

## **APPENDIX G**

### **Section 109**

Arroyo Simi – Frontier Park, February 28, 2008

MEC<sup>X</sup> Data Validation Reports



# DATA VALIDATION REPORT

Boeing SSFL NPDES, Surface Water Sampling

SAMPLE DELIVERY GROUP: IRB2832

Prepared by

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**I. INTRODUCTION**

Task Order Title: Boeing SSFL NPDES, Surface Water Sampling  
 Contract Task Order: 1261.100D.00  
 Sample Delivery Group: IRB2832  
 Project Manager: B. Kelly  
 Matrix: Water  
 QC Level: IV  
 No. of Samples: 1  
 No. of Reanalyses/Dilutions: 1  
 Laboratory: TestAmerica-Irvine

**Table 1. Sample Identification**

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Arroyo Simi-FP	IRB2832-01	8022911-01, CRB1025-01	Water	02/28/08 1100	200.7, 200.8, 245.1, 335.2, 525.2, 608, 624, 625, SM2340B
Arroyo Simi-FP	IRB2832-01 RE	CRB1025-01	Water	02/28/08 1100	525.2

**II. Sample Management**

No anomalies were observed regarding sample management. The samples in this SDG were received at TestAmerica-Irvine and Test-America-Colton within the temperature limits of 4°C ±2°C. The samples were received below the temperature limit at Weck; however, the samples were not noted to be damaged or frozen. According to the case narrative for this SDG, the samples were received intact at all laboratories. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the samples were couriered to the laboratories, custody seals were not required. If necessary, the client ID was added to the sample result summary by the reviewer.

### Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

### Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.

**Qualification Code Reference Table Cont.**

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D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
DNQ	The reported result is above the method detection limit but is less than the reporting limit.	The reported result is above the method detection limit but is less than the reporting limit.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

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### III. Method Analyses

#### A. EPA METHODS 200.7, 200.8, 245.1—Metals and Mercury

Reviewed By: P. Meeks

Date Reviewed: April 14, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0)*, *EPA Methods 200.7, 200.8, and 245.1*, and the *National Functional Guidelines for Inorganic Data Review (2/94)*.

- Holding Times: The analytical holding times, 6 months for metals and 28 days for mercury, were met.
- Tuning: The mass calibration and resolution checks criteria were met. All tuning solution %RSDs were  $\leq 5\%$ , and all masses of interest were calibrated to  $\leq 0.1$  amu and  $\leq 0.9$  amu at 10% peak height.
- Calibration: Calibration criteria were met. Mercury initial calibration  $r^2$  values were  $\geq 0.995$  and all initial and continuing calibration recoveries were within 90-110% for the ICP metals and 85-115% for mercury. All CRI/CRA and check standard recoveries were within the control limits of 70-130%.
- Blanks: Zinc was detected in the method blank at 2.5  $\mu\text{g/L}$ ; therefore, zinc detected in the site sample was qualified as an estimated nondetect, "UJ." There were no other applicable detects in the method blanks or CCBs.
- Interference Check Samples: ICSA/B analyses were performed in association with the 200.7 analytes only. Recoveries were within the method-established control limits.
- Blank Spikes and Laboratory Control Samples: The recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the sample in this SDG for the 200.8 analytes only. The laboratory reported the copper MS/MSD results from the analytical run dated 3/3/08 even though copper was reported from a separate QC batch. Although the recoveries were acceptable, as there were no associated QC samples, the reviewer did not assess the copper MS/MSD results. All remaining recoveries and RPDs were within the laboratory-established control limits. ICP method accuracy was evaluated based on LCS results.
- Serial Dilution: No serial dilution analyses were performed.
- Internal Standards Performance: Not applicable to these analyses.

- **Sample Result Verification:** Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. Any result reported between the MDL and the reporting limit were qualified as estimated, “J,” and coded with “DNQ,” in compliance with the NPDES permit. Reported nondetects are valid to the MDL.
- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - **Field Blanks and Equipment Rinsates:** This SDG had no identified field blank or equipment rinsate samples.
  - **Field Duplicates:** There were no field duplicate samples identified for this SDG.

## **B. EPA METHOD 608—PCBs**

Reviewed By: K. Shadowlight

Date Reviewed: April 18, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 0)*, *EPA Method 608*, and the *National Functional Guidelines for Organic Data Review (2/94)*.

- **Holding Times:** Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- **Calibration:** The initial calibration had average %RSDs of  $\leq 20\%$ . The ICV and CCVs bracketing the sample analyses had %Ds within the QC limit of  $\leq 15\%$ .
- **Blanks:** The method blank had no target compound detects above the MDL.
- **Blank Spikes and Laboratory Control Samples:** Recoveries were within laboratory-established QC limits.
- **Surrogate Recovery:** Recoveries were within laboratory-established QC limits.
- **Matrix Spike/Matrix Spike Duplicate:** No MS/MSD analyses were performed for the sample in this SDG. Method accuracy and precision were evaluated based on the LCS/LCSD results.
- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples.

Following are findings associated with field QC samples:

- Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
- Field Duplicates: There were no field duplicate samples identified for this SDG.
- Compound Identification: Compound identification was verified. Review of the sample chromatograms and retention times indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified from the raw data. The reporting limits were supported by the lower level of the initial calibration. Any result reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in compliance with the NPDES permit. Reported nondetects are valid to the reporting limit.

### C. EPA METHOD 608—Pesticides

Reviewed By: K. Shadowlight

Date Reviewed: April 19, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Organochlorine Pesticides by GC (DVP-4, Rev. 0)*, *EPA Method 608*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- Calibration: The initial calibration had average %RSDs of  $\leq 20\%$  for both columns. The ICV and CCVs bracketing the sample analyses had %Ds within the QC limit of  $\leq 15\%$ , with the exception of the %D for delta-BHC, 4,4'-DDD, 4,4-DDT, endrin aldehyde, and methoxychlor. The results, all nondetects, for the aforementioned target compounds were qualified as estimated, "UJ," in sample Arroyo Simi-FP. The breakdown total for endrin and 4,4-DDT were each  $\leq 15\%$ .
- Blanks: The method blank had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on a sample from this SDG. Evaluation of method accuracy was based on the blank spike results.

- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - **Field Blanks and Equipment Rinsates:** This SDG had no identified field blank or equipment rinsate samples.
  - **Field Duplicates:** There were no field duplicate samples identified for this SDG.
- **Compound Identification:** Compound identification was verified. The laboratory analyzed for pesticides by Method 608. Review of the sample chromatograms and retention times indicated no problems with target compound identification.
- **Compound Quantification and Reported Detection Limits:** Compound quantification was verified from the raw data. The reporting limits were supported by the lower level of the initial calibration. Any result reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in compliance with the NPDES permit. Reported nondetects are valid to the reporting limit.

#### **D. EPA METHOD 525.2 — Pesticides**

Reviewed By: P. Meeks

Date Reviewed: April 14, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Organochlorine Pesticides by GC (DVP-4, Rev. 0)*, *EPA Method 525.2*, and the *National Functional Guidelines for Organic Data Review (02/94)*.

- **Holding Times:** Extraction and analytical holding times were met. The water sample pH was adjusted within 24 hours and the sample was analyzed within 30 days of extraction.
- **GC/MS Tuning:** The DFTPP tunes met the method abundance criteria. The sample was analyzed within 12 hours of the DFTPP injection time.
- **Calibration:** Calibration criteria were met. For both target compounds, initial calibration average RRFs were  $\geq 0.05$  and %RSDs  $\leq 30\%$ . Continuing calibration RRFs were  $\geq 0.05$  and applicable target compound responses were within the method QC limits of 70-130%, except for a diazinon recovery of 132%. As diazinon was not reported in the site sample, no qualification was required for this continuing calibration recovery.
- **Blanks:** The method blank had no target compound detects above the MDL.
- **Blank Spikes and Laboratory Control Samples:** Diazinon was originally recovered below the control limit in the LCSD; therefore, the laboratory reanalyzed the sample. As the LCS/LCSD results associated with the reanalysis were acceptable, the laboratory reported

diazinon only from the reanalysis. Chlorpyrifos recoveries and RPD were within laboratory-established QC limits.

- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the sample from this SDG. Evaluation of method accuracy and precision was based on the LCS/LCSD results.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Internal Standards Performance: The internal standard area counts and retention times were within the method control limits established by the continuing calibration standards of  $\pm 30\%$ .
- Compound Identification: Compound identification was verified. The laboratory analyzed for chlorpyrifos and diazinon by Method 525.2. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in compliance with the NPDES permit. Reported nondetects are valid to the reporting limit.
- System Performance: Review of the raw data indicated no problems with system performance.

#### **E. EPA METHOD 625—Semivolatile Organic Compounds (SVOCs)**

Reviewed By: K. Shadowlight  
Date Reviewed: April 18, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>X</sup> Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 0)*, *EPA Method 625* and the *National Functional Guidelines for Organic Data Review (2/94)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- GC/MS Tuning: The DFTPP tunes met the method abundance criteria. Samples were analyzed within 12 hours of the DFTPP injection time.
- Calibration: Initial calibration average RRFs were  $\geq 0.05$ . The %RSDs were  $>15\%$  or  $r^2$  values  $\leq 0.995$  for the following target compounds: benzidine, benzoic acid, benzo(k)fluoranthene, butylbenzylphthalate, 4-chloroaniline, 2,4-dinitrophenol, di-n-octyl phthalate, 4-methylphenol, n-nitroso-di-n-propylamine, and pentachlorophenol. The associated continuing calibration had %Ds within the QC limit of  $\leq 20\%$  for all target compounds, with the exception of hexachlorocyclopentadiene. Results for the %RSD,  $r^2$ , and %D outliers were qualified as estimated, "J," for detects and "UJ," for nondetects in sample Arroyo-Simi-FP.
- Blanks: The method blank had a detect between the MDL and the RL for, butyl benzyl phthalate at 0.92  $\mu\text{g/L}$ . The sample detect between the MDL and the RL for butyl benzyl phthalate was qualified as nondetect, "U," at the reporting limit.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the sample of this SDG. Evaluation of method accuracy and precision was based on LSC/LSCD results.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Internal Standards Performance: The internal standard area counts and retention times were within the control limits established by the continuing calibration standards:  $-50\%/+100\%$  for internal standard areas and  $\pm 30$  seconds for retention times.
- Compound Identification: Compound identification was verified. The laboratory analyzed for semivolatile compounds by EPA Method 8270C. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.

- **Compound Quantification and Reported Detection Limits:** Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in compliance with the NPDES permit. Reported nondetects are valid to the reporting limit.
- **Tentatively Identified Compounds:** TICs were not reported by the laboratory for this SDG.
- **System Performance:** Review of the raw data indicated no problems with system performance.

## F. EPA METHOD 624 Volatile Organic Compounds (VOCs)

Reviewed By: K. Shadowlight

Date Reviewed: April 18, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>X</sup> Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0)*, *EPA Method 624*, and the *National Functional Guidelines for Organic Data Review (2/94)*.

- **Holding Times:** Analytical holding times were met. The preserved water sample was analyzed within 14 days of collection, and the unpreserved aliquot was analyzed within seven days of collection.
- **GC/MS Tuning:** The BFB tunes met the method abundance criteria. Samples were analyzed within 12 hours of the BFB injection time.
- **Calibration:** For applicable target compounds, initial calibration average RRFs were  $\geq 0.05$  and %RSDs were  $\leq 15\%$ . Continuing calibration RRFs were  $\geq 0.05$  and %Ds  $\leq 20\%$ .
- **Blanks:** The method blanks had no target compound detects above the MDL.
- **Blank Spikes and Laboratory Control Samples:** Recoveries were within laboratory-established QC limits.
- **Surrogate Recovery:** Recoveries were within laboratory-established QC limits.
- **Matrix Spike/Matrix Spike Duplicate:** MS/MSD analyses were not performed on the site sample in this SDG. Evaluation of method accuracy was based on the LCS results.
- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

- Trip Blanks: This SDG had no identified trip blank sample.
- Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
- Field Duplicates: There were no field duplicate samples identified for this SDG.
- Internal Standards Performance: The internal standard area counts and retention times were within the control limits established by the continuing calibration standards: -50%/+100% for internal standard areas and  $\pm 30$  seconds for retention times.
- Compound Identification: Compound identification was verified. The laboratory analyzed for volatile target compounds by EPA Method 624. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in compliance with the NPDES permit. Reported nondetects are valid to the reporting limit.
- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.
- System Performance: Review of the raw data indicated no problems with system performance.

## G. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks

Date Reviewed: April 15, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>X</sup> Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *EPA Method 335.2* and the *National Functional Guidelines for Inorganic Data Review (2/94)*.

- Holding Times: The analytical holding time, 14 day cyanide, was met.
- Calibration: The initial calibration  $r^2$  was  $\geq 0.995$  and the ICV and CCV recoveries were within the laboratory-established control limits.
- Blanks: The method blank and CCBs had no detects.
- Blank Spikes and Laboratory Control Samples: The recovery was within laboratory-established QC limits.

- **Laboratory Duplicates:** No laboratory duplicate analyses were performed for the sample in this SDG.
- **Matrix Spike/Matrix Spike Duplicate:** MS/MSD analyses were performed on the sample in this SDG. The recoveries and RPD were within the laboratory-established control limit.
- **Sample Result Verification:** Review is not applicable at a Level V validation. Any result reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in compliance with the NPDES permit. Nondetects are valid to the reporting limit.
- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - **Field Blanks and Equipment Rinsates:** This SDG had no identified field blank or equipment rinsate samples.
  - **Field Duplicates:** There were no field duplicate samples identified for this SDG.

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B	[CALC]	N/A	0.33	830	1	03/04/08	03/04/08	
Calcium	EPA 200.7	8C04060	0.050	0.10	220	1	03/04/08	03/04/08	MHA
Magnesium	EPA 200.7	8C04060	0.012	0.020	68	1	03/04/08	03/04/08	

LEVEL IV

TestAmerica Irvine

Joseph Doak  
Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: ug/l									
Aluminum	EPA 200.7	8C04060	40	50	ND	1	03/04/08	03/04/08	
Antimony	EPA 200.8	8B29062	0.20	2.0	0.47	1	02/29/08	03/03/08	J
Arsenic	EPA 200.8	8B29062	0.70	1.0	2.6	1	02/29/08	03/03/08	
Beryllium	EPA 200.8	8B29062	0.20	0.50	ND	1	02/29/08	03/03/08	
Cadmium	EPA 200.8	8B29062	0.11	1.0	0.31	1	02/29/08	03/03/08	J
Chromium	EPA 200.8	8B29062	0.70	2.0	1.1	1	02/29/08	03/03/08	J
Copper	EPA 200.8	8C04064	0.75	1.0	3.9	1	03/04/08	03/04/08	
Lead	EPA 200.8	8B29062	0.30	1.0	ND	1	02/29/08	03/03/08	
Nickel	EPA 200.8	8B29062	0.90	2.0	10	1	02/29/08	03/03/08	
Selenium	EPA 200.8	8B29062	0.30	2.0	9.4	1	02/29/08	03/03/08	
Silver	EPA 200.8	8B29062	0.30	1.0	ND	1	02/29/08	03/03/08	
Thallium	EPA 200.8	8B29062	0.20	1.0	ND	1	02/29/08	03/03/08	
Zinc	EPA 200.8	8B29062	2.5	10	5.7	1	02/29/08	03/03/08	B, J

LEVEL IV

TestAmerica Irvine

Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08

Received: 02/28/08

### Metals by EPA 200 Series Methods

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Mercury, Total	EPA 245.1	W8C0041	0.050	0.20	ND	1	03/03/08	03/05/08	

LEVEL 10

TestAmerica Irvine

Joseph Doak  
Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

### TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	8C03073	0.42	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1221	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1232	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1242	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1248	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1254	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1260	EPA 608	8C03073	0.28	0.47	ND	0.943	03/03/08	03/04/08	
Surrogate: Decachlorobiphenyl (45-120%)					102 %				

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Aldrin	EPA 608	8C03073	0.0014	0.0047	ND	0.943	03/03/08	03/04/08	
alpha-BHC	EPA 608	8C03073	0.0024	0.0047	ND	0.943	03/03/08	03/04/08	
beta-BHC	EPA 608	8C03073	0.0038	0.0047	ND	0.943	03/03/08	03/04/08	
delta-BHC	EPA 608	8C03073	0.0033	0.0047	ND	0.943	03/03/08	03/04/08	
gamma-BHC (Lindane)	EPA 608	8C03073	0.0028	0.0094	ND	0.943	03/03/08	03/04/08	
Chlordane	EPA 608	8C03073	0.028	0.094	ND	0.943	03/03/08	03/04/08	
4,4'-DDD	EPA 608	8C03073	0.0019	0.0047	ND	0.943	03/03/08	03/04/08	C
4,4'-DDE	EPA 608	8C03073	0.0028	0.0047	ND	0.943	03/03/08	03/04/08	
4,4'-DDT	EPA 608	8C03073	0.0038	0.0094	ND	0.943	03/03/08	03/04/08	C5
Dieldrin	EPA 608	8C03073	0.0019	0.0047	ND	0.943	03/03/08	03/04/08	
Endosulfan I	EPA 608	8C03073	0.0019	0.0047	ND	0.943	03/03/08	03/04/08	
Endosulfan II	EPA 608	8C03073	0.0028	0.0047	ND	0.943	03/03/08	03/04/08	
Endosulfan sulfate	EPA 608	8C03073	0.0028	0.0094	ND	0.943	03/03/08	03/04/08	
Endrin	EPA 608	8C03073	0.0019	0.0047	ND	0.943	03/03/08	03/04/08	
Endrin aldehyde	EPA 608	8C03073	0.0019	0.0094	ND	0.943	03/03/08	03/04/08	C5
Endrin ketone	EPA 608	8C03073	0.0028	0.0094	ND	0.943	03/03/08	03/04/08	
Heptachlor	EPA 608	8C03073	0.0028	0.0094	ND	0.943	03/03/08	03/04/08	
Heptachlor epoxide	EPA 608	8C03073	0.0024	0.0047	ND	0.943	03/03/08	03/04/08	
Methoxychlor	EPA 608	8C03073	0.0033	0.0047	ND	0.943	03/03/08	03/04/08	C5
Toxaphene	EPA 608	8C03073	0.066	0.094	ND	0.943	03/03/08	03/04/08	
Surrogate: Decachlorobiphenyl (45-120%)					74 %				
Surrogate: Tetrachloro-m-xylene (35-115%)					82 %				

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Chlorpyrifos	EPA 525.2	C8B2913	N/A	1.0	ND	0.99	02/29/08	03/04/08	
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)					97 %				
Surrogate: Triphenylphosphate (70-130%)					110 %				
Surrogate: Perylene-d12 (70-130%)					87 %				

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618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01RE1 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Diazinon	EPA 525.2	C8C1801	N/A	0.25	ND	1	02/29/08	03/19/08	C
<i>Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)</i>					104 %				
<i>Surrogate: Triphenylphosphate (70-130%)</i>					98 %				
<i>Surrogate: Perylene-d12 (70-130%)</i>					93 %				

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Acenaphthene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Acenaphthylene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Aniline	EPA 625	8C01048	0.29	9.6	ND	0.962	03/01/08	03/04/08	
Anthracene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Benzidine	EPA 625	8C01048	0.96	4.8	ND	0.962	03/01/08	03/04/08	
Benzo(a)anthracene	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
Benzo(a)pyrene	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Benzo(b)fluoranthene	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Benzo(g,h,i)perylene	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
Benzoic acid	EPA 625	8C01048	2.9	19	4.6	0.962	03/01/08	03/04/08	J
Benzo(k)fluoranthene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Benzyl alcohol	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
4-Bromophenyl phenyl ether	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
Butyl benzyl phthalate	EPA 625	8C01048	0.67	4.8	0.69	0.962	03/01/08	03/04/08	B, J
4-Chloro-3-methylphenol	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
4-Chloroaniline	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Bis(2-chloroethoxy)methane	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Bis(2-chloroethyl)ether	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Bis(2-chloroisopropyl)ether	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
2-Chloronaphthalene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
2-Chlorophenol	EPA 625	8C01048	0.19	0.96	ND	0.962	03/01/08	03/04/08	
4-Chlorophenyl phenyl ether	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Chrysene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Dibenz(a,h)anthracene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Dibenzofuran	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Di-n-butyl phthalate	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
1,4-Dichlorobenzene	EPA 625	8C01048	0.19	0.48	ND	0.962	03/01/08	03/04/08	
1,2-Dichlorobenzene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
1,3-Dichlorobenzene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
3,3-Dichlorobenzidine	EPA 625	8C01048	0.38	4.8	ND	0.962	03/01/08	03/04/08	
2,4-Dichlorophenol	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
Diethyl phthalate	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2,4-Dimethylphenol	EPA 625	8C01048	0.29	1.9	ND	0.962	03/01/08	03/04/08	
Dimethyl phthalate	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
4,6-Dinitro-2-methylphenol	EPA 625	8C01048	0.19	4.8	ND	0.962	03/01/08	03/04/08	
2,4-Dinitrophenol	EPA 625	8C01048	0.87	4.8	ND	0.962	03/01/08	03/04/08	
2,4-Dinitrotoluene	EPA 625	8C01048	0.19	4.8	ND	0.962	03/01/08	03/04/08	
2,6-Dinitrotoluene	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
Di-n-octyl phthalate	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
Bis(2-ethylhexyl)phthalate	EPA 625	8C01048	1.6	4.8	ND	0.962	03/01/08	03/04/08	

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Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Fronticr Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Fluoranthene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Fluorene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Hexachlorobenzene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
Hexachlorobutadiene	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
Hexachlorocyclopentadiene	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	C
Hexachloroethane	EPA 625	8C01048	0.19	2.9	ND	0.962	03/01/08	03/04/08	
Indeno(1,2,3-cd)pyrene	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Isophorone	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2-Methylnaphthalene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
4-Methylphenol	EPA 625	8C01048	0.19	4.8	ND	0.962	03/01/08	03/04/08	
2-Methylphenol	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Naphthalene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2-Nitroaniline	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
4-Nitroaniline	EPA 625	8C01048	0.48	4.8	ND	0.962	03/01/08	03/04/08	
3-Nitroaniline	EPA 625	8C01048	0.19	4.8	ND	0.962	03/01/08	03/04/08	
Nitrobenzene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
4-Nitrophenol	EPA 625	8C01048	2.4	4.8	ND	0.962	03/01/08	03/04/08	
2-Nitrophenol	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
N-Nitroso-di-n-propylamine	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
N-Nitrosodimethylamine	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
N-Nitrosodiphenylamine	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
Pentachlorophenol	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Phenanthrene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Phenol	EPA 625	8C01048	0.29	0.96	ND	0.962	03/01/08	03/04/08	
Pyrene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
1,2,4-Trichlorobenzene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2,4,6-Trichlorophenol	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2,4,5-Trichlorophenol	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
Surrogate: 2-Fluorobiphenyl (50-120%)									73 %
Surrogate: 2-Fluorophenol (30-120%)									71 %
Surrogate: Nitrobenzene-d5 (45-120%)									75 %
Surrogate: Phenol-d6 (35-120%)									70 %
Surrogate: Terphenyl-d14 (50-125%)									76 %
Surrogate: 2,4,6-Tribromophenol (40-120%)									94 %

Handwritten notes in the table include 'u', 'u/c', and 'u' next to several analytes, and a large downward arrow on the right side of the table.

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Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2832-01 (Arroyo Simi-FP - Water)									
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	8B29012	0.30	0.50	ND	1	02/29/08	02/29/08	
1,2,3-Trichloropropane	EPA 624	8B29012	0.40	1.0	ND	1	02/29/08	02/29/08	
1,1,2,2-Tetrachloroethane	EPA 624	8B29012	0.24	0.50	ND	1	02/29/08	02/29/08	
1,2-Dibromoethane (EDB)	EPA 624	8B29012	0.40	0.50	ND	1	02/29/08	02/29/08	
1,1,2-Trichloroethane	EPA 624	8B29012	0.30	0.50	ND	1	02/29/08	02/29/08	
Di-isopropyl Ether (DIPE)	EPA 624	8B29012	0.25	0.50	ND	1	02/29/08	02/29/08	
1,1-Dichloroethane	EPA 624	8B29012	0.27	0.50	ND	1	02/29/08	02/29/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8B29012	0.32	0.50	ND	1	02/29/08	02/29/08	
1,1-Dichloroethene	EPA 624	8B29012	0.42	0.50	ND	1	02/29/08	02/29/08	
tert-Butanol (TBA)	EPA 624	8B29012	4.9	10	ND	1	02/29/08	02/29/08	
1,2-Dichloroethane	EPA 624	8B29012	0.28	0.50	ND	1	02/29/08	02/29/08	
1,2-Dichlorobenzene	EPA 624	8B29012	0.32	0.50	ND	1	02/29/08	02/29/08	
1,2-Dichloropropane	EPA 624	8B29012	0.35	0.50	ND	1	02/29/08	02/29/08	
1,3-Dichlorobenzene	EPA 624	8B29012	0.35	0.50	ND	1	02/29/08	02/29/08	
1,4-Dichlorobenzene	EPA 624	8B29012	0.37	0.50	ND	1	02/29/08	02/29/08	
Benzene	EPA 624	8B29012	0.28	0.50	ND	1	02/29/08	02/29/08	
Bromodichloromethane	EPA 624	8B29012	0.30	0.50	ND	1	02/29/08	02/29/08	
Bromoform	EPA 624	8B29012	0.40	0.50	ND	1	02/29/08	02/29/08	
Bromomethane	EPA 624	8B29012	0.42	1.0	ND	1	02/29/08	02/29/08	
Carbon tetrachloride	EPA 624	8B29012	0.28	0.50	ND	1	02/29/08	02/29/08	
Chlorobenzene	EPA 624	8B29012	0.36	0.50	ND	1	02/29/08	02/29/08	
Chloroethane	EPA 624	8B29012	0.40	1.0	ND	1	02/29/08	02/29/08	
Chloroform	EPA 624	8B29012	0.33	0.50	ND	1	02/29/08	02/29/08	
Chloromethane	EPA 624	8B29012	0.40	0.50	ND	1	02/29/08	02/29/08	
cis-1,3-Dichloropropene	EPA 624	8B29012	0.22	0.50	ND	1	02/29/08	02/29/08	
Dibromochloromethane	EPA 624	8B29012	0.28	0.50	ND	1	02/29/08	02/29/08	
Ethylbenzene	EPA 624	8B29012	0.25	0.50	ND	1	02/29/08	02/29/08	
Tetrachloroethene	EPA 624	8B29012	0.32	0.50	ND	1	02/29/08	02/29/08	
Toluene	EPA 624	8B29012	0.36	0.50	ND	1	02/29/08	02/29/08	
trans-1,2-Dichloroethene	EPA 624	8B29012	0.27	0.50	ND	1	02/29/08	02/29/08	
trans-1,3-Dichloropropene	EPA 624	8B29012	0.32	0.50	ND	1	02/29/08	02/29/08	
Trichloroethene	EPA 624	8B29012	0.26	0.50	ND	1	02/29/08	02/29/08	
Trichlorofluoromethane	EPA 624	8B29012	0.34	0.50	ND	1	02/29/08	02/29/08	
Trichlorotrifluoroethane (Freon 113)	EPA 624	8B29012	0.50	5.0	ND	1	02/29/08	02/29/08	
Vinyl chloride	EPA 624	8B29012	0.30	0.50	ND	1	02/29/08	02/29/08	
Xylenes, Total	EPA 624	8B29012	0.90	1.5	ND	1	02/29/08	02/29/08	
Surrogate: Dibromofluoromethane (80-120%)					103 %				
Surrogate: Toluene-d8 (80-120%)					95 %				
Surrogate: 4-Bromofluorobenzene (80-120%)					92 %				

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618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2832-01RE1 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Methylene chloride	u EPA 624	8C03025	0.95	1.0	ND	1	03/03/08	03/04/08	
Surrogate: Dibromofluoromethane (80-120%)					95 %				
Surrogate: Toluene-d8 (80-120%)					97 %				
Surrogate: 4-Bromofluorobenzene (80-120%)					92 %				

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Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

### PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Acrolein	EPA 624	8B29012	4.0	5.0	ND	1	02/29/08	02/29/08	
Acrylonitrile	EPA 624	8B29012	0.70	2.0	ND	1	02/29/08	02/29/08	
2-Chloroethyl vinyl ether	EPA 624	8B29012	1.8	5.0	ND	1	02/29/08	02/29/08	
Surrogate: Dibromofluoromethane (80-120%)					103 %				
Surrogate: Toluene-d8 (80-120%)					95 %				
Surrogate: 4-Bromofluorobenzene (80-120%)					92 %				

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618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park  
Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: mg/l</b>									
Total Cyanide	U	EPA 335.2	8B29122	0.0022	0.0050	ND	1	02/29/08	02/29/08

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# DATA VALIDATION REPORT

Boeing SSFL NPDES, Sediment Sampling

SAMPLE DELIVERY GROUP: IRB2828

Prepared by

MEC<sup>X</sup>, LLC  
12269 East Vassar Drive  
Aurora, CO 80014

## I. INTRODUCTION

Task Order Title: Boeing SSFL NPDES, Sediment Sampling  
Contract Task Order: 1261.100D.00  
Sample Delivery Group: IRB2828  
Project Manager: B. Kelly  
Matrix: Sediment  
QC Level: IV  
No. of Samples: 1  
No. of Reanalyses/Dilutions: 0  
Laboratory: TestAmerica-Irvine

**Table 1. Sample Identification**

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Arroyo Simi-FP	IRB2828-01	N/A	Soil	02/28/08 1125	350.1M, 8081A, 8082, 9060A, ASTM D422

## II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at TestAmerica-Irvine within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact at all laboratories. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the samples were couriered to TestAmerica-Irvine, custody seals were not required. If necessary, the client ID was added to the sample result summary by the reviewer.

### Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

### Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.

**Qualification Code Reference Table Cont.**

---

D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
DNQ	The reported result is above the method detection limit but is less than the reporting limit.	The reported result is above the method detection limit but is less than the reporting limit.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

---

### III. Method Analyses

#### A. EPA METHOD 8082—PCBs

Reviewed By: K. Shadowlight

Date Reviewed: April 17, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 0)*, *EPA Method 8082*, and the *National Functional Guidelines for Organic Data Review (2/94)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- Calibration: The initial calibration had average %RSDs of  $\leq 20\%$ . The ICV and CCVs bracketing the sample analysis had %Ds within the QC limit of  $\leq 15\%$ .
- Blanks: The method blank had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed for the sample in this SDG. Method accuracy and precision were evaluated based on the LCS/LCSD results.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Compound Identification: Compound identification was verified. Review of the sample chromatograms and retention times indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified from the raw data. The reporting limits were supported by the lower level of the initial calibration. Any result reported between the MDL and the reporting limit were

qualified as estimated, "J," and coded with "DNQ," in compliance with the NPDES permit. Reported nondetects are valid to the reporting limit.

## B. EPA METHOD 8081A—Pesticides

Reviewed By: K. Shadowlight

Date Reviewed: April 17, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Organochlorine Pesticides by GC (DVP-4, Rev. 0)*, *EPA Method 8081A*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- Calibration: The initial calibration had average %RSDs of  $\leq 20\%$  for both columns. The ICV and CCVs bracketing the sample analyses had %Ds within the QC limit of  $\leq 15\%$ . The breakdown total for endrin and 4,4-DDT were each  $\leq 15\%$ .
- Blanks: The method blank had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on a sample from this SDG. Evaluation of method accuracy was based on the blank spike results.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Compound Identification: Compound identification was verified. The laboratory analyzed for pesticides by Method 8081A. Review of the sample chromatograms and retention times indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified from the raw data. The reporting limits were supported by the lower level of the initial calibration. Any result reported between the MDL and the reporting limit were

qualified as estimated, "J," and coded with "DNQ," in compliance with the NPDES permit. Reported nondetects are valid to the reporting limit.

### C. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks

Date Reviewed: April 15, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>X</sup> Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *EPA Method 350.1M and 9060A*, and *ASTM D422*, and the *National Functional Guidelines for Inorganic Data Review (2/94)*.

- Holding Times: Analytical holding times, 28 day for ammonia and TOC, were met. Holding time is not applicable to particle size.
- Calibration: The initial calibration  $r^2$  were  $\geq 0.995$  and the ICV and CCV recoveries were within the laboratory-established control limits. Calibration is not applicable to particle size. The reviewer was able to reproduce the TOC calibration associated with the confirmation analysis, but was not able to exactly reproduce the ICV and CCV results. The difference between the reported concentrations and the concentration calculated by the reviewer was approximately 5%.
- Blanks: Method blanks and CCBs had no detects.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits. The LCS is not applicable to particle size.
- Laboratory Duplicates: No laboratory duplicate analyses were performed for the sample in this SDG.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the sample in this SDG. The ammonia recoveries and RPD were within the laboratory-established control limit. The TOC MS/MSD was not reported by the laboratory but was noted in the raw data by the reviewer. According the laboratory project manager, J. Doak, the MS/MSD results were not reported as they were recovered below the control limit. Nondetected TOC in the sample was qualified as an estimated nondetect, "UJ."
- Sample Result Verification: Review is not applicable at a Level V validation. Any result reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in compliance with the NPDES permit. Nondetects are valid to the reporting limit. The particle size raw data was reviewed and found to be acceptable. The reviewer noted that although TOC was analyzed by SW-846 Method 9060A, only one replicate was analyzed. Per a request from the reviewer, the laboratory correctly reanalyzed the sample outside of holding time. As the reanalysis confirmed the original result, the reviewer chose to report the original result.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## POLYCHLORINATED BIPHENYLS (EPA 3545/8082)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2828-01 (Arroyo Simi-FP - Soil) - cont.									
Reporting Units: ug/kg dry									
Aroclor 1016	EPA 8082	8C03069	46	130	ND	1.99	03/03/08	03/03/08	RL1
Aroclor 1221	EPA 8082	8C03069	38	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1232	EPA 8082	8C03069	38	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1242	EPA 8082	8C03069	38	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1248	EPA 8082	8C03069	38	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1254	EPA 8082	8C03069	25	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1260	EPA 8082	8C03069	25	130	ND	1.99	03/03/08	03/03/08	
Surrogate: Decachlorobiphenyl (45-120%)					102 %				

Level IV

TestAmerica Irvine

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Project Manager

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NPDES - 4306

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
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 Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
 Boeing SSFL NPDES  
 Report Number: IRB2828

Sampled: 02/28/08  
 Received: 02/28/08

## ORGANOCHLORINE PESTICIDES (EPA 8081A)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2828-01 (Arroyo Simi-FP - Soil)									
Reporting Units: ug/kg dry									
Aldrin	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	RL1
alpha-BHC	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
beta-BHC	EPA 3545/8081A	8C03069	7.6	13	ND	1.99	03/03/08	03/05/08	
delta-BHC	EPA 3545/8081A	8C03069	3.8	25	ND	1.99	03/03/08	03/05/08	
gamma-BHC (Lindane)	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
Chlordane	EPA 3545/8081A	8C03069	25	130	ND	1.99	03/03/08	03/05/08	
4,4'-DDD	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
4,4'-DDE	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
4,4'-DDT	EPA 3545/8081A	8C03069	8.9	13	ND	1.99	03/03/08	03/05/08	
Dieldrin	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
Endosulfan I	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
Endosulfan II	EPA 3545/8081A	8C03069	6.4	13	ND	1.99	03/03/08	03/05/08	
Endosulfan sulfate	EPA 3545/8081A	8C03069	5.1	25	ND	1.99	03/03/08	03/05/08	
Endrin	EPA 3545/8081A	8C03069	6.4	13	ND	1.99	03/03/08	03/05/08	
Endrin aldehyde	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
Endrin ketone	EPA 3545/8081A	8C03069	5.1	13	ND	1.99	03/03/08	03/05/08	
Heptachlor	EPA 3545/8081A	8C03069	5.1	13	ND	1.99	03/03/08	03/05/08	
Heptachlor epoxide	EPA 3545/8081A	8C03069	5.1	13	ND	1.99	03/03/08	03/05/08	
Methoxychlor	EPA 3545/8081A	8C03069	7.6	13	ND	1.99	03/03/08	03/05/08	
Toxaphene	EPA 3545/8081A	8C03069	190	510	ND	1.99	03/03/08	03/05/08	
Surrogate: Tetrachloro-m-xylene (35-115%)					100 %				
Surrogate: Decachlorobiphenyl (45-120%)					91 %				

Level IV

**TestAmerica Irvine**

Joseph Doak  
 Project Manager

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618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2828-01 (Arroyo Simi-FP - Soil) - cont.</b>									
Reporting Units: mg/kg									
Total Organic Carbon	EPA 9060A MOD.	8C11071	2200	5000	ND	1	03/11/08	03/11/08	

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618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

### General Chemistry Parameters

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2828-01 (Arroyo Simi-FP - Soil) - cont.</b>									
<b>Reporting Units: mg/kg</b>									
Ammonia as N	EPA 350.1M	8032452	1.30	2.00	ND	1	03/17/08	03/18/08	

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Project Manager

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## **APPENDIX G**

### **Section 110**

Arroyo Simi – Frontier Park, February 28, 2008

Test America Analytical Laboratory Report

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project: Quarterly + PP Arroyo Simi  
Frontier Park

Sampled: 02/28/08  
Received: 02/28/08  
Revised: 04/14/08 12:46

NELAP #01108CA California ELAP#1197 CSDLAC #10256

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: Sample IRB2832-01 required reanalysis for diazinon. The original analysis failed low for diazinon due to a failure of the electron multiplier. The sample could not be re-run immediately because the instrument was inoperable.

This is a Revised Report to remove duplicate Copper MS/MSD.

**LABORATORY ID**  
IRB2832-01

**CLIENT ID**  
Arroyo Simi-FP

**MATRIX**  
Water

Reviewed By:



**TestAmerica Irvine**

Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water)</b>									
<b>Reporting Units: ug/l</b>									
1,1,1-Trichloroethane	EPA 624	8B29012	0.30	0.50	ND	1	02/29/08	02/29/08	
1,2,3-Trichloropropane	EPA 624	8B29012	0.40	1.0	ND	1	02/29/08	02/29/08	
1,1,2,2-Tetrachloroethane	EPA 624	8B29012	0.24	0.50	ND	1	02/29/08	02/29/08	
1,2-Dibromoethane (EDB)	EPA 624	8B29012	0.40	0.50	ND	1	02/29/08	02/29/08	
1,1,2-Trichloroethane	EPA 624	8B29012	0.30	0.50	ND	1	02/29/08	02/29/08	
Di-isopropyl Ether (DIPE)	EPA 624	8B29012	0.25	0.50	ND	1	02/29/08	02/29/08	
1,1-Dichloroethane	EPA 624	8B29012	0.27	0.50	ND	1	02/29/08	02/29/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8B29012	0.32	0.50	ND	1	02/29/08	02/29/08	
1,1-Dichloroethene	EPA 624	8B29012	0.42	0.50	ND	1	02/29/08	02/29/08	
tert-Butanol (TBA)	EPA 624	8B29012	4.9	10	ND	1	02/29/08	02/29/08	
1,2-Dichloroethane	EPA 624	8B29012	0.28	0.50	ND	1	02/29/08	02/29/08	
1,2-Dichlorobenzene	EPA 624	8B29012	0.32	0.50	ND	1	02/29/08	02/29/08	
1,2-Dichloropropane	EPA 624	8B29012	0.35	0.50	ND	1	02/29/08	02/29/08	
1,3-Dichlorobenzene	EPA 624	8B29012	0.35	0.50	ND	1	02/29/08	02/29/08	
1,4-Dichlorobenzene	EPA 624	8B29012	0.37	0.50	ND	1	02/29/08	02/29/08	
Benzene	EPA 624	8B29012	0.28	0.50	ND	1	02/29/08	02/29/08	
Bromodichloromethane	EPA 624	8B29012	0.30	0.50	ND	1	02/29/08	02/29/08	
Bromoform	EPA 624	8B29012	0.40	0.50	ND	1	02/29/08	02/29/08	
Bromomethane	EPA 624	8B29012	0.42	1.0	ND	1	02/29/08	02/29/08	
Carbon tetrachloride	EPA 624	8B29012	0.28	0.50	ND	1	02/29/08	02/29/08	
Chlorobenzene	EPA 624	8B29012	0.36	0.50	ND	1	02/29/08	02/29/08	
Chloroethane	EPA 624	8B29012	0.40	1.0	ND	1	02/29/08	02/29/08	
Chloroform	EPA 624	8B29012	0.33	0.50	ND	1	02/29/08	02/29/08	
Chloromethane	EPA 624	8B29012	0.40	0.50	ND	1	02/29/08	02/29/08	
cis-1,3-Dichloropropene	EPA 624	8B29012	0.22	0.50	ND	1	02/29/08	02/29/08	
Dibromochloromethane	EPA 624	8B29012	0.28	0.50	ND	1	02/29/08	02/29/08	
Ethylbenzene	EPA 624	8B29012	0.25	0.50	ND	1	02/29/08	02/29/08	
Tetrachloroethene	EPA 624	8B29012	0.32	0.50	ND	1	02/29/08	02/29/08	
Toluene	EPA 624	8B29012	0.36	0.50	ND	1	02/29/08	02/29/08	
trans-1,2-Dichloroethene	EPA 624	8B29012	0.27	0.50	ND	1	02/29/08	02/29/08	
trans-1,3-Dichloropropene	EPA 624	8B29012	0.32	0.50	ND	1	02/29/08	02/29/08	
Trichloroethene	EPA 624	8B29012	0.26	0.50	ND	1	02/29/08	02/29/08	
Trichlorofluoromethane	EPA 624	8B29012	0.34	0.50	ND	1	02/29/08	02/29/08	
Trichlorotrifluoroethane (Freon 113)	EPA 624	8B29012	0.50	5.0	ND	1	02/29/08	02/29/08	
Vinyl chloride	EPA 624	8B29012	0.30	0.50	ND	1	02/29/08	02/29/08	
Xylenes, Total	EPA 624	8B29012	0.90	1.5	ND	1	02/29/08	02/29/08	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					103 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					95 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					92 %				

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01RE1 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: ug/l									
Methylene chloride	EPA 624	8C03025	0.95	1.0	ND	1	03/03/08	03/04/08	
Surrogate: Dibromofluoromethane (80-120%)					95 %				
Surrogate: Toluene-d8 (80-120%)					97 %				
Surrogate: 4-Bromofluorobenzene (80-120%)					92 %				

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Acrolein	EPA 624	8B29012	4.0	5.0	ND	1	02/29/08	02/29/08	
Acrylonitrile	EPA 624	8B29012	0.70	2.0	ND	1	02/29/08	02/29/08	
2-Chloroethyl vinyl ether	EPA 624	8B29012	1.8	5.0	ND	1	02/29/08	02/29/08	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>103 %</i>				
<i>Surrogate: Toluene-d8 (80-120%)</i>					<i>95 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					<i>92 %</i>				

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Acenaphthene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Acenaphthylene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Aniline	EPA 625	8C01048	0.29	9.6	ND	0.962	03/01/08	03/04/08	
Anthracene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Benzidine	EPA 625	8C01048	0.96	4.8	ND	0.962	03/01/08	03/04/08	
Benzo(a)anthracene	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
Benzo(a)pyrene	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Benzo(b)fluoranthene	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Benzo(g,h,i)perylene	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
<b>Benzoic acid</b>	EPA 625	8C01048	2.9	19	<b>4.6</b>	0.962	03/01/08	03/04/08	J
Benzo(k)fluoranthene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Benzyl alcohol	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
4-Bromophenyl phenyl ether	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
<b>Butyl benzyl phthalate</b>	EPA 625	8C01048	0.67	4.8	<b>0.69</b>	0.962	03/01/08	03/04/08	B, J
4-Chloro-3-methylphenol	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
4-Chloroaniline	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Bis(2-chloroethoxy)methane	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Bis(2-chloroethyl)ether	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Bis(2-chloroisopropyl)ether	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
2-Chloronaphthalene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
2-Chlorophenol	EPA 625	8C01048	0.19	0.96	ND	0.962	03/01/08	03/04/08	
4-Chlorophenyl phenyl ether	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Chrysene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Dibenz(a,h)anthracene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Dibenzofuran	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Di-n-butyl phthalate	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
1,4-Dichlorobenzene	EPA 625	8C01048	0.19	0.48	ND	0.962	03/01/08	03/04/08	
1,2-Dichlorobenzene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
1,3-Dichlorobenzene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
3,3-Dichlorobenzidine	EPA 625	8C01048	0.38	4.8	ND	0.962	03/01/08	03/04/08	
2,4-Dichlorophenol	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
Diethyl phthalate	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2,4-Dimethylphenol	EPA 625	8C01048	0.29	1.9	ND	0.962	03/01/08	03/04/08	
Dimethyl phthalate	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
4,6-Dinitro-2-methylphenol	EPA 625	8C01048	0.19	4.8	ND	0.962	03/01/08	03/04/08	
2,4-Dinitrophenol	EPA 625	8C01048	0.87	4.8	ND	0.962	03/01/08	03/04/08	
2,4-Dinitrotoluene	EPA 625	8C01048	0.19	4.8	ND	0.962	03/01/08	03/04/08	
2,6-Dinitrotoluene	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
Di-n-octyl phthalate	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
Bis(2-ethylhexyl)phthalate	EPA 625	8C01048	1.6	4.8	ND	0.962	03/01/08	03/04/08	

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618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Fluoranthene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Fluorene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Hexachlorobenzene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
Hexachlorobutadiene	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
Hexachlorocyclopentadiene	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	C
Hexachloroethane	EPA 625	8C01048	0.19	2.9	ND	0.962	03/01/08	03/04/08	
Indeno(1,2,3-cd)pyrene	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Isophorone	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2-Methylnaphthalene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
4-Methylphenol	EPA 625	8C01048	0.19	4.8	ND	0.962	03/01/08	03/04/08	
2-Methylphenol	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Naphthalene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2-Nitroaniline	EPA 625	8C01048	0.096	4.8	ND	0.962	03/01/08	03/04/08	
4-Nitroaniline	EPA 625	8C01048	0.48	4.8	ND	0.962	03/01/08	03/04/08	
3-Nitroaniline	EPA 625	8C01048	0.19	4.8	ND	0.962	03/01/08	03/04/08	
Nitrobenzene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
4-Nitrophenol	EPA 625	8C01048	2.4	4.8	ND	0.962	03/01/08	03/04/08	
2-Nitrophenol	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
N-Nitroso-di-n-propylamine	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
N-Nitrosodimethylamine	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
N-Nitrosodiphenylamine	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
Pentachlorophenol	EPA 625	8C01048	0.096	1.9	ND	0.962	03/01/08	03/04/08	
Phenanthrene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
Phenol	EPA 625	8C01048	0.29	0.96	ND	0.962	03/01/08	03/04/08	
Pyrene	EPA 625	8C01048	0.096	0.48	ND	0.962	03/01/08	03/04/08	
1,2,4-Trichlorobenzene	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2,4,6-Trichlorophenol	EPA 625	8C01048	0.096	0.96	ND	0.962	03/01/08	03/04/08	
2,4,5-Trichlorophenol	EPA 625	8C01048	0.19	1.9	ND	0.962	03/01/08	03/04/08	
Surrogate: 2-Fluorobiphenyl (50-120%)					73 %				
Surrogate: 2-Fluorophenol (30-120%)					71 %				
Surrogate: Nitrobenzene-d5 (45-120%)					75 %				
Surrogate: Phenol-d6 (35-120%)					70 %				
Surrogate: Terphenyl-d14 (50-125%)					76 %				
Surrogate: 2,4,6-Tribromophenol (40-120%)					94 %				

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 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Aldrin	EPA 608	8C03073	0.0014	0.0047	ND	0.943	03/03/08	03/04/08	
alpha-BHC	EPA 608	8C03073	0.0024	0.0047	ND	0.943	03/03/08	03/04/08	
beta-BHC	EPA 608	8C03073	0.0038	0.0047	ND	0.943	03/03/08	03/04/08	
delta-BHC	EPA 608	8C03073	0.0033	0.0047	ND	0.943	03/03/08	03/04/08	
gamma-BHC (Lindane)	EPA 608	8C03073	0.0028	0.0094	ND	0.943	03/03/08	03/04/08	
Chlordane	EPA 608	8C03073	0.028	0.094	ND	0.943	03/03/08	03/04/08	
4,4'-DDD	EPA 608	8C03073	0.0019	0.0047	ND	0.943	03/03/08	03/04/08	C
4,4'-DDE	EPA 608	8C03073	0.0028	0.0047	ND	0.943	03/03/08	03/04/08	
4,4'-DDT	EPA 608	8C03073	0.0038	0.0094	ND	0.943	03/03/08	03/04/08	C5
Dieldrin	EPA 608	8C03073	0.0019	0.0047	ND	0.943	03/03/08	03/04/08	
Endosulfan I	EPA 608	8C03073	0.0019	0.0047	ND	0.943	03/03/08	03/04/08	
Endosulfan II	EPA 608	8C03073	0.0028	0.0047	ND	0.943	03/03/08	03/04/08	
Endosulfan sulfate	EPA 608	8C03073	0.0028	0.0094	ND	0.943	03/03/08	03/04/08	
Endrin	EPA 608	8C03073	0.0019	0.0047	ND	0.943	03/03/08	03/04/08	
Endrin aldehyde	EPA 608	8C03073	0.0019	0.0094	ND	0.943	03/03/08	03/04/08	C5
Endrin ketone	EPA 608	8C03073	0.0028	0.0094	ND	0.943	03/03/08	03/04/08	
Heptachlor	EPA 608	8C03073	0.0028	0.0094	ND	0.943	03/03/08	03/04/08	
Heptachlor epoxide	EPA 608	8C03073	0.0024	0.0047	ND	0.943	03/03/08	03/04/08	
Methoxychlor	EPA 608	8C03073	0.0033	0.0047	ND	0.943	03/03/08	03/04/08	C5
Toxaphene	EPA 608	8C03073	0.066	0.094	ND	0.943	03/03/08	03/04/08	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					74 %				
<i>Surrogate: Tetrachloro-m-xylene (35-115%)</i>					82 %				

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Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	8C03073	0.42	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1221	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1232	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1242	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1248	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1254	EPA 608	8C03073	0.24	0.47	ND	0.943	03/03/08	03/04/08	
Aroclor 1260	EPA 608	8C03073	0.28	0.47	ND	0.943	03/03/08	03/04/08	
Surrogate: Decachlorobiphenyl (45-120%)					102 %				

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B	[CALC]	N/A	0.33	<b>830</b>	1	03/04/08	03/04/08	
Boron	EPA 200.7	8C04060	0.020	0.050	<b>1.2</b>	1	03/04/08	03/04/08	
Calcium	EPA 200.7	8C04060	0.050	0.10	<b>220</b>	1	03/04/08	03/04/08	MHA
Magnesium	EPA 200.7	8C04060	0.012	0.020	<b>68</b>	1	03/04/08	03/04/08	

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 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: ug/l									
Aluminum	EPA 200.7	8C04060	40	50	ND	1	03/04/08	03/04/08	
<b>Antimony</b>	EPA 200.8	8B29062	0.20	2.0	<b>0.47</b>	1	02/29/08	03/03/08	J
<b>Arsenic</b>	EPA 200.8	8B29062	0.70	1.0	<b>2.6</b>	1	02/29/08	03/03/08	
Beryllium	EPA 200.8	8B29062	0.20	0.50	ND	1	02/29/08	03/03/08	
<b>Cadmium</b>	EPA 200.8	8B29062	0.11	1.0	<b>0.31</b>	1	02/29/08	03/03/08	J
<b>Chromium</b>	EPA 200.8	8B29062	0.70	2.0	<b>1.1</b>	1	02/29/08	03/03/08	J
<b>Copper</b>	EPA 200.8	8C04064	0.75	1.0	<b>3.9</b>	1	03/04/08	03/04/08	
Lead	EPA 200.8	8B29062	0.30	1.0	ND	1	02/29/08	03/03/08	
<b>Nickel</b>	EPA 200.8	8B29062	0.90	2.0	<b>10</b>	1	02/29/08	03/03/08	
<b>Selenium</b>	EPA 200.8	8B29062	0.30	2.0	<b>9.4</b>	1	02/29/08	03/03/08	
Silver	EPA 200.8	8B29062	0.30	1.0	ND	1	02/29/08	03/03/08	
Thallium	EPA 200.8	8B29062	0.20	1.0	ND	1	02/29/08	03/03/08	
<b>Zinc</b>	EPA 200.8	8B29062	2.5	10	<b>5.7</b>	1	02/29/08	03/03/08	B, J

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08

Received: 02/28/08

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: mg/l									
Total Cyanide	EPA 335.2	8B29122	0.0022	0.0050	ND	1	02/29/08	02/29/08	

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**IRB2832 <Page 11 of 41>**  
**NPDES - 4321**

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Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: ug/l									
Chlorpyrifos	EPA 525.2	C8B2913	N/A	1.0	ND	0.99	02/29/08	03/04/08	
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)					97 %				
Surrogate: Triphenylphosphate (70-130%)					110 %				
Surrogate: Perylene-d12 (70-130%)					87 %				

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IRB2832 <Page 12 of 41>  
NPDES - 4322

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01RE1 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Diazinon	EPA 525.2	C8C1801	N/A	0.25	ND	1	02/29/08	03/19/08	H-1 C
<i>Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)</i>					104 %				
<i>Surrogate: Triphenylphosphate (70-130%)</i>					98 %				
<i>Surrogate: Perylene-d12 (70-130%)</i>					93 %				

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IRB2832 <Page 13 of 41>  
NPDES - 4323

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08

Received: 02/28/08

## Metals by EPA 200 Series Methods

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2832-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: ug/l									
Mercury, Total	EPA 245.1	W8C0041	0.050	0.20	ND	1	03/03/08	03/05/08	

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**IRB2832 <Page 14 of 41>**  
**NPDES - 4324**

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08

Received: 02/28/08

## SHORT HOLD TIME DETAIL REPORT

	<b>Hold Time (in days)</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>	<b>Date/Time Extracted</b>	<b>Date/Time Analyzed</b>
<b>Sample ID: Arroyo Simi-FP (IRB2832-01) - Water</b>					
EPA 624	3	02/28/2008 11:00	02/28/2008 18:50	02/29/2008 00:00	02/29/2008 16:02
<b>Sample ID: Arroyo Simi-FP (IRB2832-01RE1) - Water</b>					
EPA 525.2	1	02/28/2008 11:00	02/28/2008 18:50	02/29/2008 15:58	03/19/2008 02:36

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**IRB2832 <Page 15 of 41>**  
**NPDES - 4325**

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8B29012 Extracted: 02/29/08</b>											
<b>Blank Analyzed: 02/29/2008 (8B29012-BLK1)</b>											
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.24	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	0.40	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
Di-isopropyl Ether (DIPE)	ND	0.50	0.25	ug/l							
1,1-Dichloroethane	ND	0.50	0.27	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.32	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
tert-Butanol (TBA)	ND	10	4.9	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.32	ug/l							
1,2-Dichloropropane	ND	0.50	0.35	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.35	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.37	ug/l							
Benzene	ND	0.50	0.28	ug/l							
Bromodichloromethane	ND	0.50	0.30	ug/l							
Bromoform	ND	0.50	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	0.50	0.36	ug/l							
Chloroethane	ND	1.0	0.40	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
Chloromethane	ND	0.50	0.40	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
Dibromochloromethane	ND	0.50	0.28	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Toluene	ND	0.50	0.36	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.27	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	0.50	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							

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Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8B29012 Extracted: 02/29/08</b>											
<b>Blank Analyzed: 02/29/2008 (8B29012-BLK1)</b>											
Xylenes, Total	ND	1.5	0.90	ug/l							
Surrogate: Dibromofluoromethane	24.0			ug/l	25.0		96	80-120			
Surrogate: Toluene-d8	23.4			ug/l	25.0		94	80-120			
Surrogate: 4-Bromofluorobenzene	23.3			ug/l	25.0		93	80-120			
<b>LCS Analyzed: 02/29/2008 (8B29012-BS1)</b>											
1,1,1-Trichloroethane	26.6	0.50	0.30	ug/l	25.0		106	65-135			
1,2,3-Trichloropropane	25.5	1.0	0.40	ug/l	25.0		102	60-130			
1,1,2,2-Tetrachloroethane	25.2	0.50	0.24	ug/l	25.0		101	55-130			
1,2-Dibromoethane (EDB)	25.1	0.50	0.40	ug/l	25.0		100	75-125			
1,1,2-Trichloroethane	25.5	0.50	0.30	ug/l	25.0		102	70-125			
Di-isopropyl Ether (DIPE)	26.3	0.50	0.25	ug/l	25.0		105	60-135			
1,1-Dichloroethane	25.1	0.50	0.27	ug/l	25.0		100	70-125			
Methyl-tert-butyl Ether (MTBE)	26.8	0.50	0.32	ug/l	25.0		107	60-135			
1,1-Dichloroethene	21.7	0.50	0.42	ug/l	25.0		87	70-125			
tert-Butanol (TBA)	138	10	4.9	ug/l	125		110	70-135			
1,2-Dichloroethane	25.9	0.50	0.28	ug/l	25.0		104	60-140			
1,2-Dichlorobenzene	27.0	0.50	0.32	ug/l	25.0		108	75-120			
1,2-Dichloropropane	25.6	0.50	0.35	ug/l	25.0		102	70-125			
1,3-Dichlorobenzene	27.1	0.50	0.35	ug/l	25.0		108	75-120			
1,4-Dichlorobenzene	25.1	0.50	0.37	ug/l	25.0		100	75-120			
Benzene	23.7	0.50	0.28	ug/l	25.0		95	70-120			
Bromodichloromethane	27.1	0.50	0.30	ug/l	25.0		109	70-135			
Bromoform	22.8	0.50	0.40	ug/l	25.0		91	55-130			
Bromomethane	26.1	1.0	0.42	ug/l	25.0		104	65-140			
Carbon tetrachloride	26.6	0.50	0.28	ug/l	25.0		107	65-140			
Chlorobenzene	26.1	0.50	0.36	ug/l	25.0		104	75-120			
Chloroethane	26.0	1.0	0.40	ug/l	25.0		104	60-140			
Chloroform	26.3	0.50	0.33	ug/l	25.0		105	70-130			
Chloromethane	22.6	0.50	0.40	ug/l	25.0		91	50-140			
cis-1,3-Dichloropropene	24.4	0.50	0.22	ug/l	25.0		98	75-125			
Dibromochloromethane	27.7	0.50	0.28	ug/l	25.0		111	70-140			
Ethylbenzene	28.1	0.50	0.25	ug/l	25.0		112	75-125			
Tetrachloroethene	26.1	0.50	0.32	ug/l	25.0		105	70-125			M-3
Toluene	26.8	0.50	0.36	ug/l	25.0		107	70-120			
trans-1,2-Dichloroethene	25.7	0.50	0.27	ug/l	25.0		103	70-125			

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8B29012 Extracted: 02/29/08</b>											
<b>LCS Analyzed: 02/29/2008 (8B29012-BS1)</b>											
trans-1,3-Dichloropropene	25.0	0.50	0.32	ug/l	25.0		100	70-125			
Trichloroethene	25.7	0.50	0.26	ug/l	25.0		103	70-125			
Trichlorofluoromethane	30.0	0.50	0.34	ug/l	25.0		120	65-145			
Vinyl chloride	22.6	0.50	0.30	ug/l	25.0		90	55-135			
Xylenes, Total	83.2	1.5	0.90	ug/l	75.0		111	70-125			
Surrogate: Dibromofluoromethane	24.1			ug/l	25.0		97	80-120			
Surrogate: Toluene-d8	23.7			ug/l	25.0		95	80-120			
Surrogate: 4-Bromofluorobenzene	24.4			ug/l	25.0		98	80-120			
<b>Matrix Spike Analyzed: 02/29/2008 (8B29012-MS1)</b>											
<b>Source: IRB2652-10</b>											
1,1,1-Trichloroethane	30.3	0.50	0.30	ug/l	25.0	ND	121	65-140			
1,2,3-Trichloropropane	28.2	1.0	0.40	ug/l	25.0	ND	113	55-135			
1,1,2,2-Tetrachloroethane	28.2	0.50	0.24	ug/l	25.0	ND	113	55-135			
1,2-Dibromoethane (EDB)	27.8	0.50	0.40	ug/l	25.0	ND	111	70-130			
1,1,2-Trichloroethane	29.1	0.50	0.30	ug/l	25.0	ND	116	65-130			
Di-isopropyl Ether (DIPE)	30.7	0.50	0.25	ug/l	25.0	ND	123	60-140			
1,1-Dichloroethane	28.6	0.50	0.27	ug/l	25.0	ND	114	65-130			
Methyl-tert-butyl Ether (MTBE)	31.7	0.50	0.32	ug/l	25.0	ND	127	55-145			
1,1-Dichloroethane	26.4	0.50	0.42	ug/l	25.0	2.55	96	60-130			
tert-Butanol (TBA)	149	10	4.9	ug/l	125	ND	119	65-140			
1,2-Dichloroethane	29.8	0.50	0.28	ug/l	25.0	ND	119	60-140			
1,2-Dichlorobenzene	29.4	0.50	0.32	ug/l	25.0	ND	118	75-125			
1,2-Dichloropropane	28.9	0.50	0.35	ug/l	25.0	ND	116	65-130			
1,3-Dichlorobenzene	29.3	0.50	0.35	ug/l	25.0	ND	117	75-125			
1,4-Dichlorobenzene	27.0	0.50	0.37	ug/l	25.0	ND	108	75-125			
Benzene	26.4	0.50	0.28	ug/l	25.0	ND	106	65-125			
Bromodichloromethane	30.8	0.50	0.30	ug/l	25.0	ND	123	70-135			
Bromoform	25.0	0.50	0.40	ug/l	25.0	ND	100	55-135			
Bromomethane	30.0	1.0	0.42	ug/l	25.0	ND	120	55-145			
Carbon tetrachloride	29.6	0.50	0.28	ug/l	25.0	ND	118	65-140			
Chlorobenzene	28.2	0.50	0.36	ug/l	25.0	ND	113	75-125			
Chloroethane	28.9	1.0	0.40	ug/l	25.0	ND	116	55-140			
Chloroform	37.3	0.50	0.33	ug/l	25.0	7.17	121	65-135			
Chloromethane	25.2	0.50	0.40	ug/l	25.0	ND	101	45-145			
cis-1,3-Dichloropropene	27.0	0.50	0.22	ug/l	25.0	ND	108	70-130			
Dibromochloromethane	30.2	0.50	0.28	ug/l	25.0	ND	121	65-140			

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Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8B29012 Extracted: 02/29/08</b>											
<b>Matrix Spike Analyzed: 02/29/2008 (8B29012-MS1)</b>						<b>Source: IRB2652-10</b>					
Ethylbenzene	30.1	0.50	0.25	ug/l	25.0	ND	121	65-130			
Toluene	29.9	0.50	0.36	ug/l	25.0	ND	120	70-125			
trans-1,2-Dichloroethene	28.8	0.50	0.27	ug/l	25.0	ND	115	65-130			
trans-1,3-Dichloropropene	28.0	0.50	0.32	ug/l	25.0	ND	112	65-135			
Trichloroethene	32.4	0.50	0.26	ug/l	25.0	3.72	115	65-125			
Trichlorofluoromethane	34.3	0.50	0.34	ug/l	25.0	ND	137	60-145			
Vinyl chloride	26.0	0.50	0.30	ug/l	25.0	ND	104	45-140			
Xylenes, Total	88.2	1.5	0.90	ug/l	75.0	ND	118	60-130			
Surrogate: Dibromofluoromethane	25.6			ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	23.8			ug/l	25.0		95	80-120			
Surrogate: 4-Bromofluorobenzene	24.5			ug/l	25.0		98	80-120			
<b>Matrix Spike Dup Analyzed: 02/29/2008 (8B29012-MSD1)</b>						<b>Source: IRB2652-10</b>					
1,1,1-Trichloroethane	27.8	0.50	0.30	ug/l	25.0	ND	111	65-140	9	20	
1,2,3-Trichloropropane	26.7	1.0	0.40	ug/l	25.0	ND	107	55-135	5	30	
1,1,2,2-Tetrachloroethane	27.5	0.50	0.24	ug/l	25.0	ND	110	55-135	3	30	
1,2-Dibromoethane (EDB)	26.3	0.50	0.40	ug/l	25.0	ND	105	70-130	6	25	
1,1,2-Trichloroethane	26.8	0.50	0.30	ug/l	25.0	ND	107	65-130	8	25	
Di-isopropyl Ether (DIPE)	28.4	0.50	0.25	ug/l	25.0	ND	113	60-140	8	25	
1,1-Dichloroethane	26.5	0.50	0.27	ug/l	25.0	ND	106	65-130	7	20	
Methyl-tert-butyl Ether (MTBE)	29.4	0.50	0.32	ug/l	25.0	ND	118	55-145	7	25	
1,1-Dichloroethene	24.6	0.50	0.42	ug/l	25.0	2.55	88	60-130	7	20	
tert-Butanol (TBA)	147	10	4.9	ug/l	125	ND	117	65-140	1	25	
1,2-Dichloroethane	27.6	0.50	0.28	ug/l	25.0	ND	111	60-140	8	20	
1,2-Dichlorobenzene	28.5	0.50	0.32	ug/l	25.0	ND	114	75-125	3	20	
1,2-Dichloropropane	27.1	0.50	0.35	ug/l	25.0	ND	108	65-130	6	20	
1,3-Dichlorobenzene	28.6	0.50	0.35	ug/l	25.0	ND	114	75-125	2	20	
1,4-Dichlorobenzene	26.2	0.50	0.37	ug/l	25.0	ND	105	75-125	3	20	
Benzene	25.1	0.50	0.28	ug/l	25.0	ND	100	65-125	5	20	
Bromodichloromethane	28.7	0.50	0.30	ug/l	25.0	ND	115	70-135	7	20	
Bromoform	24.1	0.50	0.40	ug/l	25.0	ND	96	55-135	4	25	
Bromomethane	27.3	1.0	0.42	ug/l	25.0	ND	109	55-145	9	25	
Carbon tetrachloride	28.2	0.50	0.28	ug/l	25.0	ND	113	65-140	5	25	
Chlorobenzene	27.1	0.50	0.36	ug/l	25.0	ND	108	75-125	4	20	
Chloroethane	27.4	1.0	0.40	ug/l	25.0	ND	110	55-140	5	25	
Chloroform	34.2	0.50	0.33	ug/l	25.0	7.17	108	65-135	9	20	

**TestAmerica Irvine**

Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
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 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8B29012 Extracted: 02/29/08</b>											
<b>Matrix Spike Dup Analyzed: 02/29/2008 (8B29012-MSD1)</b>						<b>Source: IRB2652-10</b>					
Chloromethane	23.9	0.50	0.40	ug/l	25.0	ND	96	45-145	5	25	
cis-1,3-Dichloropropene	25.5	0.50	0.22	ug/l	25.0	ND	102	70-130	6	20	
Dibromochloromethane	28.5	0.50	0.28	ug/l	25.0	ND	114	65-140	6	25	
Ethylbenzene	28.8	0.50	0.25	ug/l	25.0	ND	115	65-130	4	20	
Toluene	28.2	0.50	0.36	ug/l	25.0	ND	113	70-125	6	20	
trans-1,2-Dichloroethene	27.2	0.50	0.27	ug/l	25.0	ND	109	65-130	6	20	
trans-1,3-Dichloropropene	26.1	0.50	0.32	ug/l	25.0	ND	105	65-135	7	25	
Trichloroethene	30.7	0.50	0.26	ug/l	25.0	3.72	108	65-125	6	20	
Trichlorofluoromethane	31.6	0.50	0.34	ug/l	25.0	ND	127	60-145	8	25	
Vinyl chloride	25.1	0.50	0.30	ug/l	25.0	ND	100	45-140	3	30	
Xylenes, Total	85.1	1.5	0.90	ug/l	75.0	ND	114	60-130	4	20	
Surrogate: Dibromofluoromethane	24.4			ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	23.7			ug/l	25.0		95	80-120			
Surrogate: 4-Bromofluorobenzene	24.2			ug/l	25.0		97	80-120			

### Batch: 8C03025 Extracted: 03/03/08

#### Blank Analyzed: 03/03/2008 (8C03025-BLK1)

Methylene chloride	ND	1.0	0.95	ug/l							
Surrogate: Dibromofluoromethane	23.4			ug/l	25.0		93	80-120			
Surrogate: Toluene-d8	24.2			ug/l	25.0		97	80-120			
Surrogate: 4-Bromofluorobenzene	23.2			ug/l	25.0		93	80-120			

#### LCS Analyzed: 03/03/2008 (8C03025-BS1)

Methylene chloride	21.7	1.0	0.95	ug/l	25.0		87	55-130			
Surrogate: Dibromofluoromethane	23.8			ug/l	25.0		95	80-120			
Surrogate: Toluene-d8	24.7			ug/l	25.0		99	80-120			
Surrogate: 4-Bromofluorobenzene	24.4			ug/l	25.0		98	80-120			

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 Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C03025 Extracted: 03/03/08</b>											
<b>Matrix Spike Analyzed: 03/03/2008 (8C03025-MS1)</b>						<b>Source: IRB2517-15</b>					
Methylene chloride	20.5	1.0	0.95	ug/l	25.0	ND	82	50-135			
Surrogate: Dibromofluoromethane	23.9			ug/l	25.0		96	80-120			
Surrogate: Toluene-d8	24.3			ug/l	25.0		97	80-120			
Surrogate: 4-Bromofluorobenzene	24.7			ug/l	25.0		99	80-120			
<b>Matrix Spike Dup Analyzed: 03/03/2008 (8C03025-MSD1)</b>						<b>Source: IRB2517-15</b>					
Methylene chloride	21.1	1.0	0.95	ug/l	25.0	ND	84	50-135	3	20	
Surrogate: Dibromofluoromethane	23.8			ug/l	25.0		95	80-120			
Surrogate: Toluene-d8	24.4			ug/l	25.0		98	80-120			
Surrogate: 4-Bromofluorobenzene	24.1			ug/l	25.0		97	80-120			

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## METHOD BLANK/QC DATA

### PURGEABLES-- GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8B29012 Extracted: 02/29/08</b>											
<b>Blank Analyzed: 02/29/2008 (8B29012-BLK1)</b>											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	24.0			ug/l	25.0		96	80-120			
Surrogate: Toluene-d8	23.4			ug/l	25.0		94	80-120			
Surrogate: 4-Bromofluorobenzene	23.3			ug/l	25.0		93	80-120			
<b>LCS Analyzed: 02/29/2008 (8B29012-BS1)</b>											
2-Chloroethyl vinyl ether	25.8	5.0	1.8	ug/l	25.0		103	25-170			
Surrogate: Dibromofluoromethane	24.1			ug/l	25.0		97	80-120			
Surrogate: Toluene-d8	23.7			ug/l	25.0		95	80-120			
Surrogate: 4-Bromofluorobenzene	24.4			ug/l	25.0		98	80-120			
<b>Matrix Spike Analyzed: 02/29/2008 (8B29012-MS1) Source: IRB2652-10</b>											
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			M13
Surrogate: Dibromofluoromethane	25.6			ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	23.8			ug/l	25.0		95	80-120			
Surrogate: 4-Bromofluorobenzene	24.5			ug/l	25.0		98	80-120			
<b>Matrix Spike Dup Analyzed: 02/29/2008 (8B29012-MSD1) Source: IRB2652-10</b>											
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	M13
Surrogate: Dibromofluoromethane	24.4			ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	23.7			ug/l	25.0		95	80-120			
Surrogate: 4-Bromofluorobenzene	24.2			ug/l	25.0		97	80-120			

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C01048 Extracted: 03/01/08</b>											
<b>Blank Analyzed: 03/04/2008 (8C01048-BLK1)</b>											
Acenaphthene	ND	0.50	0.10	ug/l							
Acenaphthylene	ND	0.50	0.10	ug/l							
Aniline	ND	10	0.30	ug/l							
Anthracene	ND	0.50	0.10	ug/l							
Benzidine	ND	5.0	1.0	ug/l							
Benzo(a)anthracene	ND	5.0	0.10	ug/l							
Benzo(a)pyrene	ND	2.0	0.10	ug/l							
Benzo(b)fluoranthene	ND	2.0	0.10	ug/l							
Benzo(g,h,i)perylene	ND	5.0	0.10	ug/l							
Benzoic acid	ND	20	3.0	ug/l							
Benzo(k)fluoranthene	ND	0.50	0.10	ug/l							
Benzyl alcohol	ND	5.0	0.10	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	0.10	ug/l							
Butyl benzyl phthalate	0.920	5.0	0.70	ug/l							J
4-Chloro-3-methylphenol	ND	2.0	0.20	ug/l							
4-Chloroaniline	ND	2.0	0.10	ug/l							
Bis(2-chloroethoxy)methane	ND	0.50	0.10	ug/l							
Bis(2-chloroethyl)ether	ND	0.50	0.10	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.50	0.10	ug/l							
2-Chloronaphthalene	ND	0.50	0.10	ug/l							
2-Chlorophenol	ND	1.0	0.20	ug/l							
4-Chlorophenyl phenyl ether	ND	0.50	0.10	ug/l							
Chrysene	ND	0.50	0.10	ug/l							
Dibenz(a,h)anthracene	ND	0.50	0.10	ug/l							
Dibenzofuran	ND	0.50	0.10	ug/l							
Di-n-butyl phthalate	ND	2.0	0.20	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.20	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.10	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.10	ug/l							
3,3-Dichlorobenzidine	ND	5.0	0.40	ug/l							
2,4-Dichlorophenol	ND	2.0	0.20	ug/l							
Diethyl phthalate	ND	1.0	0.10	ug/l							
2,4-Dimethylphenol	ND	2.0	0.30	ug/l							
Dimethyl phthalate	ND	0.50	0.10	ug/l							
4,6-Dinitro-2-methylphenol	ND	5.0	0.20	ug/l							

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## METHOD BLANK/QC DATA

### ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C01048 Extracted: 03/01/08</b>											
<b>Blank Analyzed: 03/04/2008 (8C01048-BLK1)</b>											
2,4-Dinitrophenol	ND	5.0	0.90	ug/l							
2,4-Dinitrotoluene	ND	5.0	0.20	ug/l							
2,6-Dinitrotoluene	ND	5.0	0.10	ug/l							
Di-n-octyl phthalate	ND	5.0	0.10	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	0.10	ug/l							
Bis(2-ethylhexyl)phthalate	ND	5.0	1.7	ug/l							
Fluoranthene	ND	0.50	0.10	ug/l							
Fluorene	ND	0.50	0.10	ug/l							
Hexachlorobenzene	ND	1.0	0.10	ug/l							
Hexachlorobutadiene	ND	2.0	0.20	ug/l							
Hexachlorocyclopentadiene	ND	5.0	0.10	ug/l							
Hexachloroethane	ND	3.0	0.20	ug/l							
Indeno(1,2,3-cd)pyrene	ND	2.0	0.10	ug/l							
Isophorone	ND	1.0	0.10	ug/l							
2-Methylnaphthalene	ND	1.0	0.10	ug/l							
4-Methylphenol	ND	5.0	0.20	ug/l							
2-Methylphenol	ND	2.0	0.10	ug/l							
Naphthalene	ND	1.0	0.10	ug/l							
2-Nitroaniline	ND	5.0	0.10	ug/l							
4-Nitroaniline	ND	5.0	0.50	ug/l							
3-Nitroaniline	ND	5.0	0.20	ug/l							
Nitrobenzene	ND	1.0	0.10	ug/l							
4-Nitrophenol	ND	5.0	2.5	ug/l							
2-Nitrophenol	ND	2.0	0.10	ug/l							
N-Nitroso-di-n-propylamine	ND	2.0	0.10	ug/l							
N-Nitrosodimethylamine	ND	2.0	0.10	ug/l							
N-Nitrosodiphenylamine	ND	1.0	0.10	ug/l							
Pentachlorophenol	ND	2.0	0.10	ug/l							
Phenanthrene	ND	0.50	0.10	ug/l							
Phenol	ND	1.0	0.30	ug/l							
Pyrene	ND	0.50	0.10	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.10	ug/l							
2,4,6-Trichlorophenol	ND	1.0	0.10	ug/l							
2,4,5-Trichlorophenol	ND	2.0	0.20	ug/l							
Surrogate: 2-Fluorobiphenyl	7.42			ug/l	10.0		74			50-120	

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## METHOD BLANK/QC DATA

### ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C01048 Extracted: 03/01/08</b>											
<b>Blank Analyzed: 03/04/2008 (8C01048-BLK1)</b>											
Surrogate: 2-Fluorophenol	12.5			ug/l	20.0		63	30-120			
Surrogate: Nitrobenzene-d5	8.46			ug/l	10.0		85	45-120			
Surrogate: Phenol-d6	15.7			ug/l	20.0		78	35-120			
Surrogate: Terphenyl-d14	8.90			ug/l	10.0		89	50-125			
Surrogate: 2,4,6-Tribromophenol	17.6			ug/l	20.0		88	40-120			
<b>LCS Analyzed: 03/04/2008 (8C01048-BS1)</b>											
Acenaphthene	8.98	0.50	0.10	ug/l	10.0		90	60-120			
Acenaphthylene	10.2	0.50	0.10	ug/l	10.0		102	60-120			
Aniline	6.88	10	0.30	ug/l	10.0		69	35-120			J
Anthracene	9.64	0.50	0.10	ug/l	10.0		96	65-120			
Benzidine	3.36	5.0	1.0	ug/l	10.0		34	30-160			J
Benzo(a)anthracene	10.0	5.0	0.10	ug/l	10.0		100	65-120			
Benzo(a)pyrene	10.0	2.0	0.10	ug/l	10.0		100	55-130			
Benzo(b)fluoranthene	8.76	2.0	0.10	ug/l	10.0		88	55-125			
Benzo(g,h,i)perylene	10.4	5.0	0.10	ug/l	10.0		104	45-135			
Benzoic acid	8.82	20	3.0	ug/l	10.0		88	25-120			J
Benzo(k)fluoranthene	8.58	0.50	0.10	ug/l	10.0		86	50-125			
Benzyl alcohol	7.58	5.0	0.10	ug/l	10.0		76	50-120			
4-Bromophenyl phenyl ether	9.50	1.0	0.10	ug/l	10.0		95	60-120			
Butyl benzyl phthalate	11.3	5.0	0.70	ug/l	10.0		113	55-130			
4-Chloro-3-methylphenol	9.72	2.0	0.20	ug/l	10.0		97	60-120			
4-Chloroaniline	8.22	2.0	0.10	ug/l	10.0		82	55-120			
Bis(2-chloroethoxy)methane	9.20	0.50	0.10	ug/l	10.0		92	55-120			
Bis(2-chloroethyl)ether	8.22	0.50	0.10	ug/l	10.0		82	50-120			
Bis(2-chloroisopropyl)ether	8.40	0.50	0.10	ug/l	10.0		84	45-120			
2-Chloronaphthalene	8.84	0.50	0.10	ug/l	10.0		88	60-120			
2-Chlorophenol	8.20	1.0	0.20	ug/l	10.0		82	45-120			
4-Chlorophenyl phenyl ether	9.54	0.50	0.10	ug/l	10.0		95	65-120			
Chrysene	9.80	0.50	0.10	ug/l	10.0		98	65-120			
Dibenz(a,h)anthracene	8.88	0.50	0.10	ug/l	10.0		89	50-135			
Dibenzofuran	9.72	0.50	0.10	ug/l	10.0		97	65-120			
Di-n-butyl phthalate	10.3	2.0	0.20	ug/l	10.0		103	60-125			
1,4-Dichlorobenzene	6.60	0.50	0.20	ug/l	10.0		66	35-120			
1,2-Dichlorobenzene	6.70	0.50	0.10	ug/l	10.0		67	40-120			
1,3-Dichlorobenzene	6.40	0.50	0.10	ug/l	10.0		64	35-120			

MNR1

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C01048 Extracted: 03/01/08</b>											
<b>LCS Analyzed: 03/04/2008 (8C01048-BS1)</b>											<b>MNR1</b>
3,3-Dichlorobenzidine	4.60	5.0	0.40	ug/l	10.0		46	45-135			J
2,4-Dichlorophenol	8.30	2.0	0.20	ug/l	10.0		83	55-120			
Diethyl phthalate	9.86	1.0	0.10	ug/l	10.0		99	55-120			
2,4-Dimethylphenol	7.94	2.0	0.30	ug/l	10.0		79	40-120			
Dimethyl phthalate	9.70	0.50	0.10	ug/l	10.0		97	30-120			
4,6-Dinitro-2-methylphenol	9.10	5.0	0.20	ug/l	10.0		91	45-120			
2,4-Dinitrophenol	9.10	5.0	0.90	ug/l	10.0		91	40-120			
2,4-Dinitrotoluene	9.40	5.0	0.20	ug/l	10.0		94	65-120			
2,6-Dinitrotoluene	9.68	5.0	0.10	ug/l	10.0		97	65-120			
Di-n-octyl phthalate	12.2	5.0	0.10	ug/l	10.0		122	65-135			
1,2-Diphenylhydrazine/Azobenzene	9.76	1.0	0.10	ug/l	10.0		98	60-120			
Bis(2-ethylhexyl)phthalate	11.5	5.0	1.7	ug/l	10.0		115	65-130			
Fluoranthene	10.2	0.50	0.10	ug/l	10.0		102	60-120			
Fluorene	9.76	0.50	0.10	ug/l	10.0		98	65-120			
Hexachlorobenzene	9.44	1.0	0.10	ug/l	10.0		94	60-120			
Hexachlorobutadiene	6.42	2.0	0.20	ug/l	10.0		64	40-120			
Hexachlorocyclopentadiene	7.18	5.0	0.10	ug/l	10.0		72	25-120			
Hexachloroethane	5.90	3.0	0.20	ug/l	10.0		59	35-120			
Indeno(1,2,3-cd)pyrene	10.2	2.0	0.10	ug/l	10.0		102	45-135			
Isophorone	9.68	1.0	0.10	ug/l	10.0		97	50-120			
2-Methylnaphthalene	8.90	1.0	0.10	ug/l	10.0		89	55-120			
4-Methylphenol	7.68	5.0	0.20	ug/l	10.0		77	50-120			
2-Methylphenol	8.36	2.0	0.10	ug/l	10.0		84	50-120			
Naphthalene	8.02	1.0	0.10	ug/l	10.0		80	55-120			
2-Nitroaniline	9.84	5.0	0.10	ug/l	10.0		98	65-120			
4-Nitroaniline	10.3	5.0	0.50	ug/l	10.0		103	55-125			
3-Nitroaniline	9.32	5.0	0.20	ug/l	10.0		93	60-120			
Nitrobenzene	8.84	1.0	0.10	ug/l	10.0		88	55-120			
4-Nitrophenol	9.28	5.0	2.5	ug/l	10.0		93	45-120			
2-Nitrophenol	8.46	2.0	0.10	ug/l	10.0		85	50-120			
N-Nitroso-di-n-propylamine	8.96	2.0	0.10	ug/l	10.0		90	45-120			
N-Nitrosodimethylamine	7.48	2.0	0.10	ug/l	10.0		75	45-120			
N-Nitrosodiphenylamine	9.12	1.0	0.10	ug/l	10.0		91	60-120			
Pentachlorophenol	10.0	2.0	0.10	ug/l	10.0		100	50-120			
Phenanthrene	9.30	0.50	0.10	ug/l	10.0		93	65-120			

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C01048 Extracted: 03/01/08</b>											
<b>LCS Analyzed: 03/04/2008 (8C01048-BS1)</b>											
Phenol	7.54	1.0	0.30	ug/l	10.0		75	40-120			MNR1
Pyrene	10.1	0.50	0.10	ug/l	10.0		101	55-125			
1,2,4-Trichlorobenzene	7.20	1.0	0.10	ug/l	10.0		72	45-120			
2,4,6-Trichlorophenol	8.70	1.0	0.10	ug/l	10.0		87	55-120			
2,4,5-Trichlorophenol	9.28	2.0	0.20	ug/l	10.0		93	55-120			
Surrogate: 2-Fluorobiphenyl	8.88			ug/l	10.0		89	50-120			
Surrogate: 2-Fluorophenol	14.4			ug/l	20.0		72	30-120			
Surrogate: Nitrobenzene-d5	8.72			ug/l	10.0		87	45-120			
Surrogate: Phenol-d6	15.6			ug/l	20.0		78	35-120			
Surrogate: Terphenyl-d14	9.14			ug/l	10.0		91	50-125			
Surrogate: 2,4,6-Tribromophenol	21.2			ug/l	20.0		106	40-120			
<b>LCS Dup Analyzed: 03/04/2008 (8C01048-BSD1)</b>											
Acenaphthene	7.78	0.50	0.10	ug/l	10.0		78	60-120	14	20	
Acenaphthylene	9.00	0.50	0.10	ug/l	10.0		90	60-120	13	20	
Aniline	7.18	10	0.30	ug/l	10.0		72	35-120	4	30	J
Anthracene	8.64	0.50	0.10	ug/l	10.0		86	65-120	11	20	
Benzidine	3.66	5.0	1.0	ug/l	10.0		37	30-160	9	35	J
Benzo(a)anthracene	8.98	5.0	0.10	ug/l	10.0		90	65-120	11	20	
Benzo(a)pyrene	8.76	2.0	0.10	ug/l	10.0		88	55-130	13	25	
Benzo(b)fluoranthene	7.80	2.0	0.10	ug/l	10.0		78	55-125	12	25	
Benzo(g,h,i)perylene	9.10	5.0	0.10	ug/l	10.0		91	45-135	14	25	
Benzoic acid	8.38	20	3.0	ug/l	10.0		84	25-120	5	30	J
Benzo(k)fluoranthene	7.54	0.50	0.10	ug/l	10.0		75	50-125	13	20	
Benzyl alcohol	6.96	5.0	0.10	ug/l	10.0		70	50-120	9	20	
4-Bromophenyl phenyl ether	8.84	1.0	0.10	ug/l	10.0		88	60-120	7	25	
Butyl benzyl phthalate	9.24	5.0	0.70	ug/l	10.0		92	55-130	20	20	
4-Chloro-3-methylphenol	8.30	2.0	0.20	ug/l	10.0		83	60-120	16	25	
4-Chloroaniline	7.42	2.0	0.10	ug/l	10.0		74	55-120	10	25	
Bis(2-chloroethoxy)methane	8.10	0.50	0.10	ug/l	10.0		81	55-120	13	20	
Bis(2-chloroethyl)ether	7.18	0.50	0.10	ug/l	10.0		72	50-120	14	20	
Bis(2-chloroisopropyl)ether	7.66	0.50	0.10	ug/l	10.0		77	45-120	9	20	
2-Chloronaphthalene	7.68	0.50	0.10	ug/l	10.0		77	60-120	14	20	
2-Chlorophenol	7.58	1.0	0.20	ug/l	10.0		76	45-120	8	25	
4-Chlorophenyl phenyl ether	8.38	0.50	0.10	ug/l	10.0		84	65-120	13	20	
Chrysene	7.94	0.50	0.10	ug/l	10.0		79	65-120	21	20	R-7

#### TestAmerica Irvine

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Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C01048 Extracted: 03/01/08</b>											
<b>LCS Dup Analyzed: 03/04/2008 (8C01048-BSD1)</b>											
Dibenz(a,h)anthracene	7.62	0.50	0.10	ug/l	10.0		76	50-135	15	25	
Dibenzofuran	8.22	0.50	0.10	ug/l	10.0		82	65-120	17	20	
Di-n-butyl phthalate	9.14	2.0	0.20	ug/l	10.0		91	60-125	12	20	
1,4-Dichlorobenzene	6.04	0.50	0.20	ug/l	10.0		60	35-120	9	25	
1,2-Dichlorobenzene	6.18	0.50	0.10	ug/l	10.0		62	40-120	8	25	
1,3-Dichlorobenzene	6.34	0.50	0.10	ug/l	10.0		63	35-120	1	25	
3,3-Dichlorobenzidine	7.20	5.0	0.40	ug/l	10.0		72	45-135	44	25	R-7
2,4-Dichlorophenol	7.48	2.0	0.20	ug/l	10.0		75	55-120	10	20	
Diethyl phthalate	8.58	1.0	0.10	ug/l	10.0		86	55-120	14	30	
2,4-Dimethylphenol	5.76	2.0	0.30	ug/l	10.0		58	40-120	32	25	R-7
Dimethyl phthalate	8.58	0.50	0.10	ug/l	10.0		86	30-120	12	30	
4,6-Dinitro-2-methylphenol	8.48	5.0	0.20	ug/l	10.0		85	45-120	7	25	
2,4-Dinitrophenol	8.44	5.0	0.90	ug/l	10.0		84	40-120	8	25	
2,4-Dinitrotoluene	8.20	5.0	0.20	ug/l	10.0		82	65-120	14	20	
2,6-Dinitrotoluene	8.32	5.0	0.10	ug/l	10.0		83	65-120	15	20	
Di-n-octyl phthalate	9.94	5.0	0.10	ug/l	10.0		99	65-135	20	20	
1,2-Diphenylhydrazine/Azobenzene	8.42	1.0	0.10	ug/l	10.0		84	60-120	15	25	
Bis(2-ethylhexyl)phthalate	9.30	5.0	1.7	ug/l	10.0		93	65-130	21	20	R-7
Fluoranthene	8.92	0.50	0.10	ug/l	10.0		89	60-120	13	20	
Fluorene	8.58	0.50	0.10	ug/l	10.0		86	65-120	13	20	
Hexachlorobenzene	8.46	1.0	0.10	ug/l	10.0		85	60-120	11	20	
Hexachlorobutadiene	5.78	2.0	0.20	ug/l	10.0		58	40-120	10	25	
Hexachlorocyclopentadiene	7.70	5.0	0.10	ug/l	10.0		77	25-120	7	30	
Hexachloroethane	5.60	3.0	0.20	ug/l	10.0		56	35-120	5	25	
Indeno(1,2,3-cd)pyrene	8.66	2.0	0.10	ug/l	10.0		87	45-135	16	25	
Isophorone	8.34	1.0	0.10	ug/l	10.0		83	50-120	15	20	
2-Methylnaphthalene	7.82	1.0	0.10	ug/l	10.0		78	55-120	13	20	
4-Methylphenol	6.82	5.0	0.20	ug/l	10.0		68	50-120	12	20	
2-Methylphenol	7.52	2.0	0.10	ug/l	10.0		75	50-120	11	20	
Naphthalene	7.20	1.0	0.10	ug/l	10.0		72	55-120	11	20	
2-Nitroaniline	8.72	5.0	0.10	ug/l	10.0		87	65-120	12	20	
4-Nitroaniline	8.78	5.0	0.50	ug/l	10.0		88	55-125	16	20	
3-Nitroaniline	8.14	5.0	0.20	ug/l	10.0		81	60-120	14	25	
Nitrobenzene	7.94	1.0	0.10	ug/l	10.0		79	55-120	11	25	
4-Nitrophenol	8.32	5.0	2.5	ug/l	10.0		83	45-120	11	30	

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Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C01048 Extracted: 03/01/08</b>											
<b>LCS Dup Analyzed: 03/04/2008 (8C01048-BSD1)</b>											
2-Nitrophenol	7.54	2.0	0.10	ug/l	10.0		75	50-120	12	25	
N-Nitroso-di-n-propylamine	8.08	2.0	0.10	ug/l	10.0		81	45-120	10	20	
N-Nitrosodimethylamine	7.16	2.0	0.10	ug/l	10.0		72	45-120	4	20	
N-Nitrosodiphenylamine	8.70	1.0	0.10	ug/l	10.0		87	60-120	5	20	
Pentachlorophenol	8.34	2.0	0.10	ug/l	10.0		83	50-120	18	25	
Phenanthrene	8.08	0.50	0.10	ug/l	10.0		81	65-120	14	20	
Phenol	7.38	1.0	0.30	ug/l	10.0		74	40-120	2	25	
Pyrene	8.16	0.50	0.10	ug/l	10.0		82	55-125	21	25	
1,2,4-Trichlorobenzene	6.52	1.0	0.10	ug/l	10.0		65	45-120	10	20	
2,4,6-Trichlorophenol	7.80	1.0	0.10	ug/l	10.0		78	55-120	11	30	
2,4,5-Trichlorophenol	8.06	2.0	0.20	ug/l	10.0		81	55-120	14	30	
Surrogate: 2-Fluorobiphenyl	7.86			ug/l	10.0		79	50-120			
Surrogate: 2-Fluorophenol	13.6			ug/l	20.0		68	30-120			
Surrogate: Nitrobenzene-d5	7.50			ug/l	10.0		75	45-120			
Surrogate: Phenol-d6	14.7			ug/l	20.0		74	35-120			
Surrogate: Terphenyl-d14	7.62			ug/l	10.0		76	50-125			
Surrogate: 2,4,6-Tribromophenol	18.8			ug/l	20.0		94	40-120			

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## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C03073 Extracted: 03/03/08</b>											
<b>Blank Analyzed: 03/04/2008 (8C03073-BLK1)</b>											
Aldrin	ND	0.0050	0.0015	ug/l							
alpha-BHC	ND	0.0050	0.0025	ug/l							
beta-BHC	ND	0.0050	0.0040	ug/l							
delta-BHC	ND	0.0050	0.0035	ug/l							
gamma-BHC (Lindane)	ND	0.010	0.0030	ug/l							
Chlordane	ND	0.10	0.030	ug/l							
4,4'-DDD	ND	0.0050	0.0020	ug/l							
4,4'-DDE	ND	0.0050	0.0030	ug/l							
4,4'-DDT	ND	0.010	0.0040	ug/l							
Dieldrin	ND	0.0050	0.0020	ug/l							
Endosulfan I	ND	0.0050	0.0020	ug/l							
Endosulfan II	ND	0.0050	0.0030	ug/l							
Endosulfan sulfate	ND	0.010	0.0030	ug/l							
Endrin	ND	0.0050	0.0020	ug/l							
Endrin aldehyde	ND	0.010	0.0020	ug/l							
Endrin ketone	ND	0.010	0.0030	ug/l							
Heptachlor	ND	0.010	0.0030	ug/l							
Heptachlor epoxide	ND	0.0050	0.0025	ug/l							
Methoxychlor	ND	0.0050	0.0035	ug/l							
Toxaphene	ND	0.10	0.070	ug/l							
Surrogate: Decachlorobiphenyl	0.485			ug/l	0.500		97	45-120			
Surrogate: Tetrachloro-m-xylene	0.396			ug/l	0.500		79	35-115			

### LCS Analyzed: 03/04/2008 (8C03073-BS1)

Aldrin	0.358	0.0050	0.0015	ug/l	0.500		72	40-115			
alpha-BHC	0.438	0.0050	0.0025	ug/l	0.500		88	45-115			
beta-BHC	0.442	0.0050	0.0040	ug/l	0.500		88	55-115			
delta-BHC	0.455	0.0050	0.0035	ug/l	0.500		91	55-115			
gamma-BHC (Lindane)	0.422	0.010	0.0030	ug/l	0.500		84	45-115			
4,4'-DDD	0.452	0.0050	0.0020	ug/l	0.500		90	55-120			
4,4'-DDE	0.437	0.0050	0.0030	ug/l	0.500		87	50-120			
4,4'-DDT	0.484	0.010	0.0040	ug/l	0.500		97	55-120			
Dieldrin	0.404	0.0050	0.0020	ug/l	0.500		81	55-115			
Endosulfan I	0.424	0.0050	0.0020	ug/l	0.500		85	55-115			
Endosulfan II	0.446	0.0050	0.0030	ug/l	0.500		89	55-120			
Endosulfan sulfate	0.465	0.010	0.0030	ug/l	0.500		93	60-120			

MNR1

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## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C03073 Extracted: 03/03/08</b>											
<b>LCS Analyzed: 03/04/2008 (8C03073-BS1)</b>											<b>MNR1</b>
Endrin	0.456	0.0050	0.0020	ug/l	0.500		91	55-115			
Endrin aldehyde	0.401	0.010	0.0020	ug/l	0.500		80	50-120			
Endrin ketone	0.453	0.010	0.0030	ug/l	0.500		91	55-120			
Heptachlor	0.411	0.010	0.0030	ug/l	0.500		82	45-115			
Heptachlor epoxide	0.407	0.0050	0.0025	ug/l	0.500		81	55-115			
Methoxychlor	0.441	0.0050	0.0035	ug/l	0.500		88	60-120			
Surrogate: Decachlorobiphenyl	0.465			ug/l	0.500		93	45-120			
Surrogate: Tetrachloro-m-xylene	0.429			ug/l	0.500		86	35-115			
<b>LCS Dup Analyzed: 03/04/2008 (8C03073-BSD1)</b>											
Aldrin	0.372	0.0050	0.0015	ug/l	0.500		74	40-115	4	30	
alpha-BHC	0.429	0.0050	0.0025	ug/l	0.500		86	45-115	2	30	
beta-BHC	0.439	0.0050	0.0040	ug/l	0.500		88	55-115	1	30	
delta-BHC	0.460	0.0050	0.0035	ug/l	0.500		92	55-115	1	30	
gamma-BHC (Lindane)	0.428	0.010	0.0030	ug/l	0.500		86	45-115	1	30	
4,4'-DDD	0.455	0.0050	0.0020	ug/l	0.500		91	55-120	1	30	
4,4'-DDE	0.437	0.0050	0.0030	ug/l	0.500		87	50-120	0	30	
4,4'-DDT	0.489	0.010	0.0040	ug/l	0.500		98	55-120	1	30	
Dieldrin	0.396	0.0050	0.0020	ug/l	0.500		79	55-115	2	30	
Endosulfan I	0.420	0.0050	0.0020	ug/l	0.500		84	55-115	1	30	
Endosulfan II	0.423	0.0050	0.0030	ug/l	0.500		85	55-120	5	30	
Endosulfan sulfate	0.459	0.010	0.0030	ug/l	0.500		92	60-120	1	30	
Endrin	0.450	0.0050	0.0020	ug/l	0.500		90	55-115	1	30	
Endrin aldehyde	0.396	0.010	0.0020	ug/l	0.500		79	50-120	1	30	
Endrin ketone	0.447	0.010	0.0030	ug/l	0.500		89	55-120	1	30	
Heptachlor	0.414	0.010	0.0030	ug/l	0.500		83	45-115	1	30	
Heptachlor epoxide	0.412	0.0050	0.0025	ug/l	0.500		82	55-115	1	30	
Methoxychlor	0.461	0.0050	0.0035	ug/l	0.500		92	60-120	4	30	
Surrogate: Decachlorobiphenyl	0.460			ug/l	0.500		92	45-120			
Surrogate: Tetrachloro-m-xylene	0.423			ug/l	0.500		85	35-115			

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Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
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## METHOD BLANK/QC DATA

### TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C03073 Extracted: 03/03/08</b>											
<b>Blank Analyzed: 03/04/2008 (8C03073-BLK1)</b>											
Aroclor 1016	ND	0.50	0.45	ug/l							
Aroclor 1221	ND	0.50	0.25	ug/l							
Aroclor 1232	ND	0.50	0.25	ug/l							
Aroclor 1242	ND	0.50	0.25	ug/l							
Aroclor 1248	ND	0.50	0.25	ug/l							
Aroclor 1254	ND	0.50	0.25	ug/l							
Aroclor 1260	ND	0.50	0.30	ug/l							
Surrogate: Decachlorobiphenyl	0.458			ug/l	0.500		92	45-120			
<b>LCS Analyzed: 03/04/2008 (8C03073-BS2)</b>											
Aroclor 1016	3.78	0.50	0.45	ug/l	4.00		94	50-115			MNR1
Aroclor 1260	4.11	0.50	0.30	ug/l	4.00		103	60-120			
Surrogate: Decachlorobiphenyl	0.515			ug/l	0.500		103	45-120			
<b>LCS Dup Analyzed: 03/04/2008 (8C03073-BSD2)</b>											
Aroclor 1016	3.74	0.50	0.45	ug/l	4.00		93	50-115	1	30	
Aroclor 1260	4.02	0.50	0.30	ug/l	4.00		101	60-120	2	25	
Surrogate: Decachlorobiphenyl	0.500			ug/l	0.500		100	45-120			

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Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8B29062 Extracted: 02/29/08</b>											
<b>Blank Analyzed: 03/03/2008 (8B29062-BLK1)</b>											
Antimony	ND	2.0	0.20	ug/l							
Arsenic	ND	1.0	0.70	ug/l							
Beryllium	ND	0.50	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Chromium	ND	2.0	0.70	ug/l							
Lead	ND	1.0	0.30	ug/l							
Nickel	ND	2.0	0.90	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
Zinc	2.55	10	2.5	ug/l							J

### LCS Analyzed: 03/03/2008 (8B29062-BS1)

Antimony	82.0	2.0	0.20	ug/l	80.0		102	85-115
Arsenic	82.9	1.0	0.70	ug/l	80.0		104	85-115
Beryllium	80.5	0.50	0.20	ug/l	80.0		101	85-115
Cadmium	81.8	1.0	0.11	ug/l	80.0		102	85-115
Chromium	83.2	2.0	0.70	ug/l	80.0		104	85-115
Lead	84.1	1.0	0.30	ug/l	80.0		105	85-115
Nickel	83.8	2.0	0.90	ug/l	80.0		105	85-115
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115
Silver	83.8	1.0	0.30	ug/l	80.0		105	85-115
Thallium	84.4	1.0	0.20	ug/l	80.0		105	85-115
Zinc	81.7	10	2.5	ug/l	80.0		102	85-115

### Matrix Spike Analyzed: 03/03/2008 (8B29062-MS1)

					Source: IRB2832-01						
Antimony	88.9	2.0	0.20	ug/l	80.0	0.466	110	70-130			
Arsenic	88.5	1.0	0.70	ug/l	80.0	2.64	107	70-130			
Beryllium	82.2	0.50	0.20	ug/l	80.0	ND	103	70-130			
Cadmium	82.6	1.0	0.11	ug/l	80.0	0.310	103	70-130			
Chromium	86.7	2.0	0.70	ug/l	80.0	1.09	107	70-130			
Lead	75.3	1.0	0.30	ug/l	80.0	ND	94	70-130			
Nickel	87.3	2.0	0.90	ug/l	80.0	10.4	96	70-130			
Selenium	99.0	2.0	0.30	ug/l	80.0	9.42	112	70-130			
Silver	79.1	1.0	0.30	ug/l	80.0	ND	99	70-130			
Thallium	74.7	1.0	0.20	ug/l	80.0	ND	93	70-130			

### TestAmerica Irvine

Joseph Doak  
 Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8B29062 Extracted: 02/29/08</b>											
<b>Matrix Spike Analyzed: 03/03/2008 (8B29062-MS1)</b>						<b>Source: IRB2832-01</b>					
Zinc	73.2	10	2.5	ug/l	80.0	5.69	84	70-130			
<b>Matrix Spike Dup Analyzed: 03/03/2008 (8B29062-MSD1)</b>						<b>Source: IRB2832-01</b>					
Antimony	88.4	2.0	0.20	ug/l	80.0	0.466	110	70-130	1	20	
Arsenic	89.0	1.0	0.70	ug/l	80.0	2.64	108	70-130	1	20	
Beryllium	75.2	0.50	0.20	ug/l	80.0	ND	94	70-130	9	20	
Cadmium	82.4	1.0	0.11	ug/l	80.0	0.310	103	70-130	0	20	
Chromium	86.0	2.0	0.70	ug/l	80.0	1.09	106	70-130	1	20	
Lead	75.3	1.0	0.30	ug/l	80.0	ND	94	70-130	0	20	
Nickel	85.2	2.0	0.90	ug/l	80.0	10.4	94	70-130	2	20	
Selenium	99.7	2.0	0.30	ug/l	80.0	9.42	113	70-130	1	20	
Silver	78.8	1.0	0.30	ug/l	80.0	ND	99	70-130	0	20	
Thallium	75.3	1.0	0.20	ug/l	80.0	ND	94	70-130	1	20	
Zinc	72.0	10	2.5	ug/l	80.0	5.69	83	70-130	2	20	

**Batch: 8C04060 Extracted: 03/04/08**

**Blank Analyzed: 03/04/2008 (8C04060-BLK1)**

Aluminum	ND	50	40	ug/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	0.050	mg/l							
Magnesium	ND	0.020	0.012	mg/l							

**LCS Analyzed: 03/04/2008 (8C04060-BS1)**

Aluminum	489	50	40	ug/l	500		98	85-115			
Boron	0.499	0.050	0.020	mg/l	0.500		100	85-115			
Calcium	2.60	0.10	0.050	mg/l	2.50		104	85-115			
Magnesium	2.47	0.020	0.012	mg/l	2.50		99	85-115			

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Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C04060 Extracted: 03/04/08</b>											
<b>Matrix Spike Analyzed: 03/04/2008 (8C04060-MS1)</b>						<b>Source: IRC0078-01</b>					
Aluminum	496	50	40	ug/l	500	ND	99	70-130			
Boron	0.727	0.050	0.020	mg/l	0.500	0.232	99	70-130			
Calcium	35.8	0.10	0.050	mg/l	2.50	32.2	141	70-130			MHA
Magnesium	17.0	0.020	0.012	mg/l	2.50	14.1	119	70-130			MHA
<b>Matrix Spike Dup Analyzed: 03/04/2008 (8C04060-MSD1)</b>						<b>Source: IRC0078-01</b>					
Aluminum	483	50	40	ug/l	500	ND	97	70-130	3	20	
Boron	0.719	0.050	0.020	mg/l	0.500	0.232	97	70-130	1	20	
Calcium	34.6	0.10	0.050	mg/l	2.50	32.2	95	70-130	3	20	MHA
Magnesium	16.5	0.020	0.012	mg/l	2.50	14.1	98	70-130	3	20	MHA
<b>Batch: 8C04064 Extracted: 03/04/08</b>											
<b>Blank Analyzed: 03/04/2008 (8C04064-BLK1)</b>											
Copper	ND	1.0	0.75	ug/l							
<b>LCS Analyzed: 03/04/2008 (8C04064-BS1)</b>											
Copper	77.8	1.0	0.75	ug/l	80.0		97	85-115			
<b>Matrix Spike Analyzed: 03/04/2008 (8C04064-MS1)</b>						<b>Source: IRB2400-01</b>					
Copper	77.3	1.0	0.75	ug/l	80.0	2.28	94	70-130			
<b>Matrix Spike Dup Analyzed: 03/04/2008 (8C04064-MSD1)</b>						<b>Source: IRB2400-01</b>					
Copper	77.3	1.0	0.75	ug/l	80.0	2.28	94	70-130	0	20	

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8B29122 Extracted: 02/29/08</b>											
<b>Blank Analyzed: 02/29/2008 (8B29122-BLK1)</b>											
Total Cyanide	ND	0.0050	0.0022	mg/l							
<b>LCS Analyzed: 02/29/2008 (8B29122-BS1)</b>											
Total Cyanide	0.202	0.0050	0.0022	mg/l	0.200		101	90-110			
<b>Matrix Spike Analyzed: 02/29/2008 (8B29122-MS1)</b>											
						<b>Source: IRB2832-01</b>					
Total Cyanide	0.215	0.0050	0.0022	mg/l	0.200	ND	107	70-115			
<b>Matrix Spike Dup Analyzed: 02/29/2008 (8B29122-MSD1)</b>											
						<b>Source: IRB2832-01</b>					
Total Cyanide	0.211	0.0050	0.0022	mg/l	0.200	ND	106	70-115	2	15	

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 Project Manager

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MWH-Pasadena/Boeing  
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Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b><u>Batch: C8B2913 Extracted: 02/29/08</u></b>											
<b>Blank Analyzed: 03/04/2008 (C8B2913-BLK1)</b>											
Chlorpyrifos	ND	1.0	N/A	ug/l							
Diazinon	ND	0.25	N/A	ug/l							
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.00			ug/l	5.00		100	70-130			
Surrogate: Triphenylphosphate	5.71			ug/l	5.00		114	70-130			
Surrogate: Perylene-d12	4.93			ug/l	5.00		99	70-130			
<b>LCS Analyzed: 03/04/2008 (C8B2913-BS1)</b>											
Chlorpyrifos	5.14	1.0	N/A	ug/l	5.00		103	70-130			MNR1
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.67			ug/l	5.00		93	70-130			
Surrogate: Triphenylphosphate	5.66			ug/l	5.00		113	70-130			
Surrogate: Perylene-d12	4.54			ug/l	5.00		91	70-130			
<b>LCS Dup Analyzed: 03/04/2008 (C8B2913-BSD1)</b>											
Chlorpyrifos	5.06	1.0	N/A	ug/l	5.00		101	70-130	2	10	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.61			ug/l	5.00		92	70-130			
Surrogate: Triphenylphosphate	5.57			ug/l	5.00		111	70-130			
Surrogate: Perylene-d12	4.52			ug/l	5.00		90	70-130			
<b><u>Batch: C8C1801 Extracted: 03/18/08</u></b>											
<b>Blank Analyzed: 03/19/2008 (C8C1801-BLK1)</b>											
Diazinon	ND	0.25	N/A	ug/l							C
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.02			ug/l	5.00		100	70-130			
Surrogate: Triphenylphosphate	4.95			ug/l	5.00		99	70-130			
Surrogate: Perylene-d12	3.92			ug/l	5.00		78	70-130			
<b>LCS Analyzed: 03/18/2008 (C8C1801-BS1)</b>											
Diazinon	5.55	0.25	N/A	ug/l	5.00		111	70-130			C
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.33			ug/l	5.00		107	70-130			
Surrogate: Triphenylphosphate	5.23			ug/l	5.00		105	70-130			
Surrogate: Perylene-d12	5.61			ug/l	5.00		112	70-130			

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Joseph Doak  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C8C1801 Extracted: 03/18/08</b>											
<b>LCS Dup Analyzed: 03/18/2008 (C8C1801-BSD1)</b>											
Diazinon	4.64	0.25	N/A	ug/l	5.00		93	70-130	18	39	C
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.32			ug/l	5.00		106	70-130			
Surrogate: Triphenylphosphate	5.24			ug/l	5.00		105	70-130			
Surrogate: Perylene-d12	5.77			ug/l	5.00		115	70-130			

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
 Received: 02/28/08

## METHOD BLANK/QC DATA

### Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: W8C0041 Extracted: 03/03/08</b>											
<b>Blank Analyzed: 03/05/2008 (W8C0041-BLK1)</b>											
Mercury, Total	ND	0.20	0.050	ug/l							
<b>LCS Analyzed: 03/05/2008 (W8C0041-BS1)</b>											
Mercury, Total	0.956	0.20	0.050	ug/l	1.00		96	85-115			
<b>Matrix Spike Analyzed: 03/05/2008 (W8C0041-MS1)</b>											
						<b>Source: 8030344-04</b>					
Mercury, Total	1.05	0.20	0.050	ug/l	1.00	ND	105	70-130			
<b>Matrix Spike Dup Analyzed: 03/05/2008 (W8C0041-MSD1)</b>											
						<b>Source: 8030344-04</b>					
Mercury, Total	1.05	0.20	0.050	ug/l	1.00	ND	105	70-130	0	20	

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Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C5** Calibration Verification recovery was below the method control limit for this analyte. An additional check standard was analyzed at the reporting limit to ensure instrument sensitivity at the reporting limit. Samples ND.
- H-1** Sample analysis performed past the method-specified holding time per client's approval.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M13** The sample spiked had a pH of less than 2. 2-Chloroethylvinylether degrades under acidic conditions.
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- R-7** LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

## ADDITIONAL COMMENTS

### For 1,2-Diphenylhydrazine:

The result for 1,2-Diphenylhydrazine is based upon the reading of its breakdown product, Azobenzene.

**TestAmerica Irvine**

Joseph Doak  
Project Manager

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**IRB2832 <Page 40 of 41>**  
**NPDES - 4350**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Quarterly + PP Arroyo Simi Frontier Park

Report Number: IRB2832

Sampled: 02/28/08  
Received: 02/28/08

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.7	Water	X	X
EPA 200.8	Water	X	X
EPA 335.2	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
SM2340B	Water	X	X

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at [www.testamericainc.com](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica - Ontario, CA *California Cert #1169, Arizona Cert #AZ0062, Nevada Cert #CA-242*

1014 E. Cooley Drive, Suite AB - Colton, CA 92324

Method Performed: EPA 525.2

Samples: IRB2832-01, IRB2832-01RE1

#### Weck Laboratories, Inc. *California Cert #1132*

14859 E. Clark Avenue - City of Industry, CA 91745

Method Performed: EPA 245.1

Samples: IRB2832-01

### TestAmerica Irvine

Joseph Doak  
Project Manager

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IPB2832

# CHAIN OF CUSTODY FORM

Test America Version 12/20/07

<b>Client Name/Address:</b> MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007		<b>Project:</b> Boeing-SSFL NPDES Quarterly + PP Arroyo Simi - Frontier Park		<b>ANALYSIS REQUIRED</b>		<b>Field readings:</b> Temp = 16.8°C = 62.2°F pH = 8.32 Time of readings = 10:50am									
<b>Test America Contact:</b> Joseph Doak <b>Project Manager:</b> Bronwyn Kelly <b>Sampler:</b> ERIC WALKER		<b>Phone Number:</b> (626) 568-6691 <b>Fax Number:</b> (626) 568-6515		All PP Pesticides (608) All SVOCs (625) All VOCs (624) Cyanide		<b>Comments</b>									
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Hardness as CaCO <sub>3</sub>	PCBs, (608)	Chlorpyrifos, Diazinon (525.2)	Chlordane, Dieldrin, Toxaphene (608), 4,4-DDD, 4,4-DDE, 4,4-DDT	All PP Metals	All SVOCs (625)	All VOCs (624)	Cyanide	Field readings
Arroyo Simi-FP	W	1L Poly	1	2/28/08 11:00am	HNO <sub>3</sub>	1	X								
Arroyo Simi-FP	W	1L Amber	2		None	2A, 2B		X							
Arroyo Simi-FP	W	1L Amber	2		HCl	3A, 3B			X						
Arroyo Simi-FP	W	1L Amber	2		None	4A, 4B				X					
Arroyo Simi-FP	W	1L Poly	1		HNO <sub>3</sub>	5					X				
Arroyo Simi-FP	W	1L Amber	2		None	6A, 6B						X			
Arroyo Simi-FP	W	1L Amber	2		None	7A, 7B							X		
Arroyo Simi-FP	W	VOAs	3		None	8A, 8B, 8C									
Arroyo Simi-FP	W	VOAs	3		HCl	9A, 9B, 9C									
Arroyo Simi-FP	W	500 ml Poly	1	2/28 11:50am	NaOH	10									
Turn around Time: (check) 5 Days _____ 24 Hours _____ 48 Hours _____ 72 Hours _____ Sample Integrity: (check) Normal <input checked="" type="checkbox"/> Intact _____ On Ice: _____															
<b>Relinquished By:</b> Eric Walker Date/Time: 2/28/08				<b>Received By:</b> [Signature] Date/Time: 3/25/08				<b>Relinquished By:</b> [Signature] Date/Time: 2/28/08				<b>Received By:</b> [Signature] Date/Time: 3/25/08			

AF  
7115  
2122102

SUBCONTRACT ORDER

TestAmerica Irvine

IRB2832

8022911

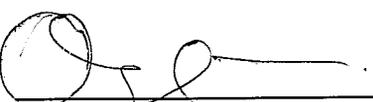
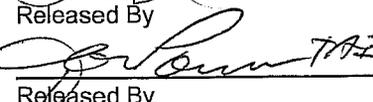
SENDING LABORATORY:

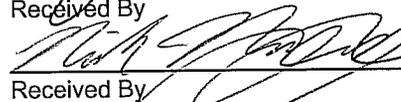
TestAmerica Irvine  
17461 Derian Avenue. Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 260-3297  
Project Manager: Joseph Doak

RECEIVING LABORATORY:

Weck Laboratories, Inc  
14859 E. Clark Avenue  
City of Industry, CA 91745  
Phone : (626) 336-2139  
Fax: (626) 336-2634  
Project Location: California  
Receipt Temperature: 1.2 °C Ice:  Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRB2832-01	Water			Sampled: 02/28/08 11:00
Level 4 Data Package - Wec	N/A	03/10/08	03/27/08 11:00	
Mercury - 245.1-OUT	mg/l	03/10/08	03/27/08 11:00	
Containers Supplied:				
125 mL Poly w/HNO3				
(T)				

  
 Released By \_\_\_\_\_ Date/Time 2/29/08 0725  
  
 Released By \_\_\_\_\_ Date/Time 2/29/08 0905

  
 Received By \_\_\_\_\_ Date/Time 2/29/08 0725  
  
 Received By \_\_\_\_\_ Date/Time 2-28-09 9:05  
 NPDES - 4353 Page 1 of 1



### CERTIFICATE OF ANALYSIS

**Client:** TestAmerica, Inc. - Irvine  
17461 Derian Ave, Suite 100  
Irvine, CA 92614  
Attention: Joseph Doak

**Report Date:** 03/05/08 16:38  
**Received Date:** 02/29/08 09:05  
**Turn Around:** Normal

Phone: (949) 261-1022  
Fax: (949) 260-3297

**Work Order #:** 8022911  
**Client Project:** IRB2832

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

*The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.*

Dear Joseph Doak :

Enclosed are the results of analyses for samples received 02/29/08 09:05 with the Chain of Custody document. The samples were received in good condition. The samples were received at 1.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

Project Manager



Page 1 of 6





Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine  
17461 Derian Ave, Suite 100  
Irvine CA, 92614

Report ID: 8022911  
Project ID: IRB2832

Date Received: 02/29/08 09:05  
Date Reported: 03/05/08 16:38

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IRB2832-01	Client		8022911-01	Water	02/28/08 11:00



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine  
17461 Derian Ave, Suite 100  
Irvine CA, 92614

Report ID: 8022911  
Project ID: IRB2832

Date Received: 02/29/08 09:05  
Date Reported: 03/05/08 16:38

**IRB2832-01 8022911-01 (Water)**

Date Sampled: 02/28/08 11:00

**Metals by EPA 200 Series Methods**

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W8C0041	03/03/08	03/05/08	jlp	



Weck Laboratories, Inc.  
14859 E. Clark Ave.  
Industry, CA 91745  
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine  
17461 Derian Ave, Suite 100  
Irvine CA, 92614

Report ID: 8022911  
Project ID: IRB2832

Date Received: 02/29/08 09:05  
Date Reported: 03/05/08 16:38

# QUALITY CONTROL SECTION



Weck Laboratories, Inc.  
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 17461 Derian Ave, Suite 100  
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Report ID: 8022911  
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Date Received: 02/29/08 09:05  
 Date Reported: 03/05/08 16:38

**Metals by EPA 200 Series Methods - Quality Control**

%REC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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**Batch W8C0041 - EPA 245.1**

<b>Blank (W8C0041-BLK1)</b>				Analyzed: 03/05/08						
Mercury, Total	ND	0.20	ug/l							
<b>LCS (W8C0041-BS1)</b>				Analyzed: 03/05/08						
Mercury, Total	0.956	0.20	ug/l	1.00		96	85-115			
<b>Matrix Spike (W8C0041-MS1)</b>				Source: 8030344-04		Analyzed: 03/05/08				
Mercury, Total	1.05	0.20	ug/l	1.00	ND	105	70-130			
<b>Matrix Spike Dup (W8C0041-MSD1)</b>				Source: 8030344-04		Analyzed: 03/05/08				
Mercury, Total	1.05	0.20	ug/l	1.00	ND	105	70-130	0	20	



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### Notes and Definitions

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project: Annual Sediment Arroyo  
Simi-Frontier Park  
Boeing SSFL NPDES

Sampled: 02/28/08  
Received: 02/28/08  
Revised: 04/21/08 08:17

NELAP #01108CA California ELAP#1197 CSDLAC #10256

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: This is a revised report to provide Pesticide and PCB data in Dry Weight.

**LABORATORY ID**  
IRB2828-01

**CLIENT ID**  
Arroyo Simi-FP

**MATRIX**  
Soil

Reviewed By:



**TestAmerica Irvine**

Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
 Boeing SSFL NPDES  
 Report Number: IRB2828

Sampled: 02/28/08  
 Received: 02/28/08

## ORGANOCHLORINE PESTICIDES (EPA 8081A)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2828-01 (Arroyo Simi-FP - Soil)</b>									
<b>Reporting Units: ug/kg dry</b>									
Aldrin	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	RL1
alpha-BHC	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
beta-BHC	EPA 3545/8081A	8C03069	7.6	13	ND	1.99	03/03/08	03/05/08	
delta-BHC	EPA 3545/8081A	8C03069	3.8	25	ND	1.99	03/03/08	03/05/08	
gamma-BHC (Lindane)	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
Chlordane	EPA 3545/8081A	8C03069	25	130	ND	1.99	03/03/08	03/05/08	
4,4'-DDD	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
4,4'-DDE	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
4,4'-DDT	EPA 3545/8081A	8C03069	8.9	13	ND	1.99	03/03/08	03/05/08	
Dieldrin	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
Endosulfan I	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
Endosulfan II	EPA 3545/8081A	8C03069	6.4	13	ND	1.99	03/03/08	03/05/08	
Endosulfan sulfate	EPA 3545/8081A	8C03069	5.1	25	ND	1.99	03/03/08	03/05/08	
Endrin	EPA 3545/8081A	8C03069	6.4	13	ND	1.99	03/03/08	03/05/08	
Endrin aldehyde	EPA 3545/8081A	8C03069	3.8	13	ND	1.99	03/03/08	03/05/08	
Endrin ketone	EPA 3545/8081A	8C03069	5.1	13	ND	1.99	03/03/08	03/05/08	
Heptachlor	EPA 3545/8081A	8C03069	5.1	13	ND	1.99	03/03/08	03/05/08	
Heptachlor epoxide	EPA 3545/8081A	8C03069	5.1	13	ND	1.99	03/03/08	03/05/08	
Methoxychlor	EPA 3545/8081A	8C03069	7.6	13	ND	1.99	03/03/08	03/05/08	
Toxaphene	EPA 3545/8081A	8C03069	190	510	ND	1.99	03/03/08	03/05/08	
<i>Surrogate: Tetrachloro-m-xylene (35-115%)</i>					<i>100 %</i>				
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					<i>91 %</i>				

**TestAmerica Irvine**

Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
 Boeing SSFL NPDES  
 Report Number: IRB2828

Sampled: 02/28/08  
 Received: 02/28/08

## POLYCHLORINATED BIPHENYLS (EPA 3545/8082)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2828-01 (Arroyo Simi-FP - Soil) - cont.</b>									
<b>Reporting Units: ug/kg dry</b>									
Aroclor 1016	EPA 8082	8C03069	46	130	ND	1.99	03/03/08	03/03/08	RL1
Aroclor 1221	EPA 8082	8C03069	38	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1232	EPA 8082	8C03069	38	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1242	EPA 8082	8C03069	38	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1248	EPA 8082	8C03069	38	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1254	EPA 8082	8C03069	25	130	ND	1.99	03/03/08	03/03/08	
Aroclor 1260	EPA 8082	8C03069	25	130	ND	1.99	03/03/08	03/03/08	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					<i>102 %</i>				

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Joseph Doak  
 Project Manager

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618 Michillinda Avenue, Suite 200  
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Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2828-01 (Arroyo Simi-FP - Soil) - cont.</b>									
Reporting Units: %									
Percent Moisture	EPA 160.3	8C04088	0.10	0.10	22	1	03/04/08	03/04/08	

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**IRB2828 <Page 4 of 15>**  
**NPDES - 4363**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2828-01 (Arroyo Simi-FP - Soil) - cont.</b>									
Reporting Units: mg/kg									
Total Organic Carbon	EPA 9060A MOD.	8C11071	2200	5000	ND	1	03/11/08	03/11/08	

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**IRB2828** <Page 5 of 15>  
NPDES - 4364

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## General Chemistry Parameters

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IRB2828-01 (Arroyo Simi-FP - Soil) - cont.</b>									
Reporting Units: mg/kg									
Ammonia as N	EPA 350.1M	8032452	1.30	2.00	ND	1	03/17/08	03/18/08	

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**IRB2828 <Page 6 of 15>**  
**NPDES - 4365**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 8081A)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C03069 Extracted: 03/03/08</b>											
<b>Blank Analyzed: 03/05/2008 (8C03069-BLK1)</b>											
Aldrin	ND	5.0	1.5	ug/kg wet							
alpha-BHC	ND	5.0	1.5	ug/kg wet							
beta-BHC	ND	5.0	3.0	ug/kg wet							
delta-BHC	ND	10	1.5	ug/kg wet							
gamma-BHC (Lindane)	ND	5.0	1.5	ug/kg wet							
Chlordane	ND	50	10	ug/kg wet							
4,4'-DDD	ND	5.0	1.5	ug/kg wet							
4,4'-DDE	ND	5.0	1.5	ug/kg wet							
4,4'-DDT	ND	5.0	3.5	ug/kg wet							
Dieldrin	ND	5.0	1.5	ug/kg wet							
Endosulfan I	ND	5.0	1.5	ug/kg wet							
Endosulfan II	ND	5.0	2.5	ug/kg wet							
Endosulfan sulfate	ND	10	2.0	ug/kg wet							
Endrin	ND	5.0	2.5	ug/kg wet							
Endrin aldehyde	ND	5.0	1.5	ug/kg wet							
Endrin ketone	ND	5.0	2.0	ug/kg wet							
Heptachlor	ND	5.0	2.0	ug/kg wet							
Heptachlor epoxide	ND	5.0	2.0	ug/kg wet							
Methoxychlor	ND	5.0	3.0	ug/kg wet							
Toxaphene	ND	200	75	ug/kg wet							
Surrogate: Tetrachloro-m-xylene	35.5			ug/kg wet	33.3		106	35-115			
Surrogate: Decachlorobiphenyl	36.0			ug/kg wet	33.3		108	45-120			

### LCS Analyzed: 03/05/2008 (8C03069-BS1)

Aldrin	24.6	5.0	1.5	ug/kg wet	33.3		74	50-115			
alpha-BHC	35.1	5.0	1.5	ug/kg wet	33.3		105	60-115			
beta-BHC	33.7	5.0	3.0	ug/kg wet	33.3		101	60-115			
delta-BHC	33.5	10	1.5	ug/kg wet	33.3		101	60-115			
gamma-BHC (Lindane)	33.0	5.0	1.5	ug/kg wet	33.3		99	55-115			
4,4'-DDD	34.7	5.0	1.5	ug/kg wet	33.3		104	60-120			
4,4'-DDE	34.9	5.0	1.5	ug/kg wet	33.3		105	60-120			
4,4'-DDT	37.1	5.0	3.5	ug/kg wet	33.3		111	65-120			
Dieldrin	32.7	5.0	1.5	ug/kg wet	33.3		98	65-115			
Endosulfan I	33.4	5.0	1.5	ug/kg wet	33.3		100	40-120			
Endosulfan II	23.8	5.0	2.5	ug/kg wet	33.3		72	55-120			
Endosulfan sulfate	29.3	10	2.0	ug/kg wet	33.3		88	65-115			

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 8081A)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C03069 Extracted: 03/03/08</b>											
<b>LCS Analyzed: 03/05/2008 (8C03069-BS1)</b>											
Endrin	36.3	5.0	2.5	ug/kg wet	33.3		109	55-120			
Endrin aldehyde	24.3	5.0	1.5	ug/kg wet	33.3		73	55-115			
Endrin ketone	33.9	5.0	2.0	ug/kg wet	33.3		102	65-115			
Heptachlor	33.7	5.0	2.0	ug/kg wet	33.3		101	55-115			
Heptachlor epoxide	31.3	5.0	2.0	ug/kg wet	33.3		94	55-115			
Methoxychlor	36.8	5.0	3.0	ug/kg wet	33.3		110	65-120			
Surrogate: Tetrachloro-m-xylene	34.3			ug/kg wet	33.3		103	35-115			
Surrogate: Decachlorobiphenyl	34.6			ug/kg wet	33.3		104	45-120			
<b>Matrix Spike Analyzed: 03/05/2008 (8C03069-MS1)</b>											
						<b>Source: IRB2795-01</b>					
Aldrin	29.9	5.0	1.5	ug/kg wet	33.3	ND	90	40-115			
alpha-BHC	32.5	5.0	1.5	ug/kg wet	33.3	ND	98	40-115			
beta-BHC	32.4	5.0	3.0	ug/kg wet	33.3	ND	97	40-120			
delta-BHC	32.1	10	1.5	ug/kg wet	33.3	ND	96	45-120			
gamma-BHC (Lindane)	30.9	5.0	1.5	ug/kg wet	33.3	ND	93	40-120			
4,4'-DDD	33.5	5.0	1.5	ug/kg wet	33.3	ND	101	40-130			
4,4'-DDE	33.0	5.0	1.5	ug/kg wet	33.3	ND	99	35-130			
4,4'-DDT	35.2	5.0	3.5	ug/kg wet	33.3	ND	106	35-130			
Dieldrin	30.1	5.0	1.5	ug/kg wet	33.3	ND	91	40-125			
Endosulfan I	32.0	5.0	1.5	ug/kg wet	33.3	ND	96	40-120			
Endosulfan II	20.9	5.0	2.5	ug/kg wet	33.3	ND	63	40-125			
Endosulfan sulfate	32.1	10	2.0	ug/kg wet	33.3	ND	96	45-120			
Endrin	34.2	5.0	2.5	ug/kg wet	33.3	ND	103	45-125			
Endrin aldehyde	27.5	5.0	1.5	ug/kg wet	33.3	ND	83	30-120			
Endrin ketone	31.4	5.0	2.0	ug/kg wet	33.3	ND	94	40-120			
Heptachlor	30.9	5.0	2.0	ug/kg wet	33.3	ND	93	40-115			
Heptachlor epoxide	28.1	5.0	2.0	ug/kg wet	33.3	ND	84	45-115			
Methoxychlor	34.6	5.0	3.0	ug/kg wet	33.3	ND	104	40-135			
Surrogate: Tetrachloro-m-xylene	32.4			ug/kg wet	33.3		97	35-115			
Surrogate: Decachlorobiphenyl	31.6			ug/kg wet	33.3		95	45-120			

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Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 8081A)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C03069 Extracted: 03/03/08</b>											
<b>Matrix Spike Dup Analyzed: 03/05/2008 (8C03069-MSD1)</b>						<b>Source: IRB2795-01</b>					
Aldrin	28.1	5.0	1.5	ug/kg wet	33.3	ND	84	40-115	6	30	
alpha-BHC	31.6	5.0	1.5	ug/kg wet	33.3	ND	95	40-115	3	30	
beta-BHC	30.9	5.0	3.0	ug/kg wet	33.3	ND	93	40-120	5	30	
delta-BHC	31.6	10	1.5	ug/kg wet	33.3	ND	95	45-120	2	30	
gamma-BHC (Lindane)	29.8	5.0	1.5	ug/kg wet	33.3	ND	90	40-120	3	30	
4,4'-DDD	31.5	5.0	1.5	ug/kg wet	33.3	ND	95	40-130	6	30	
4,4'-DDE	31.6	5.0	1.5	ug/kg wet	33.3	ND	95	35-130	4	30	
4,4'-DDT	33.5	5.0	3.5	ug/kg wet	33.3	ND	101	35-130	5	30	
Dieldrin	29.2	5.0	1.5	ug/kg wet	33.3	ND	88	40-125	3	30	
Endosulfan I	30.8	5.0	1.5	ug/kg wet	33.3	ND	93	40-120	4	30	
Endosulfan II	23.7	5.0	2.5	ug/kg wet	33.3	ND	71	40-125	12	30	
Endosulfan sulfate	30.6	10	2.0	ug/kg wet	33.3	ND	92	45-120	5	30	
Endrin	32.5	5.0	2.5	ug/kg wet	33.3	ND	98	45-125	5	30	
Endrin aldehyde	26.0	5.0	1.5	ug/kg wet	33.3	ND	78	30-120	6	30	
Endrin ketone	30.2	5.0	2.0	ug/kg wet	33.3	ND	91	40-120	4	30	
Heptachlor	30.4	5.0	2.0	ug/kg wet	33.3	ND	91	40-115	2	30	
Heptachlor epoxide	27.4	5.0	2.0	ug/kg wet	33.3	ND	82	45-115	2	30	
Methoxychlor	33.1	5.0	3.0	ug/kg wet	33.3	ND	100	40-135	4	30	
Surrogate: Tetrachloro-m-xylene	31.3			ug/kg wet	33.3		94	35-115			
Surrogate: Decachlorobiphenyl	30.5			ug/kg wet	33.3		92	45-120			

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Joseph Doak  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### POLYCHLORINATED BIPHENYLS (EPA 3545/8082)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C03069 Extracted: 03/03/08</b>											
<b>Blank Analyzed: 03/03/2008 (8C03069-BLK1)</b>											
Aroclor 1016	ND	50	18	ug/kg wet							
Aroclor 1221	ND	50	15	ug/kg wet							
Aroclor 1232	ND	50	15	ug/kg wet							
Aroclor 1242	ND	50	15	ug/kg wet							
Aroclor 1248	ND	50	15	ug/kg wet							
Aroclor 1254	ND	50	10	ug/kg wet							
Aroclor 1260	ND	50	10	ug/kg wet							
Surrogate: Decachlorobiphenyl	36.8			ug/kg wet	33.3		110	45-120			
<b>LCS Analyzed: 03/03/2008 (8C03069-BS2)</b>											
Aroclor 1016	286	50	18	ug/kg wet	267		107	65-115			
Aroclor 1260	298	50	10	ug/kg wet	267		112	65-115			
Surrogate: Decachlorobiphenyl	36.9			ug/kg wet	33.3		111	45-120			
<b>Matrix Spike Analyzed: 03/03/2008 (8C03069-MS2) Source: IRB2931-01</b>											
Aroclor 1016	1430	310	110	ug/kg dry	1630	ND	87	50-120			
Aroclor 1260	1360	310	61	ug/kg dry	1630	ND	83	50-125			
Surrogate: Decachlorobiphenyl	181			ug/kg dry	204		89	45-120			
<b>Matrix Spike Dup Analyzed: 03/03/2008 (8C03069-MSD2) Source: IRB2931-01</b>											
Aroclor 1016	1390	310	110	ug/kg dry	1630	ND	85	50-120	3	30	
Aroclor 1260	1510	310	61	ug/kg dry	1630	ND	92	50-125	10	30	
Surrogate: Decachlorobiphenyl	182			ug/kg dry	204		89	45-120			

TestAmerica Irvine

Joseph Doak  
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C04088 Extracted: 03/04/08</b>										
<b>Duplicate Analyzed: 03/04/2008 (8C04088-DUP1)</b>										
Percent Moisture	23.0	0.10	0.10	%		21.7		6	20	

TestAmerica Irvine

Joseph Doak  
Project Manager

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IRB2828 <Page 11 of 15>  
NPDES - 4370

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
 Boeing SSFL NPDES  
 Report Number: IRB2828

Sampled: 02/28/08  
 Received: 02/28/08

## METHOD BLANK/QC DATA

### TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8C11071 Extracted: 03/11/08</b>											
<b>Blank Analyzed: 03/11/2008 (8C11071-BLK1)</b>											
Total Organic Carbon	ND	5000	2200	mg/kg							
<b>LCS Analyzed: 03/11/2008 (8C11071-BS1)</b>											
Total Organic Carbon	9880	5000	2200	mg/kg	10000		99	90-110			
<b>Matrix Spike Analyzed: 03/11/2008 (8C11071-MS1)</b>											
						<b>Source: IRB2095-03</b>					
Total Organic Carbon	19700	5000	2200	mg/kg	25000	ND	79	70-130			
<b>Matrix Spike Dup Analyzed: 03/11/2008 (8C11071-MSD1)</b>											
						<b>Source: IRB2095-03</b>					
Total Organic Carbon	22900	5000	2200	mg/kg	25000	ND	92	70-130	15	30	

TestAmerica Irvine

Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
 Boeing SSFL NPDES  
 Report Number: IRB2828

Sampled: 02/28/08  
 Received: 02/28/08

## METHOD BLANK/QC DATA

### General Chemistry Parameters

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 8032452 Extracted: 03/17/08</b>											
<b>Blank Analyzed: 03/18/2008 (8032452-BLK1)</b>											
Ammonia as N	ND	2.00	1.30	mg/kg							
<b>LCS Analyzed: 03/18/2008 (8032452-BS1)</b>											
Ammonia as N	45.7	2.00	1.30	mg/kg	50.0		91	81-111			
<b>LCS Dup Analyzed: 03/18/2008 (8032452-BSD1)</b>											
Ammonia as N	45.3	2.00	1.30	mg/kg	50.0		91	81-111	1	50	
<b>Duplicate Analyzed: 03/18/2008 (8032452-DUP1)</b>											
Ammonia as N	458	40.0	26.0	mg/kg		Source: NRC0409-02 759			50	50	
<b>Matrix Spike Analyzed: 03/18/2008 (8032452-MS1)</b>											
Ammonia as N	49.2	2.00	1.30	mg/kg	50.0	Source: IRB2828-01 ND	98	72-116			
<b>Matrix Spike Dup Analyzed: 03/18/2008 (8032452-MSD1)</b>											
Ammonia as N	48.8	2.00	1.30	mg/kg	50.0	Source: IRB2828-01 ND	98	72-116	1	50	

TestAmerica Irvine

Joseph Doak  
 Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## DATA QUALIFIERS AND DEFINITIONS

- RL1** Reporting limit raised due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

**TestAmerica Irvine**

Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

**IRB2828 <Page 14 of 15>**  
**NPDES - 4373**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Bronwyn Kelly

Project ID: Annual Sediment Arroyo Simi-Frontier Park  
Boeing SSFL NPDES  
Report Number: IRB2828

Sampled: 02/28/08  
Received: 02/28/08

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.3	Soil		
EPA 3545/8081A	Soil	X	X
EPA 8082	Soil	X	X
EPA 9060A MOD.	Soil	N/A	N/A

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at [www.testamericainc.com](http://www.testamericainc.com)

### Subcontracted Laboratories

#### ABC Laboratories California Cert #1907

29 N. Olive Street - Ventura, CA 93001

Analysis Performed: Bioassay-Haz. Waste  
Samples: IRB2828-01

Analysis Performed: BioassyHaz Waste Def  
Samples: IRB2828-01

#### STL - Burlington, VT (Sub)

208 South Park Drive, Suite 1 - Colchester, VT 05446

Analysis Performed: Particlesize  
Samples: IRB2828-01

#### TestAmerica - Nashville, TN

2960 Foster Creighton Drive - Nashville, TN 37204

Method Performed: EPA 350.1M  
Samples: IRB2828-01

### TestAmerica Irvine

Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

182828

**CHAIN OF CUSTODY FORM**

Test America Version 12/20/07

<b>Client Name/Address:</b> MWH-Arcadia 618 Michillin da Avenue, Suite 200 Arcadia, CA 91007		<b>Project:</b> Boeing-SSFL NPDES Annual Sediment Arroyo Simi Frontier Park		<b>Test America Contact:</b> Joseph Doak <b>Project Manager:</b> Bronwyn Kelly <b>Sampler:</b> ERIC WALKER		<b>Phone Number:</b> (626) 568-6691 <b>Fax Number:</b> (626) 568-6515									
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Chronic 10-day eohaustorius estuarius Toxicity	48-hour Bivalve Embryo toxicity (Mytilus edulis or Crassostrea gigas)	Total Ammonia	% Moisture	Particle Size Distribution	Total Organic Carbon	PCBs (608)	Chlordane, Dieldrin, Toxaphene (608), 4,4-DDD, 4,4-DDE, 4,4-DDT	Field readings
Arroyo Simi-FP	S	1L wide mouth Plastic	4	2/28/08 11:25am	4C in the Dark	1A, 1B, 1C, 1D	X	X							Temp = 18°C = 64°F pH = 8.31 DO = 0.07 Conductivity = 1.69 Time of readings = 11:25am
Arroyo Simi-FP	S	9 oz Jar	1		4 deg C	2A		X							<b>Comments</b> Keep sample in cooler in the dark until delivered to ABC Labs
Arroyo Simi-FP	S	9 oz Jar	1		4 deg C	3A			X						
Arroyo Simi-FP	S	9 oz Jar	1		4 deg C	4A				X					
Arroyo Simi-FP	S	9 oz Jar	1	2/26 11:25am	4 deg C	5A						X	X		
Relinquished By		Date/Time:		Date/Time:		Received By		Date/Time:		Date/Time:		Date/Time:		Turn around Time: (check)	
Eric Walker		2/28/08		2/28/08		[Signature]		2/28/08		[Signature]		[Signature]		24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>	
Relinquished By		Date/Time:		Date/Time:		Received By		Date/Time:		Date/Time:		Date/Time:		Sample Integrity: (check)	
[Signature]		2/28/08		2/28/08		[Signature]		2/28/08		[Signature]		[Signature]		Intact <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/>	
Relinquished By		Date/Time:		Date/Time:		Received By		Date/Time:		Date/Time:		Date/Time:		On Ice: <input type="checkbox"/>	
[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		4/2/08	



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
March 20, 2008

Mr. Joseph Doak  
TestAmerica Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614

Dear Mr. Doak:

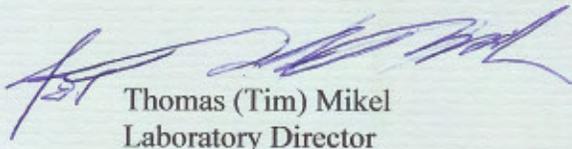
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, EPA/R-95/136. Results were as follows:

CLIENT:	TestAmerica Irvine
SAMPLE I.D.:	IRB2828-01
DATE RECEIVED:	29 Feb - 08
ABC LAB. NO.:	TAM0208.359

#### CHRONIC EOHAUSTORIUS SURVIVAL BIOASSAY

NOEC =	100.00 %
TU <sub>c</sub> =	1.00
IC <sub>25</sub> =	>100.00 %
IC <sub>50</sub> =	>100.00 %

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

**Amphipod Test-10 Day Survival**

Start Date: 3/20/2008	Test ID: TAM0208359	Sample ID: CA000000
End Date: 3/24/2008	Lab ID: CAABC	Sample Type: Sed-Sediment
Sample Date: 3/19/2008	Protocol: EPA/600R-94/025	Test Species: Ee-Eohaustorius
Comments: IRB2828-01		

Conc-%	1	2	3	4	5
N Control	1.0000	1.0000	1.0000	0.9500	0.9500
100	1.0000	0.9500	0.9500	1.0000	1.0000

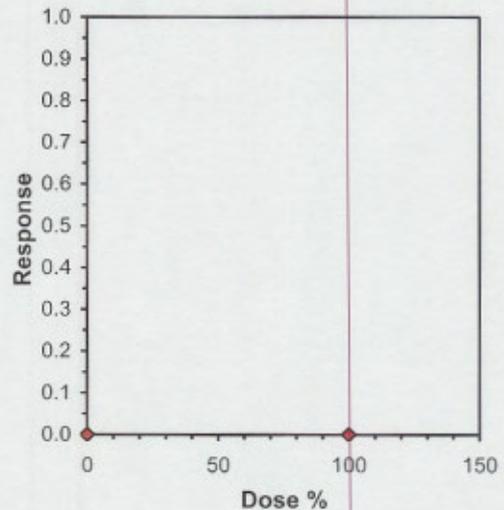
Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					Rank Sum	1-Tailed Critical	Isotonic	
			Mean	Min	Max	CV%	N			Mean	N-Mean
N Control	0.9800	1.0000	1.4134	1.3453	1.4588	4.398	5	27.50	19.00	0.9800	1.0000
100	0.9800	1.0000	1.4134	1.3453	1.4588	4.398	5			0.9800	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)	0.64015	0.781	-0.4841	-2.2768
F-Test indicates equal variances (p = 1.00)	1	23.1545		

**Hypothesis Test (1-tail, 0.05)**

Wilcoxon Two-Sample Test indicates no significant differences  
Treatments vs N Control

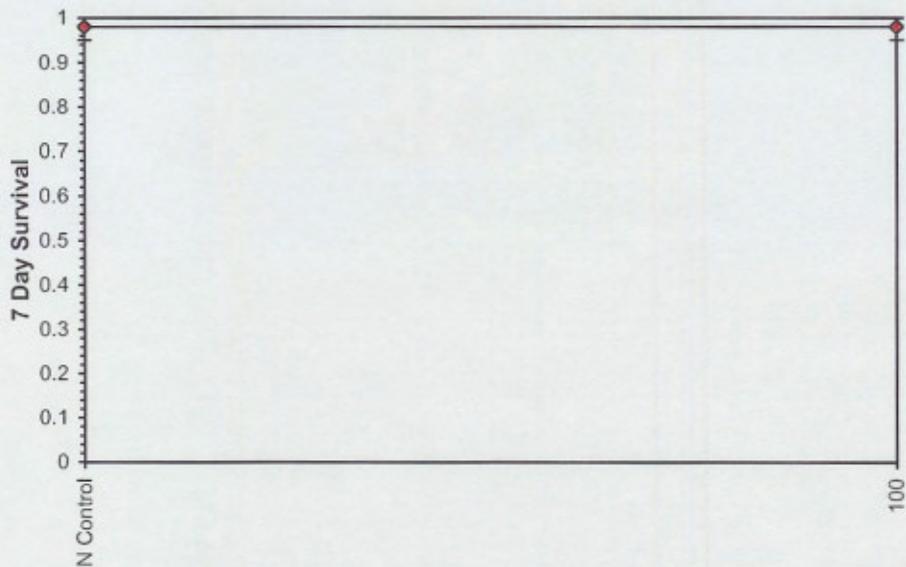
Point	%	SD	Linear Interpolation (200 Resamples)	
			95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Amphipod Test-10 Day Survival

Start Date: 3/20/2008	Test ID: TAM0208359	Sample ID: CA000000
End Date: 3/24/2008	Lab ID: CAABC	Sample Type: Sed-Sediment
Sample Date: 3/19/2008	Protocol: EPA/600R-94/025	Test Species: Ee-Eohaustorius
Comments: IRB2828-01		

Dose-Response Plot



**Amphipod Test-10 Day Survival**

Start Date: 3/20/2008	Test ID: TAM0208359	Sample ID: CA000000
End Date: 3/24/2008	Lab ID: CAABC	Sample Type: Sed-Sediment
Sample Date: 3/19/2008	Protocol: EPA/600R-94/025	Test Species: Ee-Eohaustorius
Comments: IRB2828-01		

**Auxiliary Data Summary**

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	15.00	15.00	15.00	0.00	0.00	2
100		15.00	15.00	15.00	0.00	0.00	2
N Control	pH	7.70	7.70	7.70	0.00	0.00	2
100		7.75	7.60	7.90	0.21	5.94	2
N Control	DO mg/L	9.90	9.90	9.90	0.00	0.00	2
100		10.00	9.90	10.10	0.14	3.76	2
N Control	Salinity ppt	20.00	20.00	20.00	0.00	0.00	2
100		20.00	20.00	20.00	0.00	0.00	2



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH  
March 18, 2008

Mr. Joseph Doak  
TestAmerica Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614

Dear Mr. Doak:

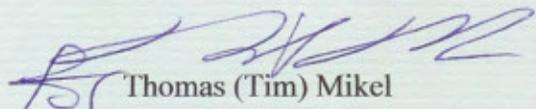
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, EPA/R-95/136*. Results were as follows:

CLIENT:	TestAmerica Irvine
SAMPLE I.D.:	IRB2828-01
DATE RECEIVED:	29 Feb - 08
ABC LAB. NO.:	TAM0208.359

**CHRONIC MYTILUS DEVELOPMENT BIOASSAY**

NOEC =	100.00 %
TU <sub>c</sub> =	1.00
IC25 =	>100.00 %
IC50 =	>100.00 %

Yours very truly,



Thomas (Tim) Mikel  
Laboratory Director

**Sperm Cell Fertilization Test-Proportion Fertilized**

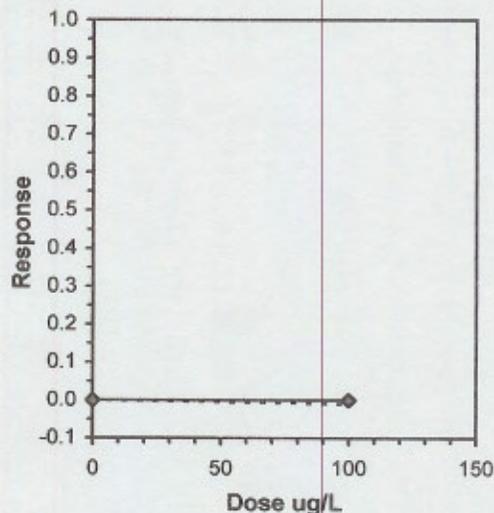
Start Date: 3/11/2008	Test ID: TAM0208359	Sample ID: CA0000000
End Date: 3/13/2008	Lab ID: ABC LABORA	Sample Type: EFF1-POTW
Sample Date: 3/11/2008	Protocol: EPA/600/R	Test Species: ME-Mytilus edulis
Comments: IRB2828-01		

Conc-ug/L	1	2	3	4	5
Control	0.9900	1.0000	0.9700	0.9800	0.9700
100	1.0000	0.9900	1.0000	0.9900	0.9800

Conc-ug/L	Transform: Arcsin Square Root							t-Stat	1-Tailed Critical	Isotonic		
	Mean	N-Mean	Mean	Min	Max	CV%	N			MSD	Mean	N-Mean
Control	0.9820	1.0000	1.4427	1.3967	1.5208	3.683	5			0.9870	1.0000	
100	0.9920	1.0102	1.4823	1.4289	1.5208	2.631	5	-1.343	1.860	0.0548	0.9870	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt						
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.91985	0.781	0.42014	-0.8718						
F-Test indicates equal variances ( $p = 0.56$ )	1.8564	23.1539								
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	100	>100			0.01677	0.01705	0.00392	0.00217	0.21607	1, 8

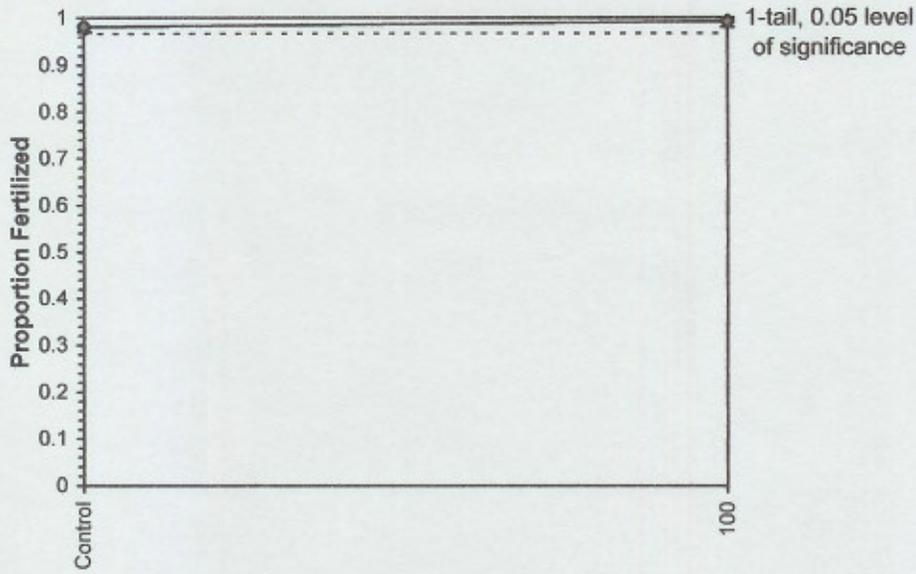
Linear Interpolation (200 Resamples)				
Point	ug/L	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 3/11/2008	Test ID: TAM0208359	Sample ID: CA0000000
End Date: 3/13/2008	Lab ID: ABC LABORA	Sample Type: EFF1-POTW
Sample Date: 3/11/2008	Protocol: EPA/600/R	Test Species: ME-Mytilus edulis
Comments: IRB2828-01		

Dose-Response Plot



**SUBCONTRACT ORDER**

TestAmerica Irvine

**IRB2828**

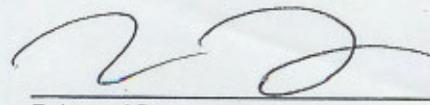
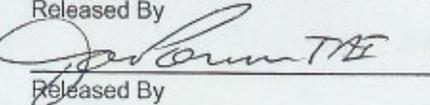
**SENDING LABORATORY:**

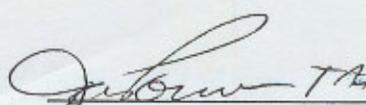
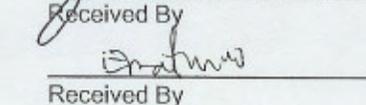
TestAmerica Irvine  
 17461 Derian Avenue, Suite 100  
 Irvine, CA 92614  
 Phone: (949) 261-1022  
 Fax: (949) 260-3297  
 Project Manager: Joseph Doak

**RECEIVING LABORATORY:**

ABC Laboratories-SUB  
 29 N. Olive Street  
 Ventura, CA 93001  
 Phone : (805) 643-5621  
 Fax: (805) 643-2930  
 Project Location: California  
 Receipt Temperature: \_\_\_\_\_ °C      Ice: Y / N

Analysis	Units	Due	Expires	Comments
<b>Sample ID: IRB2828-01</b>	<b>Soil</b>		<b>Sampled: 02/28/08 11:00</b>	
Bioassay-Haz. Waste	N/A	03/10/08	03/06/08 11:00	Chronic 10 day(eohaustorius) Out to ABC Labs 48hr Bivalve Embryo TOX(mytilus edulis) Out to ABC
BioassyHaz Waste Def	N/A	03/10/08	03/06/08 11:00	
Level 4 Data Package - Out	N/A	03/10/08	03/27/08 11:00	
<i>Containers Supplied:</i>				
1 Liter wide mouth Poly (A)	1 Liter wide mouth Poly (B)	1 Liter wide mouth Poly (C)	1 Liter wide mouth Poly (D)	

 2/29/08 0725  
 Released By \_\_\_\_\_ Date/Time \_\_\_\_\_  
 2/29/08 1300  
 Released By \_\_\_\_\_ Date/Time \_\_\_\_\_

 TAE 2/29/08 0725  
 Received By \_\_\_\_\_ Date/Time \_\_\_\_\_  
 2/29/08 1320  
 Received By \_\_\_\_\_ Date/Time \_\_\_\_\_

TestAmerica  
South Burlington, VT

Sample Data Summary  
Package

SDG: IRB2828

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

March 10, 2008

Mr. Joseph Doak  
TestAmerica, Inc.  
17461 Derian Avenue  
Suite 100  
Irvine, CA 92614

Re: Laboratory Project No. 28000  
Case: BOEING; SDG: IRB2828

Dear Mr. Joseph Doak:

Enclosed are the analytical results for the sample that was received by TestAmerica Burlington on March 4<sup>th</sup>, 2008. A laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
	Received: 03/04/08	ETR No: 124347	
742073	IRB2828-01	02/28/08	SOIL

Documentation of the condition of the sample at the time of its receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

#### Particle Size Analysis by ASTM D422

There were no exceptions to the method quality control criteria during the analysis of this sample.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the sample presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,



Kristine A. Dusablon  
Project Manager

Enclosure

SUBCONTRACT ORDER

TestAmerica Irvine

IRB2828

SENDING LABORATORY:

TestAmerica Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 260-3297  
Project Manager: Joseph Doak  
Client: MWH-Pasadena/Boeing

RECEIVING LABORATORY:

TestAmerica Burlington  
208 South Park Drive, Suite 1  
Colchester, VT 05446  
Phone : (802) 655-1203  
Fax: (802) 655-1248  
Project Location: California  
Receipt Temperature: 1.7 °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
<b>Sample ID: IRB2828-01</b>						
	<b>Soil</b>	<b>Sampled: 02/28/08 11:00</b>				
Level 4 Data Package	N/A	03/10/08	03/27/08 11:00	\$0.00	0%	
Particulate-out	N/A	03/10/08	03/27/08 11:00	\$0.00	0%	Boeing, J flags, OUT to TA- Burlington
<i>Containers Supplied:</i>						
9 oz Jar (H)						

  
Released By \_\_\_\_\_ Date/Time 2/29/08 17:00

FedEx  
Received By \_\_\_\_\_ Date/Time 2/29/08 17:00

Released By \_\_\_\_\_ Date/Time \_\_\_\_\_

  
Received By \_\_\_\_\_ Date/Time 3.1.08 1730

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

## **Sample Data Summary – Geotechnical**

# Particle Size of Soils by ASTM D422

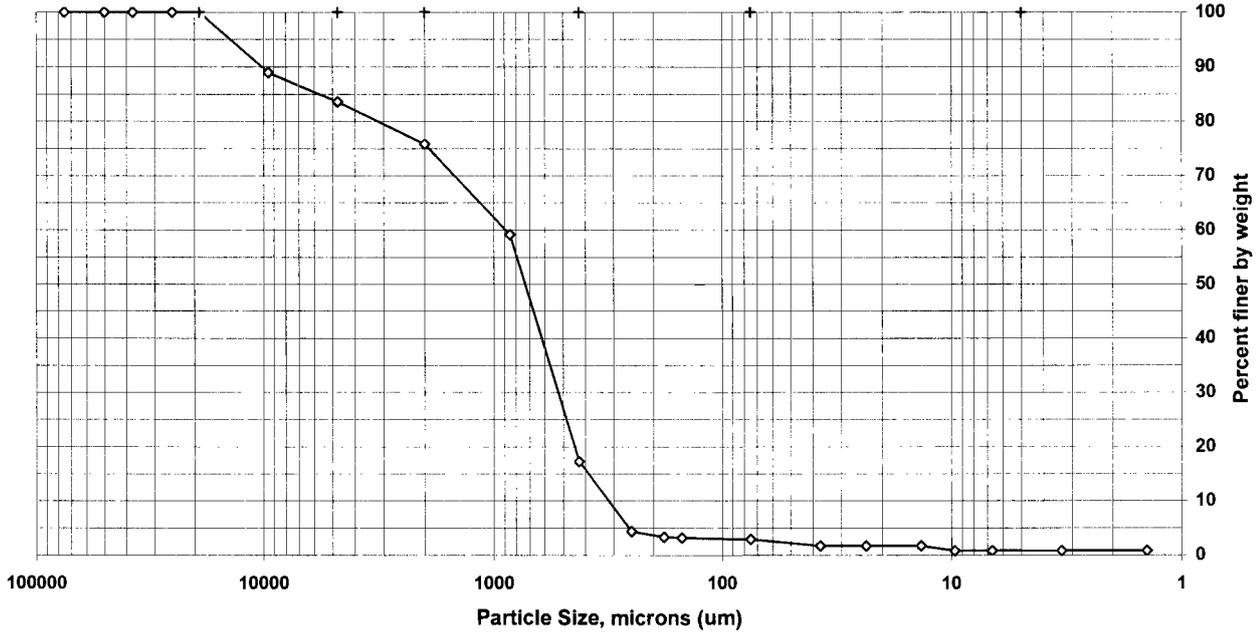
Client Code: TACAI  
 Sample ID: IRB2828-01  
 Lab ID: 742073

SDG: IRB2828  
 ETR(s): 124347

Date Received: 3/4/2008  
 Start Date: 3/4/2008  
 End Date: 3/6/2008

Percent Solids: 82.1%  
 Specific Gravity: 2.650  
 Maximum Particle Size: 19 mm

Non-soil material: glass  
 Shape (> #10): subrounded  
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	89.0	11.0
#4	4750	83.6	5.4
#10	2000	75.8	7.8
#20	850	59.2	16.6
#40	425	17.3	41.9
#60	250	4.4	13.0
#80	180	3.3	1.0
#100	150	3.2	0.1
#200	75	3.0	0.3
Hydrometer	37.1	1.8	1.2
	23.5	1.8	0.0
	13.6	1.8	0.0
	9.7	0.8	1.0
	6.7	0.8	0.0
	3.3	0.8	0.0
V	1.4	0.8	0.0

Soil Classification	Percent of Total Sample
Gravel	16.4
Sand	80.6
Coarse Sand	7.8
Medium Sand	58.5
Fine Sand	14.3
Silt	2.2
Clay	0.8

Preparation Method: **D2217**  
 Dispersion Device: Mechanical mixer with a metal paddle.  
 Dispersion Period: 1 minute

# TOC-Control

Samples

Sample Name: IRB2828-01  
 Sample ID: TOC  
 Remark:  
 Comment: Analyst: KHa  
 Method: 080313\_s.met  
 Cal Curve: 1: 20080311.cal

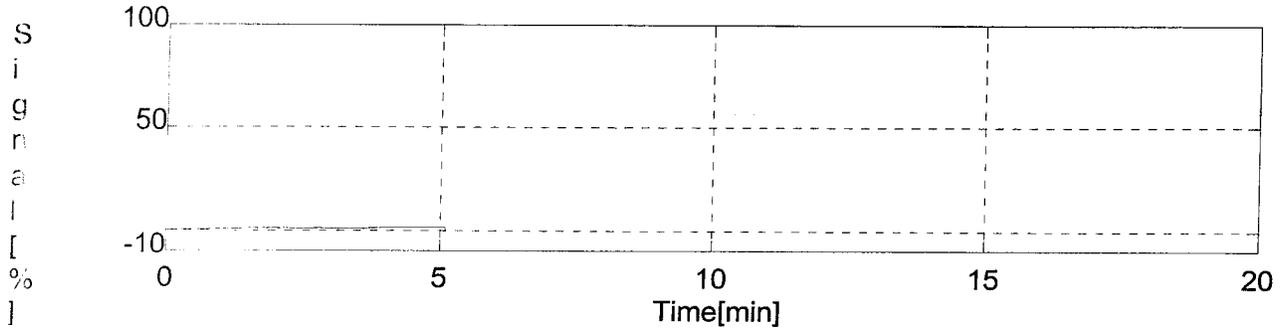
Type	Analysis	Dilution	Date/Time
Unknown	SSM-TC	1.000	3/11/2008 03/12/2008 01:06:33

13:06:33

Mean Area	Conc	Result	SD	CV	Weight	Modified
0	399.6ppm		0.000	0.00%	100.0	

No.	Range	Area	Weight	Conc	Excl.	Notes	Date/Time	Cal Curve
1	1	0	100.0	399.63		*****	03/12/2008 01:06:33	20080311.cal

Peak Profile



# TOC-Control

Samples

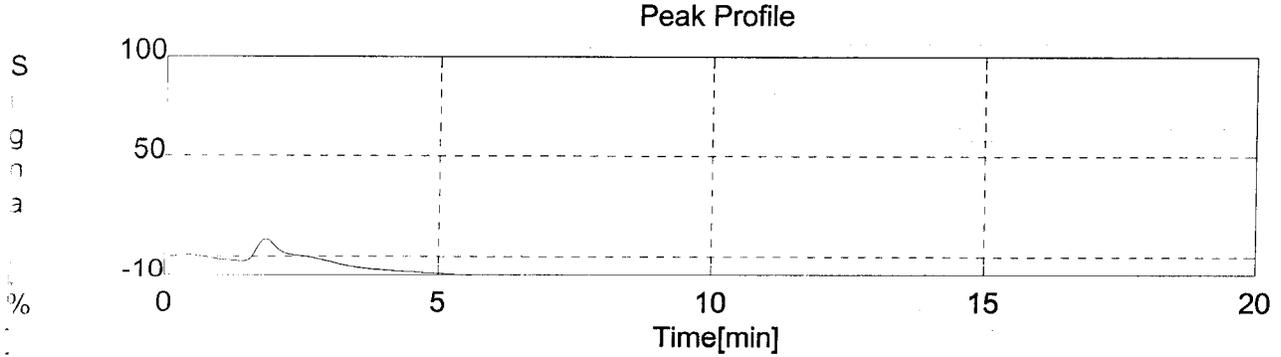
Sample Name: IRB2828-01 MS  
 Sample ID: TOC  
 Remark:  
 Comment: Analyst: KHa  
 Method: 080313\_s.met  
 Cal Curve: 1: 20080311.cal

Not  
Used

Type	Analysis	Dilution	Date/Time
Unknown	SSM-TC	1.000	3/11/2008 03/12/2008 01:15:05

Mean Area	Conc	Result	SD	CV	Weight	Modified
4943	13402ppm		0.000	0.00%	100.0	

No	Range	Area	Weight	Conc	Excl.	Notes	Date/Time	Cal Curve
1	1	4943	100.0	13401.6		*****	03/12/2008 01:15:05	20080311.cal



# TOC-Control

Samples

Sample Name: IRB2828-01 MSD  
 Sample ID: TOC  
 Remark:  
 Comment: Analyst: KHa  
 Method: 080313\_s.met  
 Cal Curve: 1: 20080311.cal

*not used*

Type	Analysis	Dilution	Date/Time
Unknown	SSM-TC	1.000	03/12/2008 01:21:02

Mean Area	Conc	Result	SD	CV	Weight	Modified
5084	13772ppm		0.000	0.00%	100.0	

No.	Range	Area	Weight	Conc	Excl.	Notes	Date/Time	Cal Curve
1	1	5084	100.0	13772.5		*****	03/12/2008 01:21:02	20080311.cal

Peak Profile

