one Laboratory Control Spike (LCS) with each analytical batch and reported recoveries for all target analytes. All recoveries are within the TRRP recommended limits, which indicates good accuracy for the preparation and analysis technique on a sample free of matrix effects, except as follows:

Test	QC Batch	Analyte	LCS %Recovery
SVOC	402237	Phenol	32.9
SVOC	402330	Phenol	42.9

Both of the recoveries are below the lower limit (but greater than 10%), and thus the reviewer qualified the results (all non-detects) in the associated samples (all samples for this event since all were extracted in one of these two batches) as estimated with a low bias (UJL).

Matrix Spike Recovery

The laboratory prepared one Matrix Spike (MS) and Matrix Spike Duplicate (MSD) pair for each analytical batch, including one pair prepared using a sample from the site (P12) as indicated on the custody record, and reported the recoveries for all target analytes. For the P12 pair, all of the average recoveries are within the TRRP recommended limits, which indicates good accuracy for the preparation/ analysis technique on this particular sample matrix, except as follows:

Test	QC Batch	Parent Sample ID	Analyte	MS/MSD %R
SVOC	402330	WG-1620-P12-071608	Naphthalene	55
SVOC	402330	WG-1620-P12-071608	Phenol	30

QC PARAMETER	QC OUTCOME
Matrix Spike Recovery	The recoveries are below the limit, and thus the reviewer qualified the detects and non-detects in the associated samples (samples extracted in the same batch) as estimated with a low bias (JL/ UJL).
Surrogate Recovery	The laboratory added multiple surrogates to each sample for each test. All recoveries are within the laboratory limits, which indicates that the accuracy of the preparation and analysis technique is acceptable for each particular sample.
Laboratory Duplicate Precision	The laboratory did not prepare Laboratory Control Spike Duplicates (LCSD) as they are not required per the analytical methods or TRRP. The reviewer used the matrix and field duplicates to assess precision.
Matrix Duplicate Precision	For the MSD, all of the RPDs are within the TRRP recommended limits, which indicates good precision for the preparation/ analysis technique on this particular sample matrix.
Field Duplicate Precision	Two field duplicate pairs were collected with the ten investigative samples. RPDs (or the difference between results for concentrations <5x MQL and non-detects) are within the TRRP criteria, except as follows:

Sample Date	Original Sample ID	Analyte	FD RPD
7/16/2008	WG-1620-MW01A-071608	2-Methylnaphthalene	132*
7/16/2008	WG-1620-MW01A-071608	Dibenzofuran	130*
7/16/2008	WG-1620-MW01A-071608	Naphthalene	137

*The difference is greater than ±2x MQL for these low-level results.

Thus, the criteria are met for all target analytes for one pair and for all but three target analytes for the second pair. Thus, there is no indication of a widespread field precision problem and the reviewer only qualified the original sample and field duplicate (FD01). Results were qualified as estimated (J) and, for a conservative approach, the higher results (from the original sample) should be used.

GCMS Tuning	According to the LRCs, tuning data met the criteria for ion abundance in the analytical method.
Instrument Calibration	According to the LRC, initial and continuing calibration data met method requirements. This indicates the instruments were properly calibrated to measure target analyte concentrations.
Internal Standards	According to the LRCs, the internal standard (IS) area counts and retention times were within method requirements.

TABLE 1
HOUSTON, TX – WOOD PRESERVING WORKS
SEMI-ANNUAL COMPLIANCE MONITORING – JULY 2008

SAMPLES COLLECTED

LAB ID	SAMPLE ID	SAMPLE MATRIX	SAMPLE DATE	TESTS	VOC QC BATCH	SVOC QC BATCH
357238-001	WG-1620-FB01-071608[1]	water	7/16/08	VOC, SVOC (A & B)	402545	402237
357238-002	WG-1620-MW07-071608	water	7/16/08	VOC, SVOC (A)	402765	402237
357238-003	WG-1620-P10-071608	water	7/16/08	VOC, SVOC (B)	402765	402237
357238-004	WG-1620-MW01A-071608	water	7/16/08	VOC, SVOC (A)	402765	402237
357238-005	WG-1620-FD01-071608[2]	water	7/16/08	VOC, SVOC (A)	402765	402237
357238-006	WG-1620-MW08-290108	water	7/16/08	VOC, SVOC (A)	402679	402330
357238-007	WG-1620-P12-071608	water	7/16/08	VOC, SVOC (B)	402679	402330
357238-008	WG-1620-P12-071608 MS	water	7/16/08	VOC, SVOC (B)	402545	402330
357238-009	WG-1620-P12-071608 MSD	water	7/16/08	VOC, SVOC (B)	402545	402330
357238-010	WG-1620-FD02-071608[3]	water	7/16/08	VOC, SVOC (B)	402524	402237
357238-011	WG-1620-TB04-071608[4]	water	7/16/08	VOC	402524	NA
357238-012	WG-1620-MW02-071608	water	7/16/08	VOC, SVOC (A)	402524	402330
357238-013	WG-1620-MW10A-071608	water	7/16/08	VOC, SVOC (A)	402524	402330
357238-014	WG-1620-MW10B-071608	water	7/16/08	VOC, SVOC (B)	402524	402330
357238-015	WG-1620-MW11A-071608	water	7/16/08	VOC, SVOC (A)	402524	402330
357238-016	WG-1620-MW11B-071608	water	7/16/08	VOC, SVOC (B)	402524	402330

(1) Field blank
(2) Field duplicate of WG-1620-MW01A-071608
(3) Field duplicate of WG-1620-P12-071608
(4) Trip blank

TARGET ANALYTES

Volatile Organics (VOC)	Semivolatile Organics (SVOC) A-Transmissive Zone (A list)	Semivolatile Organics (SVOC) B-Transmissive Zone (B list)
1,2-Dichloroethane	2-Methylnaphthalene	Acenaphthene
Benzene	Acenaphthene	Acenaphthylene
Chlorobenzene	Acenaphthylene	Anthracene
Ethylbenzene	Anthracene	bis(2-Ethylhexyl)phthalate
Methylene Chloride	bis(2-Ethylhexyl)phthalate	Dibenzofuran
Toluene	Dibenzofuran	Di-n-butyl Phthalate
Xylenes (total)	Fluoranthene	Fluoranthene
	Fluorene	Fluorene
	Naphthalene	Naphthalene
	Phenanthrene	Phenol
	Pyrene	Pyrene

TABLE 2
HOUSTON, TX – WOOD PRESERVING WORKS
SEMI-ANNUAL COMPLIANCE MONITORING – JULY 2008

QUALIFIED SAMPLE RESULTS

LAB ID	SAMPLE ID	ANALYTE	DUQ	REASON
357238-002	WG-1620-MW07-071608	Acenaphthylene	J	Result is between SDL and MQL
		Naphthalene	U	Laboratory blank contamination (0.000618 mg/L); Field blank contamination (0.000689 mg/L)
		Phenanthrene	J	Result is between SDL and MQL
357238-003	WG-1620-P10-071608	bis(2-Ethylhexyl)phthalate	J	Result is between SDL and MQL
		Di-n-butyl Phthalate	U	Laboratory blank contamination (0.000859 J mg/L); Field blank contamination (0.000960 J mg/L); Result is between SDL and MQL
		Fluoranthene	J	Result is between SDL and MQL
		Naphthalene	U	Laboratory blank contamination (0.000618 mg/L); Field blank contamination (0.000689 mg/L)
		Phenol	UJL	Low LCS recovery (32.9%)
357238-004	WG-1620-MW01A-071608	2-Methylnaphthalene	J	Poor precision (Difference > ±2x MQL) for field duplicate pair collected at this location
		bis(2-Ethylhexyl)phthalate	J	Result is between SDL and MQL
		Dibenzofuran	J	Poor precision (Difference > ±2x MQL) for field duplicate pair collected at this location
		Naphthalene	J	Poor precision (137 RPD) for field duplicate pair collected at this location
357238-005	WG-1620-FD01-071608	2-Methylnaphthalene	J	Poor precision (Difference > ±2x MQL) for field duplicate pair collected at this location
		bis(2-Ethylhexyl)phthalate	J	Result is between SDL and MQL
		Dibenzofuran	J	Poor precision (Difference > ±2x MQL) for field duplicate pair collected at this location
		Naphthalene	U	Field blank contamination (0.000689 mg/L); Poor precision (137 RPD) for field duplicate pair collected at this location
357238-006	WG-1620-MW08-290108	Acenaphthylene	J	Result is between SDL and MQL
		Naphthalene	U	Field blank contamination (0.000689 mg/L); Low ave recovery (55%) for MS/MSD prepared using sample from P12
		Phenanthrene	J	Result is between SDL and MQL

TABLE 2
HOUSTON, TX – WOOD PRESERVING WORKS
SEMI-ANNUAL COMPLIANCE MONITORING – JULY 2008

QUALIFIED SAMPLE RESULTS

LAB ID	SAMPLE ID	ANALYTE	DUQ	REASON
357238-007	WG-1620-P12-071608	bis(2-Ethylhexyl)phthalate	J	Result is between SDL and MQL
		Di-n-butyl Phthalate	U	Laboratory blank contamination (0.000865 J mg/L); Field blank contamination (0.000960 J mg/L); Result is between SDL and MQL
		Naphthalene	U	Field blank contamination (0.000689 mg/L); Low ave recovery (55%) for MS/MSD prepared using sample from P12
		Phenol	UJL	Low LCS recovery (42.9%); Low ave recovery (30%) for MS/MSD prepared using sample from P12
357238-010	WG-1620-FD02-071608	bis(2-Ethylhexyl)phthalate	J	Result is between SDL and MQL
		Di-n-butyl Phthalate	U	Laboratory blank contamination (0.000859 J mg/L); Field blank contamination (0.000960 J mg/L); Result is between SDL and MQL
		Naphthalene	U	Laboratory blank contamination (0.000618 mg/L); Field blank contamination (0.000689 mg/L)
		Phenol	UJL	Low LCS recovery (32.9%)
357238-012	WG-1620-MW02-071608	Acenaphthylene	J	Result is between SDL and MQL
		Anthracene	J	Result is between SDL and MQL
		Naphthalene	U	Field blank contamination (0.000689 mg/L); Low ave recovery (55%) for MS/MSD prepared using sample from P12
		Pyrene	J	Result is between SDL and MQL
357238-013	WG-1620-MW10A-071608	bis(2-Ethylhexyl)phthalate	J	Result is between SDL and MQL
		Naphthalene	UJL	Low ave recovery (55%) for MS/MSD prepared using sample from P12
357238-014	WG-1620-MW10B-071608	bis(2-Ethylhexyl)phthalate	J	Result is between SDL and MQL
		Naphthalene	JL	Low ave recovery (55%) for MS/MSD prepared using sample from P12
		Phenol	UJL	Low LCS recovery (42.9%); Low ave recovery (30%) for MS/MSD prepared using sample from P12
357238-015	WG-1620-MW11A-071608	Naphthalene	UJL	Low ave recovery (55%) for MS/MSD prepared using sample from P12

TABLE 2
HOUSTON, TX – WOOD PRESERVING WORKS
SEMI-ANNUAL COMPLIANCE MONITORING – JULY 2008

QUALIFIED SAMPLE RESULTS

LAB ID	SAMPLE ID	ANALYTE	DUQ	REASON
357238-016	WG-1620-MW11B-071608	Naphthalene	JL	Low ave recovery (55%) for MS/MSD prepared using sample from P12
		Phenol	UJL	Low LCS recovery (42.9%); Low ave recovery (30%) for MS/MSD prepared using sample from P12

U – Blank affected; The analyte was not detected above 5x (10x for common contaminants) the level in an associated blank.
UJ – Estimated data; The analyte was not detected above the reported sample detection limit (SDL) however, the SDL is approximate due to exceedance of one or more QC requirements.
J – Estimated data; The reported sample concentration is approximate due to exceedance of one or more QC requirements.
R – Rejected data; Serious QC deficiencies make it impossible to verify the absence or presence of this analyte.

H – Bias in sample result is likely to be high
L – Bias in sample result is likely to be low

NOTE: For multiple deficiencies, the reviewer applied the most severe flag. (R>U>J>JL/JH and R>UJ>UJL)

ATTACHMENT 1
REVIEWER CHECKLISTS

Data Usability Review Checklist

Client Name: Pastor, Behling & Wheeler, LLC	Project Number: 1358-230 (2H08)
Site Name: UPRR HWPW 99000484	Project Manager: Eric Matzner
Laboratory: TestAmerica Houston	Laboratory Job No: 357238
Reviewer: Taryn Scholz	Date Checked: 1/5/09
Parameters: VOC, SVOC	Methods: 8260B, 3510C/ 8270C

ITEM	YES	NO	N/A	COMMENTS
Signed Cover Page included?	x			
R1 Date of sample collection included?	x			
R1 Sample temp (2-6 C)?	x			
R1 COCs properly executed *and seals used?*	x			no seals (hand-deliv); no.1 Received By time shows gap
R1 *Samples rec'd within 2 days of collection?*	x			
R2 Field, Laboratory, and Batch ID included?	x			batch ID on sample results
R3 Date of analysis included?	x			
R3 Date of sample preparation included?	x			
R3 *NDs at SDL and* MQLs included?	x			MQLs are unadjusted, i.e. no dil correction, J-vaues correct; MDL looks incorrect for Aceny but SDL and RRs ok so no action
R3 Holding time to analysis not expired?	x			VOC - 14 days; SVOC - 40 days
R3 Holding time to preparation not expired?	x			SVOC - 7 days
R3 No elevated reporting limits for NDs?	x			some TAs reported from dilution due to high conc (NDs at no dilution)
R3 Method references included?	x			
R3 Sample matrix included?	x			
R3 Sample results included?	x			
R3 Soils on dry weight?			x	
R9 Evaluate unadjusted MQLs? *(<LORPs)*	x			
R10 *LRC covers all necessary items?*	x			
R10 Case narrative included, where required *(QC deficiency or elev SQL for 350.51,.79)?*	x			
S10 MDLs reasonable per DCS or LCS?	x			per LRC
FN1 Field instruments calibrated daily?	x			
FN2 Well conditions constant before sampling?	x			
FN3 Containers and preservative appropriate?	x			(VOC pH<2, 4 C; SVOC G, 4 C)
FN4 Samples filtered? If so, give turbid/size			x	no metals
FN5 Sampling sequence from low to high conc?			x	dedicated tubing

Definitions: AA - Atomic Absorption; %D - Percent Difference, ICP - Inductively Coupled Plasma; IDL - Instrument Detection Limit; MDL - Method Detection Limit; %R - Percent Recovery; RF - Response Factor; RPD - Relative Percent Difference; RRT - Relative Retention Time; RSD - Relative Standard Deviation.

COMMENTS

Data Usability Review Checklist: GC/MS

Client Name: Pastor, Behling & Wheeler, LLC				Project Number: 1358-230 (2H08)		
Site Name: UPRR HWPW 99000484				Project Manager: Eric Matzner		
Laboratory: TestAmerica Houston				Laboratory Job No: 357238		
Reviewer: Taryn Scholz				Date Checked: 1/5/09		
Parameters: VOC - 7 TAs				Methods: 8260B		
	ITEM			YES	NO	N/A	COMMENTS
R4	Surrogate data included in lab package?			x			
	Required surrogates included?			x			
	%R criteria met? (*lab limits below*) Reject <10%			x			
	Area within limits? (within -50/+100% of last calib chk)?					x	
	RRT within limits? (<30 sec diff from last calib chk?)					x	
R5	Method blank data included in Lab Package?			x			
	Criteria met? (*<MDL*)			x			
	Criteria met for field blanks? (<MDL)			x			
R6	QC check samples/LCS data included in lab package?			x			
	all project COCs or TAs included?			x			
	%R criteria met? (*TRRP 60-140%*) Reject <10%			x			
	RPD criteria met? (*TRRP 40%*)					x	
R7	Matrix spike data included in lab package?			x			
	%R criteria met? (*TRRP 60-140%*) Reject <10%			x			
	RPD criteria met? (*TRRP 40%*)			x			
	Field dup RPD criteria met? (TRRP 50%sol, 30%aq, diff)			x			
S1	Initial calibration documentation included in lab package?				x		
	all target analytes included?			x			per LRC
	RRF met SPCCs/*TAs(0.05/0.01)*? *SPCC* RRF<0.05 reject			x			per LRC
	%RSD criteria met for CCCs/*TAs*? (<30% RSD for CCC, >15% RSD must have fit)			x			per LRC
S2	Calibration verification data included in lab package?				x		
	RRF met SPCCs/*TAs(0.05/0.01)*? *SPCC* RRF<0.05 reject			x			per LRC
	%D criteria met for CCC/*TAs*? (20% Max, Qualify >25%D)			x			per LRC
S3	Instrument Tune for GC/MS included in lab package?				x		
S4	Internal standard data included in lab package?				x		
	Areas within limits (within -50/+100% of last calib check)?			x			per LRC
	RTs within limits (<30 sec diff from last calib check)?			x			per LRC
R4	**Surrogate**	**Control Limits**					
	12DCED	70-130					
	BRFLBE	70-130					
	DBRFLM	70-130					
	TOLD8	70-130					

COMMENTS

all ND - no flags		ppb		Anlyt	Anlyt		Lab		(lab)	MBLK	FBLK		60-140	40	60-140	30%/ +-2MQL
LAB ID	Collect	TA/MQL	DF	Date	Batch	HT ok?	Flag	LRC	SU	(ug/L)	(ug/L)	MS/D ID	MS/D %R	MS/D RPD	LCS %R	FDUP
357238-010 WG-1620-FD02-071608	7/16/2008	7/ 5,15	1	7/26	**402524**	y	ND	2 SUs out for MSD	P	ND		extant	P	P	P	P
357238-011 WG-1620-TB04-071608	7/16/2008	7/ 5,15	1	7/26	402524	y	ND	(no effect on smpls)	P		ND					
357238-012 WG-1620-MW02-071608	7/16/2008	7/ 5,15	1	7/26	402524	y	ND		P							
357238-013 WG-1620-MW10A-071608	7/16/2008	7/ 5,15	1	7/26	402524	y	ND		P							
357238-014 WG-1620-MW10B-071608	7/16/2008	7/ 5,15	1	7/26	402524	y	ND		P							
357238-015 WG-1620-MW11A-071608	7/16/2008	7/ 5,15	1	7/26	402524	y	ND		P							
357238-016 WG-1620-MW11B-071608	7/16/2008	7/ 5,15	1	7/26	402524	y	ND		P							
357238-001 WG-1620-FB01-071608	7/16/2008	7/ 5,15	1	7/27	**402545**	y	ND		P	ND	ND	WG-1620-P12-071608	P	P	P	
357238-006 WG-1620-MW08-290108	7/16/2008	7/ 5,15	1	7/29	**402679**	y	ND		P	ND		extant	P (3 TAs only)	P (3 TAs only)	P	
357238-007 WG-1620-P12-071608	7/16/2008	7/ 5,15	1	7/29	402679	y	ND		P							
357238-002 WG-1620-MW07-071608	7/16/2008	7/ 5,15	1	7/30	**402765**	y	ND		P	ND		extant	P (3 TAs only)	P (3 TAs only)	P	
357238-003 WG-1620-P10-071608	7/16/2008	7/ 5,15	1	7/30	402765	y	ND		P							
357238-004 WG-1620-MW01A-071608	7/16/2008	7/ 5,15	1	7/30	402765	y	ND		P							
357238-005 WG-1620-FD01-071608	7/16/2008	7/ 5,15	1	7/30	402765	y	ND		P							P

Data Usability Review Checklist: GC/MS

Client Name: Pastor, Behling & Wheeler, LLC			Project Number: 1358-230 (2H08)		
Site Name: UPRR HWPW 99000484			Project Manager: Eric Matzner		
Laboratory: TestAmerica Houston			Laboratory Job No: 357238		
Reviewer: Taryn Scholz			Date Checked: 1/5/09		
Parameters: SVOC - 11 PAHs			Methods: 3510C/ 8270C		
	ITEM		YES	NO	N/A	COMMENTS
R4	Surrogate data included in lab package?		x			
	Required surrogates included?		x			
	%R criteria met? (*lab limits below*) Reject <10%		x			
	Area within limits? (within -50/+100% of last calib chk)?				x	
	RRT within limits? (<30 sec diff from last calib chk?)				x	
R5	Method blank data included in Lab Package?		x			
	Criteria met? (*<MDL*)			x		see attached
	Criteria met for field blanks? (<MDL)			x		see attached
R6	QC check samples/LCS data included in lab package?		x			
	all project COCs or TAs included?		x			
	%R criteria met? (*TRRP 60-140%*) Reject <10%			x		see attached
	RPD criteria met? (*TRRP 40%*)				x	
R7	Matrix spike data included in lab package?		x			
	%R criteria met? (*TRRP 60-140%*) Reject <10%			x		see attached
	RPD criteria met? (*TRRP 40%*)		x			
	Field dup RPD criteria met? (TRRP 50%sol, 30%aq, diff)			x		see attached
S1	Initial calibration documentation included in lab package?			x		
	all target analytes included?		x			per LRC
	RRF met SPCCs/*TAs(0.05/0.01)*? *SPCC* RRF<0.05 reject		x			per LRC
	%RSD criteria met for CCCs/*TAs*? (<30% RSD for CCC, >15% RSD must have fit)		x			per LRC
S2	Calibration verification data included in lab package?			x		
	RRF met SPCCs/*TAs(0.05/0.01)*? *SPCC* RRF<0.05 reject		x			per LRC
	%D criteria met for CCC/*TAs*? (20% Max, Qualify >25%D)		x			per LRC
S3	Instrument Tune for GC/MS included in lab package?			x		
S4	Internal standard data included in lab package?			x		
	Areas within limits (within -50/+100% of last calib check)?		x			per LRC
	RTs within limits (<30 sec diff from last calib check)?		x			per LRC
R4	**Surrogate**	**Control Limits**				
	246TBP	10-123				
	2FBP	43-116				
	2FP	21-100				
	d5NB	35-114				
	d6PH	10-94				
	d14TERP	33-141				

COMMENTS

LAB ID		Collect	ppb TA/MQL	DF	Prep Date	Prep Batch	Anlyt Date	Anlyt Batch	HT ok?	Lab Flag	LRC	(lab) SU	MBLK (ug/L)	FBLK (ug/L)	MS/D ID	60-140 MS/D %R	40 MS/D RPD
357238-001	WG-1620-FB01-071608	7/16/2008	11/0.5-2.5	1	7/22	**402237**	7/31	402960	y	1 J	Naph >MQL in MB;	P	DnBPh 0.85928 J	DnBPh 0.96 J	extant	Anthr 53	P
357238-002	WG-1620-MW07-071608	7/16/2008		1	7/22	402237	7/31	402960	y	2 J	DnBPh >MDL in MB;	P	->U to RRs <8.5928	->U to RRs <9.6		bis2ehPh57	
357238-003	WG-1620-P10-071608	7/16/2008		1	7/22	402237	7/31	402960	y	3 J	several elev SDL due	P	3,10	3,7,10		Naph 45	
357238-004	WG-1620-MW01A-071608	7/16/2008		1	7/22	402237	7/31	402960	y	1 J	to dilution (all detects)	P	Naph 0.61796	Naph 0.689		Phenol 22	
357238-004DL	WG-1620-MW01A-071608	7/16/2008	Flre	5	7/22	402237	8/1	402960	y	none		P	->U to RRs <3.0898	->U to RRs <3.445		no flags, extant	
357238-004DL1	WG-1620-MW01A-071608	7/16/2008	Acene	10	7/22	402237	8/1	402960	y	none		P	2,3,10	2,3,5,6,7,10,12			
357238-005	WG-1620-FD01-071608	7/16/2008		1	7/22	402237	7/31	402960	y	1 J		P					
357238-005DL	WG-1620-FD01-071608	7/16/2008	Acene,Flre	5	7/22	402237	8/1	402960	y	none		P					
357238-010	WG-1620-FD02-071608	7/16/2008		1	7/22	402237	7/31	402960	y	2 J		P					
357238-006	WG-1620-MW08-290108	7/16/2008		1	7/23	**402330**	7/31	402960	y	2 J		P	DnBPh 0.86527		WG-1620-P12-071608	Naph 55	P
357238-007	WG-1620-P12-071608	7/16/2008		1	7/23	402330	7/31	402960	y	2 J		P	->U to RRs <8.6527		->JL/UJL to RRs/NDs (7,12,14,16 JL; 13,15 UJL)		
357238-012	WG-1620-MW02-071608	7/16/2008		1	7/23	402330	8/1	402960	y	3 J		P	7			Phenol 30	
357238-013	WG-1620-MW10A-071608	7/16/2008		1	7/23	402330	8/1	402960	y	1 J		P			->JL/UJL to RRs/NDs (7,14,16 ND)		
357238-014	WG-1620-MW10B-071608	7/16/2008		1	7/23	402330	8/1	402960	y	1 J		P					
357238-014DL	WG-1620-MW10B-071608	7/16/2008	DBzF	2	7/23	402330	8/1	402960	y	none		P					
357238-014DL1	WG-1620-MW10B-071608	7/16/2008	Acene,Flre	10	7/23	402330	8/1	402960	y	none		P					
357238-015	WG-1620-MW11A-071608	7/16/2008		1	7/23	402330	8/1	402960	y	none		P					
357238-016	WG-1620-MW11B-071608	7/16/2008		1	7/23	402330	8/1	402960	y	none		P					
357238-016DL	WG-1620-MW11B-071608	7/16/2008	Naph,Acene,Flre	10	7/23	402330	8/1	402960	y	none		P					

		60-140	30%/ +-2MQL
LAB ID		LCS %R	FDUP
357238-001	WG-1620-FB01-071608	Phenol 32.9	
357238-002	WG-1620-MW07-071608	->JL/UJL to RRs/NDs (3,10 ND)	
357238-003	WG-1620-P10-071608		
357238-004	WG-1620-MW01A-071608		
357238-004DL	WG-1620-MW01A-071608		->J to these RRs
357238-004DL1	WG-1620-MW01A-071608		2MeNaph hi Diff
357238-005	WG-1620-FD01-071608		DBzF hi Diff
357238-005DL	WG-1620-FD01-071608		Naph 137 (blank affected)
357238-010	WG-1620-FD02-071608		P
357238-006	WG-1620-MW08-290108	Phenol 42.9	
357238-007	WG-1620-P12-071608	->JL/UJL to RRs/NDs (7,14,16 ND)	
357238-012	WG-1620-MW02-071608		
357238-013	WG-1620-MW10A-071608		
357238-014	WG-1620-MW10B-071608		
357238-014DL	WG-1620-MW10B-071608		
357238-014DL1	WG-1620-MW10B-071608		
357238-015	WG-1620-MW11A-071608		
357238-016	WG-1620-MW11B-071608		
357238-016DL	WG-1620-MW11B-071608		

APPENDIX D
UPDATED COMPLIANCE SCHEDULE