

LABORATORY DATA CONSULTANTS, INC.

7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Anchor Environmental, LLC
1423 3rd Avenue, Suite 300
Seattle, WA 98101-2226
ATTN: Ms. Sue Snyder

October 2, 2006

SUBJECT: Terminal 4 Early Action, Data Validation

Dear Ms. Snyder,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on September 15, 2006. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 15488:

| <u>SDG #</u> | <u>Fraction</u> |
|---------------------------------|--|
| JQ30, JQ33, JQ35, JQ36, JQ52 | Phthalates, Polynuclear Aromatic Hydrocarbons, Lead & Zinc, Wet Chemistry |

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Project Manager/Senior Chemist

**Terminal 4 Early Action
Data Validation Reports
LDC# 15488**

Phthalates

LDC

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Phthalates
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ33

Sample Identification

| | |
|----------------|---------------|
| T4-B414-01-A | T4-S3-01-GDL |
| T4-B414-01-ADL | T4-S3-01-H |
| T4-B414-01-B | T4-S3-01-HDL |
| T4-B414-01-C | T4-S3-01-GMS |
| T4-B414-02-A | T4-S3-01-GMSD |
| T4-B414-02-B | |
| T4-B414-02-C | |
| T4-B414-03-A | |
| T4-B414-03-B | |
| T4-B414-03-C | |
| T4-B414-04-A | |
| T4-B414-04-B | |
| T4-B414-04-C | |
| T4-S3-01-D | |
| T4-S3-01-DDL | |
| T4-S3-01-E | |
| T4-S3-01-EDL | |
| T4-S3-01-F | |
| T4-S3-01-FDL | |
| T4-S3-01-G | |

Introduction

This data review covers 25 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Phthalates.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all target compounds were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05 .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No phthalate contaminants were found in the method blanks with the following exceptions:

| Method Blank ID | Extraction Date | Compound TIC (RT in minutes) | Concentration | Associated Samples |
|-----------------|-----------------|---|----------------------|-------------------------|
| MB-072706 | 7/27/06 | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 25 ug/Kg 21 ug/Kg | All samples in SDG JQ33 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

| Sample | Compound TIC (RT in minutes) | Reported Concentration | Modified Final Concentration |
|-----------------|---|---------------------------|---------------------------------|
| T4-B414-01-B | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 38 ug/Kg 56 ug/Kg | 38U ug/Kg 56U ug/Kg |
| T4-B414-01-C | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 31 ug/Kg 130 ug/Kg | 31U ug/Kg 130U ug/Kg |
| T4-B414-02-A | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 20 ug/Kg 68 ug/Kg | 20U ug/Kg 68U ug/Kg |
| T4-B414-02-B | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 60 ug/Kg 33 ug/Kg | 60U ug/Kg 33U ug/Kg |
| T4-B414-02-C | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 49 ug/Kg 97 ug/Kg | 49U ug/Kg 97U ug/Kg |
| T4-B414-03-A | Bis(2-ethylhexyl)phthalate | 79 ug/Kg | 79U ug/Kg |
| T4-B414-03-B | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 27 ug/Kg 36 ug/Kg | 27U ug/Kg 36U ug/Kg |
| T4-B414-03-C | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 20 ug/Kg 46 ug/Kg | 20U ug/Kg 46U ug/Kg |
| T4-B414-04-A | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 39 ug/Kg 83 ug/Kg | 39U ug/Kg 83U ug/Kg |
| T4-B414-04-B | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 36 ug/Kg 36 ug/Kg | 36U ug/Kg 36U ug/Kg |
| T4-B414-04-C | Bis(2-ethylhexyl)phthalate | 47 ug/Kg | 47U ug/Kg |
| T4-S3-01-E (5X) | Bis(2-ethylhexyl)phthalate | 180 ug/Kg | 180U ug/Kg |
| T4-S3-01-G (5X) | Bis(2-ethylhexyl)phthalate | 370 ug/Kg | 370U ug/Kg |
| T4-S3-01-H (5X) | Bis(2-ethylhexyl)phthalate | 360 ug/Kg | 360U ug/Kg |

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Compound | MS (%R) (Limits) | MSD (%R) (Limits) | RPD (Limits) | Flag | A or P |
|--------------------------------------|---------------------|---------------------|----------------------|--------------------|---|--------|
| T4-B414-03-CMS/MSD (T4-B414-03-C) | Di-n-octylphthalate | - | 29.4 (42-142) | 47.8 (≤ 30) | J (all detects) UJ (all non-detects) | A |

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

| Sample | Internal Standards | Area (Limits) | Compound | Flag | A or P |
|--------------|--|--|---|---|--------|
| T4-B414-01-C | Chrysene-d12 Di-n-octylphthalate-d4 | 858392 (203432-813726) 1275292 (309365-1237460) | Butylbenzylphthalate Bis(2-ethylhexyl)phthalate Di-n-octylphthalate | J (all detects) J (all detects) J (all detects) | A |
| T4-B414-01-A | Chrysene-d12 | 1247695 (284954-1139814) | Butylbenzylphthalate | J (all detects) | A |
| T4-S3-01-D | Chrysene-d12 | 1489837 (284954-1139814) | Butylbenzylphthalate | J (all detects) | A |
| T4-S3-01-E | Chrysene-d12 Di-n-octylphthalate-d4 | 2035591 (284954-1139814) 1815121 (416508-1666030) | Butylbenzylphthalate Bis(2-ethylhexyl)phthalate Di-n-octylphthalate | J (all detects) J (all detects) J (all detects) | A |
| T4-S3-01-F | Chrysene-d12 | 1720845 (284954-1139814) | Butylbenzylphthalate | J (all detects) | A |
| T4-S3-01-G | Chrysene-d12 | 136179 (284954-1139814) | Butylbenzylphthalate | J (all detects) | A |
| T4-S3-01-H | Chrysene-d12 | 1919930 (284954-1139814) | Butylbenzylphthalate | J (all detects) | A |

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags have been summarized at the end of the report if data has been qualified.

XVI. Field Duplicates

Samples T4-B414-02-A and T4-B414-02-A-DUP (from SDG JQ52) were identified as field duplicates. No phthalates were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------------|-------------------|
| | T4-B414-02-A | T4-B414-02-A-DUP | |
| Di-n-butylphthalate | 20 | 59U | 200 (≤ 75) |
| Bis(2-ethylhexyl)phthalate | 68 | 59U | 200 (≤ 75) |

XVII. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Phthalates - Data Qualification Summary - SDG JQ33**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|--|---|---|--------|--|
| JQ33 | T4-S3-01-G | Di-n-octylphthalate | J (all detects) UJ (all non-detects) | A | Matrix spike/Matrix spike duplicates (%R)(RPD) |
| JQ33 | T4-B414-01-C T4-S3-01-E | Butylbenzylphthalate Bis(2-ethylhexyl)phthalate Di-n-octylphthalate | J (all detects) J (all detects) J (all detects) | A | Internal standards (area) |
| JQ33 | T4-B414-01-A T4-S3-01-D T4-S3-01-F T4-S3-01-G T4-S3-01-H | Butylbenzylphthalate | J (all detects) | A | Internal standards (area) |

**Terminal 4 Early Action
Phthalates - Laboratory Blank Data Qualification Summary - SDG JQ33**

| SDG | Sample | Compound TIC (RT in minutes) | Modified Final Concentration | A or P |
|------|--------------|---|---------------------------------|--------|
| JQ33 | T4-B414-01-B | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 38U ug/Kg 56U ug/Kg | A |
| JQ33 | T4-B414-01-C | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 31U ug/Kg 130U ug/Kg | A |
| JQ33 | T4-B414-02-A | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 20U ug/Kg 68U ug/Kg | A |
| JQ33 | T4-B414-02-B | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 60U ug/Kg 33U ug/Kg | A |
| JQ33 | T4-B414-02-C | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 49U ug/Kg 97U ug/Kg | A |
| JQ33 | T4-B414-03-A | Bis(2-ethylhexyl)phthalate | 79U ug/Kg | A |
| JQ33 | T4-B414-03-B | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 27U ug/Kg 36U ug/Kg | A |
| JQ33 | T4-B414-03-C | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 20U ug/Kg 46U ug/Kg | A |
| JQ33 | T4-B414-04-A | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 39U ug/Kg 83U ug/Kg | A |
| JQ33 | T4-B414-04-B | Di-n-butylphthalate Bis(2-ethylhexyl)phthalate | 36U ug/Kg 36U ug/Kg | A |

| SDG | Sample | Compound TIC (RT in minutes) | Modified Final Concentration | A or P |
|------|-----------------|---------------------------------|---------------------------------|--------|
| JQ33 | T4-B414-04-C | Bis(2-ethylhexyl)phthalate | 47U ug/Kg | A |
| JQ33 | T4-S3-01-E (5X) | Bis(2-ethylhexyl)phthalate | 180U ug/Kg | A |
| JQ33 | T4-S3-01-G (5X) | Bis(2-ethylhexyl)phthalate | 370U ug/Kg | A |
| JQ33 | T4-S3-01-H (5X) | Bis(2-ethylhexyl)phthalate | 360U ug/Kg | A |

ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-B414-01-A

SAMPLE

Lab Sample ID: JQ33A

LIMS ID: 06-12923

Matrix: Sediment

Data Release Authorized: *B*

Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/03/06 08:51

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 50.3 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 5.00

Percent Moisture: 44.8%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 100 | < 100 U |
| 84-66-2 | Diethylphthalate | 100 | < 100 U |
| 84-74-2 | Di-n-Butylphthalate | 100 | < 100 U |
| 85-68-7 | Butylbenzylphthalate | 100 | < 100 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 100 | < 100 U |
| 117-84-0 | Di-n-Octyl phthalate | 100 | < 100 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 38.6%

a/28/a

0898



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-B414-01-A
DILUTION

Lab Sample ID: JQ33A

LIMS ID: 06-12923

Matrix: Sediment

Data Release Authorized: *JB*

Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/08/06 22:24

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 50.3 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 20.0

Percent Moisture: 44.8%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 400 | < 400 U |
| 84-66-2 | Diethylphthalate | 400 | < 400 U |
| 84-74-2 | Di-n-Butylphthalate | 400 | < 400 U |
| 85-68-7 | Butylbenzylphthalate | 400 | < 400 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 400 | < 400 U |
| 117-84-0 | Di-n-Octyl phthalate | 400 | < 400 U |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | |
|-----------------|-------|
| d14-p-Terphenyl | 54.4% |
|-----------------|-------|

9/28/06

0909

ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-B414-01-B

SAMPLE

Lab Sample ID: JQ33B

LIMS ID: 06-12924

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/01/06 17:03

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 50.3 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Percent Moisture: 48.2%

pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 38 B <i>u</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 56 B <i>u</i> |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 50.4%

9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-B414-01-C
SAMPLE

Lab Sample ID: JQ33C
LIMS ID: 06-12925
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/01/06 17:34
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 46.4%
pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|-----------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 31 B <i>UJ</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 130 B <i>UJ</i> |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 52.4%

7/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-B414-02-A
SAMPLE

Lab Sample ID: JQ33D
LIMS ID: 06-12926
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/01/06 18:04
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 49.7%
pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 20 B U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 68 B U |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 54.0%

[Handwritten signature]
9/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-B414-02-B
SAMPLE

Lab Sample ID: JQ33E
LIMS ID: 06-12927
Matrix: Sediment
Data Release Authorized: *B*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/01/06 18:35
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 49.4%
pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 60 B <i>U</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 33 B <i>U</i> |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 52.8%

9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-B414-02-C
SAMPLE

Lab Sample ID: JQ33F
LIMS ID: 06-12928
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/01/06 19:06
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 48.2%
pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | 14 J |
| 84-74-2 | Di-n-Butylphthalate | 20 | 49 B U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 97 B U |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 48.0%

[Handwritten signature]
8/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-B414-03-A
SAMPLE

Lab Sample ID: JQ33G
LIMS ID: 06-12929
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/01/06 19:36
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 49.8%
pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | < 20 U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 79 B U |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 58.4%

[Handwritten signature]
9/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-B414-03-B
SAMPLE

Lab Sample ID: JQ33H
LIMS ID: 06-12930
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/01/06 20:07
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 50.4%
pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 27 B <i>U</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 36 B <i>U</i> |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 46.0%

[Signature]
9/21/06

0981

ORGANICS ANALYSIS DATA SHEET
 PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-B414-03-C
 SAMPLE

Lab Sample ID: JQ33I
 LIMS ID: 06-12931
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/20/06
 Date Received: 07/21/06

Date Extracted: 07/27/06
 Date Analyzed: 08/01/06 20:38
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 49.7%
 pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 20 B <i>U</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 46 B <i>U</i> |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 47.6%

9/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-B414-04-A
SAMPLE

Lab Sample ID: JQ33J
 LIMS ID: 06-12932
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/20/06
 Date Received: 07/21/06

Date Extracted: 07/27/06
 Date Analyzed: 08/01/06 21:08
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 52.3%
 pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 39 B <i>U</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 83 B <i>U</i> |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 50.8%

9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-B414-04-B
SAMPLE

Lab Sample ID: JQ33K
LIMS ID: 06-12933
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/01/06 21:39
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 47.1%
pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 36 B U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 36 B U |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 61.2%

[Handwritten signature]
9/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-B414-04-C
SAMPLE

Lab Sample ID: JQ33L
 LIMS ID: 06-12934
 Matrix: Sediment
 Data Release Authorized:
 Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/20/06
 Date Received: 07/21/06

Date Extracted: 07/27/06
 Date Analyzed: 08/01/06 22:10
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 49.3%
 pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | < 20 U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 47 B U |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 54.0%

9/28/02



ORGANICS ANALYSIS DATA SHEET
 PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-S3-01-D
 SAMPLE

Lab Sample ID: JQ33M
 LIMS ID: 06-12935
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/18/06
 Date Received: 07/21/06

Date Extracted: 07/27/06
 Date Analyzed: 08/03/06 09:52
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 50.7 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 5.00
 Percent Moisture: 49.1%
 pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 99 | < 99 U |
| 84-66-2 | Diethylphthalate | 99 | < 99 U |
| 84-74-2 | Di-n-Butylphthalate | 99 | < 99 U |
| 85-68-7 | Butylbenzylphthalate | 99 | < 99 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 99 | < 99 U |
| 117-84-0 | Di-n-Octyl phthalate | 99 | < 99 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

| | |
|-----------------|-------|
| d14-p-Terphenyl | 27.6% |
|-----------------|-------|

[Handwritten signature]
 9/22/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-01-D
DILUTION

Lab Sample ID: JQ33M
LIMS ID: 06-12935
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/08/06 22:55
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 20.0
Percent Moisture: 49.1%
pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 390 | < 390 U |
| 84-66-2 | Diethylphthalate | 390 | < 390 U |
| 84-74-2 | Di-n-Butylphthalate | 390 | < 390 U |
| 85-68-7 | Butylbenzylphthalate | 390 | < 390 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 390 | < 390 U |
| 117-84-0 | Di-n-Octyl phthalate | 390 | < 390 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 37.6%

[Handwritten signature]
9/28/06

ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-S3-01-E

SAMPLE

Lab Sample ID: JQ33N

LIMS ID: 06-12936

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/03/06 10:53

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 5.00

Percent Moisture: 48.8%

pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|-----------|
| 131-11-3 | Dimethylphthalate | 99 | < 99 U |
| 84-66-2 | Diethylphthalate | 99 | < 99 U |
| 84-74-2 | Di-n-Butylphthalate | 99 | < 99 U |
| 85-68-7 | Butylbenzylphthalate | 99 | < 99 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 99 | 180 B U J |
| 117-84-0 | Di-n-Octyl phthalate | 99 | < 99 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 30.0%

[Handwritten signature]
9/28/06



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-S3-01-E

DILUTION

Lab Sample ID: JQ33N

LIMS ID: 06-12936

Matrix: Sediment

Data Release Authorized:

Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/08/06 23:25

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 20.0

Percent Moisture: 48.8%

pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 400 | < 400 U |
| 84-66-2 | Diethylphthalate | 400 | < 400 U |
| 84-74-2 | Di-n-Butylphthalate | 400 | < 400 U |
| 85-68-7 | Butylbenzylphthalate | 400 | < 400 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 400 | < 400 U |
| 117-84-0 | Di-n-Octyl phthalate | 400 | < 400 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 40.8%

Handwritten signature and date: 9/28/06



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-S3-01-F

SAMPLE

Lab Sample ID: JQ330

LIMS ID: 06-12937

Matrix: Sediment

Data Release Authorized:

Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/03/06 11:23

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 16.6 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 5.00

Percent Moisture: 49.8%

pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 300 | < 300 U |
| 84-66-2 | Diethylphthalate | 300 | < 300 U |
| 84-74-2 | Di-n-Butylphthalate | 300 | < 300 U |
| 85-68-7 | Butylbenzylphthalate | 300 | < 300 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 300 | < 300 U |
| 117-84-0 | Di-n-Octyl phthalate | 300 | < 300 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 33.6%

9/28/06



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-01-F
DILUTION

Lab Sample ID: JQ330
LIMS ID: 06-12937
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/08/06 23:56
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 16.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 20.0
Percent Moisture: 49.8%
pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-------|-----------|
| 131-11-3 | Dimethylphthalate | 1,200 | < 1,200 U |
| 84-66-2 | Diethylphthalate | 1,200 | < 1,200 U |
| 84-74-2 | Di-n-Butylphthalate | 1,200 | < 1,200 U |
| 85-68-7 | Butylbenzylphthalate | 1,200 | < 1,200 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1,200 | < 1,200 U |
| 117-84-0 | Di-n-Octyl phthalate | 1,200 | < 1,200 U |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | |
|-----------------|-------|
| d14-p-Terphenyl | 47.2% |
|-----------------|-------|

[Handwritten signature]
9/28/06



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-S3-01-G
SAMPLE

Lab Sample ID: JQ33P

LIMS ID: 06-12938

Matrix: Sediment

Data Release Authorized: *MS*

Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/03/06 11:54

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 19.9 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 5.00

Percent Moisture: 44.6%

pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|-------------------|
| 131-11-3 | Dimethylphthalate | 250 | < 250 U |
| 84-66-2 | Diethylphthalate | 250 | < 250 U |
| 84-74-2 | Di-n-Butylphthalate | 250 | < 250 U |
| 85-68-7 | Butylbenzylphthalate | 250 | < 250 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 250 | 370 B <i>U</i> |
| 117-84-0 | Di-n-Octyl phthalate | 250 | < 250 U <i>UJ</i> |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 34.2%

9/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-S3-01-G
 DILUTION

Lab Sample ID: JQ33P
 LIMS ID: 06-12938
 Matrix: Sediment
 Data Release Authorized:
 Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/18/06
 Date Received: 07/21/06

Date Extracted: 07/27/06
 Date Analyzed: 08/09/06 00:27
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 19.9 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 20.0
 Percent Moisture: 44.6%
 pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-------|-----------|
| 131-11-3 | Dimethylphthalate | 1,000 | < 1,000 U |
| 84-66-2 | Diethylphthalate | 1,000 | < 1,000 U |
| 84-74-2 | Di-n-Butylphthalate | 1,000 | < 1,000 U |
| 85-68-7 | Butylbenzylphthalate | 1,000 | < 1,000 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1,000 | < 1,000 U |
| 117-84-0 | Di-n-Octyl phthalate | 1,000 | < 1,000 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 48.0%

9/28/06



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-S3-01-H

SAMPLE

Lab Sample ID: JQ33Q

LIMS ID: 06-12939

Matrix: Sediment

Data Release Authorized:

Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/03/06 12:24

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 19.1 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 5.00

Percent Moisture: 45.6%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 260 | < 260 U |
| 84-66-2 | Diethylphthalate | 260 | < 260 U |
| 84-74-2 | Di-n-Butylphthalate | 260 | < 260 U |
| 85-68-7 | Butylbenzylphthalate | 260 | < 260 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 260 | 360 B U |
| 117-84-0 | Di-n-Octyl phthalate | 260 | < 260 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 27.6%

19/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-01-H
DILUTION

Lab Sample ID: JQ33Q
LIMS ID: 06-12939
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/09/06 00:57
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 19.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 20.0
Percent Moisture: 45.6%
pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-------|-----------|
| 131-11-3 | Dimethylphthalate | 1,000 | < 1,000 U |
| 84-66-2 | Diethylphthalate | 1,000 | < 1,000 U |
| 84-74-2 | Di-n-Butylphthalate | 1,000 | < 1,000 U |
| 85-68-7 | Butylbenzylphthalate | 1,000 | < 1,000 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1,000 | < 1,000 U |
| 117-84-0 | Di-n-Octyl phthalate | 1,000 | < 1,000 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 41.6%

[Signature]
9/28/06

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C) *phthalates*

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|---|
| I. | Technical holding times | A | Sampling dates: 7/18-20/06 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | NO SPCCS |
| IV. | Continuing calibration <i>REV</i> | A | ↓ |
| V. | Blanks | W | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | W | |
| VIII. | Laboratory control samples | A | LOG |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | W | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | N | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | SW | D = 5 + T4 B4 B414-02-A DUP (JRSZ) |
| XVII. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

all sets

| | | | | | | | |
|----|----------------|----|--------------|----|---------------|----|------------------|
| 1 | T4-B414-01-A | 11 | T4-B414-04-A | 21 | T4-S3-01-GDL | 31 | <i>MB-072706</i> |
| 2 | T4-B414-01-ADL | 12 | T4-B414-04-B | 22 | T4-S3-01-H | 32 | |
| 3 | T4-B414-01-B | 13 | T4-B414-04-C | 23 | T4-S3-01-HDL | 33 | |
| 4 | T4-B414-01-C | 14 | T4-S3-01-D | 24 | T4-S3-01-GMS | 34 | |
| 5 | T4-B414-02-A | 15 | T4-S3-01-DDL | 25 | T4-S3-01-GMSD | 35 | |
| 6 | T4-B414-02-B | 16 | T4-S3-01-E | 26 | | 36 | |
| 7 | T4-B414-02-C | 17 | T4-S3-01-EDL | 27 | | 37 | |
| 8 | T4-B414-03-A | 18 | T4-S3-01-F | 28 | | 38 | |
| 9 | T4-B414-03-B | 19 | T4-S3-01-FDL | 29 | | 39 | |
| 10 | T4-B414-03-C | 20 | T4-S3-01-G | 30 | | 40 | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| | | | | |
|---------------------------------|-------------------------------|----------------------------------|-----------------------------------|----------------------------------|
| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
| B. Bis(2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate ✓ | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate ✓ | TTT. |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. |

Blanks

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- N N/A Was a method blank analyzed for each matrix?
- Y N N/A Was a method blank analyzed for each concentration preparation level?
- Y N N/A Was a method blank associated with every sample?
- Y N N/A Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 7/27/06 Blank analysis date: 8/1/06

Conc. units: ug/kg Associated Samples: W

| Compound | Blank ID | Sample Identification | | | | | | | | | | | | |
|----------------------|----------|-----------------------|-------|------|------|------|------|------|------|----|--|--|--|--|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | | |
| MB-072706 | | | | | | | | | | | | | | |
| XX | 25 | 38/U | 31/U | 20/U | 60/U | 49/U | 27/U | 20/U | 39/U | | | | | |
| ZZZ | 21 | 56/U | 130/U | 68/U | 33/U | 97/U | 79/U | 46/U | 83/U | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Blank extraction date: 7/27/06 Blank analysis date: 8/1/06

Conc. units: ug/kg Associated Samples: W

| Compound | Blank ID | Sample Identification | | | | | | | | | | | | |
|----------------------|----------|-----------------------|------|-------|-------|-------|--|--|--|--|--|--|--|--|
| | | 12 | 13 | 16(5) | 20(5) | 22(5) | | | | | | | | |
| MB-072706 | | | | | | | | | | | | | | |
| XX | 25 | 36/U | | | | | | | | | | | | |
| ZZZ | 21 | 36/U | 47/U | 180/U | 370/U | 360/U | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 15188B29
 SDG #: 1033

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: 9
 2nd reviewer: 9

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

N N/A Were field duplicate pairs identified in this SDG?
 N N/A Were target compounds identified in the field duplicate pairs?

| Compound | Concentration (<u>µg/kg</u>) | | RPD (≤ 75) |
|----------|--------------------------------|-----------------|--------------|
| | 5 | T4-B414-02A-DUP | |
| XX | 20 | 594 | 200 |
| ZZZ | 68 | ↓ | 200 |
| | | | |
| | | | |
| | | | |

| Compound | Concentration () | | RPD |
|----------|-------------------|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Compound | Concentration () | | RPD |
|----------|-------------------|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Compound | Concentration () | | RPD |
|----------|-------------------|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Phthalates
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ35

Sample Identification

- T4-S3-02-C
- T4-S3-02-D
- T4-S3-02-E
- T4-S3-02-F
- T4-S3-03-B
- T4-S3-03-C
- T4-S3-03-D
- T4-S3-05-E
- T4-S3-05-F
- T4-S3-05-G
- T4-S3-05-GDL
- T4-S3-05-H
- T4-S3-05-HDL
- T4-S3-05-J
- T4-S3-06-A
- T4-S3-06-B
- T4-S3-08-B
- T4-S3-08-C
- T4-S3-08-CMS
- T4-S3-08-CMSD

Introduction

This data review covers 20 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Phthalates.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all target compounds were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05 .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No phthalate contaminants were found in the method blanks with the following exceptions:

| Method Blank ID | Extraction Date | Compound TIC (RT in minutes) | Concentration | Associated Samples |
|-----------------|-----------------|------------------------------|---------------|-------------------------|
| MB-073106 | 7/31/06 | Bis(2-ethylhexyl)phthalate | 10 ug/Kg | All samples in SDG JQ35 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

| Sample | Compound TIC (RT in minutes) | Reported Concentration | Modified Final Concentration |
|-----------------|---------------------------------|---------------------------|---------------------------------|
| T4-S3-03-B (3X) | Bis(2-ethylhexyl)phthalate | 140 ug/Kg | 140U ug/Kg |
| T4-S3-02-F (3X) | Bis(2-ethylhexyl)phthalate | 210 ug/Kg | 210U ug/Kg |
| T4-S3-03-C (3X) | Bis(2-ethylhexyl)phthalate | 160 ug/Kg | 160U ug/Kg |
| T4-S3-05-F (3X) | Bis(2-ethylhexyl)phthalate | 120 ug/Kg | 120U ug/Kg |
| T4-S3-05-G (3X) | Bis(2-ethylhexyl)phthalate | 160 ug/Kg | 160U ug/Kg |
| T4-S3-05-H (3X) | Bis(2-ethylhexyl)phthalate | 150 ug/Kg | 150U ug/Kg |
| T4-S3-06-A | Bis(2-ethylhexyl)phthalate | 46 ug/Kg | 46U ug/Kg |
| T4-S3-08-B (3X) | Bis(2-ethylhexyl)phthalate | 200 ug/Kg | 200U ug/Kg |

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags have been summarized at the end of the report if data has been qualified.

XVI. Field Duplicates

Samples T4-S3-02-F and T4-S3-02-F-DUP (from SDG JQ52), samples T4-S3-03-C and T4-S3-03-C-DUP (from SDG JQ52), samples T4-S3-03-C and T4-S3-03-C-DUPDL (from SDG JQ52), and samples T4-S3-08-C and T4-S3-08-C-DUP (from SDG JQ52) were identified as field duplicates. No phthalates were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|------------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Bis(2-ethylhexyl)phthalate | 140 | 210 | 40 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|------------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Bis(2-ethylhexyl)phthalate | 140 | 160 | 13 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|------------------|
| | T4-S3-03-C-DUPDL | T4-S3-03-C | |
| Bis(2-ethylhexyl)phthalate | 140 | 160 | 13 (≤ 75) |

XVII. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Phthalates - Data Qualification Summary - SDG JQ35**

No Sample Data Qualified in this SDG

**Terminal 4 Early Action
Phthalates - Laboratory Blank Data Qualification Summary - SDG JQ35**

| SDG | Sample | Compound TIC (RT in minutes) | Modified Final Concentration | A or P |
|------|-----------------|---------------------------------|---------------------------------|--------|
| JQ35 | T4-S3-03-B (3X) | Bis(2-ethylhexyl)phthalate | 140U ug/Kg | A |
| JQ35 | T4-S3-02-F (3X) | Bis(2-ethylhexyl)phthalate | 210U ug/Kg | A |
| JQ35 | T4-S3-03-C (3X) | Bis(2-ethylhexyl)phthalate | 160U ug/Kg | A |
| JQ35 | T4-S3-05-F (3X) | Bis(2-ethylhexyl)phthalate | 120U ug/Kg | A |
| JQ35 | T4-S3-05-G (3X) | Bis(2-ethylhexyl)phthalate | 160U ug/Kg | A |
| JQ35 | T4-S3-05-H (3X) | Bis(2-ethylhexyl)phthalate | 150U ug/Kg | A |
| JQ35 | T4-S3-06-A | Bis(2-ethylhexyl)phthalate | 46U ug/Kg | A |
| JQ35 | T4-S3-08-B (3X) | Bis(2-ethylhexyl)phthalate | 200U ug/Kg | A |



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-S3-02-C
SAMPLE

Lab Sample ID: JQ35A

LIMS ID: 06-12956

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/31/06

Date Analyzed: 08/07/06 14:35

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 50.3 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 3.00

Percent Moisture: 46.8%

pH: 6.7

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 60 | < 60 U |
| 84-66-2 | Diethylphthalate | 60 | < 60 U |
| 84-74-2 | Di-n-Butylphthalate | 60 | < 60 U |
| 85-68-7 | Butylbenzylphthalate | 60 | < 60 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 60 | < 60 U |
| 117-84-0 | Di-n-Octyl phthalate | 60 | < 60 U |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | |
|-----------------|-------|
| d14-p-Terphenyl | 31.9% |
|-----------------|-------|

[Handwritten signature]
9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-02-D
SAMPLE

Lab Sample ID: JQ35B
LIMS ID: 06-12957
Matrix: Sediment
Data Release Authorized: *MS*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 15:05
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 24.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 42.0%
pH: 6.3

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 120 | < 120 U |
| 84-66-2 | Diethylphthalate | 120 | < 120 U |
| 84-74-2 | Di-n-Butylphthalate | 120 | < 120 U |
| 85-68-7 | Butylbenzylphthalate | 120 | < 120 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 120 | < 120 U |
| 117-84-0 | Di-n-Octyl phthalate | 120 | < 120 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 38.8%

9/7/06



ORGANICS ANALYSIS DATA SHEET
 PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-S3-02-E
 SAMPLE

Lab Sample ID: JQ35C
 LIMS ID: 06-12958
 Matrix: Sediment
 Data Release Authorized: *AB*
 Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/18/06
 Date Received: 07/21/06

Date Extracted: 07/31/06
 Date Analyzed: 08/07/06 15:36
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 27.4 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 39.1%
 pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 110 | < 110 U |
| 84-66-2 | Diethylphthalate | 110 | < 110 U |
| 84-74-2 | Di-n-Butylphthalate | 110 | < 110 U |
| 85-68-7 | Butylbenzylphthalate | 110 | < 110 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 110 | < 110 U |
| 117-84-0 | Di-n-Octyl phthalate | 110 | < 110 U |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

| | |
|-----------------|-------|
| d14-p-Terphenyl | 30.5% |
|-----------------|-------|

9/26/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-02-F
SAMPLE

Lab Sample ID: JQ35D
LIMS ID: 06-12959
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 16:06
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 20.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 44.9%
pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|----------------|
| 131-11-3 | Dimethylphthalate | 150 | < 150 U |
| 84-66-2 | Diethylphthalate | 150 | < 150 U |
| 84-74-2 | Di-n-Butylphthalate | 150 | < 150 U |
| 85-68-7 | Butylbenzylphthalate | 150 | < 150 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 150 | 210 B <i>u</i> |
| 117-84-0 | Di-n-Octyl phthalate | 150 | < 150 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 45.8%

u
9/78/06

ORGANICS ANALYSIS DATA SHEET
 PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-S3-03-B
 SAMPLE

Lab Sample ID: JQ35E
 LIMS ID: 06-12960
 Matrix: Sediment
 Data Release Authorized: *[Signature]*
 Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/19/06
 Date Received: 07/21/06

Date Extracted: 07/31/06
 Date Analyzed: 08/07/06 16:37
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 27.7 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 44.2%
 pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|----------------|
| 131-11-3 | Dimethylphthalate | 110 | < 110 U |
| 84-66-2 | Diethylphthalate | 110 | < 110 U |
| 84-74-2 | Di-n-Butylphthalate | 110 | < 110 U |
| 85-68-7 | Butylbenzylphthalate | 110 | < 110 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 110 | 140 B <i>u</i> |
| 117-84-0 | Di-n-Octyl phthalate | 110 | < 110 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 44.2%

[Handwritten Signature]
 9/78/06
 0050



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-03-C
SAMPLE

Lab Sample ID: JQ35F
LIMS ID: 06-12961
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 17:07
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 40.6%
pH: 6.6

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|----------------|
| 131-11-3 | Dimethylphthalate | 59 | < 59 U |
| 84-66-2 | Diethylphthalate | 59 | < 59 U |
| 84-74-2 | Di-n-Butylphthalate | 59 | < 59 U |
| 85-68-7 | Butylbenzylphthalate | 59 | < 59 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 59 | 160 B <i>U</i> |
| 117-84-0 | Di-n-Octyl phthalate | 59 | < 59 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 44.6%

0051

8/9/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-03-D
SAMPLE

Lab Sample ID: JQ35G
LIMS ID: 06-12962
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 17:38
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 32.8%
pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 59 | < 59 U |
| 84-66-2 | Diethylphthalate | 59 | < 59 U |
| 84-74-2 | Di-n-Butylphthalate | 59 | < 59 U |
| 85-68-7 | Butylbenzylphthalate | 59 | < 59 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 59 | < 59 U |
| 117-84-0 | Di-n-Octyl phthalate | 59 | < 59 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 55.7%

L
9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-05-E
SAMPLE

Lab Sample ID: JQ35H
LIMS ID: 06-12963
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 18:08
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 47.7%
pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 60 | < 60 U |
| 84-66-2 | Diethylphthalate | 60 | < 60 U |
| 84-74-2 | Di-n-Butylphthalate | 60 | < 60 U |
| 85-68-7 | Butylbenzylphthalate | 60 | < 60 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 60 | < 60 U |
| 117-84-0 | Di-n-Octyl phthalate | 60 | < 60 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 38.9%

9/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-05-F
SAMPLE

Lab Sample ID: JQ35I
LIMS ID: 06-12964
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 18:39
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 28.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 43.7%
pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|----------------|
| 131-11-3 | Dimethylphthalate | 110 | < 110 U |
| 84-66-2 | Diethylphthalate | 110 | < 110 U |
| 84-74-2 | Di-n-Butylphthalate | 110 | < 110 U |
| 85-68-7 | Butylbenzylphthalate | 110 | < 110 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 110 | 120 B <i>W</i> |
| 117-84-0 | Di-n-Octyl phthalate | 110 | < 110 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 31.7%

8/11/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-05-G
SAMPLE

Lab Sample ID: JQ35J
LIMS ID: 06-12965
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 19:09
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 24.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 42.9%
pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 120 | < 120 U |
| 84-66-2 | Diethylphthalate | 120 | < 120 U |
| 84-74-2 | Di-n-Butylphthalate | 120 | < 120 U |
| 85-68-7 | Butylbenzylphthalate | 120 | < 120 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 120 | 160 B U |
| 117-84-0 | Di-n-Octyl phthalate | 120 | < 120 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 38.6%

[Handwritten signature]
9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-05-G
DILUTION

Lab Sample ID: JQ35J
LIMS ID: 06-12965
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/09/06 13:57
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 24.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 20.0
Percent Moisture: 42.9%
pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 820 | < 820 U |
| 84-66-2 | Diethylphthalate | 820 | < 820 U |
| 84-74-2 | Di-n-Butylphthalate | 820 | < 820 U |
| 85-68-7 | Butylbenzylphthalate | 820 | < 820 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 820 | < 820 U |
| 117-84-0 | Di-n-Octyl phthalate | 820 | < 820 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 68.8%

9/28/02



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-05-H
SAMPLE

Lab Sample ID: JQ35K
LIMS ID: 06-12966
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 19:40
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 27.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 42.5%
pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|----------------|
| 131-11-3 | Dimethylphthalate | 110 | < 110 U |
| 84-66-2 | Diethylphthalate | 110 | < 110 U |
| 84-74-2 | Di-n-Butylphthalate | 110 | < 110 U |
| 85-68-7 | Butylbenzylphthalate | 110 | < 110 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 110 | 150 B <i>u</i> |
| 117-84-0 | Di-n-Octyl phthalate | 110 | < 110 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 31.0%

2/9/2006

ORGANICS ANALYSIS DATA SHEET
 PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-S3-05-H
 DILUTION

Lab Sample ID: JQ35K
 LIMS ID: 06-12966
 Matrix: Sediment
 Data Release Authorized: *B*
 Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/19/06
 Date Received: 07/21/06

Date Extracted: 07/31/06
 Date Analyzed: 08/09/06 14:27
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 27.4 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 20.0
 Percent Moisture: 42.5%
 pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 730 | < 730 U |
| 84-66-2 | Diethylphthalate | 730 | < 730 U |
| 84-74-2 | Di-n-Butylphthalate | 730 | < 730 U |
| 85-68-7 | Butylbenzylphthalate | 730 | < 730 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 730 | < 730 U |
| 117-84-0 | Di-n-Octyl phthalate | 730 | < 730 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 55.2%

9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-05-J
SAMPLE

Lab Sample ID: JQ35L
LIMS ID: 06-12967
Matrix: Sediment
Data Release Authorized: *RB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 20:11
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 20.2%
pH: 6.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | < 20 U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | < 20 U |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 63.6%

8/9/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-06-A
SAMPLE

Lab Sample ID: JQ35M
LIMS ID: 06-12968
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 20:42
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 48.0%
pH: 7.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | < 20 U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 46 B <i>u</i> |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 53.2%

[Handwritten signature]
9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-06-B
SAMPLE

Lab Sample ID: JQ35N
LIMS ID: 06-12969
Matrix: Sediment
Data Release Authorized: *MB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 21:12
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 51.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 23.2%
pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | < 20 U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | < 20 U |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 61.2%

9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-08-B
SAMPLE

Lab Sample ID: JQ350
LIMS ID: 06-12970
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 21:43
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 29.9%
pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|----------------|
| 131-11-3 | Dimethylphthalate | 59 | < 59 U |
| 84-66-2 | Diethylphthalate | 59 | < 59 U |
| 84-74-2 | Di-n-Butylphthalate | 59 | < 59 U |
| 85-68-7 | Butylbenzylphthalate | 59 | < 59 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 59 | 200 B <i>U</i> |
| 117-84-0 | Di-n-Octyl phthalate | 59 | < 59 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 39.8%

9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-08-C
SAMPLE

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/08/06 19:50
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 51.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 16.7%
pH: 6.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 58 | < 58 U |
| 84-66-2 | Diethylphthalate | 58 | < 58 U |
| 84-74-2 | Di-n-Butylphthalate | 58 | < 58 U |
| 85-68-7 | Butylbenzylphthalate | 58 | < 58 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 58 | < 58 U |
| 117-84-0 | Di-n-Octyl phthalate | 58 | < 58 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

| | |
|-----------------|-------|
| d14-p-Terphenyl | 59.3% |
|-----------------|-------|

[Handwritten signature]
9/28/06

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C) *phthalates*

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|--|
| I. | Technical holding times | A | Sampling dates: 7/18 - 20/06 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | NO SPEC |
| IV. | Continuing calibration <i>nev</i> | A | ✓ |
| V. | Blanks | TW | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | A | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | N | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | SW | D=4+4-DUP. 6+6-DUP. 6+6-DUPDL. 18+18-DUP (NR52)* |
| XVII. | Field blanks | N | |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 *ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

Used

| | | | | | | | |
|----|------------|----|---------------|----|------------------|----|--|
| 1 | T4-S3-02-C | 11 | T4-S3-05-GDL | 21 | <i>MB-073106</i> | 31 | |
| 2 | T4-S3-02-D | 12 | T4-S3-05-H | 22 | | 32 | |
| 3 | T4-S3-02-E | 13 | T4-S3-05-HDL | 23 | | 33 | |
| 4 | T4-S3-02-F | 14 | T4-S3-05-J | 24 | | 34 | |
| 5 | T4-S3-03-B | 15 | T4-S3-06-A | 25 | | 35 | |
| 6 | T4-S3-03-C | 16 | T4-S3-06-B | 26 | | 36 | |
| 7 | T4-S3-03-D | 17 | T4-S3-08-B | 27 | | 37 | |
| 8 | T4-S3-05-E | 18 | T4-S3-08-C | 28 | | 38 | |
| 9 | T4-S3-05-F | 19 | T4-S3-08-CMS | 29 | | 39 | |
| 10 | T4-S3-05-G | 20 | T4-S3-08-CMSD | 30 | | 40 | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| | | | | |
|---------------------------------|-------------------------------|----------------------------------|---------------------------------|----------------------------------|
| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
| B. Bis(2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. |

LDC #: 15188E2A
 SDG #: JR35

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: [Signature]
 2nd reviewer: [Signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds identified in the field duplicate pairs?

| Compound | Concentration (<u>ug/kg</u>) | | RPD (<u>≤ 75</u>) |
|------------|--------------------------------|------------|---------------------|
| | T4-S3-02-F-DUP | 4 | |
| <u>222</u> | <u>140</u> | <u>210</u> | <u>40</u> |
| | | | |
| | | | |
| | | | |

| Compound | Concentration (<u>ug/kg</u>) | | RPD (<u>≤ 75</u>) |
|------------|--------------------------------|------------|---------------------|
| | T4-S3-03-C-DUP | 6 | |
| <u>222</u> | <u>140</u> | <u>160</u> | <u>13</u> |
| | | | |
| | | | |
| | | | |

| Compound | Concentration (<u>ug/kg</u>) | | RPD (<u>≤ 75</u>) |
|------------|--------------------------------|------------|---------------------|
| | T4-S3-03-C-DUP | 6 | |
| <u>222</u> | <u>140</u> | <u>160</u> | <u>13</u> |
| | | | |
| | | | |
| | | | |

| Compound | Concentration () | | RPD |
|----------|-------------------|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Phthalates
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ36

Sample Identification

T4-S3-07-B
T4-S3-07-C
T4-S3-07-D
T4-S3-07-E
T4-S3-04-A
T4-S3-04-B
T4-S3-04-C
T4-S3-04-D
T4-WB-01
T4-WB-02
T4-WB-03
T4-WB-04
T4-S3-07-EMS
T4-S3-07-EMSD

Introduction

This data review covers 14 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Phthalates.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all target compounds were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05 .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No phthalate contaminants were found in the method blanks with the following exceptions:

| Method Blank ID | Extraction Date | Compound TIC (RT in minutes) | Concentration | Associated Samples |
|-----------------|-----------------|------------------------------|---------------|-------------------------|
| MB-080306 | 8/03/06 | Di-n-butylphthalate | 35 ug/Kg | All samples in SDG JQ36 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

| Sample | Compound TIC (RT in minutes) | Reported Concentration | Modified Final Concentration |
|------------|---------------------------------|---------------------------|---------------------------------|
| T4-S3-07-B | Di-n-butylphthalate | 35 ug/Kg | 35U ug/Kg |
| T4-S3-07-C | Di-n-butylphthalate | 32 ug/Kg | 32U ug/Kg |
| T4-S3-07-D | Di-n-butylphthalate | 22 ug/Kg | 22U ug/Kg |
| T4-S3-07-E | Di-n-butylphthalate | 36 ug/Kg | 36U ug/Kg |
| T4-S3-04-B | Di-n-butylphthalate | 30 ug/Kg | 30U ug/Kg |
| T4-S3-04-C | Di-n-butylphthalate | 38 ug/Kg | 38U ug/Kg |
| T4-S3-04-D | Di-n-butylphthalate | 26 ug/Kg | 26U ug/Kg |
| T4-WB-01 | Di-n-butylphthalate | 22 ug/Kg | 22U ug/Kg |
| T4-WB-02 | Di-n-butylphthalate | 29 ug/Kg | 29U ug/Kg |
| T4-WB-03 | Di-n-butylphthalate | 24 ug/Kg | 24U ug/Kg |
| T4-WB-04 | Di-n-butylphthalate | 30 ug/Kg | 30U ug/Kg |

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags have been summarized at the end of the report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Phthalates - Data Qualification Summary - SDG JQ36**

No Sample Data Qualified in this SDG

**Terminal 4 Early Action
Phthalates - Laboratory Blank Data Qualification Summary - SDG JQ36**

| SDG | Sample | Compound TIC (RT in minutes) | Modified Final Concentration | A or P |
|------|------------|---------------------------------|---------------------------------|--------|
| JQ36 | T4-S3-07-B | Di-n-butylphthalate | 35U ug/Kg | A |
| JQ36 | T4-S3-07-C | Di-n-butylphthalate | 32U ug/Kg | A |
| JQ36 | T4-S3-07-D | Di-n-butylphthalate | 22U ug/Kg | A |
| JQ36 | T4-S3-07-E | Di-n-butylphthalate | 36U ug/Kg | A |
| JQ36 | T4-S3-04-B | Di-n-butylphthalate | 30U ug/Kg | A |
| JQ36 | T4-S3-04-C | Di-n-butylphthalate | 38U ug/Kg | A |
| JQ36 | T4-S3-04-D | Di-n-butylphthalate | 26U ug/Kg | A |
| JQ36 | T4-WB-01 | Di-n-butylphthalate | 22U ug/Kg | A |
| JQ36 | T4-WB-02 | Di-n-butylphthalate | 29U ug/Kg | A |
| JQ36 | T4-WB-03 | Di-n-butylphthalate | 24U ug/Kg | A |
| JQ36 | T4-WB-04 | Di-n-butylphthalate | 30U ug/Kg | A |



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-07-B
SAMPLE

Lab Sample ID: JQ36A
LIMS ID: 06-12972
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 13:58
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 46.7%
pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 35 B U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 40 |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 68.4%

9/28/06

0040

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-07-C
SAMPLE

Lab Sample ID: JQ36B
LIMS ID: 06-12973
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 14:31
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 45.2%
pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 32 B U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 24 |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 51.2%

9/28/06

0041



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS

Page 1 of 1

Sample ID: T4-S3-07-D
SAMPLE

Lab Sample ID: JQ36C

LIMS ID: 06-12974

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Date Analyzed: 08/12/06 15:04

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 50.7 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Percent Moisture: 34.0%

pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 22 B <i>u</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 60 |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 64.0%

[Signature]
9/28/06

0042



ORGANICS ANALYSIS DATA SHEET
 PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-S3-07-E
 SAMPLE

Lab Sample ID: JQ36D
 LIMS ID: 06-12975
 Matrix: Sediment
 Data Release Authorized:
 Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/20/06
 Date Received: 07/21/06

Date Extracted: 08/03/06
 Date Analyzed: 08/11/06 15:41
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 17.6%
 pH: 6.7

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 36 B U |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | < 20 U |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 78.0%

9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-04-A
SAMPLE

Lab Sample ID: JQ36E
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 17:20
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 34.9%
pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 131-11-3 | Dimethylphthalate | 110 | < 110 U |
| 84-66-2 | Diethylphthalate | 110 | < 110 U |
| 84-74-2 | Di-n-Butylphthalate | 110 | < 110 U |
| 85-68-7 | Butylbenzylphthalate | 110 | < 110 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 110 | < 110 U |
| 117-84-0 | Di-n-Octyl phthalate | 110 | < 110 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

| | |
|-----------------|-------|
| d14-p-Terphenyl | 85.8% |
|-----------------|-------|

[Handwritten Signature]
9/28/06

0044



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-04-B
SAMPLE

Lab Sample ID: JQ36F
LIMS ID: 06-12977
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 15:38
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 22.6%
pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 30 B <i>u</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 16 J |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 74.4%

[Handwritten Signature]

0045



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-04-C
SAMPLE

Lab Sample ID: JQ36G
LIMS ID: 06-12978
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 16:11
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 35.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 29.3%
pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 28 | < 28 U |
| 84-66-2 | Diethylphthalate | 28 | < 28 U |
| 84-74-2 | Di-n-Butylphthalate | 28 | 38 B <i>u</i> |
| 85-68-7 | Butylbenzylphthalate | 28 | < 28 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 28 | 34 |
| 117-84-0 | Di-n-Octyl phthalate | 28 | < 28 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 68.0%

[Signature]
8/28/06

0046

ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-04-D
SAMPLE

Lab Sample ID: JQ36H

LIMS ID: 06-12979

Matrix: Sediment

Data Release Authorized: *AB*

Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Date Analyzed: 08/11/06 18:59

Instrument/Analyst: NT6/LJR

GPC Cleanup: Yes

Sample Amount: 51.1 g-dry-wt

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Percent Moisture: 21.3%

pH: 6.3

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 26 B <i>u</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | < 20 U |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 69.2%

10/28/06

0047



ORGANICS ANALYSIS DATA SHEET
 PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-WB-01
 SAMPLE

Lab Sample ID: JQ36I
 LIMS ID: 06-12980
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/20/06
 Date Received: 07/21/06

Date Extracted: 08/03/06
 Date Analyzed: 08/11/06 19:32
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 50.3 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00
 Percent Moisture: 56.7%
 pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 22 B <i>W</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 65 |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 40.8%

8/28/06

0048



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-WB-02
SAMPLE

Lab Sample ID: JQ36J
LIMS ID: 06-12981
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/11/06 20:06
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 40.8%
pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 29 B <i>u</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 60 |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 59.2%

9/28/02

0049



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-WB-03
SAMPLE

Lab Sample ID: JQ36K
LIMS ID: 06-12982
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 12:52
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 55.1%
pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 24 B <i>u</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 90 |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

| | |
|-----------------|-------|
| d14-p-Terphenyl | 49.2% |
|-----------------|-------|

9/28/06
0050



ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-WB-04
SAMPLE

Lab Sample ID: JQ36L
LIMS ID: 06-12983
Matrix: Sediment
Data Release Authorized: *BS*
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/12/06 13:25
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 53.4%
pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------------|
| 131-11-3 | Dimethylphthalate | 20 | < 20 U |
| 84-66-2 | Diethylphthalate | 20 | < 20 U |
| 84-74-2 | Di-n-Butylphthalate | 20 | 30 B <i>W</i> |
| 85-68-7 | Butylbenzylphthalate | 20 | < 20 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 20 | 79 |
| 117-84-0 | Di-n-Octyl phthalate | 20 | < 20 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 54.4%

9/28/06

0051

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C) *phthalates*

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----------------|-------------------------|
| I. | Technical holding times | A | Sampling dates: 7/20/06 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | NO SPCC |
| IV. | Continuing calibration <i>rev</i> | A | ✓ |
| V. | Blanks | TW | |
| VI. | Surrogate spikes | SWA | |
| VII. | Matrix spike/Matrix spike duplicates | A | |
| VIII. | Laboratory control samples | A | LOG |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | N | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | N | |
| XVII. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:
M sed

| | | | | | | | |
|----|------------|----|---------------|----|------------------|----|--|
| 1 | T4-S3-07-B | 11 | T4-WB-03 | 21 | <i>MB-080306</i> | 31 | |
| 2 | T4-S3-07-C | 12 | T4-WB-04 | 22 | | 32 | |
| 3 | T4-S3-07-D | 13 | T4-S3-07-EMS | 23 | | 33 | |
| 4 | T4-S3-07-E | 14 | T4-S3-07-EMSD | 24 | | 34 | |
| 5 | T4-S3-04-A | 15 | | 25 | | 35 | |
| 6 | T4-S3-04-B | 16 | | 26 | | 36 | |
| 7 | T4-S3-04-C | 17 | | 27 | | 37 | |
| 8 | T4-S3-04-D | 18 | | 28 | | 38 | |
| 9 | T4-WB-01 | 19 | | 29 | | 39 | |
| 10 | T4-WB-02 | 20 | | 30 | | 40 | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| | | | | |
|---------------------------------|-------------------------------|----------------------------------|---------------------------------|----------------------------------|
| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
| B. Bis (2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | GGG. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 19, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Phthalates
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ52

Sample Identification

T4-S3-02-F-DUP
T4-S3-03-C-DUP
T4-S3-03-C-DUPDL
T4-B414-02-A-DUP
T4-S3-08-C-DUP

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Phthalates.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all target compounds were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were greater than or equal to 0.05 .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No phthalate contaminants were found in the method blanks with the following exceptions:

| Method Blank ID | Extraction Date | Compound TIC (RT in minutes) | Concentration | Associated Samples |
|-----------------|-----------------|------------------------------|---------------|-------------------------|
| MB-073106 | 7/31/06 | Bis(2-ethylhexyl)phthalate | 10 ug/Kg | All samples in SDG JQ52 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

| Sample | Compound TIC (RT in minutes) | Reported Concentration | Modified Final Concentration |
|-----------------------|---------------------------------|---------------------------|---------------------------------|
| T4-S3-02-F-DUP (3X) | Bis(2-ethylhexyl)phthalate | 140 ug/Kg | 140U ug/Kg |
| T4-S3-03-C-DUP (3X) | Bis(2-ethylhexyl)phthalate | 140 ug/Kg | 140U ug/Kg |
| T4-S3-03-C-DUPDL (5X) | Bis(2-ethylhexyl)phthalate | 140 ug/Kg | 140U ug/Kg |

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

| Sample | Internal Standards | Area (Limits) | Compound | Flag | A or P |
|----------------|--------------------|--------------------------|----------------------|-----------------|--------|
| T4-S3-03-C-DUP | Chrysene-d12 | 1780984 (406919-1627676) | Butylbenzylphthalate | J (all detects) | A |

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags have been summarized at the end of the report if data has been qualified.

XVI. Field Duplicates

Samples T4-S3-02-F-DUP and T4-S3-02-F (from SDG JQ35), samples T4-S3-03-C-DUP and T4-S3-03-C (from SDG JQ35), samples T4-S3-03-C-DUPDL and T4-S3-03-C (from SDG JQ35), samples T4-S3-08-C-DUP and T4-S3-08-C (from SDG JQ35), and samples T4-B414-02-A-DUP and T4-B414-02-A-DUP (from SDG JQ33) were identified as field duplicates. No phthalates were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|------------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Bis(2-ethylhexyl)phthalate | 140 | 210 | 40 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|------------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Bis(2-ethylhexyl)phthalate | 140 | 160 | 13 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|------------------|
| | T4-S3-03-C-DUPDL | T4-S3-03-C | |
| Bis(2-ethylhexyl)phthalate | 140 | 160 | 13 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------------|-------------------|
| | T4-B414-02-A | T4-B414-02-A-DUP | |
| Di-n-butylphthalate | 20 | 59U | 200 (≤ 75) |
| Bis(2-ethylhexyl)phthalate | 68 | 59U | 200 (≤ 75) |

XVII. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Phthalates - Data Qualification Summary - SDG JQ52**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|----------------|----------------------|-----------------|--------|---------------------------|
| JQ52 | T4-S3-03-C-DUP | Butylbenzylphthalate | J (all detects) | A | Internal standards (area) |

**Terminal 4 Early Action
Phthalates - Laboratory Blank Data Qualification Summary - SDG JQ52**

| SDG | Sample | Compound TIC (RT in minutes) | Modified Final Concentration | A or P |
|------|-----------------------|---------------------------------|---------------------------------|--------|
| JQ52 | T4-S3-02-F-DUP (3X) | Bis(2-ethylhexyl)phthalate | 140U ug/Kg | A |
| JQ52 | T4-S3-03-C-DUP (3X) | Bis(2-ethylhexyl)phthalate | 140U ug/Kg | A |
| JQ52 | T4-S3-03-C-DUPDL (5X) | Bis(2-ethylhexyl)phthalate | 140U ug/Kg | A |

ORGANICS ANALYSIS DATA SHEET
 PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-S3-02-F-DUP
 SAMPLE

Lab Sample ID: JQ52A
 LIMS ID: 06-13102
 Matrix: Sediment
 Data Release Authorized: *MB*
 Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/18/06
 Date Received: 07/21/06

Date Extracted: 07/31/06
 Date Analyzed: 08/08/06 21:22
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 45.9%
 pH: 6.6

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|----------------|
| 131-11-3 | Dimethylphthalate | 60 | < 60 U |
| 84-66-2 | Diethylphthalate | 60 | < 60 U |
| 84-74-2 | Di-n-Butylphthalate | 60 | < 60 U |
| 85-68-7 | Butylbenzylphthalate | 60 | < 60 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 60 | 140 B <i>u</i> |
| 117-84-0 | Di-n-Octyl phthalate | 60 | < 60 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 35.9%

9/18/06

ORGANICS ANALYSIS DATA SHEET
 PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-S3-03-C-DUP
 SAMPLE

Lab Sample ID: JQ52B
 LIMS ID: 06-13103
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/19/06
 Date Received: 07/21/06

Date Extracted: 07/31/06
 Date Analyzed: 08/08/06 21:53
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 3.00
 Percent Moisture: 41.8%
 pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|----------------|
| 131-11-3 | Dimethylphthalate | 60 | < 60 U |
| 84-66-2 | Diethylphthalate | 60 | < 60 U |
| 84-74-2 | Di-n-Butylphthalate | 60 | < 60 U |
| 85-68-7 | Butylbenzylphthalate | 60 | < 60 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 60 | 140 B <i>u</i> |
| 117-84-0 | Di-n-Octyl phthalate | 60 | < 60 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 29.4%

9/28/06

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
 Page 1 of 1

Sample ID: T4-S3-03-C-DUP
 DILUTION

Lab Sample ID: JQ52B
 LIMS ID: 06-13103
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
 Project: T4 EARLY ACTION
 050332-01
 Date Sampled: 07/19/06
 Date Received: 07/21/06

Date Extracted: 07/31/06
 Date Analyzed: 08/09/06 13:26
 Instrument/Analyst: NT6/LJR
 GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
 Final Extract Volume: 1.0 mL
 Dilution Factor: 5.00
 Percent Moisture: 41.8%
 pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|----------------|
| 131-11-3 | Dimethylphthalate | 99 | < 99 U |
| 84-66-2 | Diethylphthalate | 99 | < 99 U |
| 84-74-2 | Di-n-Butylphthalate | 99 | < 99 U |
| 85-68-7 | Butylbenzylphthalate | 99 | < 99 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 99 | 140 B <i>u</i> |
| 117-84-0 | Di-n-Octyl phthalate | 99 | < 99 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 41.0%

9/28/06



ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-B414-02-A-DUP
SAMPLE

Lab Sample ID: JQ52C
LIMS ID: 06-13104
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/09/06 12:25
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 50.1%
pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 59 | < 59 U |
| 84-66-2 | Diethylphthalate | 59 | < 59 U |
| 84-74-2 | Di-n-Butylphthalate | 59 | < 59 U |
| 85-68-7 | Butylbenzylphthalate | 59 | < 59 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 59 | < 59 U |
| 117-84-0 | Di-n-Octyl phthalate | 59 | < 59 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl 41.6%

[Handwritten signature]
9/28/06

ORGANICS ANALYSIS DATA SHEET

PSDDA Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: T4-S3-08-C-DUP
SAMPLE

Lab Sample ID: JQ52D
LIMS ID: 06-13114
Matrix: Sediment
Data Release Authorized: *BB*
Reported: 08/11/06

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/09/06 12:55
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 15.3%
pH: 5.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 131-11-3 | Dimethylphthalate | 59 | < 59 U |
| 84-66-2 | Diethylphthalate | 59 | < 59 U |
| 84-74-2 | Di-n-Butylphthalate | 59 | < 59 U |
| 85-68-7 | Butylbenzylphthalate | 59 | < 59 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 59 | < 59 U |
| 117-84-0 | Di-n-Octyl phthalate | 59 | < 59 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Semivolatile Surrogate Recovery

di4-p-Terphenyl 63.7%

u
9/28/06

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C) *phthalates*

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|---|------------------------------|
| I. | Technical holding times | A | Sampling dates: 7/18 - 19/06 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | NO SPCC |
| IV. | Continuing calibration <i>ICV</i> | A | ↓ |
| V. | Blanks | W | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | A | T4-S3-08-C (NQ35) |
| VIII. | Laboratory control samples | A | ICS |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | W | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | N | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | W | FB see WS |
| XVII. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

MSDS

| | | | | | | | |
|----|------------------|----|------------------|----|--|----|--|
| 1 | T4-S3-02-F-DUP | 11 | <i>MB-073106</i> | 21 | | 31 | |
| 2 | T4-S3-03-C-DUP | 12 | | 22 | | 32 | |
| 3 | T4-S3-03-C-DUPDL | 13 | | 23 | | 33 | |
| 4 | T4-B414-02-A-DUP | 14 | | 24 | | 34 | |
| 5 | T4-S3-08-C-DUP | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| | | | | |
|--------------------------------|-------------------------------|----------------------------------|---------------------------------|----------------------------------|
| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
| B. Bis (2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. |

LDC #: 15488E29
 SDG #: 1052

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: Q
 2nd reviewer: g

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A
 Y N N/A

Were field duplicate pairs identified in this SDG?
 Were target compounds identified in the field duplicate pairs?

| Compound | Concentration ($\mu\text{g}/\text{kg}$) | | RPD (≤ 75) |
|----------|---|-------------------|-------------------|
| | 1 | TA-S3-02-F (1075) | |
| 22E | 140 | 210 | 40 |
| | | | |
| | | | |
| | | | |

| Compound | Concentration ($\mu\text{g}/\text{kg}$) | | RPD (≤ 75) |
|----------|---|-------------------|-------------------|
| | 2 | TA-S3-03-C (1075) | |
| 22E | 140 | 160 | 13 |
| | | | |
| | | | |
| | | | |

| Compound | Concentration ($\mu\text{g}/\text{kg}$) | | RPD (≤ 75) |
|----------|---|-------------------|-------------------|
| | 3 | TA-S3-03-C (1075) | |
| 22E | 140 | 160 | 13 |
| | | | |
| | | | |
| | | | |

| Compound | Concentration ($\mu\text{g}/\text{kg}$) | | RPD (≤ 75) |
|----------|---|-------------------|-------------------|
| | 5 | TA-S3-08-C (1075) | |
| ND | ND | ND | |
| | | | |
| | | | |
| | | | |

LDC #: 15488E29
 SDG #: JR52

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: [Signature]
 2nd reviewer: [Signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A
Y N N/A

Were field duplicate pairs identified in this SDG?
 Were target compounds identified in the field duplicate pairs?

| Compound | Concentration (<u>ug/L</u>) | | RPD (≤ 75) |
|------------|-------------------------------|----------------------------|--------------|
| | <u>↑</u> | <u>T4-B114-02-A (JR33)</u> | |
| <u>XX</u> | <u>594</u> | <u>20</u> | <u>200</u> |
| <u>ZZZ</u> | <u>↓</u> | <u>68</u> | <u>↓</u> |
| | | | |
| | | | |
| | | | |

| Compound | Concentration () | | RPD |
|----------|-------------------|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Compound | Concentration () | | RPD |
|----------|-------------------|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Compound | Concentration () | | RPD |
|----------|-------------------|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Terminal 4 Early Action
Data Validation Reports
LDC# 15488**

Polynuclear Aromatic Hydrocarbons

LDC

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Polynuclear Aromatic Hydrocarbons
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ33

Sample Identification

| | |
|----------------|-----------------|
| T4-B414-01-A | T4-B414-02-AMS |
| T4-B414-01-ADL | T4-B414-02-AMSD |
| T4-B414-01-B | |
| T4-B414-01-C | |
| T4-B414-02-A | |
| T4-B414-02-B | |
| T4-B414-02-C | |
| T4-B414-03-A | |
| T4-B414-03-B | |
| T4-B414-03-C | |
| T4-B414-04-A | |
| T4-B414-04-B | |
| T4-B414-04-C | |
| T4-S3-01-D | |
| T4-S3-01-DDL | |
| T4-S3-01-E | |
| T4-S3-01-EDL | |
| T4-S3-01-F | |
| T4-S3-01-G | |
| T4-S3-01-H | |

Introduction

This data review covers 22 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per a modification of EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all target compounds were within validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% .

All of the continuing calibration RRF values were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks with the following exceptions:

| Method Blank ID | Extraction Date | Compound TIC (RT in minutes) | Concentration | Associated Samples |
|-----------------|-----------------|---------------------------------|---------------|-------------------------|
| MB-072706 | 7/27/06 | Phenanthrene | 5.5 ug/Kg | All samples in SDG JQ33 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for several samples. Since the samples were diluted out, no data were qualified.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the samples were diluted out, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

| Sample | Compound | Finding | Criteria | Flag | A or P |
|--------------|---|---|---|---|--------|
| T4-B414-01-A | Acenaphthene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene Perylene Benzo(e)pyrene | Sample result exceeded calibration range. | Reported result should be within calibration range. | J (all detects) J (all detects) | A |

| Sample | Compound | Finding | Criteria | Flag | A or P |
|------------|--|---|---|--|--------|
| T4-S3-01-D | Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Benzo(e)pyrene | Sample result exceeded calibration range. | Reported result should be within calibration range. | J (all detects) J (all detects) | A |
| T4-S3-01-E | Acenaphthene Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Perylene Benzo(e)pyrene | Sample result exceeded calibration range. | Reported result should be within calibration range. | J (all detects) J (all detects) | A |

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples T4-B414-02-A and T4-B414-02-A-DUP (from SDG JQ52) were identified as field duplicates. No polynuclear aromatic hydrocarbons were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|---------------------|-----------------------|------------------|-------------------|
| | T4-B414-02-A | T4-B414-02-A-DUP | |
| Naphthalene | 48U | 180 | 200 (≤ 75) |
| 2-Methylnaphthalene | 48U | 89 | 200 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------------|-------------------|
| | T4-B414-02-A | T4-B414-02-A-DUP | |
| Isopropylbenzene | 48U | 50 | 200 (≤ 75) |
| Acenaphthene | 120 | 540 | 127 (≤ 75) |
| Fluorene | 48 | 220 | 128 (≤ 75) |
| Phenanthrene | 420 | 1900 | 128 (≤ 75) |
| Anthracene | 81 | 310 | 117 (≤ 75) |
| Fluoranthene | 980 | 3900 | 120 (≤ 75) |
| Pyrene | 920 | 3000 | 106 (≤ 75) |
| Benzo(a)anthracene | 660 | 1800 | 93 (≤ 75) |
| Chrysene | 840 | 2600 | 102 (≤ 75) |
| Benzo(b)fluoranthene | 1100 | 2800 | 87 (≤ 75) |
| Benzo(k)fluoranthene | 840 | 2200 | 89 (≤ 75) |
| Benzo(a)pyrene | 1000 | 2400 | 82 (≤ 75) |
| Indeno(1,2,3-cd)pyrene | 660 | 1500 | 78 (≤ 75) |
| Dibenz(a,h)anthracene | 240 | 510 | 72 (≤ 75) |
| Benzo(g,h,i)perylene | 770 | 1700 | 75 (≤ 75) |
| Perylene | 300 | 870 | 97 (≤ 75) |
| Biphenyl | 48U | 150 | 200 (≤ 75) |
| 1-Methylphenanthrene | 48U | 110 | 200 (≤ 75) |
| Benzo(e)pyrene | 630 | 1600 | 87 (≤ 75) |
| 2,3,5-Trimethylnaphthalene | 48U | 54 | 200 (≤ 75) |

XVII. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG JQ33**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|--------------|---|---|--------|---------------------------------|
| JQ33 | T4-B414-01-A | Acenaphthene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene Perylene Benzo(e)pyrene | J (all detects) J (all detects) | A | Compound quantitation and CRQLs |
| JQ33 | T4-S3-01-D | Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Benzo(e)pyrene | J (all detects) J (all detects) | A | Compound quantitation and CRQLs |
| JQ33 | T4-S3-01-E | Acenaphthene Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Perylene Benzo(e)pyrene | J (all detects) J (all detects) | A | Compound quantitation and CRQLs |

**Terminal 4 Early Action
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary
- SDG JQ33**

No Sample Data Qualified in this SDG

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-01-A
SAMPLE

Lab Sample ID: JQ33A

LIMS ID: 06-12923

Matrix: Sediment

Data Release Authorized: *AP*

Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/04/06 15:22

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 20.0

Percent Moisture: 44.8%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|-------------|
| 91-20-3 | Naphthalene | 98 | 1,100 |
| 91-57-6 | 2-Methylnaphthalene | 98 | 3,200 |
| 90-12-0 | 1-Methylnaphthalene | 98 | 1,300 |
| 208-96-8 | Acenaphthylene | 98 | < 98 U |
| 83-32-9 | Acenaphthene | 98 | 13,000 E J |
| 86-73-7 | Fluorene | 98 | 9,800 |
| 85-01-8 | Phenanthrene | 98 | 52,000 EB J |
| 120-12-7 | Anthracene | 98 | 13,000 E |
| 206-44-0 | Fluoranthene | 98 | 73,000 E |
| 129-00-0 | Pyrene | 98 | 52,000 E |
| 56-55-3 | Benzo (a) anthracene | 98 | 42,000 E |
| 218-01-9 | Chrysene | 98 | 54,000 E |
| 205-99-2 | Benzo (b) fluoranthene | 98 | 73,000 E |
| 207-08-9 | Benzo (k) fluoranthene | 98 | 35,000 E |
| 50-32-8 | Benzo (a) pyrene | 98 | 54,000 E |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 98 | 28,000 E |
| 53-70-3 | Dibenz (a, h) anthracene | 98 | 11,000 E |
| 191-24-2 | Benzo (g, h, i) perylene | 98 | 27,000 E |
| 198-55-0 | Perylene | 98 | 18,000 E |
| 92-52-4 | Biphenyl | 98 | 770 |
| 581-42-0 | 2,6-Dimethylnaphthalene | 98 | 830 |
| 832-69-9 | 1-Methylphenanthrene | 98 | 2,300 |
| 192-97-2 | Benzo (e) pyrene | 98 | 37,000 E J |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 98 | 210 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 87.3%

d14-Dibenzo (a, h) anthracen 66.7%

9/28/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-01-A

DILUTION

Lab Sample ID: JQ33A

LIMS ID: 06-12923

Matrix: Sediment

Data Release Authorized: *AB*

Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/07/06 12:05

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 400

Percent Moisture: 44.8%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-------|-----------|
| 91-20-3 | Naphthalene | 2,000 | < 2,000 U |
| 91-57-6 | 2-Methylnaphthalene | 2,000 | 2,900 |
| 90-12-0 | 1-Methylnaphthalene | 2,000 | < 2,000 U |
| 208-96-8 | Acenaphthylene | 2,000 | < 2,000 U |
| 83-32-9 | Acenaphthene | 2,000 | 12,000 |
| 86-73-7 | Fluorene | 2,000 | 8,600 |
| 85-01-8 | Phenanthrene | 2,000 | 60,000 B |
| 120-12-7 | Anthracene | 2,000 | 11,000 |
| 206-44-0 | Fluoranthene | 2,000 | 97,000 |
| 129-00-0 | Pyrene | 2,000 | 67,000 |
| 56-55-3 | Benzo (a) anthracene | 2,000 | 46,000 |
| 218-01-9 | Chrysene | 2,000 | 60,000 |
| 205-99-2 | Benzo (b) fluoranthene | 2,000 | 63,000 |
| 207-08-9 | Benzo (k) fluoranthene | 2,000 | 52,000 |
| 50-32-8 | Benzo (a) pyrene | 2,000 | 54,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 2,000 | 35,000 |
| 53-70-3 | Dibenz (a,h) anthracene | 2,000 | 15,000 |
| 191-24-2 | Benzo (g,h,i) perylene | 2,000 | 38,000 |
| 198-55-0 | Perylene | 2,000 | 16,000 |
| 92-52-4 | Biphenyl | 2,000 | < 2,000 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 2,000 | < 2,000 U |
| 832-69-9 | 1-Methylphenanthrene | 2,000 | 2,400 |
| 192-97-2 | Benzo (e) pyrene | 2,000 | 37,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 2,000 | < 2,000 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo (a,h) anthracene D

9/28/06

0184



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-01-B

SAMPLE

Lab Sample ID: JQ33B

QC Report No: JQ33-Anchor Environmental

LIMS ID: 06-12924

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized:

Date Sampled: 07/20/06

Reported: 08/08/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/04/06 15:47

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/YZ

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 48.2%

Silica Gel Cleanup: Yes

pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------|
| 91-20-3 | Naphthalene | 50 | 74 |
| 91-57-6 | 2-Methylnaphthalene | 50 | 89 |
| 90-12-0 | 1-Methylnaphthalene | 50 | 50 |
| 208-96-8 | Acenaphthylene | 50 | < 50 U |
| 83-32-9 | Acenaphthene | 50 | 410 |
| 86-73-7 | Fluorene | 50 | 260 |
| 85-01-8 | Phenanthrene | 50 | 2,000 B |
| 120-12-7 | Anthracene | 50 | 350 |
| 206-44-0 | Fluoranthene | 50 | 3,900 |
| 129-00-0 | Pyrene | 50 | 3,000 |
| 56-55-3 | Benzo (a) anthracene | 50 | 2,100 |
| 218-01-9 | Chrysene | 50 | 2,800 |
| 205-99-2 | Benzo (b) fluoranthene | 50 | 3,000 |
| 207-08-9 | Benzo (k) fluoranthene | 50 | 2,300 |
| 50-32-8 | Benzo (a) pyrene | 50 | 2,600 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 50 | 1,700 |
| 53-70-3 | Dibenz (a,h) anthracene | 50 | 540 |
| 191-24-2 | Benzo (g,h,i) perylene | 50 | 1,900 |
| 198-55-0 | Perylene | 50 | 890 |
| 92-52-4 | Biphenyl | 50 | 150 |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | < 50 U |
| 832-69-9 | 1-Methylphenanthrene | 50 | 110 |
| 192-97-2 | Benzo (e) pyrene | 50 | 1,800 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | 50 |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 58.7%
d14-Dibenzo (a,h) anthracen 61.0%

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-01-C
SAMPLE

Lab Sample ID: JQ33C

LIMS ID: 06-12925

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/04/06 16:12

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 46.4%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 49 | 39 J |
| 91-57-6 | 2-Methylnaphthalene | 49 | 34 J |
| 90-12-0 | 1-Methylnaphthalene | 49 | < 49 U |
| 208-96-8 | Acenaphthylene | 49 | < 49 U |
| 83-32-9 | Acenaphthene | 49 | 130 |
| 86-73-7 | Fluorene | 49 | 100 |
| 85-01-8 | Phenanthrene | 49 | 720 B |
| 120-12-7 | Anthracene | 49 | 130 |
| 206-44-0 | Fluoranthene | 49 | 1,400 |
| 129-00-0 | Pyrene | 49 | 1,200 |
| 56-55-3 | Benzo (a) anthracene | 49 | 720 |
| 218-01-9 | Chrysene | 49 | 1,000 |
| 205-99-2 | Benzo (b) fluoranthene | 49 | 1,100 |
| 207-08-9 | Benzo (k) fluoranthene | 49 | 850 |
| 50-32-8 | Benzo (a) pyrene | 49 | 890 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 49 | 570 |
| 53-70-3 | Dibenz (a,h) anthracene | 49 | 220 |
| 191-24-2 | Benzo (g,h,i) perylene | 49 | 660 |
| 198-55-0 | Perylene | 49 | 510 |
| 92-52-4 | Biphenyl | 49 | 150 |
| 581-42-0 | 2,6-Dimethylnaphthalene | 49 | < 49 U |
| 832-69-9 | 1-Methylphenanthrene | 49 | 64 |
| 192-97-2 | Benzo (e) pyrene | 49 | 640 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 49 | < 49 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 55.0%
d14-Dibenzo (a,h) anthracen 71.7%

[Handwritten Signature]
9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-02-A

SAMPLE

Lab Sample ID: JQ33D

QC Report No: JQ33-Anchor Environmental

LIMS ID: 06-12926

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized:

Date Sampled: 07/19/06

Reported: 08/08/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/04/06 16:37

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/YZ

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 49.7%

Silica Gel Cleanup: Yes

pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------|
| 91-20-3 | Naphthalene | 50 | 180 |
| 91-57-6 | 2-Methylnaphthalene | 50 | 89 |
| 90-12-0 | 1-Methylnaphthalene | 50 | 50 |
| 208-96-8 | Acenaphthylene | 50 | < 50 U |
| 83-32-9 | Acenaphthene | 50 | 540 |
| 86-73-7 | Fluorene | 50 | 220 |
| 85-01-8 | Phenanthrene | 50 | 1,900 B |
| 120-12-7 | Anthracene | 50 | 310 |
| 206-44-0 | Fluoranthene | 50 | 3,900 |
| 129-00-0 | Pyrene | 50 | 3,000 |
| 56-55-3 | Benzo (a) anthracene | 50 | 1,800 |
| 218-01-9 | Chrysene | 50 | 2,600 |
| 205-99-2 | Benzo (b) fluoranthene | 50 | 2,800 |
| 207-08-9 | Benzo (k) fluoranthene | 50 | 2,200 |
| 50-32-8 | Benzo (a) pyrene | 50 | 2,400 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 50 | 1,500 |
| 53-70-3 | Dibenz (a,h) anthracene | 50 | 510 |
| 191-24-2 | Benzo (g,h,i) perylene | 50 | 1,700 |
| 198-55-0 | Perylene | 50 | 870 |
| 92-52-4 | Biphenyl | 50 | 150 |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | < 50 U |
| 832-69-9 | 1-Methylphenanthrene | 50 | 110 |
| 192-97-2 | Benzo (e) pyrene | 50 | 1,600 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | 54 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.3%
d14-Dibenzo (a,h) anthracen 82.0%

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNA's by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-02-B

SAMPLE

Lab Sample ID: JQ33E

QC Report No: JQ33-Anchor Environmental

LIMS ID: 06-12927

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized:

Date Sampled: 07/19/06

Reported: 08/08/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/08/06 11:32

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/YZ

Dilution Factor: 1.00

GPC Cleanup: No

Percent Moisture: 49.4%

Silica Gel Cleanup: Yes

pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|--------|
| 91-20-3 | Naphthalene | 5.0 | 34 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | 15 |
| 90-12-0 | 1-Methylnaphthalene | 5.0 | 9.4 |
| 208-96-8 | Acenaphthylene | 5.0 | 8.9 |
| 83-32-9 | Acenaphthene | 5.0 | 40 |
| 86-73-7 | Fluorene | 5.0 | 25 |
| 85-01-8 | Phenanthrene | 5.0 | 150 B |
| 120-12-7 | Anthracene | 5.0 | 27 |
| 206-44-0 | Fluoranthene | 5.0 | 220 |
| 129-00-0 | Pyrene | 5.0 | 200 |
| 56-55-3 | Benzo (a) anthracene | 5.0 | 85 |
| 218-01-9 | Chrysene | 5.0 | 120 |
| 205-99-2 | Benzo (b) fluoranthene | 5.0 | 110 |
| 207-08-9 | Benzo (k) fluoranthene | 5.0 | 96 |
| 50-32-8 | Benzo (a) pyrene | 5.0 | 100 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 5.0 | 62 |
| 53-70-3 | Dibenz (a,h) anthracene | 5.0 | 23 |
| 191-24-2 | Benzo (g,h,i) perylene | 5.0 | 76 |
| 198-55-0 | Perylene | 5.0 | 220 |
| 92-52-4 | Biphenyl | 5.0 | 6.4 |
| 581-42-0 | 2,6-Dimethylnaphthalene | 5.0 | 13 |
| 832-69-9 | 1-Methylphenanthrene | 5.0 | 17 |
| 192-97-2 | Benzo (e) pyrene | 5.0 | 74 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 5.0 | 10 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 66.0%

d14-Dibenzo (a,h) anthracen 65.3%

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-02-C
SAMPLE

Lab Sample ID: JQ33F
LIMS ID: 06-12928
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/04/06 17:26
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 48.2%
pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 50 | 40 J |
| 91-57-6 | 2-Methylnaphthalene | 50 | < 50 U |
| 90-12-0 | 1-Methylnaphthalene | 50 | < 50 U |
| 208-96-8 | Acenaphthylene | 50 | < 50 U |
| 83-32-9 | Acenaphthene | 50 | 99 |
| 86-73-7 | Fluorene | 50 | 64 |
| 85-01-8 | Phenanthrene | 50 | 440 B |
| 120-12-7 | Anthracene | 50 | 79 |
| 206-44-0 | Fluoranthene | 50 | 940 |
| 129-00-0 | Pyrene | 50 | 760 |
| 56-55-3 | Benzo (a) anthracene | 50 | 470 |
| 218-01-9 | Chrysene | 50 | 630 |
| 205-99-2 | Benzo (b) fluoranthene | 50 | 710 |
| 207-08-9 | Benzo (k) fluoranthene | 50 | 590 |
| 50-32-8 | Benzo (a) pyrene | 50 | 630 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 50 | 330 |
| 53-70-3 | Dibenz (a,h) anthracene | 50 | 110 |
| 191-24-2 | Benzo (g,h,i) perylene | 50 | 350 |
| 198-55-0 | Perylene | 50 | 410 |
| 92-52-4 | Biphenyl | 50 | 150 |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | < 50 U |
| 832-69-9 | 1-Methylphenanthrene | 50 | 54 |
| 192-97-2 | Benzo (e) pyrene | 50 | 440 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | < 50 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.3%
d14-Dibenzo (a,h) anthracen 59.0%

9/28/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-03-A
SAMPLE

Lab Sample ID: JQ33G

LIMS ID: 06-12929

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/04/06 17:51

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 49.8%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------|
| 91-20-3 | Naphthalene | 50 | 65 |
| 91-57-6 | 2-Methylnaphthalene | 50 | 60 |
| 90-12-0 | 1-Methylnaphthalene | 50 | 30 J |
| 208-96-8 | Acenaphthylene | 50 | < 50 U |
| 83-32-9 | Acenaphthene | 50 | 210 |
| 86-73-7 | Fluorene | 50 | 150 |
| 85-01-8 | Phenanthrene | 50 | 1,300 B |
| 120-12-7 | Anthracene | 50 | 230 |
| 206-44-0 | Fluoranthene | 50 | 2,700 |
| 129-00-0 | Pyrene | 50 | 2,000 |
| 56-55-3 | Benzo (a) anthracene | 50 | 1,300 |
| 218-01-9 | Chrysene | 50 | 1,800 |
| 205-99-2 | Benzo (b) fluoranthene | 50 | 2,100 |
| 207-08-9 | Benzo (k) fluoranthene | 50 | 1,500 |
| 50-32-8 | Benzo (a) pyrene | 50 | 1,600 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 50 | 910 |
| 53-70-3 | Dibenz (a, h) anthracene | 50 | 380 |
| 191-24-2 | Benzo (g, h, i) perylene | 50 | 950 |
| 198-55-0 | Perylene | 50 | 620 |
| 92-52-4 | Biphenyl | 50 | < 50 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | < 50 U |
| 832-69-9 | 1-Methylphenanthrene | 50 | 65 |
| 192-97-2 | Benzo (e) pyrene | 50 | 1,200 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | < 50 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 73.0%
d14-Dibenzo (a, h) anthracen 70.3%

[Handwritten signature]
9/28/02



ORGANICS ANALYSIS DATA SHEET
 PNAs by SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: T4-B414-03-B
 SAMPLE

Lab Sample ID: JQ33H
 LIMS ID: 06-12930
 Matrix: Sediment
 Data Release Authorized:
 Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental
 Project: T4 EARLY ACTION
 Event: 050332-01
 Date Sampled: 07/20/06
 Date Received: 07/21/06

Date Extracted: 07/27/06
 Date Analyzed: 08/04/06 18:16
 Instrument/Analyst: NT1/YZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes

Sample Amount: 10.4 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 10.0
 Percent Moisture: 50.4%
 pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|---------|
| 91-20-3 | Naphthalene | 48 | 82 |
| 91-57-6 | 2-Methylnaphthalene | 48 | 48 |
| 90-12-0 | 1-Methylnaphthalene | 48 | < 48 U |
| 208-96-8 | Acenaphthylene | 48 | < 48 U |
| 83-32-9 | Acenaphthene | 48 | 210 |
| 86-73-7 | Fluorene | 48 | 130 |
| 85-01-8 | Phenanthrene | 48 | 1,200 B |
| 120-12-7 | Anthracene | 48 | 190 |
| 206-44-0 | Fluoranthene | 48 | 2,300 |
| 129-00-0 | Pyrene | 48 | 1,800 |
| 56-55-3 | Benzo(a)anthracene | 48 | 1,100 |
| 218-01-9 | Chrysene | 48 | 1,600 |
| 205-99-2 | Benzo(b)fluoranthene | 48 | 1,600 |
| 207-08-9 | Benzo(k)fluoranthene | 48 | 1,300 |
| 50-32-8 | Benzo(a)pyrene | 48 | 1,400 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 48 | 780 |
| 53-70-3 | Dibenz(a,h)anthracene | 48 | 290 |
| 191-24-2 | Benzo(g,h,i)perylene | 48 | 810 |
| 198-55-0 | Perylene | 48 | 630 |
| 92-52-4 | Biphenyl | 48 | < 48 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 48 | < 48 U |
| 832-69-9 | 1-Methylphenanthrene | 48 | 67 |
| 192-97-2 | Benzo(e)pyrene | 48 | 1,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 48 | < 48 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 73.7%
 d14-Dibenzo(a,h)anthracen 67.3%

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1



Sample ID: T4-B414-03-C

SAMPLE

Lab Sample ID: JQ33I

QC Report No: JQ33-Anchor Environmental

LIMS ID: 06-12931

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized:

Date Sampled: 07/20/06

Reported: 08/08/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/04/06 18:40

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/YZ

Dilution Factor: 1.00

GPC Cleanup: No

Percent Moisture: 49.7%

Silica Gel Cleanup: Yes

pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 5.0 | 17 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | 8.9 |
| 90-12-0 | 1-Methylnaphthalene | 5.0 | 6.4 |
| 208-96-8 | Acenaphthylene | 5.0 | 6.4 |
| 83-32-9 | Acenaphthene | 5.0 | 43 |
| 86-73-7 | Fluorene | 5.0 | 28 |
| 85-01-8 | Phenanthrene | 5.0 | 130 B |
| 120-12-7 | Anthracene | 5.0 | 26 |
| 206-44-0 | Fluoranthene | 5.0 | 230 |
| 129-00-0 | Pyrene | 5.0 | 210 |
| 56-55-3 | Benzo (a) anthracene | 5.0 | 110 |
| 218-01-9 | Chrysene | 5.0 | 150 |
| 205-99-2 | Benzo (b) fluoranthene | 5.0 | 140 |
| 207-08-9 | Benzo (k) fluoranthene | 5.0 | 140 |
| 50-32-8 | Benzo (a) pyrene | 5.0 | 140 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 5.0 | 65 |
| 53-70-3 | Dibenz (a,h) anthracene | 5.0 | 23 |
| 191-24-2 | Benzo (g,h,i) perylene | 5.0 | 74 |
| 198-55-0 | Perylene | 5.0 | 200 |
| 92-52-4 | Biphenyl | 5.0 | < 5.0 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 5.0 | 9.4 |
| 832-69-9 | 1-Methylphenanthrene | 5.0 | 11 |
| 192-97-2 | Benzo (e) pyrene | 5.0 | 93 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 5.0 | 5.4 |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.3%
 d14-Dibenzo (a,h) anthracen 51.3%

Handwritten signature and date: 9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-04-A

SAMPLE

Lab Sample ID: JQ33J

QC Report No: JQ33-Anchor Environmental

LIMS ID: 06-12932

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *[Signature]*

Date Sampled: 07/20/06

Reported: 08/08/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Sample Amount: 10.0 g-dry-wt

Date Analyzed: 08/04/06 19:05

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/YZ

Dilution Factor: 1.00

GPC Cleanup: No

Percent Moisture: 52.3%

Silica Gel Cleanup: Yes

pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 5.0 | 28 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | 14 |
| 90-12-0 | 1-Methylnaphthalene | 5.0 | 8.0 |
| 208-96-8 | Acenaphthylene | 5.0 | 12 |
| 83-32-9 | Acenaphthene | 5.0 | 32 |
| 86-73-7 | Fluorene | 5.0 | 27 |
| 85-01-8 | Phenanthrene | 5.0 | 160 B |
| 120-12-7 | Anthracene | 5.0 | 40 |
| 206-44-0 | Fluoranthene | 5.0 | 350 |
| 129-00-0 | Pyrene | 5.0 | 320 |
| 56-55-3 | Benzo (a) anthracene | 5.0 | 170 |
| 218-01-9 | Chrysene | 5.0 | 230 |
| 205-99-2 | Benzo (b) fluoranthene | 5.0 | 220 |
| 207-08-9 | Benzo (k) fluoranthene | 5.0 | 170 |
| 50-32-8 | Benzo (a) pyrene | 5.0 | 190 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 5.0 | 80 |
| 53-70-3 | Dibenz (a,h) anthracene | 5.0 | 28 |
| 191-24-2 | Benzo (g,h,i) perylene | 5.0 | 86 |
| 198-55-0 | Perylene | 5.0 | 220 |
| 92-52-4 | Biphenyl | 5.0 | 5.0 |
| 581-42-0 | 2,6-Dimethylnaphthalene | 5.0 | 12 |
| 832-69-9 | 1-Methylphenanthrene | 5.0 | < 5.0 U |
| 192-97-2 | Benzo (e) pyrene | 5.0 | 130 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 5.0 | 7.0 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 74.7%
d14-Dibenzo (a,h) anthracen 51.7%

[Handwritten signature]
9/22/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-04-B

SAMPLE

Lab Sample ID: JQ33K

LIMS ID: 06-12933

Matrix: Sediment

Data Release Authorized:

Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/04/06 19:30

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

Percent Moisture: 47.1%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 5.0 | 15 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | 8.9 |
| 90-12-0 | 1-Methylnaphthalene | 5.0 | 4.5 J |
| 208-96-8 | Acenaphthylene | 5.0 | 5.9 |
| 83-32-9 | Acenaphthene | 5.0 | 25 |
| 86-73-7 | Fluorene | 5.0 | 19 |
| 85-01-8 | Phenanthrene | 5.0 | 140 B |
| 120-12-7 | Anthracene | 5.0 | 30 |
| 206-44-0 | Fluoranthene | 5.0 | 300 |
| 129-00-0 | Pyrene | 5.0 | 240 |
| 56-55-3 | Benzo (a) anthracene | 5.0 | 140 |
| 218-01-9 | Chrysene | 5.0 | 200 |
| 205-99-2 | Benzo (b) fluoranthene | 5.0 | 200 |
| 207-08-9 | Benzo (k) fluoranthene | 5.0 | 180 |
| 50-32-8 | Benzo (a) pyrene | 5.0 | 180 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 5.0 | 75 |
| 53-70-3 | Dibenz (a, h) anthracene | 5.0 | 29 |
| 191-24-2 | Benzo (g, h, i) perylene | 5.0 | 80 |
| 198-55-0 | Perylene | 5.0 | 200 |
| 92-52-4 | Biphenyl | 5.0 | < 5.0 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 5.0 | 7.4 |
| 832-69-9 | 1-Methylphenanthrene | 5.0 | 12 |
| 192-97-2 | Benzo (e) pyrene | 5.0 | 120 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 5.0 | 5.4 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 66.3%
d14-Dibenzo(a,h)anthracen 47.3%

e
9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-04-C

SAMPLE

Lab Sample ID: JQ33L

QC Report No: JQ33-Anchor Environmental

LIMS ID: 06-12934

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized:

Date Sampled: 07/20/06

Reported: 08/08/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/04/06 19:55

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/YZ

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 49.3%

Silica Gel Cleanup: Yes

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 50 | 69 |
| 91-57-6 | 2-Methylnaphthalene | 50 | 30 J |
| 90-12-0 | 1-Methylnaphthalene | 50 | < 50 U |
| 208-96-8 | Acenaphthylene | 50 | < 50 U |
| 83-32-9 | Acenaphthene | 50 | 89 |
| 86-73-7 | Fluorene | 50 | 59 |
| 85-01-8 | Phenanthrene | 50 | 420 B |
| 120-12-7 | Anthracene | 50 | 79 |
| 206-44-0 | Fluoranthene | 50 | 720 |
| 129-00-0 | Pyrene | 50 | 590 |
| 56-55-3 | Benzo (a) anthracene | 50 | 350 |
| 218-01-9 | Chrysene | 50 | 480 |
| 205-99-2 | Benzo (b) fluoranthene | 50 | 520 |
| 207-08-9 | Benzo (k) fluoranthene | 50 | 380 |
| 50-32-8 | Benzo (a) pyrene | 50 | 430 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 50 | 200 |
| 53-70-3 | Dibenz (a,h) anthracene | 50 | 89 |
| 191-24-2 | Benzo (g,h,i) perylene | 50 | 210 |
| 198-55-0 | Perylene | 50 | 330 |
| 92-52-4 | Biphenyl | 50 | < 50 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | < 50 U |
| 832-69-9 | 1-Methylphenanthrene | 50 | < 50 U |
| 192-97-2 | Benzo (e) pyrene | 50 | 310 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | < 50 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 73.3%

d14-Dibenzo (a,h) anthracene 68.0%

9/22/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-01-D

SAMPLE

Lab Sample ID: JQ33M

LIMS ID: 06-12935

Matrix: Sediment

Data Release Authorized:

Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/07/06 16:38

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 49.1%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|------------|
| 91-20-3 | Naphthalene | 49 | 440 |
| 91-57-6 | 2-Methylnaphthalene | 49 | 240 |
| 90-12-0 | 1-Methylnaphthalene | 49 | 130 |
| 208-96-8 | Acenaphthylene | 49 | 74 |
| 83-32-9 | Acenaphthene | 49 | 2,100 |
| 86-73-7 | Fluorene | 49 | 1,100 |
| 85-01-8 | Phenanthrene | 49 | 8,900 EB J |
| 120-12-7 | Anthracene | 49 | 2,000 |
| 206-44-0 | Fluoranthene | 49 | 19,000 E J |
| 129-00-0 | Pyrene | 49 | 16,000 E |
| 56-55-3 | Benzo(a)anthracene | 49 | 12,000 E |
| 218-01-9 | Chrysene | 49 | 14,000 E |
| 205-99-2 | Benzo(b)fluoranthene | 49 | 14,000 E |
| 207-08-9 | Benzo(k)fluoranthene | 49 | 12,000 E |
| 50-32-8 | Benzo(a)pyrene | 49 | 16,000 E |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 49 | 8,200 E J |
| 53-70-3 | Dibenz(a,h)anthracene | 49 | 2,800 |
| 191-24-2 | Benzo(g,h,i)perylene | 49 | 8,600 E J |
| 198-55-0 | Perylene | 49 | 4,500 |
| 92-52-4 | Biphenyl | 49 | 59 |
| 581-42-0 | 2,6-Dimethylnaphthalene | 49 | 110 |
| 832-69-9 | 1-Methylphenanthrene | 49 | 480 |
| 192-97-2 | Benzo(e)pyrene | 49 | 9,400 E J |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 49 | 130 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.3%
d14-Dibenzo(a,h)anthracen 81.0%

Handwritten: 9/28/04

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-01-D
DILUTION

Lab Sample ID: JQ33M

LIMS ID: 06-12935

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/04/06 20:19

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 50.0

Percent Moisture: 49.1%

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 240 | 420 |
| 91-57-6 | 2-Methylnaphthalene | 240 | 220 J |
| 90-12-0 | 1-Methylnaphthalene | 240 | 120 J |
| 208-96-8 | Acenaphthylene | 240 | < 240 U |
| 83-32-9 | Acenaphthene | 240 | 2,000 |
| 86-73-7 | Fluorene | 240 | 1,100 |
| 85-01-8 | Phenanthrene | 240 | 8,700 B |
| 120-12-7 | Anthracene | 240 | 1,900 |
| 206-44-0 | Fluoranthene | 240 | 19,000 |
| 129-00-0 | Pyrene | 240 | 16,000 |
| 56-55-3 | Benzo(a)anthracene | 240 | 11,000 |
| 218-01-9 | Chrysene | 240 | 14,000 |
| 205-99-2 | Benzo(b)fluoranthene | 240 | 15,000 |
| 207-08-9 | Benzo(k)fluoranthene | 240 | 14,000 |
| 50-32-8 | Benzo(a)pyrene | 240 | 16,000 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 240 | 6,900 |
| 53-70-3 | Dibenz(a,h)anthracene | 240 | 2,500 |
| 191-24-2 | Benzo(g,h,i)perylene | 240 | 7,300 |
| 198-55-0 | Perylene | 250 | 4,300 |
| 92-52-4 | Biphenyl | 250 | < 250 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 240 | < 240 U |
| 832-69-9 | 1-Methylphenanthrene | 240 | 560 |
| 192-97-2 | Benzo(e)pyrene | 240 | 9,500 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 240 | < 240 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo(a,h)anthracen D

[Handwritten Signature]
9/28/06



ORGANICS ANALYSIS DATA SHEET
 PNAs by SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: T4-S3-01-E
 SAMPLE

Lab Sample ID: JQ33N
 LIMS ID: 06-12936
 Matrix: Sediment
 Data Release Authorized: *RB*
 Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental
 Project: T4 EARLY ACTION
 Event: 050332-01
 Date Sampled: 07/18/06
 Date Received: 07/21/06

Date Extracted: 07/27/06
 Date Analyzed: 08/07/06 17:03
 Instrument/Analyst: NT1/YZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes

Sample Amount: 10.3 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 10.0
 Percent Moisture: 48.8%
 pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|-------------|
| 91-20-3 | Naphthalene | 48 | 720 |
| 91-57-6 | 2-Methylnaphthalene | 48 | 420 |
| 90-12-0 | 1-Methylnaphthalene | 48 | 190 |
| 208-96-8 | Acenaphthylene | 48 | 73 |
| 83-32-9 | Acenaphthene | 48 | 5,000 E J |
| 86-73-7 | Fluorene | 48 | 2,000 |
| 85-01-8 | Phenanthrene | 48 | 16,000 EB J |
| 120-12-7 | Anthracene | 48 | 4,300 |
| 206-44-0 | Fluoranthene | 48 | 32,000 E J |
| 129-00-0 | Pyrene | 48 | 26,000 E |
| 56-55-3 | Benzo (a) anthracene | 48 | 22,000 E |
| 218-01-9 | Chrysene | 48 | 24,000 E |
| 205-99-2 | Benzo (b) fluoranthene | 48 | 34,000 E |
| 207-08-9 | Benzo (k) fluoranthene | 48 | 20,000 E |
| 50-32-8 | Benzo (a) pyrene | 48 | 30,000 E |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 48 | 12,000 E |
| 53-70-3 | Dibenz (a,h) anthracene | 48 | 4,300 |
| 191-24-2 | Benzo (g,h,i) perylene | 48 | 12,000 E J |
| 198-55-0 | Perylene | 49 | 8,900 E J |
| 92-52-4 | Biphenyl | 49 | 78 |
| 581-42-0 | 2,6-Dimethylnaphthalene | 48 | 150 |
| 832-69-9 | 1-Methylphenanthrene | 48 | 950 |
| 192-97-2 | Benzo (e) pyrene | 48 | 18,000 E J |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 48 | 150 |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 65.3%
 d14-Dibenzo(a,h)anthracen 76.7%

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNA's by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-01-E

DILUTION

Lab Sample ID: JQ33N

LIMS ID: 06-12936

Matrix: Sediment

Data Release Authorized: *AS*

Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/04/06 20:44

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.3 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 100

Percent Moisture: 48.8%

pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|----------|
| 91-20-3 | Naphthalene | 480 | 730 |
| 91-57-6 | 2-Methylnaphthalene | 480 | 390 J |
| 90-12-0 | 1-Methylnaphthalene | 480 | < 480 U |
| 208-96-8 | Acenaphthylene | 480 | < 480 U |
| 83-32-9 | Acenaphthene | 480 | 4,700 |
| 86-73-7 | Fluorene | 480 | 1,900 |
| 85-01-8 | Phenanthrene | 480 | 16,000 B |
| 120-12-7 | Anthracene | 480 | 4,000 |
| 206-44-0 | Fluoranthene | 480 | 38,000 |
| 129-00-0 | Pyrene | 480 | 33,000 |
| 56-55-3 | Benzo (a) anthracene | 480 | 25,000 |
| 218-01-9 | Chrysene | 480 | 28,000 |
| 205-99-2 | Benzo (b) fluoranthene | 480 | 34,000 |
| 207-08-9 | Benzo (k) fluoranthene | 480 | 27,000 |
| 50-32-8 | Benzo (a) pyrene | 480 | 34,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 480 | 15,000 |
| 53-70-3 | Dibenz (a, h) anthracene | 480 | 5,200 |
| 191-24-2 | Benzo (g, h, i) perylene | 480 | 16,000 |
| 198-55-0 | Perylene | 490 | 9,400 |
| 92-52-4 | Biphenyl | 490 | < 490 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 480 | < 480 U |
| 832-69-9 | 1-Methylphenanthrene | 480 | 1,000 |
| 192-97-2 | Benzo (e) pyrene | 480 | 19,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 480 | < 480 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo (a, h) anthracen D

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-01-F

SAMPLE

Lab Sample ID: JQ330

QC Report No: JQ33-Anchor Environmental

LIMS ID: 06-12937

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *[Signature]*

Date Sampled: 07/18/06

Reported: 08/08/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Sample Amount: 1.01 g-dry-wt

Date Analyzed: 08/04/06 21:09

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/YZ

Dilution Factor: 20.0

GPC Cleanup: No

Percent Moisture: 49.8%

Silica Gel Cleanup: Yes

pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|----------|
| 91-20-3 | Naphthalene | 990 | 990 |
| 91-57-6 | 2-Methylnaphthalene | 990 | 590 J |
| 90-12-0 | 1-Methylnaphthalene | 990 | < 990 U |
| 208-96-8 | Acenaphthylene | 990 | < 990 U |
| 83-32-9 | Acenaphthene | 990 | 6,200 |
| 86-73-7 | Fluorene | 990 | 2,800 |
| 85-01-8 | Phenanthrene | 990 | 24,000 B |
| 120-12-7 | Anthracene | 990 | 5,700 |
| 206-44-0 | Fluoranthene | 990 | 53,000 |
| 129-00-0 | Pyrene | 990 | 47,000 |
| 56-55-3 | Benzo (a) anthracene | 990 | 34,000 |
| 218-01-9 | Chrysene | 990 | 39,000 |
| 205-99-2 | Benzo (b) fluoranthene | 990 | 44,000 |
| 207-08-9 | Benzo (k) fluoranthene | 990 | 38,000 |
| 50-32-8 | Benzo (a) pyrene | 990 | 45,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 990 | 19,000 |
| 53-70-3 | Dibenz (a,h) anthracene | 990 | 8,100 |
| 191-24-2 | Benzo (g,h,i) perylene | 990 | 20,000 |
| 198-55-0 | Perylene | 990 | 12,000 |
| 92-52-4 | Biphenyl | 990 | < 990 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 990 | < 990 U |
| 832-69-9 | 1-Methylphenanthrene | 990 | 1,600 |
| 192-97-2 | Benzo (e) pyrene | 990 | 26,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 990 | < 990 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.7%

d14-Dibenzo(a,h)anthracen 54.7%

[Handwritten signature]

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-01-G

SAMPLE

Lab Sample ID: JQ33P

LIMS ID: 06-12938

Matrix: Sediment

Data Release Authorized:

Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 07/27/06

Date Analyzed: 08/04/06 21:33

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 1.12 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 44.6%

pH: 7.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|----------|
| 91-20-3 | Naphthalene | 450 | 620 |
| 91-57-6 | 2-Methylnaphthalene | 450 | 360 U |
| 90-12-0 | 1-Methylnaphthalene | 450 | < 450 U |
| 208-96-8 | Acenaphthylene | 450 | < 450 U |
| 83-32-9 | Acenaphthene | 450 | 4,200 |
| 86-73-7 | Fluorene | 450 | 2,000 |
| 85-01-8 | Phenanthrene | 450 | 15,000 B |
| 120-12-7 | Anthracene | 450 | 3,500 |
| 206-44-0 | Fluoranthene | 450 | 31,000 |
| 129-00-0 | Pyrene | 450 | 27,000 |
| 56-55-3 | Benzo (a) anthracene | 450 | 19,000 |
| 218-01-9 | Chrysene | 450 | 22,000 |
| 205-99-2 | Benzo (b) fluoranthene | 450 | 26,000 |
| 207-08-9 | Benzo (k) fluoranthene | 450 | 22,000 |
| 50-32-8 | Benzo (a) pyrene | 450 | 26,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 450 | 11,000 |
| 53-70-3 | Dibenz (a,h) anthracene | 450 | 4,300 |
| 191-24-2 | Benzo (g,h,i) perylene | 450 | 12,000 |
| 198-55-0 | Perylene | 450 | 7,100 |
| 92-52-4 | Biphenyl | 450 | < 450 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 450 | < 450 U |
| 832-69-9 | 1-Methylphenanthrene | 450 | 890 |
| 192-97-2 | Benzo (e) pyrene | 450 | 15,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 450 | < 450 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.7%
d14-Dibenzo (a,h) anthracen 42.3%

9/28/06



ORGANICS ANALYSIS DATA SHEET
 PNAs by SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: T4-S3-01-H
 SAMPLE

Lab Sample ID: JQ33Q
 LIMS ID: 06-12939
 Matrix: Sediment
 Data Release Authorized: *RB*
 Reported: 08/08/06

QC Report No: JQ33-Anchor Environmental
 Project: T4 EARLY ACTION
 Event: 050332-01
 Date Sampled: 07/18/06
 Date Received: 07/21/06

Date Extracted: 07/27/06
 Date Analyzed: 08/07/06 17:28
 Instrument/Analyst: NT1/YZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes

Sample Amount: 1.10 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 20.0
 Percent Moisture: 45.6%
 pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|----------|
| 91-20-3 | Naphthalene | 910 | 1,700 |
| 91-57-6 | 2-Methylnaphthalene | 910 | 1,000 |
| 90-12-0 | 1-Methylnaphthalene | 910 | 460 J |
| 208-96-8 | Acenaphthylene | 910 | < 910 U |
| 83-32-9 | Acenaphthene | 910 | 8,700 |
| 86-73-7 | Fluorene | 910 | 3,400 |
| 85-01-8 | Phenanthrene | 910 | 29,000 B |
| 120-12-7 | Anthracene | 910 | 6,900 |
| 206-44-0 | Fluoranthene | 910 | 64,000 |
| 129-00-0 | Pyrene | 910 | 56,000 |
| 56-55-3 | Benzo (a) anthracene | 910 | 42,000 |
| 218-01-9 | Chrysene | 910 | 49,000 |
| 205-99-2 | Benzo (b) fluoranthene | 910 | 51,000 |
| 207-08-9 | Benzo (k) fluoranthene | 910 | 50,000 |
| 50-32-8 | Benzo (a) pyrene | 910 | 57,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 910 | 28,000 |
| 53-70-3 | Dibenz (a,h) anthracene | 910 | 9,900 |
| 191-24-2 | Benzo (g,h,i) perylene | 910 | 29,000 |
| 198-55-0 | Perylene | 910 | 15,000 |
| 92-52-4 | Biphenyl | 910 | < 910 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 910 | < 910 U |
| 832-69-9 | 1-Methylphenanthrene | 910 | 2,000 |
| 192-97-2 | Benzo (e) pyrene | 910 | 32,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 910 | < 910 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.0%
 d14-Dibenzo (a,h) anthracen 91.3%

9/28/06

LDC #: 15488B2b **VALIDATION COMPLETENESS WORKSHEET**

SDG #: JQ33

Level III

Laboratory: Analytical Resources, Inc.

Date: 9/20/06

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C-SIM)
PAT'S

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|------------------------------|
| I. | Technical holding times | A | Sampling dates: 7/18 - 20/06 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | NO SPCC'S |
| IV. | Continuing calibration HCV | A | d |
| V. | Blanks | TW | |
| VI. | Surrogate spikes | TW | |
| VII. | Matrix spike/Matrix spike duplicates | TW | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | SW | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | SW | D=5+5-DUP (1/25) |
| XVII. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

All seeds

| | | | | | | | |
|----|----------------|----|--------------|----|-----------------|----|------------------|
| 1 | T4-B414-01-A | 11 | T4-B414-04-A | 21 | T4-B414-02-AMS | 31 | <i>LB-07-206</i> |
| 2 | T4-B414-01-ADL | 12 | T4-B414-04-B | 22 | T4-B414-02-AMSD | 32 | |
| 3 | T4-B414-01-B | 13 | T4-B414-04-C | 23 | | 33 | |
| 4 | T4-B414-01-C | 14 | T4-S3-01-D | 24 | | 34 | |
| 5 | T4-B414-02-A | 15 | T4-S3-01-DDL | 25 | | 35 | |
| 6 | T4-B414-02-B | 16 | T4-S3-01-E | 26 | | 36 | |
| 7 | T4-B414-02-C | 17 | T4-S3-01-EDL | 27 | | 37 | |
| 8 | T4-B414-03-A | 18 | T4-S3-01-F | 28 | | 38 | |
| 9 | T4-B414-03-B | 19 | T4-S3-01-G | 29 | | 39 | |
| 10 | T4-B414-03-C | 20 | T4-S3-01-H | 30 | | 40 | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
|---------------------------------|-------------------------------|----------------------------------|---------------------------------|-------------------------------------|
| B. Bis(2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene ✓ | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene ✓ | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene ✓ | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene ✓ | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. <u>perylene</u> |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. <u>Benzo(e)pyrene</u> |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. <u>1-Methylphenanthrene</u> |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. <u>2,6-Dimethylnaphthalene</u> |

XXX. 1-Methylphenanthrene
 YYY. 2,3,5-Trimethylnaphthalene
 ZZZ. Biphenyl

LDC#: 15488B2b
 SDG#: JQ33

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: 9
 2nd Reviewer: 2

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA Were field duplicate pairs identified in this SDG?
 Y N NA Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | ETS |
|----------|-----------------------|------|-----|-----|
| | T4-B414-02-A-DUP | 5 | | |
| S | 48U | 180 | 200 | |
| W | 48U | 89 | 200 | |
| VVV | 48U | 50 | 200 | |
| GG | 120 | 540 | 127 | |
| NN | 48 | 220 | 128 | |
| UU | 420 | 1900 | 128 | |
| VV | 81 | 310 | 117 | |
| YY | 980 | 3900 | 120 | |
| ZZ | 920 | 3000 | 106 | |
| CCC | 660 | 1800 | 93 | |
| DDD | 840 | 2600 | 102 | |
| GGG | 1100 | 2800 | 87 | |
| HHH | 840 | 2200 | 89 | |
| III | 1000 | 2400 | 82 | |
| JJJ | 660 | 1500 | 78 | |
| KKK | 240 | 510 | 72 | |
| LLL | 770 | 1700 | 75 | |
| TTT | 300 | 870 | 97 | |
| ZZZ | 48U | 150 | 200 | |
| XXX | 48U | 110 | 200 | |
| UUU | 630 | 1600 | 87 | |
| YYY | 48U | 54 | 200 | |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Polynuclear Aromatic Hydrocarbons
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ35

Sample Identification

T4-S3-02-C
T4-S3-02-D
T4-S3-02-E
T4-S3-02-F
T4-S3-03-B
T4-S3-03-C
T4-S3-03-D
T4-S3-05-E
T4-S3-05-F
T4-S3-05-G
T4-S3-05-H
T4-S3-05-J
T4-S3-06-A
T4-S3-06-B
T4-S3-08-B
T4-S3-08-C
T4-S3-08-CMS
T4-S3-08-CMSD

Introduction

This data review covers 18 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per a modification of EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all target compounds were within validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% .

All of the continuing calibration RRF values were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for sample T4-S3-05-G. Since the sample was diluted out, no data were qualified.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Compound | MS (%R) (Limits) | MSD (%R) (Limits) | RPD (Limits) | Flag | A or P |
|-------------------------------------|----------------------|---------------------|----------------------|-----------------|-----------------|--------|
| T4-S3-08-CMS/MSD (T4-S3-08-C) | Benzo(k)fluoranthene | 122 (26-110) | 117 (26-110) | - | J (all detects) | A |

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples T4-S3-02-F and T4-S3-02-F-DUP (from SDG JQ52), samples T4-S3-02-F and T4-S3-02-F-DUPDL (from SDG JQ52), samples T4-S3-03-C and T4-S3-03-C-DUP (from SDG JQ52), and samples T4-S3-08-C and T4-S3-08-C-DUP (from SDG JQ52) were identified as field duplicates. No polynuclear aromatic hydrocarbons were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|-------------------------|-----------------------|------------|-------------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Naphthalene | 260 | 260U | 200 (≤ 75) |
| 2-Methylnaphthalene | 160 | 260U | 200 (≤ 75) |
| 1-Methylnaphthalene | 80 | 260U | 200 (≤ 75) |
| Acenaphthylene | 45 | 260U | 200 (≤ 75) |
| Acenaphthene | 1400 | 720 | 64 (≤ 75) |
| Fluorene | 640 | 410 | 44 (≤ 75) |
| Phenanthrene | 5200 | 3000 | 54 (≤ 75) |
| Anthracene | 1200 | 620 | 64 (≤ 75) |
| Fluoranthene | 11000 | 6600 | 50 (≤ 75) |
| Pyrene | 10000 | 6200 | 47 (≤ 75) |
| Benzo(a)anthracene | 7100 | 3700 | 63 (≤ 75) |
| Chrysene | 8800 | 4700 | 61 (≤ 75) |
| Benzo(b)fluoranthene | 9700 | 4900 | 66 (≤ 75) |
| Benzo(k)fluoranthene | 7900 | 4200 | 61 (≤ 75) |
| Benzo(a)pyrene | 9800 | 5100 | 63 (≤ 75) |
| Indeno(1,2,3-cd)pyrene | 5400 | 3200 | 51 (≤ 75) |
| Dibenz(a,h)anthracene | 1900 | 1200 | 45 (≤ 75) |
| Benzo(g,h,i)perylene | 6100 | 3700 | 49 (≤ 75) |
| Perylene | 3000 | 1600 | 61 (≤ 75) |
| 2,6-Dimethylnaphthalene | 95 | 260U | 200 (≤ 75) |
| 1-Methylphenanthrene | 480 | 330 | 37 (≤ 75) |
| Benzo(e)pyrene | 5800 | 3000 | 64 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|-------------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| 2,3,5-Trimethylnaphthalene | 120 | 260U | 200 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|------------------------|-----------------------|------------|-------------------|
| | T4-S3-02-F-DUPDL | T4-S3-02-F | |
| Naphthalene | 250 | 260U | 200 (≤ 75) |
| 2-Methylnaphthalene | 150 | 260U | 200 (≤ 75) |
| Acenaphthene | 1300 | 720 | 57 (≤ 75) |
| Fluorene | 620 | 410 | 41 (≤ 75) |
| Phenanthrene | 4700 | 3000 | 44 (≤ 75) |
| Anthracene | 1100 | 620 | 56 (≤ 75) |
| Fluoranthene | 10000 | 6600 | 41 (≤ 75) |
| Pyrene | 8900 | 6200 | 36 (≤ 75) |
| Benzo(a)anthracene | 6400 | 3700 | 53 (≤ 75) |
| Chrysene | 7800 | 4700 | 50 (≤ 75) |
| Benzo(b)fluoranthene | 8000 | 4900 | 48 (≤ 75) |
| Benzo(k)fluoranthene | 6700 | 4200 | 46 (≤ 75) |
| Benzo(a)pyrene | 8200 | 5100 | 47 (≤ 75) |
| Indeno(1,2,3-cd)pyrene | 5000 | 3200 | 44 (≤ 75) |
| Dibenz(a,h)anthracene | 1800 | 1200 | 40 (≤ 75) |
| Benzo(g,h,i)perylene | 5800 | 3700 | 44 (≤ 75) |
| Perylene | 2500 | 1600 | 44 (≤ 75) |
| 1-Methylphenanthrene | 380 | 330 | 14 (≤ 75) |
| Benzo(e)pyrene | 4900 | 3000 | 48 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|-------------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Naphthalene | 98 | 69 | 35 (≤ 75) |
| 2-Methylnaphthalene | 49 | 50U | 200 (≤ 75) |
| 1-Methylnaphthalene | 24 | 50U | 200 (≤ 75) |
| Acenaphthylene | 44 | 50U | 200 (≤ 75) |
| Acenaphthene | 210 | 170 | 21 (≤ 75) |
| Fluorene | 130 | 120 | 8 (≤ 75) |
| Phenanthrene | 760 | 610 | 22 (≤ 75) |
| Anthracene | 150 | 110 | 31 (≤ 75) |
| Fluoranthene | 1600 | 1300 | 21 (≤ 75) |
| Pyrene | 1600 | 1300 | 21 (≤ 75) |
| Benzo(a)anthracene | 710 | 570 | 22 (≤ 75) |
| Chrysene | 960 | 830 | 15 (≤ 75) |
| Benzo(b)fluoranthene | 880 | 730 | 19 (≤ 75) |
| Benzo(k)fluoranthene | 740 | 690 | 7 (≤ 75) |
| Benzo(a)pyrene | 910 | 790 | 14 (≤ 75) |
| Indeno(1,2,3-cd)pyrene | 550 | 490 | 12 (≤ 75) |
| Dibenz(a,h)anthracene | 170 | 150 | 13 (≤ 75) |
| Benzo(g,h,i)perylene | 690 | 640 | 8 (≤ 75) |
| Perylene | 440 | 400 | 10 (≤ 75) |
| Benzo(e)pyrene | 560 | 510 | 9 (≤ 75) |
| 2,3,5-Trimethylnaphthalene | 64 | 54 | 17 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|------------------------|-----------------------|------------|-------------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Naphthalene | 49U | 4.8 | 200 (≤ 75) |
| Acenaphthene | 88 | 26 | 109 (≤ 75) |
| Fluorene | 59 | 14 | 123 (≤ 75) |
| Phenanthrene | 560 | 120 | 129 (≤ 75) |
| Anthracene | 93 | 26 | 0 (≤ 75) |
| Fluoranthene | 1100 | 280 | 0 (≤ 75) |
| Pyrene | 900 | 250 | 113 (≤ 75) |
| Benzo(a)anthracene | 540 | 170 | 104 (≤ 75) |
| Chrysene | 780 | 210 | 115 (≤ 75) |
| Benzo(b)fluoranthene | 830 | 240 | 110 (≤ 75) |
| Benzo(k)fluoranthene | 620 | 180 | 110 (≤ 75) |
| Benzo(a)pyrene | 660 | 230 | 97 (≤ 75) |
| Indeno(1,2,3-cd)pyrene | 440 | 110 | 120 (≤ 75) |
| Dibenz(a,h)anthracene | 150 | 40 | 116 (≤ 75) |
| Benzo(g,h,i)perylene | 500 | 120 | 123 (≤ 75) |
| Perylene | 280 | 71 | 119 (≤ 75) |
| 1-Methylphenanthrene | 49U | 7.7 | 200 (≤ 75) |
| Benzo(e)pyrene | 490 | 140 | 111 (≤ 75) |

XVII. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG JQ35**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|------------|----------------------|-----------------|--------|---|
| JQ35 | T4-S3-08-C | Benzo(k)fluoranthene | J (all detects) | A | Matrix spike/Matrix spike duplicates (%R) |

**Terminal 4 Early Action
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary
- SDG JQ35**

No Sample Data Qualified in this SDG

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-02-C

SAMPLE

Lab Sample ID: JQ35A

LIMS ID: 06-12956

Matrix: Sediment

Data Release Authorized: *VTS*

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/08/06 10:17

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 20.0

Percent Moisture: 46.8%

pH: 6.7

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 99 | 160 |
| 91-57-6 | 2-Methylnaphthalene | 99 | < 99 U |
| 90-12-0 | 1-Methylnaphthalene | 99 | < 99 U |
| 208-96-8 | Acenaphthylene | 99 | < 99 U |
| 83-32-9 | Acenaphthene | 99 | 890 |
| 86-73-7 | Fluorene | 99 | 480 |
| 85-01-8 | Phenanthrene | 99 | 4,000 |
| 120-12-7 | Anthracene | 99 | 880 |
| 206-44-0 | Fluoranthene | 99 | 8,900 |
| 129-00-0 | Pyrene | 99 | 8,200 |
| 56-55-3 | Benzo (a) anthracene | 99 | 5,500 |
| 218-01-9 | Chrysene | 99 | 6,700 |
| 205-99-2 | Benzo (b) fluoranthene | 99 | 7,100 |
| 207-08-9 | Benzo (k) fluoranthene | 99 | 6,400 |
| 50-32-8 | Benzo (a) pyrene | 99 | 7,600 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 99 | 4,600 |
| 53-70-3 | Dibenz (a,h) anthracene | 99 | 1,700 |
| 191-24-2 | Benzo (g,h,i) perylene | 99 | 5,600 |
| 198-55-0 | Perylene | 99 | 2,300 |
| 92-52-4 | Biphenyl | 99 | < 99 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 99 | < 99 U |
| 832-69-9 | 1-Methylphenanthrene | 99 | 260 |
| 192-97-2 | Benzo (e) pyrene | 99 | 4,500 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 99 | < 99 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 76.7%
d14-Dibenzo (a,h) anthracen 66.0%

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-02-D

SAMPLE

Lab Sample ID: JQ35B

LIMS ID: 06-12957

Matrix: Sediment

Data Release Authorized: **VTS**

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/07/06 12:55

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 2.32 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 42.0%

pH: 6.3

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 220 | 410 |
| 91-57-6 | 2-Methylnaphthalene | 220 | 220 |
| 90-12-0 | 1-Methylnaphthalene | 220 | < 220 U |
| 208-96-8 | Acenaphthylene | 220 | < 220 U |
| 83-32-9 | Acenaphthene | 220 | 2,400 |
| 86-73-7 | Fluorene | 220 | 1,100 |
| 85-01-8 | Phenanthrene | 220 | 9,000 |
| 120-12-7 | Anthracene | 220 | 1,900 |
| 206-44-0 | Fluoranthene | 220 | 20,000 |
| 129-00-0 | Pyrene | 220 | 18,000 |
| 56-55-3 | Benzo (a) anthracene | 220 | 13,000 |
| 218-01-9 | Chrysene | 220 | 15,000 |
| 205-99-2 | Benzo (b) fluoranthene | 220 | 16,000 |
| 207-08-9 | Benzo (k) fluoranthene | 220 | 13,000 |
| 50-32-8 | Benzo (a) pyrene | 220 | 17,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 220 | 10,000 |
| 53-70-3 | Dibenz (a, h) anthracene | 220 | 3,800 |
| 191-24-2 | Benzo (g, h, i) perylene | 220 | 12,000 |
| 198-55-0 | Perylene | 220 | 4,700 |
| 92-52-4 | Biphenyl | 220 | < 220 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 220 | < 220 U |
| 832-69-9 | 1-Methylphenanthrene | 220 | 580 |
| 192-97-2 | Benzo (e) pyrene | 220 | 9,800 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 220 | < 220 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.3%
d14-Dibenzo (a, h) anthracen 85.3%

L
9/28/04

ORGANICS ANALYSIS DATA SHEET

PNA's by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-02-E

SAMPLE

Lab Sample ID: JQ35C

LIMS ID: 06-12958

Matrix: Sediment

Data Release Authorized: *VTB*

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/07/06 13:19

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 2.44 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 39.1%

pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 200 | 530 |
| 91-57-6 | 2-Methylnaphthalene | 200 | 220 |
| 90-12-0 | 1-Methylnaphthalene | 200 | < 200 U |
| 208-96-8 | Acenaphthylene | 200 | < 200 U |
| 83-32-9 | Acenaphthene | 200 | 2,400 |
| 86-73-7 | Fluorene | 200 | 1,000 |
| 85-01-8 | Phenanthrene | 200 | 8,300 |
| 120-12-7 | Anthracene | 200 | 1,900 |
| 206-44-0 | Fluoranthene | 200 | 19,000 |
| 129-00-0 | Pyrene | 200 | 16,000 |
| 56-55-3 | Benzo (a) anthracene | 200 | 12,000 |
| 218-01-9 | Chrysene | 200 | 14,000 |
| 205-99-2 | Benzo (b) fluoranthene | 200 | 15,000 |
| 207-08-9 | Benzo (k) fluoranthene | 200 | 12,000 |
| 50-32-8 | Benzo (a) pyrene | 200 | 15,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 200 | 9,300 |
| 53-70-3 | Dibenz (a,h) anthracene | 200 | 3,100 |
| 191-24-2 | Benzo (g,h,i) perylene | 200 | 11,000 |
| 198-55-0 | Perylene | 200 | 4,200 |
| 92-52-4 | Biphenyl | 200 | < 200 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 200 | < 200 U |
| 832-69-9 | 1-Methylphenanthrene | 200 | 510 |
| 192-97-2 | Benzo (e) pyrene | 200 | 9,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 200 | < 200 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.7%

d14-Dibenzo (a,h) anthracen 95.3%

9/28/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-02-F

SAMPLE

Lab Sample ID: JQ35D

LIMS ID: 06-12959

Matrix: Sediment

Data Release Authorized: VTS

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/07/06 13:44

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 1.95 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 44.9%

pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 260 | < 260 U |
| 91-57-6 | 2-Methylnaphthalene | 260 | < 260 U |
| 90-12-0 | 1-Methylnaphthalene | 260 | < 260 U |
| 208-96-8 | Acenaphthylene | 260 | < 260 U |
| 83-32-9 | Acenaphthene | 260 | 720 |
| 86-73-7 | Fluorene | 260 | 410 |
| 85-01-8 | Phenanthrene | 260 | 3,000 |
| 120-12-7 | Anthracene | 260 | 620 |
| 206-44-0 | Fluoranthene | 260 | 6,600 |
| 129-00-0 | Pyrene | 260 | 6,200 |
| 56-55-3 | Benzo (a) anthracene | 260 | 3,700 |
| 218-01-9 | Chrysene | 260 | 4,700 |
| 205-99-2 | Benzo (b) fluoranthene | 260 | 4,900 |
| 207-08-9 | Benzo (k) fluoranthene | 260 | 4,200 |
| 50-32-8 | Benzo (a) pyrene | 260 | 5,100 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 260 | 3,200 |
| 53-70-3 | Dibenz (a,h) anthracene | 260 | 1,200 |
| 191-24-2 | Benzo (g,h,i) perylene | 260 | 3,700 |
| 198-55-0 | Perylene | 260 | 1,600 |
| 92-52-4 | Biphenyl | 260 | < 260 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 260 | < 260 U |
| 832-69-9 | 1-Methylphenanthrene | 260 | 330 |
| 192-97-2 | Benzo (e) pyrene | 260 | 3,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 260 | < 260 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 65.0%
d14-Dibenzo (a,h) anthracen 76.0%

Handwritten signature and date: 9/28/06

0021

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-03-B

SAMPLE

Lab Sample ID: JQ35E

LIMS ID: 06-12960

Matrix: Sediment

Data Release Authorized: *VTS*

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/07/06 14:09

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 2.53 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 44.2%

pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 200 | 240 |
| 91-57-6 | 2-Methylnaphthalene | 200 | < 200 U |
| 90-12-0 | 1-Methylnaphthalene | 200 | < 200 U |
| 208-96-8 | Acenaphthylene | 200 | < 200 U |
| 83-32-9 | Acenaphthene | 200 | 870 |
| 86-73-7 | Fluorene | 200 | 670 |
| 85-01-8 | Phenanthrene | 200 | 4,100 |
| 120-12-7 | Anthracene | 200 | 630 |
| 206-44-0 | Fluoranthene | 200 | 9,000 |
| 129-00-0 | Pyrene | 200 | 7,600 |
| 56-55-3 | Benzo (a) anthracene | 200 | 4,600 |
| 218-01-9 | Chrysene | 200 | 6,300 |
| 205-99-2 | Benzo (b) fluoranthene | 200 | 6,300 |
| 207-08-9 | Benzo (k) fluoranthene | 200 | 5,100 |
| 50-32-8 | Benzo (a) pyrene | 200 | 5,900 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 200 | 3,600 |
| 53-70-3 | Dibenz (a,h) anthracene | 200 | 1,300 |
| 191-24-2 | Benzo (g,h,i) perylene | 200 | 4,300 |
| 198-55-0 | Perylene | 200 | 1,900 |
| 92-52-4 | Biphenyl | 200 | < 200 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 200 | < 200 U |
| 832-69-9 | 1-Methylphenanthrene | 200 | 320 |
| 192-97-2 | Benzo (e) pyrene | 200 | 3,800 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 200 | < 200 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.3%
d14-Dibenzo (a,h) anthracen 77.7%

9/28/06



ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-03-C
SAMPLE

Lab Sample ID: JQ35F
LIMS ID: 06-12961
Matrix: Sediment
Data Release Authorized: VTS
Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 08/01/06
Date Analyzed: 08/07/06 14:34
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 40.6%
pH: 6.6

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 50 | 69 |
| 91-57-6 | 2-Methylnaphthalene | 50 | < 50 U |
| 90-12-0 | 1-Methylnaphthalene | 50 | < 50 U |
| 208-96-8 | Acenaphthylene | 50 | < 50 U |
| 83-32-9 | Acenaphthene | 50 | 170 |
| 86-73-7 | Fluorene | 50 | 120 |
| 85-01-8 | Phenanthrene | 50 | 610 |
| 120-12-7 | Anthracene | 50 | 110 |
| 206-44-0 | Fluoranthene | 50 | 1,300 |
| 129-00-0 | Pyrene | 50 | 1,300 |
| 56-55-3 | Benzo (a) anthracene | 50 | 570 |
| 218-01-9 | Chrysene | 50 | 830 |
| 205-99-2 | Benzo (b) fluoranthene | 50 | 730 |
| 207-08-9 | Benzo (k) fluoranthene | 50 | 690 |
| 50-32-8 | Benzo (a) pyrene | 50 | 790 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 50 | 490 |
| 53-70-3 | Dibenz (a,h) anthracene | 50 | 150 |
| 191-24-2 | Benzo (g,h,i) perylene | 50 | 640 |
| 198-55-0 | Perylene | 50 | 400 |
| 92-52-4 | Biphenyl | 50 | < 50 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | < 50 U |
| 832-69-9 | 1-Methylphenanthrene | 50 | < 50 U |
| 192-97-2 | Benzo (e) pyrene | 50 | 510 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | 54 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 69.3%
d14-Dibenzo (a,h) anthracen 66.7%

g
9/28/04

0023

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-03-D

SAMPLE

Lab Sample ID: JQ35G

QC Report No: JQ35-Anchor Environmental

LIMS ID: 06-12962

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *VTS*

Date Sampled: 07/19/06

Reported: 08/09/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/07/06 14:59

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/YZ

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 32.8%

Silica Gel Cleanup: Yes

pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 50 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 50 | < 50 U |
| 90-12-0 | 1-Methylnaphthalene | 50 | < 50 U |
| 208-96-8 | Acenaphthylene | 50 | < 50 U |
| 83-32-9 | Acenaphthene | 50 | 140 |
| 86-73-7 | Fluorene | 50 | 99 |
| 85-01-8 | Phenanthrene | 50 | 620 |
| 120-12-7 | Anthracene | 50 | 94 |
| 206-44-0 | Fluoranthene | 50 | 1,000 |
| 129-00-0 | Pyrene | 50 | 1,200 |
| 56-55-3 | Benzo(a)anthracene | 50 | 420 |
| 218-01-9 | Chrysene | 50 | 600 |
| 205-99-2 | Benzo(b)fluoranthene | 50 | 480 |
| 207-08-9 | Benzo(k)fluoranthene | 50 | 420 |
| 50-32-8 | Benzo(a)pyrene | 50 | 520 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 50 | 310 |
| 53-70-3 | Dibenz(a,h)anthracene | 50 | 99 |
| 191-24-2 | Benzo(g,h,i)perylene | 50 | 390 |
| 198-55-0 | Perylene | 50 | 280 |
| 92-52-4 | Biphenyl | 50 | < 50 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | 64 |
| 832-69-9 | 1-Methylphenanthrene | 50 | < 50 U |
| 192-97-2 | Benzo(e)pyrene | 50 | 320 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | 110 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 55.3%
d14-Dibenzo(a,h)anthracen 54.0%

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-05-E

SAMPLE

Lab Sample ID: JQ35H

LIMS ID: 06-12963

Matrix: Sediment

Data Release Authorized: *VTS*

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/08/06 10:42

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 20.0

Percent Moisture: 47.7%

pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 98 | 150 |
| 91-57-6 | 2-Methylnaphthalene | 98 | < 98 U |
| 90-12-0 | 1-Methylnaphthalene | 98 | < 98 U |
| 208-96-8 | Acenaphthylene | 98 | < 98 U |
| 83-32-9 | Acenaphthene | 98 | 710 |
| 86-73-7 | Fluorene | 98 | 340 |
| 85-01-8 | Phenanthrene | 98 | 2,900 |
| 120-12-7 | Anthracene | 98 | 650 |
| 206-44-0 | Fluoranthene | 98 | 6,400 |
| 129-00-0 | Pyrene | 98 | 6,200 |
| 56-55-3 | Benzo (a) anthracene | 98 | 3,800 |
| 218-01-9 | Chrysene | 98 | 4,500 |
| 205-99-2 | Benzo (b) fluoranthene | 98 | 5,000 |
| 207-08-9 | Benzo (k) fluoranthene | 98 | 3,900 |
| 50-32-8 | Benzo (a) pyrene | 98 | 5,200 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 98 | 3,200 |
| 53-70-3 | Dibenz (a,h) anthracene | 98 | 1,100 |
| 191-24-2 | Benzo (g,h,i) perylene | 98 | 3,800 |
| 198-55-0 | Perylene | 98 | 1,500 |
| 92-52-4 | Biphenyl | 98 | < 98 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 98 | < 98 U |
| 832-69-9 | 1-Methylphenanthrene | 98 | 220 |
| 192-97-2 | Benzo (e) pyrene | 98 | 3,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 98 | < 98 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 70.7%

d14-Dibenzo (a,h) anthracen 74.7%

9/28/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-05-F
SAMPLE

Lab Sample ID: JQ35I

LIMS ID: 06-12964

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Date Extracted: 08/09/06

Date Analyzed: 08/10/06 21:14

Instrument/Analyst: NT1/VTS

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 2.83 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 43.7%

pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 180 | 390 |
| 91-57-6 | 2-Methylnaphthalene | 180 | 210 |
| 90-12-0 | 1-Methylnaphthalene | 180 | 88 J |
| 208-96-8 | Acenaphthylene | 180 | < 180 U |
| 83-32-9 | Acenaphthene | 180 | 1,900 |
| 86-73-7 | Fluorene | 180 | 810 |
| 85-01-8 | Phenanthrene | 180 | 7,500 |
| 120-12-7 | Anthracene | 180 | 1,700 |
| 206-44-0 | Fluoranthene | 180 | 18,000 |
| 129-00-0 | Pyrene | 180 | 14,000 |
| 56-55-3 | Benzo (a) anthracene | 180 | 11,000 |
| 218-01-9 | Chrysene | 180 | 13,000 |
| 205-99-2 | Benzo (b) fluoranthene | 180 | 14,000 |
| 207-08-9 | Benzo (k) fluoranthene | 180 | 14,000 |
| 50-32-8 | Benzo (a) pyrene | 180 | 15,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 180 | 6,600 |
| 53-70-3 | Dibenz (a,h) anthracene | 180 | 2,600 |
| 191-24-2 | Benzo (g,h,i) perylene | 180 | 6,600 |
| 198-55-0 | Perylene | 180 | 4,600 |
| 92-52-4 | Biphenyl | 180 | < 180 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 180 | < 180 U |
| 832-69-9 | 1-Methylphenanthrene | 180 | 420 |
| 192-97-2 | Benzo (e) pyrene | 180 | 9,200 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 180 | < 180 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 77.7%

d14-Dibenzo (a,h) anthracen 86.7%

[Handwritten signature]
9/18/06

0026



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-05-G

SAMPLE

Lab Sample ID: JQ35J

LIMS ID: 06-12965

Matrix: Sediment

Data Release Authorized: VTS

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/08/06 11:07

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 2.31 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 20.0

Percent Moisture: 42.9%

pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 430 | 650 |
| 91-57-6 | 2-Methylnaphthalene | 430 | < 430 U |
| 90-12-0 | 1-Methylnaphthalene | 430 | < 430 U |
| 208-96-8 | Acenaphthylene | 430 | < 430 U |
| 83-32-9 | Acenaphthene | 430 | 3,900 |
| 86-73-7 | Fluorene | 430 | 1,700 |
| 85-01-8 | Phenanthrene | 430 | 14,000 |
| 120-12-7 | Anthracene | 430 | 3,300 |
| 206-44-0 | Fluoranthene | 430 | 33,000 |
| 129-00-0 | Pyrene | 430 | 30,000 |
| 56-55-3 | Benzo (a) anthracene | 430 | 21,000 |
| 218-01-9 | Chrysene | 430 | 25,000 |
| 205-99-2 | Benzo (b) fluoranthene | 430 | 24,000 |
| 207-08-9 | Benzo (k) fluoranthene | 430 | 26,000 |
| 50-32-8 | Benzo (a) pyrene | 430 | 28,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 430 | 17,000 |
| 53-70-3 | Dibenz (a,h) anthracene | 430 | 6,500 |
| 191-24-2 | Benzo (g,h,i) perylene | 430 | 20,000 |
| 198-55-0 | Perylene | 430 | 8,100 |
| 92-52-4 | Biphenyl | 430 | < 430 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 430 | < 430 U |
| 832-69-9 | 1-Methylphenanthrene | 430 | 1,200 |
| 192-97-2 | Benzo (e) pyrene | 430 | 17,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 430 | < 430 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 102%
d14-Dibenzo (a,h) anthracen 99.3%

0027

Handwritten signature and date: 9/18/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-05-H

SAMPLE

Lab Sample ID: JQ35K

LIMS ID: 06-12966

Matrix: Sediment

Data Release Authorized: VTS

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/07/06 18:42

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 2.59 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 42.5%

pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 190 | 310 |
| 91-57-6 | 2-Methylnaphthalene | 190 | < 190 U |
| 90-12-0 | 1-Methylnaphthalene | 190 | < 190 U |
| 208-96-8 | Acenaphthylene | 190 | < 190 U |
| 83-32-9 | Acenaphthene | 190 | 1,700 |
| 86-73-7 | Fluorene | 190 | 730 |
| 85-01-8 | Phenanthrene | 190 | 6,500 |
| 120-12-7 | Anthracene | 190 | 1,500 |
| 206-44-0 | Fluoranthene | 190 | 15,000 |
| 129-00-0 | Pyrene | 190 | 14,000 |
| 56-55-3 | Benzo (a) anthracene | 190 | 9,500 |
| 218-01-9 | Chrysene | 190 | 11,000 |
| 205-99-2 | Benzo (b) fluoranthene | 190 | 11,000 |
| 207-08-9 | Benzo (k) fluoranthene | 190 | 12,000 |
| 50-32-8 | Benzo (a) pyrene | 190 | 13,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 190 | 6,400 |
| 53-70-3 | Dibenz (a,h) anthracene | 190 | 2,600 |
| 191-24-2 | Benzo (g,h,i) perylene | 190 | 6,700 |
| 198-55-0 | Perylene | 190 | 3,600 |
| 92-52-4 | Biphenyl | 190 | < 190 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 190 | < 190 U |
| 832-69-9 | 1-Methylphenanthrene | 190 | 420 |
| 192-97-2 | Benzo (e) pyrene | 190 | 7,500 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 190 | < 190 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 65.3%
d14-Dibenzo (a,h) anthracen 72.7%

0028 *[Handwritten signature]*



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-05-J

SAMPLE

Lab Sample ID: JQ35L

LIMS ID: 06-12967

Matrix: Sediment

Data Release Authorized: VTS

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/08/06 12:21

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.4 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 2.00

Percent Moisture: 20.2%

pH: 6.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 9.6 | 14 |
| 91-57-6 | 2-Methylnaphthalene | 9.6 | < 9.6 U |
| 90-12-0 | 1-Methylnaphthalene | 9.6 | < 9.6 U |
| 208-96-8 | Acenaphthylene | 9.6 | < 9.6 U |
| 83-32-9 | Acenaphthene | 9.6 | 62 |
| 86-73-7 | Fluorene | 9.6 | 26 |
| 85-01-8 | Phenanthrene | 9.6 | 230 |
| 120-12-7 | Anthracene | 9.6 | 57 |
| 206-44-0 | Fluoranthene | 9.6 | 510 |
| 129-00-0 | Pyrene | 9.6 | 490 |
| 56-55-3 | Benzo (a) anthracene | 9.6 | 330 |
| 218-01-9 | Chrysene | 9.6 | 390 |
| 205-99-2 | Benzo (b) fluoranthene | 9.6 | 400 |
| 207-08-9 | Benzo (k) fluoranthene | 9.6 | 350 |
| 50-32-8 | Benzo (a) pyrene | 9.6 | 430 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 9.6 | 270 |
| 53-70-3 | Dibenz (a,h) anthracene | 9.6 | 100 |
| 191-24-2 | Benzo (g,h,i) perylene | 9.6 | 310 |
| 198-55-0 | Perylene | 9.6 | 120 |
| 92-52-4 | Biphenyl | 9.6 | < 9.6 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 9.6 | < 9.6 U |
| 832-69-9 | 1-Methylphenanthrene | 9.6 | 19 |
| 192-97-2 | Benzo (e) pyrene | 9.6 | 250 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 9.6 | < 9.6 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

| | |
|-----------------------------|-------|
| d10-2-Methylnaphthalene | 58.4% |
| d14-Dibenzo (a,h) anthracen | 67.3% |

0029

Handwritten signature and date: 8/19/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-06-A

SAMPLE

Lab Sample ID: JQ35M

QC Report No: JQ35-Anchor Environmental

LIMS ID: 06-12968

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *VTS*

Date Sampled: 07/20/06

Reported: 08/09/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Sample Amount: 10.2 g-dry-wt

Date Analyzed: 08/07/06 19:31

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/YZ

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 48.0%

Silica Gel Cleanup: Yes

pH: 7.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 49 | 83 |
| 91-57-6 | 2-Methylnaphthalene | 49 | < 49 U |
| 90-12-0 | 1-Methylnaphthalene | 49 | < 49 U |
| 208-96-8 | Acenaphthylene | 49 | < 49 U |
| 83-32-9 | Acenaphthene | 49 | 350 |
| 86-73-7 | Fluorene | 49 | 200 |
| 85-01-8 | Phenanthrene | 49 | 1,600 |
| 120-12-7 | Anthracene | 49 | 350 |
| 206-44-0 | Fluoranthene | 49 | 3,800 |
| 129-00-0 | Pyrene | 49 | 3,200 |
| 56-55-3 | Benzo (a) anthracene | 49 | 2,000 |
| 218-01-9 | Chrysene | 49 | 2,600 |
| 205-99-2 | Benzo (b) fluoranthene | 49 | 2,600 |
| 207-08-9 | Benzo (k) fluoranthene | 49 | 2,400 |
| 50-32-8 | Benzo (a) pyrene | 49 | 2,700 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 49 | 1,300 |
| 53-70-3 | Dibenz (a, h) anthracene | 49 | 520 |
| 191-24-2 | Benzo (g, h, i) perylene | 49 | 1,400 |
| 198-55-0 | Perylene | 49 | 880 |
| 92-52-4 | Biphenyl | 49 | < 49 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 49 | < 49 U |
| 832-69-9 | 1-Methylphenanthrene | 49 | < 49 U |
| 192-97-2 | Benzo (e) pyrene | 49 | 1,600 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 49 | < 49 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatiles Surrogate Recovery

d10-2-Methylnaphthalene 66.7%
d14-Dibenzo (a, h) anthracene 75.3%

9/28/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-06-B

SAMPLE

Lab Sample ID: JQ35N

LIMS ID: 06-12969

Matrix: Sediment

Data Release Authorized: *UTS*

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/07/06 19:56

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.4 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

Percent Moisture: 23.2%

pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 4.8 | < 4.8 U |
| 91-57-6 | 2-Methylnaphthalene | 4.8 | < 4.8 U |
| 90-12-0 | 1-Methylnaphthalene | 4.8 | < 4.8 U |
| 208-96-8 | Acenaphthylene | 4.8 | < 4.8 U |
| 83-32-9 | Acenaphthene | 4.8 | < 4.8 U |
| 86-73-7 | Fluorene | 4.8 | < 4.8 U |
| 85-01-8 | Phenanthrene | 4.8 | 16 |
| 120-12-7 | Anthracene | 4.8 | < 4.8 U |
| 206-44-0 | Fluoranthene | 4.8 | 40 |
| 129-00-0 | Pyrene | 4.8 | 38 |
| 56-55-3 | Benzo (a) anthracene | 4.8 | 22 |
| 218-01-9 | Chrysene | 4.8 | 29 |
| 205-99-2 | Benzo (b) fluoranthene | 4.8 | 31 |
| 207-08-9 | Benzo (k) fluoranthene | 4.8 | 26 |
| 50-32-8 | Benzo (a) pyrene | 4.8 | 27 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 4.8 | 16 |
| 53-70-3 | Dibenz (a,h) anthracene | 4.8 | 5.8 |
| 191-24-2 | Benzo (g,h,i) perylene | 4.8 | 16 |
| 198-55-0 | Perylene | 4.8 | 11 |
| 92-52-4 | Biphenyl | 4.8 | < 4.8 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 4.8 | < 4.8 U |
| 832-69-9 | 1-Methylphenanthrene | 4.8 | < 4.8 U |
| 192-97-2 | Benzo (e) pyrene | 4.8 | 18 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 4.8 | < 4.8 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 57.3%

d14-Dibenzo (a,h) anthracene 65.7%

0031 *9/28/06*

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1



Sample ID: T4-S3-08-B

SAMPLE

Lab Sample ID: JQ350

LIMS ID: 06-12970

Matrix: Sediment

Data Release Authorized: VTS

Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/07/06 20:21

Instrument/Analyst: NT1/YZ

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 29.9%

pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 49 | 93 |
| 91-57-6 | 2-Methylnaphthalene | 49 | 49 |
| 90-12-0 | 1-Methylnaphthalene | 49 | < 49 U |
| 208-96-8 | Acenaphthylene | 49 | < 49 U |
| 83-32-9 | Acenaphthene | 49 | 550 |
| 86-73-7 | Fluorene | 49 | 260 |
| 85-01-8 | Phenanthrene | 49 | 2,100 |
| 120-12-7 | Anthracene | 49 | 500 |
| 206-44-0 | Fluoranthene | 49 | 4,900 |
| 129-00-0 | Pyrene | 49 | 4,500 |
| 56-55-3 | Benzo (a) anthracene | 49 | 3,100 |
| 218-01-9 | Chrysene | 49 | 3,800 |
| 205-99-2 | Benzo (b) fluoranthene | 49 | 4,000 |
| 207-08-9 | Benzo (k) fluoranthene | 49 | 4,100 |
| 50-32-8 | Benzo (a) pyrene | 49 | 4,400 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 49 | 2,000 |
| 53-70-3 | Dibenz (a,h) anthracene | 49 | 700 |
| 191-24-2 | Benzo (g,h,i) perylene | 49 | 2,000 |
| 198-55-0 | Perylene | 49 | 1,300 |
| 92-52-4 | Biphenyl | 49 | < 49 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 49 | < 49 U |
| 832-69-9 | 1-Methylphenanthrene | 49 | 140 |
| 192-97-2 | Benzo (e) pyrene | 49 | 2,600 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 49 | < 49 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatiles Surrogate Recovery

d10-2-Methylnaphthalene 69.0%
 d14-Dibenzo (a,h) anthracene 78.7%

0032 *[Signature]* 8/28/06



ORGANICS ANALYSIS DATA SHEET
 PNAs by SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: T4-S3-08-C
 SAMPLE

Lab Sample ID: JQ35P
 LIMS ID: 06-12971
 Matrix: Sediment
 Data Release Authorized: *VTS*
 Reported: 08/09/06

QC Report No: JQ35-Anchor Environmental
 Project: T4 EARLY ACTION
 Event: 050332-01
 Date Sampled: 07/19/06
 Date Received: 07/21/06

Date Extracted: 08/01/06
 Date Analyzed: 08/07/06 20:46
 Instrument/Analyst: NT1/YZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes

Sample Amount: 10.4 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 16.7%
 pH: 6.0

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 4.8 | 4.8 |
| 91-57-6 | 2-Methylnaphthalene | 4.8 | < 4.8 U |
| 90-12-0 | 1-Methylnaphthalene | 4.8 | < 4.8 U |
| 208-96-8 | Acenaphthylene | 4.8 | < 4.8 U |
| 83-32-9 | Acenaphthene | 4.8 | 26 |
| 86-73-7 | Fluorene | 4.8 | 14 |
| 85-01-8 | Phenanthrene | 4.8 | 120 |
| 120-12-7 | Anthracene | 4.8 | 26 |
| 206-44-0 | Fluoranthene | 4.8 | 280 |
| 129-00-0 | Pyrene | 4.8 | 250 |
| 56-55-3 | Benzo (a) anthracene | 4.8 | 170 |
| 218-01-9 | Chrysene | 4.8 | 210 |
| 205-99-2 | Benzo (b) fluoranthene | 4.8 | 240 |
| 207-08-9 | Benzo (k) fluoranthene | 4.8 | 180 J |
| 50-32-8 | Benzo (a) pyrene | 4.8 | 230 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 4.8 | 110 |
| 53-70-3 | Dibenz (a,h) anthracene | 4.8 | 40 |
| 191-24-2 | Benzo (g,h,i) perylene | 4.8 | 120 |
| 198-55-0 | Perylene | 4.8 | 71 |
| 92-52-4 | Biphenyl | 4.8 | < 4.8 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 4.8 | < 4.8 U |
| 832-69-9 | 1-Methylphenanthrene | 4.8 | 7.7 |
| 192-97-2 | Benzo (e) pyrene | 4.8 | 140 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 4.8 | < 4.8 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 50.0%
 d14-Dibenzo (a,h) anthracen 67.0%

0033
[Handwritten signature]

LDC #: 15488C2b **VALIDATION COMPLETENESS WORKSHEET**

SDG #: JQ35

Level III

Laboratory: Analytical Resources, Inc.

Date: 7/21/06

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS ^{PAHs} Semivolatiles (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| Validation Area | | Comments | |
|-----------------|--|----------|---|
| I. | Technical holding times | A | Sampling dates: 7/18 - 22 23/06 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | NO SPC. |
| IV. | Continuing calibration | A | ↓ |
| V. | Blanks | A | |
| VI. | Surrogate spikes | SW | |
| VII. | Matrix spike/Matrix spike duplicates | SW | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | N | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | SW | D=4+4-DUP. 4+4-DUP DL. 6+6-DUP. 16+16-DUP (NR5) |
| XVII. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

ML Sads

| | | | | | | | |
|----|------------|----|---------------|----|-----------|----|--|
| 1 | T4-S3-02-C | 11 | T4-S3-05-H | 21 | MB-080106 | 31 | |
| 2 | T4-S3-02-D | 12 | T4-S3-05-J | 22 | MB-080906 | 32 | |
| 3 | T4-S3-02-E | 13 | T4-S3-06-A | 23 | | 33 | |
| 4 | T4-S3-02-F | 14 | T4-S3-06-B | 24 | | 34 | |
| 5 | T4-S3-03-B | 15 | T4-S3-08-B | 25 | | 35 | |
| 6 | T4-S3-03-C | 16 | T4-S3-08-C | 26 | | 36 | |
| 7 | T4-S3-03-D | 17 | T4-S3-08-CMS | 27 | | 37 | |
| 8 | T4-S3-05-E | 18 | T4-S3-08-CMSD | 28 | | 38 | |
| 9 | T4-S3-05-F | 19 | | 29 | | 39 | |
| 10 | T4-S3-05-G | 20 | | 30 | | 40 | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
|---------------------------------|-------------------------------|----------------------------------|---------------------------------|-------------------------------------|
| B. Bis(2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. <i>perylene</i> |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. <i>Benzo(e)pyrene</i> |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. <i>1-Methylnaphthalene</i> |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. <i>2,6-Dimethylnaphthalene</i> |

XXX. 1-Methylphenanthrene
YYY. 2,3,5-Trimethylnaphthalene
ZZZ. Biphenyl

LDC#: 15488C2b
 SDG#: JQ35

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 4
 Reviewer:
 2nd Reviewer:

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | ≤ 75 |
|----------|-----------------------|------|-----|------|
| | T4-S3-02-F-DUP | 4 | | |
| S | 260 | 260U | 200 | |
| W | 160 | 260U | 200 | |
| VVV | 80 | 260U | 200 | |
| DD | 45 | 260U | 200 | |
| GG | 1400 | 720 | 64 | |
| NN | 640 | 410 | 44 | |
| UU | 5200 | 3000 | 54 | |
| VV | 1200 | 620 | 64 | |
| YY | 11000 | 6600 | 50 | |
| ZZ | 10000 | 6200 | 47 | |
| CCC | 7100 | 3700 | 63 | |
| DDD | 8800 | 4700 | 61 | |
| GGG | 9700 | 4900 | 66 | |
| HHH | 7900 | 4200 | 61 | |
| III | 9800 | 5100 | 63 | |
| JJJ | 5400 | 3200 | 51 | |
| KKK | 1900 | 1200 | 45 | |
| LLL | 6100 | 3700 | 49 | |
| TTT | 3000 | 1600 | 61 | |
| WWW | 95 | 260U | 200 | |
| XXX | 480 | 330 | 37 | |
| UUU | 5800 | 3000 | 64 | |
| YYY | 120 | 260U | 200 | |

LDC#: 15488C2b
 SDG#: JQ35

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 2 of 84
 Reviewer: CL
 2nd Reviewer: g

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?
 Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | ≤ 75 |
|----------|-----------------------|------|-----|------|
| | T4-S3-02-F-DUPDL | 4 | | |
| S | 250 | 260U | 200 | |
| W | 150 | 260U | 200 | |
| GG | 1300 | 720 | 57 | |
| NN | 620 | 410 | 41 | |
| UU | 4700 | 3000 | 44 | |
| VV | 1100 | 620 | 56 | |
| YY | 10000 | 6600 | 41 | |
| ZZ | 8900 | 6200 | 36 | |
| CCC | 6400 | 3700 | 53 | |
| DDD | 7800 | 4700 | 50 | |
| GGG | 8000 | 4900 | 48 | |
| HHH | 6700 | 4200 | 46 | |
| III | 8200 | 5100 | 47 | |
| JJJ | 5000 | 3200 | 44 | |
| KKK | 1800 | 1200 | 40 | |
| LLL | 5800 | 3700 | 44 | |
| TTT | 2500 | 1600 | 44 | |
| XXX | 380 | 330 | 14 | |
| UUU | 4900 | 3000 | 48 | |

| Compound | Concentration (ug/Kg) | | RPD | ≤ 75 |
|----------|-----------------------|-----|-----|------|
| | T4-S3-03-C-DUP | 6 | | |
| S | 98 | 69 | 35 | |
| W | 49 | 50U | 200 | |
| VV | 24 | 50U | 200 | |

LDC#: 15488C2b
 SDG#: JQ35

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 3 of 4
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?
 Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | ≤ 75 |
|----------|-----------------------|------|-----|------|
| | T4-S3-03-C-DUP | 6 | | |
| DD | 44 | 50U | 200 | |
| GG | 210 | 170 | 21 | |
| NN | 130 | 120 | 8 | |
| UU | 760 | 610 | 22 | |
| VV | 150 | 110 | 31 | |
| YY | 1600 | 1300 | 21 | |
| ZZ | 1600 | 1300 | 21 | |
| CCC | 710 | 570 | 22 | |
| DDD | 960 | 830 | 15 | |
| GGG | 880 | 730 | 19 | |
| HHH | 740 | 690 | 7 | |
| III | 910 | 790 | 14 | |
| JJJ | 550 | 490 | 12 | |
| KKK | 170 | 150 | 13 | |
| LLL | 690 | 640 | 8 | |
| TTT | 440 | 400 | 10 | |
| UUU | 560 | 510 | 9 | |
| YYY | 64 | 54 | 17 | |

| Compound | Concentration (ug/Kg) | | RPD | ≤ 75 |
|----------|-----------------------|-----|-----|------|
| | T4-S3-08-C-DUP | 16 | | |
| S | 49U | 4.8 | 200 | |
| GG | 88 | 26 | 109 | |
| NN | 59 | 14 | 123 | |
| UU | 560 | 120 | 129 | |

LDC#: 15488C2b
SDG#: JQ35

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 4 of 4
Reviewer: Q
2nd Reviewer: J

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | ≤ 75 |
|----------|-----------------------|-----|-----|------|
| | T4-S3-08-C-DUP | 16 | | |
| VV | 93 | 26 | 113 | |
| YY | 1100 | 280 | 119 | |
| ZZ | 900 | 250 | 113 | |
| CCC | 540 | 170 | 104 | |
| DDD | 780 | 210 | 115 | |
| GGG | 830 | 240 | 110 | |
| HHH | 620 | 180 | 110 | |
| III | 660 | 230 | 97 | |
| JJJ | 440 | 110 | 120 | |
| KKK | 150 | 40 | 116 | |
| LLL | 500 | 120 | 123 | |
| TTT | 280 | 71 | 119 | |
| XXX | 49U | 7.7 | 200 | |
| UUU | 490 | 140 | 111 | |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Terminal 4 Early Action
Collection Date: July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Polynuclear Aromatic Hydrocarbons
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ36

Sample Identification

T4-S3-07-B
T4-S3-07-C
T4-S3-07-D
T4-S3-07-E
T4-S3-04-A
T4-S3-04-ADL
T4-S3-04-B
T4-S3-04-BDL
T4-S3-04-C
T4-S3-04-CDL
T4-S3-04-D
T4-WB-01
T4-WB-01DL
T4-WB-02
T4-WB-03
T4-WB-04
T4-S3-07-EMS
T4-S3-07-EMSD

Introduction

This data review covers 18 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per a modification of EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all target compounds were within validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% .

All of the continuing calibration RRF values were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Compound | MS (%R) (Limits) | MSD (%R) (Limits) | RPD (Limits) | Flag | A or P |
|-------------------------------------|----------------------|---------------------|----------------------|--------------------|---|--------|
| T4-S3-07-EMS/MSD (T4-S3-07-E) | Phenanthrene | - | - | 32.2 (≤ 30) | J (all detects) UJ (all non-detects) | A |
| | Chrysene | - | 134 (35-111) | 30.2 (≤ 30) | J (all detects) UJ (all non-detects) | |
| T4-S3-07-EMS/MSD (T4-S3-07-E) | Benzo(k)fluoranthene | - | 123 (26-110) | - | J (all detects) | A |

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

| Sample | Compound | Finding | Criteria | Flag | A or P |
|--------------------------|------------------------|---|---|------------------------------------|--------|
| T4-S3-04-A T4-S3-04-B | Fluoranthene | Sample result exceeded calibration range. | Reported result should be within calibration range. | J (all detects) | A |
| T4-S3-04-C T4-WB-01 | Fluoranthene Pyrene | Sample result exceeded calibration range. | Reported result should be within calibration range. | J (all detects) J (all detects) | A |

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
 Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG JQ36**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|--------------------------|------------------------|---|--------|--|
| JQ36 | T4-WB-02 | Phenanthrene | J (all detects) UJ (all non-detects) | A | Matrix spike/Matrix spike duplicates (RPD) |
| JQ36 | T4-WB-02 | Chrysene | J (all detects) UJ (all non-detects) | A | Matrix spike/Matrix spike duplicates (%R)(RPD) |
| JQ36 | T4-WB-02 | Benzo(k)fluoranthene | J (all detects) | A | Matrix spike/Matrix spike duplicates (%R) |
| JQ36 | T4-S3-04-A T4-S3-04-B | Fluoranthene | J (all detects) | A | Compound quantitation and CRQLs |
| JQ36 | T4-S3-04-C T4-WB-01 | Fluoranthene Pyrene | J (all detects) J (all detects) | A | Compound quantitation and CRQLs |

**Terminal 4 Early Action
 Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary
 - SDG JQ36**

No Sample Data Qualified in this SDG

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-07-B
SAMPLE

Lab Sample ID: JQ36A
LIMS ID: 06-12972
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/14/06 11:56
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 46.7%
pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 50 | 120 |
| 91-57-6 | 2-Methylnaphthalene | 50 | 45 J |
| 90-12-0 | 1-Methylnaphthalene | 50 | 30 J |
| 208-96-8 | Acenaphthylene | 50 | 79 |
| 83-32-9 | Acenaphthene | 50 | 300 |
| 86-73-7 | Fluorene | 50 | 200 |
| 85-01-8 | Phenanthrene | 50 | 1,800 |
| 120-12-7 | Anthracene | 50 | 410 |
| 206-44-0 | Fluoranthene | 50 | 4,500 |
| 129-00-0 | Pyrene | 50 | 4,300 |
| 56-55-3 | Benzo (a) anthracene | 50 | 2,200 |
| 218-01-9 | Chrysene | 50 | 2,800 |
| 205-99-2 | Benzo (b) fluoranthene | 50 | 2,800 |
| 207-08-9 | Benzo (k) fluoranthene | 50 | 2,600 |
| 50-32-8 | Benzo (a) pyrene | 50 | 3,100 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 50 | 2,000 |
| 53-70-3 | Dibenz (a, h) anthracene | 50 | 620 |
| 191-24-2 | Benzo (g, h, i) perylene | 50 | 2,400 |
| 198-55-0 | Perylene | 50 | 1,000 |
| 92-52-4 | Biphenyl | 50 | < 50 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | < 50 U |
| 832-69-9 | 1-Methylphenanthrene | 50 | 140 |
| 192-97-2 | Benzo (e) pyrene | 50 | 1,900 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | 64 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 70.3%
d14-Dibenzo (a, h) anthracen 94.3%

Handwritten signature/initials
9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-07-C

SAMPLE

Lab Sample ID: JQ36B

LIMS ID: 06-12973

Matrix: Sediment

Data Release Authorized:

Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Date Analyzed: 08/09/06 10:03

Instrument/Analyst: NT1/VTS

GPC Cleanup: No

Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 45.2%

pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 49 | 54 |
| 91-57-6 | 2-Methylnaphthalene | 49 | < 49 U |
| 90-12-0 | 1-Methylnaphthalene | 49 | < 49 U |
| 208-96-8 | Acenaphthylene | 49 | < 49 U |
| 83-32-9 | Acenaphthene | 49 | 200 |
| 86-73-7 | Fluorene | 49 | 110 |
| 85-01-8 | Phenanthrene | 49 | 860 |
| 120-12-7 | Anthracene | 49 | 190 |
| 206-44-0 | Fluoranthene | 49 | 1,800 |
| 129-00-0 | Pyrene | 49 | 1,700 |
| 56-55-3 | Benzo (a) anthracene | 49 | 1,200 |
| 218-01-9 | Chrysene | 49 | 1,400 |
| 205-99-2 | Benzo (b) fluoranthene | 49 | 1,400 |
| 207-08-9 | Benzo (k) fluoranthene | 49 | 1,300 |
| 50-32-8 | Benzo (a) pyrene | 49 | 1,500 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 49 | 990 |
| 53-70-3 | Dibenz (a,h) anthracene | 49 | 370 |
| 191-24-2 | Benzo (g,h,i) perylene | 49 | 1,200 |
| 198-55-0 | Perylene | 49 | 640 |
| 92-52-4 | Biphenyl | 49 | < 49 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 49 | < 49 U |
| 832-69-9 | 1-Methylphenanthrene | 49 | 59 |
| 192-97-2 | Benzo (e) pyrene | 49 | 940 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 49 | < 49 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 54.7%

d14-Dibenzo(a,h)anthracen 68.3%

9/28/06



ORGANICS ANALYSIS DATA SHEET
 PNAs by SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: T4-S3-07-D
 SAMPLE

Lab Sample ID: JQ36C
 LIMS ID: 06-12974
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
 Project: T4 EARLY ACTION
 Event: 050332-01
 Date Sampled: 07/20/06
 Date Received: 07/21/06

Date Extracted: 08/03/06
 Date Analyzed: 08/09/06 10:28
 Instrument/Analyst: NT1/VTS
 GPC Cleanup: No
 Silica Gel Cleanup: No

Sample Amount: 10.3 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 10.0
 Percent Moisture: 34.0%
 pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 48 | 110 |
| 91-57-6 | 2-Methylnaphthalene | 48 | 63 |
| 90-12-0 | 1-Methylnaphthalene | 48 | 34 J |
| 208-96-8 | Acenaphthylene | 48 | 29 J |
| 83-32-9 | Acenaphthene | 48 | 520 |
| 86-73-7 | Fluorene | 48 | 250 |
| 85-01-8 | Phenanthrene | 48 | 2,000 |
| 120-12-7 | Anthracene | 48 | 430 |
| 206-44-0 | Fluoranthene | 48 | 4,500 |
| 129-00-0 | Pyrene | 48 | 3,800 |
| 56-55-3 | Benzo (a) anthracene | 48 | 2,600 |
| 218-01-9 | Chrysene | 48 | 3,200 |
| 205-99-2 | Benzo (b) fluoranthene | 48 | 3,400 |
| 207-08-9 | Benzo (k) fluoranthene | 48 | 2,800 |
| 50-32-8 | Benzo (a) pyrene | 48 | 3,400 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 48 | 2,100 |
| 53-70-3 | Dibenz (a,h) anthracene | 48 | 700 |
| 191-24-2 | Benzo (g,h,i) perylene | 48 | 2,400 |
| 198-55-0 | Perylene | 49 | 1,100 |
| 92-52-4 | Biphenyl | 49 | < 49 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 48 | < 48 U |
| 832-69-9 | 1-Methylphenanthrene | 48 | 140 |
| 192-97-2 | Benzo (e) pyrene | 48 | 2,100 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 48 | < 48 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 70.7%
 d14-Dibenzo(a,h)anthracen 91.0%

9/28/06

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-07-E
SAMPLE

Lab Sample ID: JQ36D
LIMS ID: 06-12975
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 11:28
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%
pH: 6.7

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 4.8 | 7.3 |
| 91-57-6 | 2-Methylnaphthalene | 4.8 | 2.9 J |
| 90-12-0 | 1-Methylnaphthalene | 4.8 | < 4.8 U |
| 208-96-8 | Acenaphthylene | 4.8 | 2.9 J |
| 83-32-9 | Acenaphthene | 4.8 | 21 |
| 86-73-7 | Fluorene | 4.8 | 13 |
| 85-01-8 | Phenanthrene | 4.8 | 90 |
| 120-12-7 | Anthracene | 4.8 | 26 |
| 206-44-0 | Fluoranthene | 4.8 | 250 |
| 129-00-0 | Pyrene | 4.8 | 250 |
| 56-55-3 | Benzo (a) anthracene | 4.8 | 140 |
| 218-01-9 | Chrysene | 4.8 | 170 |
| 205-99-2 | Benzo (b) fluoranthene | 4.8 | 160 |
| 207-08-9 | Benzo (k) fluoranthene | 4.8 | 160 |
| 50-32-8 | Benzo (a) pyrene | 4.8 | 190 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 4.8 | 120 |
| 53-70-3 | Dibenz (a,h) anthracene | 4.8 | 39 |
| 191-24-2 | Benzo (g,h,i) perylene | 4.8 | 140 |
| 198-55-0 | Perylene | 4.9 | 64 |
| 92-52-4 | Biphenyl | 4.9 | < 4.9 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 4.8 | < 4.8 U |
| 832-69-9 | 1-Methylphenanthrene | 4.8 | 8.7 |
| 192-97-2 | Benzo (e) pyrene | 4.8 | 120 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 4.8 | < 4.8 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 61.0%
d14-Dibenzo (a,h) anthracen 71.7%

Handwritten signature/initials
9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-04-A

SAMPLE

Lab Sample ID: JQ36E

LIMS ID: 06-12976

Matrix: Sediment

Data Release Authorized:

Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Date Analyzed: 08/09/06 12:42

Instrument/Analyst: NT1/VTS

GPC Cleanup: No

Silica Gel Cleanup: No

Sample Amount: 1.32 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 34.9%

pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|------------|
| 91-20-3 | Naphthalene | 380 | 720 |
| 91-57-6 | 2-Methylnaphthalene | 380 | 460 |
| 90-12-0 | 1-Methylnaphthalene | 380 | 230 J |
| 208-96-8 | Acenaphthylene | 380 | < 380 U |
| 83-32-9 | Acenaphthene | 380 | 4,600 |
| 86-73-7 | Fluorene | 380 | 1,900 |
| 85-01-8 | Phenanthrene | 380 | 18,000 |
| 120-12-7 | Anthracene | 380 | 4,000 |
| 206-44-0 | Fluoranthene | 380 | 41,000 E J |
| 129-00-0 | Pyrene | 380 | 35,000 |
| 56-55-3 | Benzo (a) anthracene | 380 | 25,000 |
| 218-01-9 | Chrysene | 380 | 31,000 |
| 205-99-2 | Benzo (b) fluoranthene | 380 | 31,000 |
| 207-08-9 | Benzo (k) fluoranthene | 380 | 27,000 |
| 50-32-8 | Benzo (a) pyrene | 380 | 33,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 380 | 20,000 |
| 53-70-3 | Dibenz (a,h) anthracene | 380 | 6,700 |
| 191-24-2 | Benzo (g,h,i) perylene | 380 | 23,000 |
| 198-55-0 | Perylene | 380 | 8,900 |
| 92-52-4 | Biphenyl | 380 | < 380 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 380 | < 380 U |
| 832-69-9 | 1-Methylphenanthrene | 380 | 1,100 |
| 192-97-2 | Benzo (e) pyrene | 380 | 19,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 380 | < 380 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 74.3%
d14-Dibenzo (a,h) anthracen 102%

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-04-A
DILUTION

Lab Sample ID: JQ36E
LIMS ID: 06-12976
Matrix: Sediment
Data Release Authorized:
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 17:06
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.32 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 20.0
Percent Moisture: 34.9%
pH: 7.2

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 760 | 830 |
| 91-57-6 | 2-Methylnaphthalene | 760 | 530 J |
| 90-12-0 | 1-Methylnaphthalene | 760 | < 760 U |
| 208-96-8 | Acenaphthylene | 760 | < 760 U |
| 83-32-9 | Acenaphthene | 760 | 4,800 |
| 86-73-7 | Fluorene | 760 | 2,300 |
| 85-01-8 | Phenanthrene | 760 | 19,000 |
| 120-12-7 | Anthracene | 760 | 4,200 |
| 206-44-0 | Fluoranthene | 760 | 42,000 |
| 129-00-0 | Pyrene | 760 | 36,000 |
| 56-55-3 | Benzo (a) anthracene | 760 | 26,000 |
| 218-01-9 | Chrysene | 760 | 32,000 |
| 205-99-2 | Benzo (b) fluoranthene | 760 | 30,000 |
| 207-08-9 | Benzo (k) fluoranthene | 760 | 28,000 |
| 50-32-8 | Benzo (a) pyrene | 760 | 33,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 760 | 18,000 |
| 53-70-3 | Dibenz (a, h) anthracene | 760 | 6,400 |
| 191-24-2 | Benzo (g, h, i) perylene | 760 | 19,000 |
| 198-55-0 | Perylene | 760 | 9,100 |
| 92-52-4 | Biphenyl | 760 | < 760 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 760 | < 760 U |
| 832-69-9 | 1-Methylphenanthrene | 760 | 1,400 |
| 192-97-2 | Benzo (e) pyrene | 760 | 19,000 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 760 | < 760 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 73.3%
d14-Dibenzo(a,h)anthracen 68.0%

Handwritten signature and date: 8/22/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-04-B

SAMPLE

Lab Sample ID: JQ36F

QC Report No: JQ36-Anchor Environmental

LIMS ID: 06-12977

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized:

Date Sampled: 07/20/06

Reported: 08/14/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/10/06 17:31

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/VTS

Dilution Factor: 1.00

GPC Cleanup: No

Percent Moisture: 22.6%

Silica Gel Cleanup: No

pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 5.0 | 13 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | 5.9 |
| 90-12-0 | 1-Methylnaphthalene | 5.0 | 3.0 J |
| 208-96-8 | Acenaphthylene | 5.0 | 3.0 J |
| 83-32-9 | Acenaphthene | 5.0 | 48 |
| 86-73-7 | Fluorene | 5.0 | 21 |
| 85-01-8 | Phenanthrene | 5.0 | 200 |
| 120-12-7 | Anthracene | 5.0 | 44 |
| 206-44-0 | Fluoranthene | 5.0 | 500 E J |
| 129-00-0 | Pyrene | 5.0 | 450 |
| 56-55-3 | Benzo (a) anthracene | 5.0 | 300 |
| 218-01-9 | Chrysene | 5.0 | 380 |
| 205-99-2 | Benzo (b) fluoranthene | 5.0 | 380 |
| 207-08-9 | Benzo (k) fluoranthene | 5.0 | 340 |
| 50-32-8 | Benzo (a) pyrene | 5.0 | 400 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 5.0 | 210 |
| 53-70-3 | Dibenz (a,h) anthracene | 5.0 | 75 |
| 191-24-2 | Benzo (g,h,i) perylene | 5.0 | 230 |
| 198-55-0 | Perylene | 5.0 | 120 |
| 92-52-4 | Biphenyl | 5.0 | < 5.0 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 5.0 | < 5.0 U |
| 832-69-9 | 1-Methylphenanthrene | 5.4 | < 5.4 Y |
| 192-97-2 | Benzo (e) pyrene | 5.0 | 240 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 5.0 | < 5.0 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 63.7%
d14-Dibenzo (a,h) anthracen 67.3%

8/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-04-B
DILUTION

Lab Sample ID: JQ36F

QC Report No: JQ36-Anchor Environmental

LIMS ID: 06-12977

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *[Signature]*

Date Sampled: 07/20/06

Reported: 08/14/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/09/06 13:07

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/VTS

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 22.6%

Silica Gel Cleanup: No

pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 50 | < 50 U |
| 91-57-6 | 2-Methylnaphthalene | 50 | < 50 U |
| 90-12-0 | 1-Methylnaphthalene | 50 | < 50 U |
| 208-96-8 | Acenaphthylene | 50 | < 50 U |
| 83-32-9 | Acenaphthene | 50 | 45 J |
| 86-73-7 | Fluorene | 50 | < 50 U |
| 85-01-8 | Phenanthrene | 50 | 220 |
| 120-12-7 | Anthracene | 50 | 54 |
| 206-44-0 | Fluoranthene | 50 | 500 |
| 129-00-0 | Pyrene | 50 | 490 |
| 56-55-3 | Benzo (a) anthracene | 50 | 310 |
| 218-01-9 | Chrysene | 50 | 380 |
| 205-99-2 | Benzo (b) fluoranthene | 50 | 430 |
| 207-08-9 | Benzo (k) fluoranthene | 50 | 310 |
| 50-32-8 | Benzo (a) pyrene | 50 | 420 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 50 | 270 |
| 53-70-3 | Dibenz (a,h) anthracene | 50 | 89 |
| 191-24-2 | Benzo (g,h,i) perylene | 50 | 330 |
| 198-55-0 | Perylene | 50 | 130 |
| 92-52-4 | Biphenyl | 50 | < 50 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | < 50 U |
| 832-69-9 | 1-Methylphenanthrene | 50 | < 50 U |
| 192-97-2 | Benzo (e) pyrene | 50 | 250 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | < 50 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 66.7%
d14-Dibenzo(a,h)anthracen 82.0%

[Handwritten Signature]

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-04-C
SAMPLE

Lab Sample ID: JQ36G
LIMS ID: 06-12978
Matrix: Sediment
Data Release Authorized: *MS*
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/10/06 17:56
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.78 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 29.3%
pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|-------------------|
| 91-20-3 | Naphthalene | 28 | 76 |
| 91-57-6 | 2-Methylnaphthalene | 28 | 42 |
| 90-12-0 | 1-Methylnaphthalene | 28 | 20 J |
| 208-96-8 | Acenaphthylene | 28 | < 28 U |
| 83-32-9 | Acenaphthene | 28 | 370 |
| 86-73-7 | Fluorene | 28 | 160 |
| 85-01-8 | Phenanthrene | 28 | 1,400 |
| 120-12-7 | Anthracene | 28 | 320 |
| 206-44-0 | Fluoranthene | 28 | 3,200 E <i>LU</i> |
| 129-00-0 | Pyrene | 28 | 3,000 E <i>LU</i> |
| 56-55-3 | Benzo (a) anthracene | 28 | 2,200 |
| 218-01-9 | Chrysene | 28 | 2,600 |
| 205-99-2 | Benzo (b) fluoranthene | 28 | 2,500 |
| 207-08-9 | Benzo (k) fluoranthene | 28 | 2,400 |
| 50-32-8 | Benzo (a) pyrene | 28 | 2,800 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 28 | 1,500 |
| 53-70-3 | Dibenz (a,h) anthracene | 28 | 560 |
| 191-24-2 | Benzo (g,h,i) perylene | 28 | 1,600 |
| 198-55-0 | Perylene | 28 | 840 |
| 92-52-4 | Biphenyl | 28 | < 28 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 28 | < 28 U |
| 832-69-9 | 1-Methylphenanthrene | 28 | 100 |
| 192-97-2 | Benzo (e) pyrene | 28 | 1,700 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 28 | < 28 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 59.0%
d14-Dibenzo(a,h)anthracen 62.7%

9/7/06

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-04-C
DILUTION

Lab Sample ID: JQ36G
LIMS ID: 06-12978
Matrix: Sediment
Data Release Authorized: *AB*
Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Date Extracted: 08/03/06
Date Analyzed: 08/09/06 13:32
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount: 1.78 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 29.3%
pH: 6.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 280 | < 280 U |
| 91-57-6 | 2-Methylnaphthalene | 280 | < 280 U |
| 90-12-0 | 1-Methylnaphthalene | 280 | < 280 U |
| 208-96-8 | Acenaphthylene | 280 | < 280 U |
| 83-32-9 | Acenaphthene | 280 | 360 |
| 86-73-7 | Fluorene | 280 | 200 J |
| 85-01-8 | Phenanthrene | 280 | 1,400 |
| 120-12-7 | Anthracene | 280 | 310 |
| 206-44-0 | Fluoranthene | 280 | 3,400 |
| 129-00-0 | Pyrene | 280 | 3,000 |
| 56-55-3 | Benzo (a) anthracene | 280 | 2,100 |
| 218-01-9 | Chrysene | 280 | 2,700 |
| 205-99-2 | Benzo (b) fluoranthene | 280 | 2,500 |
| 207-08-9 | Benzo (k) fluoranthene | 280 | 2,400 |
| 50-32-8 | Benzo (a) pyrene | 280 | 2,700 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 280 | 1,700 |
| 53-70-3 | Dibenz (a,h) anthracene | 280 | 670 |
| 191-24-2 | Benzo (g,h,i) perylene | 280 | 2,000 |
| 198-55-0 | Perylene | 280 | 870 |
| 92-52-4 | Biphenyl | 280 | < 280 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 280 | < 280 U |
| 832-69-9 | 1-Methylphenanthrene | 280 | < 280 U |
| 192-97-2 | Benzo (e) pyrene | 280 | 1,700 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 280 | < 280 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.0%
d14-Dibenzo(a,h)anthracen 67.3%

9/28/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-04-D
SAMPLE

Lab Sample ID: JQ36H

LIMS ID: 06-12979

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Date Analyzed: 08/10/06 18:21

Instrument/Analyst: NT1/VTS

GPC Cleanup: No

Silica Gel Cleanup: No

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

Percent Moisture: 21.3%

pH: 6.3

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 4.9 | 6.4 |
| 91-57-6 | 2-Methylnaphthalene | 4.9 | 3.9 J |
| 90-12-0 | 1-Methylnaphthalene | 4.9 | < 4.9 U |
| 208-96-8 | Acenaphthylene | 4.9 | < 4.9 U |
| 83-32-9 | Acenaphthene | 4.9 | 29 |
| 86-73-7 | Fluorene | 4.9 | 18 |
| 85-01-8 | Phenanthrene | 4.9 | 130 |
| 120-12-7 | Anthracene | 4.9 | 25 |
| 206-44-0 | Fluoranthene | 4.9 | 250 |
| 129-00-0 | Pyrene | 4.9 | 220 |
| 56-55-3 | Benzo (a) anthracene | 4.9 | 160 |
| 218-01-9 | Chrysene | 4.9 | 200 |
| 205-99-2 | Benzo (b) fluoranthene | 4.9 | 180 |
| 207-08-9 | Benzo (k) fluoranthene | 4.9 | 190 |
| 50-32-8 | Benzo (a) pyrene | 4.9 | 200 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 4.9 | 120 |
| 53-70-3 | Dibenz (a, h) anthracene | 4.9 | 48 |
| 191-24-2 | Benzo (g, h, i) perylene | 4.9 | 140 |
| 198-55-0 | Perylene | 4.9 | 61 |
| 92-52-4 | Biphenyl | 4.9 | < 4.9 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 4.9 | < 4.9 U |
| 832-69-9 | 1-Methylphenanthrene | 4.9 | 7.8 |
| 192-97-2 | Benzo (e) pyrene | 4.9 | 130 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 4.9 | < 4.9 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 62.3%
d14-Dibenzo (a, h) anthracen 68.7%

0026

[Handwritten Signature]



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-WB-01
SAMPLE

Lab Sample ID: JQ36I

QC Report No: JQ36-Anchor Environmental

LIMS ID: 06-12980

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *[Signature]*

Date Sampled: 07/20/06

Reported: 08/14/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Sample Amount: 10.2 g-dry-wt

Date Analyzed: 08/10/06 18:45

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/VTS

Dilution Factor: 1.00

GPC Cleanup: No

Percent Moisture: 56.7%

Silica Gel Cleanup: No

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 4.9 | 20 |
| 91-57-6 | 2-Methylnaphthalene | 4.9 | 11 |
| 90-12-0 | 1-Methylnaphthalene | 4.9 | 5.9 |
| 208-96-8 | Acenaphthylene | 4.9 | 13 |
| 83-32-9 | Acenaphthene | 4.9 | 41 |
| 86-73-7 | Fluorene | 4.9 | 27 |
| 85-01-8 | Phenanthrene | 4.9 | 240 |
| 120-12-7 | Anthracene | 4.9 | 68 |
| 206-44-0 | Fluoranthene | 4.9 | 570 E |
| 129-00-0 | Pyrene | 4.9 | 500 E |
| 56-55-3 | Benzo (a) anthracene | 4.9 | 280 |
| 218-01-9 | Chrysene | 4.9 | 390 |
| 205-99-2 | Benzo (b) fluoranthene | 4.9 | 420 |
| 207-08-9 | Benzo (k) fluoranthene | 4.9 | 320 |
| 50-32-8 | Benzo (a) pyrene | 4.9 | 400 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 4.9 | 200 |
| 53-70-3 | Dibenz (a, h) anthracene | 4.9 | 71 |
| 191-24-2 | Benzo (g, h, i) perylene | 4.9 | 210 |
| 198-55-0 | Perylene | 4.9 | 160 |
| 92-52-4 | Biphenyl | 4.9 | < 4.9 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 4.9 | 6.4 |
| 832-69-9 | 1-Methylphenanthrene | 4.9 | 16 |
| 192-97-2 | Benzo (e) pyrene | 4.9 | 250 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 4.9 | 5.4 |

Handwritten: 50

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 52.0%
d14-Dibenzo (a, h) anthracene 51.7%

0027 *Handwritten: 8/28/06*

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-WB-01

DILUTION

Lab Sample ID: JQ36I

QC Report No: JQ36-Anchor Environmental

LIMS ID: 06-12980

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *[Signature]*

Date Sampled: 07/20/06

Reported: 08/14/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Sample Amount: 10.2 g-dry-wt

Date Analyzed: 08/09/06 14:21

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/VTS

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 56.7%

Silica Gel Cleanup: No

pH: 7.1

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 49 | < 49 U |
| 91-57-6 | 2-Methylnaphthalene | 49 | < 49 U |
| 90-12-0 | 1-Methylnaphthalene | 49 | < 49 U |
| 208-96-8 | Acenaphthylene | 49 | < 49 U |
| 83-32-9 | Acenaphthene | 49 | 44 J |
| 86-73-7 | Fluorene | 49 | < 49 U |
| 85-01-8 | Phenanthrene | 49 | 240 |
| 120-12-7 | Anthracene | 49 | 74 |
| 206-44-0 | Fluoranthene | 49 | 560 |
| 129-00-0 | Pyrene | 49 | 550 |
| 56-55-3 | Benzo (a) anthracene | 49 | 280 |
| 218-01-9 | Chrysene | 49 | 410 |
| 205-99-2 | Benzo (b) fluoranthene | 49 | 390 |
| 207-08-9 | Benzo (k) fluoranthene | 49 | 320 |
| 50-32-8 | Benzo (a) pyrene | 49 | 390 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 49 | 280 |
| 53-70-3 | Dibenz (a,h) anthracene | 49 | 78 |
| 191-24-2 | Benzo (g,h,i) perylene | 49 | 330 |
| 198-55-0 | Perylene | 49 | 170 |
| 92-52-4 | Biphenyl | 49 | < 49 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 49 | < 49 U |
| 832-69-9 | 1-Methylphenanthrene | 49 | < 49 U |
| 192-97-2 | Benzo (e) pyrene | 49 | 260 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 49 | < 49 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 48.7%
d14-Dibenzo(a,h)anthracen 69.3%

[Handwritten Signature]
9/28/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-WB-02

SAMPLE

Lab Sample ID: JQ36J

QC Report No: JQ36-Anchor Environmental

LIMS ID: 06-12981

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized:

Date Sampled: 07/20/06

Reported: 08/14/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/10/06 19:10

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/VTS

Dilution Factor: 1.00

GPC Cleanup: No

Percent Moisture: 40.8%

Silica Gel Cleanup: No

pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 5.0 | 12 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | 5.4 |
| 90-12-0 | 1-Methylnaphthalene | 5.0 | 4.0 J |
| 208-96-8 | Acenaphthylene | 5.0 | 13 |
| 83-32-9 | Acenaphthene | 5.0 | 8.4 |
| 86-73-7 | Fluorene | 5.0 | 8.9 |
| 85-01-8 | Phenanthrene | 5.0 | 96 J |
| 120-12-7 | Anthracene | 5.0 | 25 |
| 206-44-0 | Fluoranthene | 5.0 | 280 |
| 129-00-0 | Pyrene | 5.0 | 290 |
| 56-55-3 | Benzo (a) anthracene | 5.0 | 120 |
| 218-01-9 | Chrysene | 5.0 | 190 J |
| 205-99-2 | Benzo (b) fluoranthene | 5.0 | 160 |
| 207-08-9 | Benzo (k) fluoranthene | 5.0 | 150 J |
| 50-32-8 | Benzo (a) pyrene | 5.0 | 190 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 5.0 | 81 |
| 53-70-3 | Dibenz (a,h) anthracene | 5.0 | 20 |
| 191-24-2 | Benzo (g,h,i) perylene | 5.0 | 94 |
| 198-55-0 | Perylene | 5.0 | 71 |
| 92-52-4 | Biphenyl | 5.0 | < 5.0 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 5.0 | 5.0 |
| 832-69-9 | 1-Methylphenanthrene | 5.0 | 10 |
| 192-97-2 | Benzo (e) pyrene | 5.0 | 120 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 5.0 | 12 |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 59.0%
d14-Dibenzo (a,h) anthracen 48.0%

0029

9/28/06

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-WB-03

SAMPLE

Lab Sample ID: JQ36K

QC Report No: JQ36-Anchor Environmental

LIMS ID: 06-12982

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *[Signature]*

Date Sampled: 07/20/06

Reported: 08/14/06

Date Received: 07/21/06

Date Extracted: 08/03/06

Sample Amount: 10.1 g-dry-wt

Date Analyzed: 08/10/06 19:35

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/VTS

Dilution Factor: 1.00

GPC Cleanup: No

Percent Moisture: 55.1%

Silica Gel Cleanup: No

pH: 6.9

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 5.0 | 25 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | 12 |
| 90-12-0 | 1-Methylnaphthalene | 5.0 | 5.9 |
| 208-96-8 | Acenaphthylene | 5.0 | 15 |
| 83-32-9 | Acenaphthene | 5.0 | 32 |
| 86-73-7 | Fluorene | 5.0 | 25 |
| 85-01-8 | Phenanthrene | 5.0 | 190 |
| 120-12-7 | Anthracene | 5.0 | 79 |
| 206-44-0 | Fluoranthene | 5.0 | 460 |
| 129-00-0 | Pyrene | 5.0 | 440 |
| 56-55-3 | Benzo (a) anthracene | 5.0 | 230 |
| 218-01-9 | Chrysene | 5.0 | 330 |
| 205-99-2 | Benzo (b) fluoranthene | 5.0 | 300 |
| 207-08-9 | Benzo (k) fluoranthene | 5.0 | 260 |
| 50-32-8 | Benzo (a) pyrene | 5.0 | 310 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 5.0 | 120 |
| 53-70-3 | Dibenz (a,h) anthracene | 5.0 | 42 |
| 191-24-2 | Benzo (g,h,i) perylene | 5.0 | 140 |
| 198-55-0 | Perylene | 5.0 | 150 |
| 92-52-4 | Biphenyl | 5.0 | < 5.0 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 5.0 | 6.9 |
| 832-69-9 | 1-Methylphenanthrene | 5.0 | 16 |
| 192-97-2 | Benzo (e) pyrene | 5.0 | 200 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 5.0 | 5.0 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 54.3%
d14-Dibenzo (a,h) anthracen 44.0%

0030

[Handwritten signature]
9/28/06



ORGANICS ANALYSIS DATA SHEET
 PNAs by SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: T4-WB-04
 SAMPLE

Lab Sample ID: JQ36L
 LIMS ID: 06-12983
 Matrix: Sediment
 Data Release Authorized: *AS*
 Reported: 08/14/06

QC Report No: JQ36-Anchor Environmental
 Project: T4 EARLY ACTION
 Event: 050332-01
 Date Sampled: 07/20/06
 Date Received: 07/21/06

Date Extracted: 08/03/06
 Date Analyzed: 08/10/06 20:00
 Instrument/Analyst: NT1/VTS
 GPC Cleanup: No
 Silica Gel Cleanup: No

Sample Amount: 10.0 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 53.4%
 pH: 6.5

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 5.0 | 20 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | 9.0 |
| 90-12-0 | 1-Methylnaphthalene | 5.0 | 5.0 |
| 208-96-8 | Acenaphthylene | 5.0 | 14 |
| 83-32-9 | Acenaphthene | 5.0 | 22 |
| 86-73-7 | Fluorene | 5.0 | 18 |
| 85-01-8 | Phenanthrene | 5.0 | 120 |
| 120-12-7 | Anthracene | 5.0 | 48 |
| 206-44-0 | Fluoranthene | 5.0 | 290 |
| 129-00-0 | Pyrene | 5.0 | 280 |
| 56-55-3 | Benzo(a)anthracene | 5.0 | 130 |
| 218-01-9 | Chrysene | 5.0 | 190 |
| 205-99-2 | Benzo(b)fluoranthene | 5.0 | 150 |
| 207-08-9 | Benzo(k)fluoranthene | 5.0 | 160 |
| 50-32-8 | Benzo(a)pyrene | 5.0 | 160 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 5.0 | 70 |
| 53-70-3 | Dibenz(a,h)anthracene | 5.0 | 23 |
| 191-24-2 | Benzo(g,h,i)perylene | 5.0 | 79 |
| 198-55-0 | Perylene | 5.0 | 88 |
| 92-52-4 | Biphenyl | 5.0 | < 5.0 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 5.0 | 6.5 |
| 832-69-9 | 1-Methylphenanthrene | 5.0 | 12 |
| 192-97-2 | Benzo(e)pyrene | 5.0 | 110 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 5.0 | < 5.0 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 49.3%
 d14-Dibenzo(a,h)anthracen 35.3%

0031

9/28/06

LDC #: 15488D2b

VALIDATION COMPLETENESS WORKSHEET

SDG #: JQ36

Level III

Laboratory: Analytical Resources, Inc.

Date: 7/20/06

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| Validation Area | | | Comments |
|-----------------|--|----|-------------------------|
| I. | Technical holding times | A | Sampling dates: 7/20/06 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | NO SPEC |
| IV. | Continuing calibration | A | ↓ |
| V. | Blanks | A | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | SW | |
| VIII. | Laboratory control samples | A | LCS |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | SW | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | N | |
| XVII. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

Musedo

| | | | | | | | |
|----|--------------|----|---------------|----|-----------|----|--|
| 1 | T4-S3-07-B | 11 | T4-S3-04-D | 21 | MB-080306 | 31 | |
| 2 | T4-S3-07-C | 12 | T4-WB-01 | 22 | | 32 | |
| 3 | T4-S3-07-D | 13 | T4-WB-01DL | 23 | | 33 | |
| 4 | T4-S3-07-E | 14 | T4-WB-02 | 24 | | 34 | |
| 5 | T4-S3-04-A | 15 | T4-WB-03 | 25 | | 35 | |
| 6 | T4-S3-04-ADL | 16 | T4-WB-04 | 26 | | 36 | |
| 7 | T4-S3-04-B | 17 | T4-S3-07-EMS | 27 | | 37 | |
| 8 | T4-S3-04-BDL | 18 | T4-S3-07-EMSD | 28 | | 38 | |
| 9 | T4-S3-04-C | 19 | | 29 | | 39 | |
| 10 | T4-S3-04-CDL | 20 | | 30 | | 40 | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
|---------------------------------|-------------------------------|----------------------------------|---------------------------------|----------------------------------|
| B. Bis(2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. <i>perylene</i> |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. <i>Benzo(e)pyrene</i> |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene / | WWW. |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 19, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Polynuclear Aromatic Hydrocarbons
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): JQ52

Sample Identification

T4-S3-02-F-DUP
T4-S3-02-F-DUPDL
T4-S3-03-C-DUP
T4-B414-02-A-DUP
T4-S3-08-C-DUP

Introduction

This data review covers 5 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per a modification of EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all target compounds were within validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% .

All of the continuing calibration RRF values were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for sample T4-S3-02-F-DUPDL. Since the sample was diluted out, no data were qualified.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since there were no associated samples, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

| Sample | Compound | Finding | Criteria | Flag | A or P |
|----------------|--|---|---|--|--------|
| T4-S3-02-F-DUP | Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Benzo(e)pyrene | Sample result exceeded calibration range. | Reported result should be within calibration range. | J (all detects) J (all detects) | A |

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples T4-S3-02-F (from SDG JQ35) and T4-S3-02-F-DUP, samples T4-S3-02-F (from SDG JQ35) and T4-S3-02-F-DUPDL, samples T4-S3-03-C (from SDG JQ35) and T4-S3-03-C-DUP, samples T4-B414-02-A (from SDG JQ33) and T4-B414-02-A-DUP, and samples T4-S3-08-C (from SDG JQ35) and T4-S3-08-C-DUP were identified as field duplicates. No polynuclear aromatic hydrocarbons were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|------------------------|-----------------------|------------|-------------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Naphthalene | 260 | 260U | 200 (≤ 75) |
| 2-Methylnaphthalene | 160 | 260U | 200 (≤ 75) |
| 1-Methylnaphthalene | 80 | 260U | 200 (≤ 75) |
| Acenaphthylene | 45 | 260U | 200 (≤ 75) |
| Acenaphthene | 1400 | 720 | 64 (≤ 75) |
| Fluorene | 640 | 410 | 44 (≤ 75) |
| Phenanthrene | 5200 | 3000 | 54 (≤ 75) |
| Anthracene | 1200 | 620 | 64 (≤ 75) |
| Fluoranthene | 11000 | 6600 | 50 (≤ 75) |
| Pyrene | 10000 | 6200 | 47 (≤ 75) |
| Benzo(a)anthracene | 7100 | 3700 | 63 (≤ 75) |
| Chrysene | 8800 | 4700 | 61 (≤ 75) |
| Benzo(b)fluoranthene | 9700 | 4900 | 66 (≤ 75) |
| Benzo(k)fluoranthene | 7900 | 4200 | 61 (≤ 75) |
| Benzo(a)pyrene | 9800 | 5100 | 63 (≤ 75) |
| Indeno(1,2,3-cd)pyrene | 5400 | 3200 | 51 (≤ 75) |
| Dibenz(a,h)anthracene | 1900 | 1200 | 45 (≤ 75) |
| Benzo(g,h,i)perylene | 6100 | 3700 | 49 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|-------------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Perylene | 3000 | 1600 | 61 (≤ 75) |
| 2,6-Dimethylnaphthalene | 95 | 260U | 200 (≤ 75) |
| 1-Methylphenanthrene | 480 | 330 | 37 (≤ 75) |
| Benzo(e)pyrene | 5800 | 3000 | 64 (≤ 75) |
| 2,3,5-Trimethylnaphthalene | 120 | 260U | 200 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|------------------------|-----------------------|------------|-------------------|
| | T4-S3-02-F-DUPDL | T4-S3-02-F | |
| Naphthalene | 250 | 260U | 200 (≤ 75) |
| 2-Methylnaphthalene | 150 | 260U | 200 (≤ 75) |
| Acenaphthene | 1300 | 720 | 57 (≤ 75) |
| Fluorene | 620 | 410 | 41 (≤ 75) |
| Phenanthrene | 4700 | 3000 | 44 (≤ 75) |
| Anthracene | 1100 | 620 | 56 (≤ 75) |
| Fluoranthene | 10000 | 6600 | 41 (≤ 75) |
| Pyrene | 8900 | 6200 | 36 (≤ 75) |
| Benzo(a)anthracene | 6400 | 3700 | 53 (≤ 75) |
| Chrysene | 7800 | 4700 | 50 (≤ 75) |
| Benzo(b)fluoranthene | 8000 | 4900 | 48 (≤ 75) |
| Benzo(k)fluoranthene | 6700 | 4200 | 46 (≤ 75) |
| Benzo(a)pyrene | 8200 | 5100 | 47 (≤ 75) |
| Indeno(1,2,3-cd)pyrene | 5000 | 3200 | 44 (≤ 75) |
| Dibenz(a,h)anthracene | 1800 | 1200 | 40 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------|-----------------------|------------|--------------|
| | T4-S3-02-F-DUPDL | T4-S3-02-F | |
| Benzo(g,h,i)perylene | 5800 | 3700 | 44 (≤75) |
| Perylene | 2500 | 1600 | 44 (≤75) |
| 1-Methylphenanthrene | 380 | 330 | 14 (≤75) |
| Benzo(e)pyrene | 4900 | 3000 | 48 (≤75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|------------------------|-----------------------|------------|--------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Naphthalene | 98 | 69 | 35 (≤75) |
| 2-Methylnaphthalene | 49 | 50U | 200 (≤75) |
| 1-Methylnaphthalene | 24 | 50U | 200 (≤75) |
| Acenaphthylene | 44 | 50U | 200 (≤75) |
| Acenaphthene | 210 | 170 | 21 (≤75) |
| Fluorene | 130 | 120 | 8 (≤75) |
| Phenanthrene | 760 | 610 | 22 (≤75) |
| Anthracene | 150 | 110 | 31 (≤75) |
| Fluoranthene | 1600 | 1300 | 21 (≤75) |
| Pyrene | 1600 | 1300 | 21 (≤75) |
| Benzo(a)anthracene | 710 | 570 | 22 (≤75) |
| Chrysene | 960 | 830 | 15 (≤75) |
| Benzo(b)fluoranthene | 880 | 730 | 19 (≤75) |
| Benzo(k)fluoranthene | 740 | 690 | 7 (≤75) |
| Benzo(a)pyrene | 910 | 790 | 14 (≤75) |
| Indeno(1,2,3-cd)pyrene | 550 | 490 | 12 (≤75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------|------------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Dibenz(a,h)anthracene | 170 | 150 | 13 (≤ 75) |
| Benzo(g,h,i)perylene | 690 | 640 | 8 (≤ 75) |
| Perylene | 440 | 400 | 10 (≤ 75) |
| Benzo(e)pyrene | 560 | 510 | 9 (≤ 75) |
| 2,3,5-Trimethylnaphthalene | 64 | 54 | 17 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|------------------------|-----------------------|------------------|-------------------|
| | T4-B414-02-A | T4-B414-02-A-DUP | |
| Naphthalene | 48U | 180 | 200 (≤ 75) |
| 2-Methylnaphthalene | 48U | 89 | 200 (≤ 75) |
| Isopropylbenzene | 48U | 50 | 200 (≤ 75) |
| Acenaphthene | 120 | 540 | 127 (≤ 75) |
| Fluorene | 48 | 220 | 128 (≤ 75) |
| Phenanthrene | 420 | 1900 | 128 (≤ 75) |
| Anthracene | 81 | 310 | 117 (≤ 75) |
| Fluoranthene | 980 | 3900 | 120 (≤ 75) |
| Pyrene | 920 | 3000 | 106 (≤ 75) |
| Benzo(a)anthracene | 660 | 1800 | 93 (≤ 75) |
| Chrysene | 840 | 2600 | 102 (≤ 75) |
| Benzo(b)fluoranthene | 1100 | 2800 | 87 (≤ 75) |
| Benzo(k)fluoranthene | 840 | 2200 | 89 (≤ 75) |
| Benzo(a)pyrene | 1000 | 2400 | 82 (≤ 75) |
| Indeno(1,2,3-cd)pyrene | 660 | 1500 | 78 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|----------------------------|-----------------------|------------------|-------------------|
| | T4-B414-02-A | T4-B414-02-A-DUP | |
| Dibenz(a,h)anthracene | 240 | 510 | 72 (≤ 75) |
| Benzo(g,h,i)perylene | 770 | 1700 | 75 (≤ 75) |
| Perylene | 300 | 870 | 97 (≤ 75) |
| Biphenyl | 48U | 150 | 200 (≤ 75) |
| 1-Methylphenanthrene | 48U | 110 | 200 (≤ 75) |
| Benzo(e)pyrene | 630 | 1600 | 87 (≤ 75) |
| 2,3,5-Trimethylnaphthalene | 48U | 54 | 200 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|------------------------|-----------------------|------------|-------------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Naphthalene | 49U | 4.8 | 200 (≤ 75) |
| Acenaphthene | 88 | 26 | 109 (≤ 75) |
| Fluorene | 59 | 14 | 123 (≤ 75) |
| Phenanthrene | 560 | 120 | 129 (≤ 75) |
| Anthracene | 93 | 26 | 0 (≤ 75) |
| Fluoranthene | 1100 | 280 | 0 (≤ 75) |
| Pyrene | 900 | 250 | 113 (≤ 75) |
| Benzo(a)anthracene | 540 | 170 | 104 (≤ 75) |
| Chrysene | 780 | 210 | 115 (≤ 75) |
| Benzo(b)fluoranthene | 830 | 240 | 110 (≤ 75) |
| Benzo(k)fluoranthene | 620 | 180 | 110 (≤ 75) |
| Benzo(a)pyrene | 660 | 230 | 97 (≤ 75) |
| Indeno(1,2,3-cd)pyrene | 440 | 110 | 120 (≤ 75) |

| Compound | Concentration (ug/Kg) | | RPD (Limits) |
|-----------------------|-----------------------|------------|-------------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Dibenz(a,h)anthracene | 150 | 40 | 116 (≤ 75) |
| Benzo(g,h,i)perylene | 500 | 120 | 123 (≤ 75) |
| Perylene | 280 | 71 | 119 (≤ 75) |
| 1-Methylphenanthrene | 49U | 7.7 | 200 (≤ 75) |
| Benzo(e)pyrene | 490 | 140 | 111 (≤ 75) |

XVII. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
 Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG JQ52**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|----------------|--|---|--------|---------------------------------|
| JQ52 | T4-S3-02-F-DUP | Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Benzo(e)pyrene | J (all detects) J (all detects) | A | Compound quantitation and CRQLs |

**Terminal 4 Early Action
 Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary
 - SDG JQ52**

No Sample Data Qualified in this SDG

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-02-F-DUP

SAMPLE

Lab Sample ID: JQ52A

QC Report No: JQ52-Anchor Environmental

LIMS ID: 06-13102

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *[Signature]*

Date Sampled: 07/18/06

Reported: 08/10/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Sample Amount: 10.0 g-dry-wt

Date Analyzed: 08/08/06 12:46

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/VTS

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 45.9%

Silica Gel Cleanup: Yes

pH: 6.6

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|------------|
| 91-20-3 | Naphthalene | 50 | 260 |
| 91-57-6 | 2-Methylnaphthalene | 50 | 160 |
| 90-12-0 | 1-Methylnaphthalene | 50 | 80 |
| 208-96-8 | Acenaphthylene | 50 | 45 J |
| 83-32-9 | Acenaphthene | 50 | 1,400 |
| 86-73-7 | Fluorene | 50 | 640 |
| 85-01-8 | Phenanthrene | 50 | 5,200 E J |
| 120-12-7 | Anthracene | 50 | 1,200 |
| 206-44-0 | Fluoranthene | 50 | 11,000 E J |
| 129-00-0 | Pyrene | 50 | 10,000 E |
| 56-55-3 | Benzo (a) anthracene | 50 | 7,100 E |
| 218-01-9 | Chrysene | 50 | 8,800 E |
| 205-99-2 | Benzo (b) fluoranthene | 50 | 9,700 E |
| 207-08-9 | Benzo (k) fluoranthene | 50 | 7,900 E |
| 50-32-8 | Benzo (a) pyrene | 50 | 9,800 E |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 50 | 5,400 E |
| 53-70-3 | Dibenz (a, h) anthracene | 50 | 1,900 |
| 191-24-2 | Benzo (g, h, i) perylene | 50 | 6,100 E J |
| 198-55-0 | Perylene | 50 | 3,000 |
| 92-52-4 | Biphenyl | 50 | < 50 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 50 | 95 |
| 832-69-9 | 1-Methylphenanthrene | 50 | 480 |
| 192-97-2 | Benzo (e) pyrene | 50 | 5,800 E J |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 50 | 120 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.7%

d14-Dibenzo (a, h) anthracen 61.0%

[Handwritten signature]
9/2/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-02-F-DUP
DILUTION

Lab Sample ID: JQ52A

LIMS ID: 06-13102

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/09/06 16:00

Instrument/Analyst: NT1/VTS

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 50.0

Percent Moisture: 45.9%

pH: 6.6

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 250 | 250 J |
| 91-57-6 | 2-Methylnaphthalene | 250 | 150 J |
| 90-12-0 | 1-Methylnaphthalene | 250 | < 250 U |
| 208-96-8 | Acenaphthylene | 250 | < 250 U |
| 83-32-9 | Acenaphthene | 250 | 1,300 |
| 86-73-7 | Fluorene | 250 | 620 |
| 85-01-8 | Phenanthrene | 250 | 4,700 |
| 120-12-7 | Anthracene | 250 | 1,100 |
| 206-44-0 | Fluoranthene | 250 | 10,000 |
| 129-00-0 | Pyrene | 250 | 8,900 |
| 56-55-3 | Benzo (a) anthracene | 250 | 6,400 |
| 218-01-9 | Chrysene | 250 | 7,800 |
| 205-99-2 | Benzo (b) fluoranthene | 250 | 8,000 |
| 207-08-9 | Benzo (k) fluoranthene | 250 | 6,700 |
| 50-32-8 | Benzo (a) pyrene | 250 | 8,200 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 250 | 5,000 |
| 53-70-3 | Dibenz (a,h) anthracene | 250 | 1,800 |
| 191-24-2 | Benzo (g,h,i) perylene | 250 | 5,800 |
| 198-55-0 | Perylene | 250 | 2,500 |
| 92-52-4 | Biphenyl | 250 | < 250 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 250 | < 250 U |
| 832-69-9 | 1-Methylphenanthrene | 250 | 380 |
| 192-97-2 | Benzo (e) pyrene | 250 | 4,900 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 250 | < 250 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene D
d14-Dibenzo (a,h) anthracen D

[Handwritten signature]
9/28/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-03-C-DUP
SAMPLE

Lab Sample ID: JQ52B

LIMS ID: 06-13103

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/10/06

QC Report No: JQ52-Anchor Environmental

Project: T4 EARLY ACTION

Event: 050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Date Analyzed: 08/08/06 13:11

Instrument/Analyst: NT1/VTS

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 10.0

Percent Moisture: 41.8%

pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|-----|---------|
| 91-20-3 | Naphthalene | 49 | 98 |
| 91-57-6 | 2-Methylnaphthalene | 49 | 49 |
| 90-12-0 | 1-Methylnaphthalene | 49 | 24 J |
| 208-96-8 | Acenaphthylene | 49 | 44 J |
| 83-32-9 | Acenaphthene | 49 | 210 |
| 86-73-7 | Fluorene | 49 | 130 |
| 85-01-8 | Phenanthrene | 49 | 760 |
| 120-12-7 | Anthracene | 49 | 150 |
| 206-44-0 | Fluoranthene | 49 | 1,600 |
| 129-00-0 | Pyrene | 49 | 1,600 |
| 56-55-3 | Benzo(a)anthracene | 49 | 710 |
| 218-01-9 | Chrysene | 49 | 960 |
| 205-99-2 | Benzo(b)fluoranthene | 49 | 880 |
| 207-08-9 | Benzo(k)fluoranthene | 49 | 740 |
| 50-32-8 | Benzo(a)pyrene | 49 | 910 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 49 | 550 |
| 53-70-3 | Dibenz(a,h)anthracene | 49 | 170 |
| 191-24-2 | Benzo(g,h,i)perylene | 49 | 690 |
| 198-55-0 | Perylene | 49 | 440 |
| 92-52-4 | Biphenyl | 49 | < 49 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 49 | < 49 U |
| 832-69-9 | 1-Methylphenanthrene | 110 | < 110 Y |
| 192-97-2 | Benzo(e)pyrene | 49 | 560 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 49 | 64 |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.7%

d14-Dibenzo(a,h)anthracene 66.0%

0014

e
9/25/06



ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-B414-02-A-DUP

SAMPLE

Lab Sample ID: JQ52C

QC Report No: JQ52-Anchor Environmental

LIMS ID: 06-13104

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized:

Date Sampled: 07/19/06

Reported: 08/10/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Sample Amount: 10.5 g-dry-wt

Date Analyzed: 08/08/06 19:47

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/VTS

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 50.1%

Silica Gel Cleanup: Yes

pH: 6.4

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 48 | < 48 U |
| 91-57-6 | 2-Methylnaphthalene | 48 | < 48 U |
| 90-12-0 | 1-Methylnaphthalene | 48 | < 48 U |
| 208-96-8 | Acenaphthylene | 48 | < 48 U |
| 83-32-9 | Acenaphthene | 48 | 120 |
| 86-73-7 | Fluorene | 48 | 48 |
| 85-01-8 | Phenanthrene | 48 | 420 |
| 120-12-7 | Anthracene | 48 | 81 |
| 206-44-0 | Fluoranthene | 48 | 980 |
| 129-00-0 | Pyrene | 48 | 920 |
| 56-55-3 | Benzo (a) anthracene | 48 | 660 |
| 218-01-9 | Chrysene | 48 | 840 |
| 205-99-2 | Benzo (b) fluoranthene | 48 | 1,100 |
| 207-08-9 | Benzo (k) fluoranthene | 48 | 840 |
| 50-32-8 | Benzo (a) pyrene | 48 | 1,000 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 48 | 660 |
| 53-70-3 | Dibenz (a, h) anthracene | 48 | 240 |
| 191-24-2 | Benzo (g, h, i) perylene | 48 | 770 |
| 198-55-0 | Perylene | 48 | 300 |
| 92-52-4 | Biphenyl | 48 | < 48 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 48 | < 48 U |
| 832-69-9 | 1-Methylphenanthrene | 48 | < 48 U |
| 192-97-2 | Benzo (e) pyrene | 48 | 630 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 48 | < 48 U |

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 73.3%
d14-Dibenzo (a, h) anthracen 79.0%

Handwritten signature and date: 9/26/02

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: T4-S3-08-C-DUP

SAMPLE

Lab Sample ID: JQ52D

QC Report No: JQ52-Anchor Environmental

LIMS ID: 06-13114

Project: T4 EARLY ACTION

Matrix: Sediment

Event: 050332-01

Data Release Authorized: *[Signature]*

Date Sampled: 07/19/06

Reported: 08/10/06

Date Received: 07/21/06

Date Extracted: 08/01/06

Sample Amount: 10.2 g-dry-wt

Date Analyzed: 08/08/06 20:12

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT1/VTS

Dilution Factor: 10.0

GPC Cleanup: No

Percent Moisture: 15.3%

Silica Gel Cleanup: Yes

pH: 5.8

| CAS Number | Analyte | RL | Result |
|------------|----------------------------|----|--------|
| 91-20-3 | Naphthalene | 49 | < 49 U |
| 91-57-6 | 2-Methylnaphthalene | 49 | < 49 U |
| 90-12-0 | 1-Methylnaphthalene | 49 | < 49 U |
| 208-96-8 | Acenaphthylene | 49 | < 49 U |
| 83-32-9 | Acenaphthene | 49 | 88 |
| 86-73-7 | Fluorene | 49 | 59 |
| 85-01-8 | Phenanthrene | 49 | 560 |
| 120-12-7 | Anthracene | 49 | 93 |
| 206-44-0 | Fluoranthene | 49 | 1,100 |
| 129-00-0 | Pyrene | 49 | 900 |
| 56-55-3 | Benzo (a) anthracene | 49 | 540 |
| 218-01-9 | Chrysene | 49 | 780 |
| 205-99-2 | Benzo (b) fluoranthene | 49 | 830 |
| 207-08-9 | Benzo (k) fluoranthene | 49 | 620 |
| 50-32-8 | Benzo (a) pyrene | 49 | 660 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 49 | 440 |
| 53-70-3 | Dibenz (a,h) anthracene | 49 | 150 |
| 191-24-2 | Benzo (g,h,i) perylene | 49 | 500 |
| 198-55-0 | Perylene | 49 | 280 |
| 92-52-4 | Biphenyl | 49 | < 49 U |
| 581-42-0 | 2,6-Dimethylnaphthalene | 49 | < 49 U |
| 832-69-9 | 1-Methylphenanthrene | 49 | < 49 U |
| 192-97-2 | Benzo (e) pyrene | 49 | 490 |
| 2245-38-7 | 2,3,5-Trimethylnaphthalene | 49 | < 49 U |

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 69.0%
d14-Dibenzo (a,h) anthracen 67.7%

[Handwritten signature]

LDC #: 15488E2b **VALIDATION COMPLETENESS WORKSHEET**

SDG #: JQ52 Level III

Laboratory: Analytical Resources, Inc.

PAHs

Date: 9/22/06

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|----------------------------|
| I. | Technical holding times | A | Sampling dates: 7/18-19/06 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | no spec |
| IV. | Continuing calibration | A | ↓ |
| V. | Blanks | A | |
| VI. | Surrogate spikes | M | |
| VII. | Matrix spike/Matrix spike duplicates | M | |
| VIII. | Laboratory control samples | A | ICS |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | N | |
| XII. | Compound quantitation/CRQLs | SN | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | M | see WS |
| XVII. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

M seeds

| | | | | | | | |
|----|------------------|----|-----------|----|--|----|--|
| 1 | T4-S3-02-F-DUP | 11 | NB-080106 | 21 | | 31 | |
| 2 | T4-S3-02-F-DUPDL | 12 | | 22 | | 32 | |
| 3 | T4-S3-03-C-DUP | 13 | | 23 | | 33 | |
| 4 | T4-B414-02-A-DUP | 14 | | 24 | | 34 | |
| 5 | T4-S3-08-C-DUP | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

| | | | | |
|---------------------------------|-------------------------------|----------------------------------|---------------------------------|--------------------------------------|
| A. Phenol** | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol** | III. Benzo(a)pyrene** |
| B. Bis (2-chloroethyl) ether | Q. 2,4-Dichlorophenol** | FF. 3-Nitroaniline | UU. Phenanthrene ✓ | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene** | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol* | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene** | T. 4-Chloroaniline | II. 4-Nitrophenol* | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene** | JJ. Dibenzofuran | YY. Fluoranthene** ✓ | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol** | KK. 2,4-Dinitrotoluene | ZZ. Pyrene ✓ | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene* | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine* | Y. 2,4,6-Trichlorophenol** | NN. Fluorene | CCC. Benzo(a)anthracene ✓ | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene ✓ | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. <i>perylene</i> |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1)** | FFF. Di-n-octylphthalate** | UUU. <i>Benzo(e) Pyrene</i> |
| N. 2-Nitrophenol** | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene ✓ | VVV. <i>1-Methyl naphthalene</i> |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. <i>2,6-Dimethyl naphthalene</i> |

XXX. 1-Methylphenanthrene
 YYY. 2,3,5-Tri-methylnaphthalene
 ZZZ. Biphenyl

LDC#: 15488E2b
 SDG#: JQ52

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 5
 Reviewer: Q
 2nd Reviewer: f

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

N NA Were field duplicate pairs identified in this SDG?
 N NA Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | (LTS) |
|----------|-----------------------|-------------------|-----|-------|
| | 1 | T4-S3-02-F (JQ35) | | |
| S | 260 | 260U | 200 | |
| W | 160 | 260U | 200 | |
| VV | 80 | 260U | 200 | |
| DD | 45 | 260U | 200 | |
| GG | 1400 | 720 | 64 | |
| NN | 640 | 410 | 44 | |
| UU | 5200 | 3000 | 54 | |
| VV | 1200 | 620 | 64 | |
| YY | 11000 | 6600 | 50 | |
| ZZ | 10000 | 6200 | 47 | |
| CCC | 7100 | 3700 | 63 | |
| DDD | 8800 | 4700 | 61 | |
| GGG | 9700 | 4900 | 66 | |
| HHH | 7900 | 4200 | 61 | |
| III | 9800 | 5100 | 63 | |
| JJJ | 5400 | 3200 | 51 | |
| KKK | 1900 | 1200 | 45 | |
| LLL | 6100 | 3700 | 49 | |
| TTT | 3000 | 1600 | 61 | |
| WWW | 95 | 260U | 200 | |
| XXX | 480 | 330 | 37 | |
| UUU | 5800 | 3000 | 64 | |
| YYY | 120 | 260U | 200 | |

LDC#: 15488E2b
 SDG#: JQ52

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 2 of 3
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA
 Y N NA

Were field duplicate pairs identified in this SDG?
 Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | LTS |
|----------|-----------------------|-------------------|-----|-----|
| | 2 | T4-S3-02-F (JQ35) | | |
| S | 250 | 260U | 200 | |
| W | 150 | 260U | 200 | |
| GG | 1300 | 720 | 57 | |
| NN | 620 | 410 | 41 | |
| UU | 4700 | 3000 | 44 | |
| VV | 1100 | 620 | 56 | |
| YY | 10000 | 6600 | 41 | |
| ZZ | 8900 | 6200 | 36 | |
| CCC | 6400 | 3700 | 53 | |
| DDD | 7800 | 4700 | 50 | |
| GGG | 8000 | 4900 | 48 | |
| HHH | 6700 | 4200 | 46 | |
| III | 8200 | 5100 | 47 | |
| JJJ | 5000 | 3200 | 44 | |
| KKK | 1800 | 1200 | 40 | |
| LLL | 5800 | 3700 | 44 | |
| TTT | 2500 | 1600 | 44 | |
| XXX | 380 | 330 | 14 | |
| UUU | 4900 | 3000 | 48 | |

| Compound | Concentration (ug/Kg) | | RPD | LTS |
|----------|-----------------------|-------------------|-----|-----|
| | 3 | T4-S3-03-C (JQ35) | | |
| S | 98 | 69 | 35 | |
| W | 49 | 50U | 200 | |
| VV | 24 | 50U | 200 | |

LDC#: 15488E2b
 SDG#: JQ52

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 7 of 5
 Reviewer: Q
 2nd Reviewer: J

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?
 Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | LTS |
|----------|-----------------------|-------------------|-----|-----|
| | 3 | T4-S3-03-C (JQ35) | | |
| DD | 44 | 50U | 200 | |
| GG | 210 | 170 | 21 | |
| NN | 130 | 120 | 8 | |
| UU | 760 | 610 | 22 | |
| VV | 150 | 110 | 31 | |
| YY | 1600 | 1300 | 21 | |
| ZZ | 1600 | 1300 | 21 | |
| CCC | 710 | 570 | 22 | |
| DDD | 960 | 830 | 15 | |
| GGG | 880 | 730 | 19 | |
| HHH | 740 | 690 | 7 | |
| III | 910 | 790 | 14 | |
| JJJ | 550 | 490 | 12 | |
| KKK | 170 | 150 | 13 | |
| LLL | 690 | 640 | 8 | |
| TTT | 440 | 400 | 10 | |
| UUU | 560 | 510 | 9 | |
| YYY | 64 | 54 | 17 | |

| Compound | Concentration (ug/Kg) | | RPD | LTS |
|----------|-----------------------|---------------------|-----|-----|
| | 4 | T4-B414-02-A (JQ33) | | |
| S | 48U | 180 | 200 | |
| W | 48U | 89 | 200 | |
| VVV | 48U | 50 | 200 | |
| GG | 120 | 540 | 127 | |

LDC#: 15488E2b
 SDG#: JQ52

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 4 of 5
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?
 Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | LST |
|----------|-----------------------|---------------------|-----|-----|
| | 4 | T4-B414-02-A (JQ33) | | |
| NN | 48 | 220 | 128 | |
| UU | 420 | 1900 | 128 | |
| VV | 81 | 310 | 117 | |
| YY | 980 | 3900 | 120 | |
| ZZ | 920 | 3000 | 106 | |
| CCC | 660 | 1800 | 93 | |
| DDD | 840 | 2600 | 102 | |
| GGG | 1100 | 2800 | 87 | |
| HHH | 840 | 2200 | 89 | |
| III | 1000 | 2400 | 82 | |
| JJJ | 660 | 1500 | 78 | |
| KKK | 240 | 510 | 72 | |
| LLL | 770 | 1700 | 75 | |
| TTT | 300 | 870 | 97 | |
| ZZZ | 48U | 150 | 200 | |
| XXX | 48U | 110 | 200 | |
| UUU | 630 | 1600 | 87 | |
| YYY | 48U | 54 | 200 | |

| Compound | Concentration (ug/Kg) | | RPD | LST |
|----------|-----------------------|-------------------|-----|-----|
| | 5 | T4-S3-08-C (JQ35) | | |
| S | 49U | 4.8 | 200 | |
| GG | 88 | 26 | 109 | |
| NN | 59 | 14 | 123 | |
| UU | 560 | 120 | 129 | |

LDC#: 15488E2b
 SDG#: JQ52

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 5 of 5
 Reviewer: 
 2nd Reviewer: 

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA Were field duplicate pairs identified in this SDG?
 Y N NA Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (ug/Kg) | | RPD | ≤ 7.5 |
|----------|-----------------------|-------------------|-----|-------|
| | 5 | T4-S3-08-C (JQ35) | | |
| VV | 93 | 26 | 113 | |
| YY | 1100 | 280 | 119 | |
| ZZ | 900 | 250 | 113 | |
| CCC | 540 | 170 | 104 | |
| DDD | 780 | 210 | 115 | |
| GGG | 830 | 240 | 110 | |
| HHH | 620 | 180 | 110 | |
| III | 660 | 230 | 97 | |
| JJJ | 440 | 110 | 120 | |
| KKK | 150 | 40 | 116 | |
| LLL | 500 | 120 | 123 | |
| TTT | 280 | 71 | 119 | |
| XXX | 49U | 7.7 | 200 | |
| UUU | 490 | 140 | 111 | |

**Terminal 4 Early Action
Data Validation Reports
LDC# 15488**

Lead & Zinc

LDC

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Lead & Zinc
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ33

Sample Identification

T4-B414-01-A
T4-B414-01-B
T4-B414-01-C
T4-B414-02-A
T4-B414-02-B
T4-B414-02-C
T4-B414-03-A
T4-B414-03-B
T4-B414-03-C
T4-B414-04-A
T4-B414-04-B
T4-B414-04-C
T4-S3-01-D
T4-S3-01-E
T4-S3-01-F
T4-S3-01-G
T4-S3-01-H
T4-B414-01-AMS
T4-B414-01-ADUP

Introduction

This data review covers 19 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Lead and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2002) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

| Method Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|---------|-----------------------|-------------------------|
| PB (prep blank) | Zinc | 1.2 mg/Kg | All samples in SDG JQ33 |

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples T4-B414-02-A-DUP (from SDG JQ52) and T4-B414-02-A were identified as field duplicates. No lead or zinc was detected in any of the samples with the following exceptions:

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|---------|-----------------------|--------------|-------------------|
| | T4-B414-02-A-DUP | T4-B414-02-A | |
| Lead | 149 | 18 | 157 (≤ 75) |
| Zinc | 180 | 104 | 54 (≤ 75) |

XIV. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Lead & Zinc - Data Qualification Summary - SDG JQ33**

No Sample Data Qualified in this SDG

**Terminal 4 Early Action
Lead & Zinc - Laboratory Blank Data Qualification Summary - SDG JQ33**

No Sample Data Qualified in this SDG

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-B414-01-A
SAMPLE

Lab Sample ID: JQ33A

LIMS ID: 06-12923

Matrix: Sediment

Data Release Authorized: 

Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

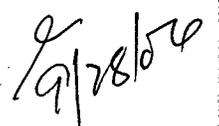
Date Received: 07/21/06

Percent Total Solids: 54.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 26 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 126 | |

U-Analyte undetected at given RL

RL-Reporting Limit


9/28/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-01-B
SAMPLE

Lab Sample ID: JQ33B
LIMS ID: 06-12924
Matrix: Sediment
Data Release Authorized: 
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 52.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 26 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 128 | |

U-Analyte undetected at given RL
RL-Reporting Limit


9/22/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-B414-01-C

SAMPLE

Lab Sample ID: JQ33C

LIMS ID: 06-12925

Matrix: Sediment

Data Release Authorized: 

Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 52.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 35 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 148 | |

U-Analyte undetected at given RL

RL-Reporting Limit

9/28/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-B414-02-A
SAMPLE

Lab Sample ID: JQ33D

LIMS ID: 06-12926

Matrix: Sediment

Data Release Authorized: 

Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 50.8%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 18 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 104 | |

U-Analyte undetected at given RL

RL-Reporting Limit


9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-02-B
SAMPLE

Lab Sample ID: JQ33E
LIMS ID: 06-12927
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 52.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 14 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 94 | |

U-Analyte undetected at given RL
RL-Reporting Limit

[Signature]
7/26/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-02-C
SAMPLE

Lab Sample ID: JQ33F
LIMS ID: 06-12928
Matrix: Sediment
Data Release Authorized: 
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 52.3%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 25 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 134 | |

U-Analyte undetected at given RL
RL-Reporting Limit


9/28/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-03-A
SAMPLE

Lab Sample ID: JQ33G
LIMS ID: 06-12929
Matrix: Sediment
Data Release Authorized: 
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 53.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 3 | 16 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 98 | |

U-Analyte undetected at given RL
RL-Reporting Limit

Q
9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-03-B
SAMPLE

Lab Sample ID: JQ33H
LIMS ID: 06-12930
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 52.3%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 19 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 107 | |

U-Analyte undetected at given RL
RL-Reporting Limit

[Handwritten signature]
9/24/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-B414-03-C
SAMPLE

Lab Sample ID: JQ33I

LIMS ID: 06-12931

Matrix: Sediment

Data Release Authorized: 

Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 51.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 14 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 92 | |

U-Analyte undetected at given RL

RL-Reporting Limit


9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-B414-04-A

SAMPLE

Lab Sample ID: JQ33J

LIMS ID: 06-12932

Matrix: Sediment

Data Release Authorized: *MA*

Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 49.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 17 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 104 | |

U-Analyte undetected at given RL

RL-Reporting Limit

MA
9/17/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-04-B
SAMPLE

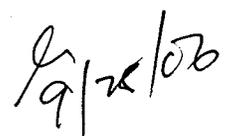
Lab Sample ID: JQ33K
LIMS ID: 06-12933
Matrix: Sediment
Data Release Authorized: 
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 55.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 3 | 15 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 94 | |

U-Analyte undetected at given RL
RL-Reporting Limit


9/25/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-04-C
SAMPLE

Lab Sample ID: JQ33L
LIMS ID: 06-12934
Matrix: Sediment
Data Release Authorized *[Signature]*
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 54.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 3 | 17 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 105 | |

U-Analyte undetected at given RL
RL-Reporting Limit

[Signature]
9/28/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-01-D
SAMPLE

Lab Sample ID: JQ33M

LIMS ID: 06-12935

Matrix: Sediment

Data Release Authorized: 

Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 52.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 4 | 258 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 381 | |

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-E
SAMPLE

Lab Sample ID: JQ33N
LIMS ID: 06-12936
Matrix: Sediment
Data Release Authorized: 
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 55.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 3 | 432 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 546 | |

U-Analyte undetected at given RL
RL-Reporting Limit

Handwritten: 8/19/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-01-F
SAMPLE

Lab Sample ID: JQ330

LIMS ID: 06-12937

Matrix: Sediment

Data Release Authorized 

Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

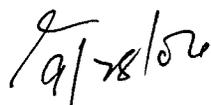
Date Received: 07/21/06

Percent Total Solids: 59.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 3 | 559 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 827 | |

U-Analyte undetected at given RL

RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-G
SAMPLE

Lab Sample ID: JQ33P
LIMS ID: 06-12938
Matrix: Sediment
Data Release Authorized: 
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 55.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 3 | 455 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 656 | |

U-Analyte undetected at given RL
RL-Reporting Limit

9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-01-H

SAMPLE

Lab Sample ID: JQ33Q

LIMS ID: 06-12939

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 57.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7439-92-1 | Lead | 3 | 527 | |
| 3050B | 07/27/06 | 6010B | 07/31/06 | 7440-66-6 | Zinc | 1 | 609 | |

U-Analyte undetected at given RL

RL-Reporting Limit

[Signature]
9/28/06

LDC #: 15488B4
 SDG #: JQ33
 Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 9/21/06
 Page: 1 of 1
 Reviewer: *um*
 2nd Reviewer: *J*

METHOD: Lead & Zinc (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|-----------------|----------------------------------|
| I. | Technical holding times | A | Sampling dates: 7/18 - 20/06 |
| II. | Calibration | A | |
| III. | Blanks | SW | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Matrix Spike Analysis | A | 3 ms/rep |
| VI. | Duplicate Sample Analysis | A | |
| VII. | Laboratory Control Samples (LCS) | A | LCS |
| VIII. | Internal Standard (ICP-MS) | N | 3 not utilized |
| IX. | Furnace Atomic Absorption QC | N | |
| X. | ICP Serial Dilution | N | not performed |
| XI. | Sample Result Verification | N | |
| XII. | Overall Assessment of Data | A | |
| XIII. | Field Duplicates | SW | |
| XIV. | Field Blanks | SW N | (4, T4-B414-02-A-Dup (509 JQ52)) |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: *Sediment*

| | | | | | | | |
|----|--------------|----|-----------------|----|--|----|--|
| 1 | T4-B414-01-A | 11 | T4-B414-04-B | 21 | | 31 | |
| 2 | T4-B414-01-B | 12 | T4-B414-04-C | 22 | | 32 | |
| 3 | T4-B414-01-C | 13 | T4-S3-01-D | 23 | | 33 | |
| 4 | T4-B414-02-A | 14 | T4-S3-01-E | 24 | | 34 | |
| 5 | T4-B414-02-B | 15 | T4-S3-01-F | 25 | | 35 | |
| 6 | T4-B414-02-C | 16 | T4-S3-01-G | 26 | | 36 | |
| 7 | T4-B414-03-A | 17 | T4-S3-01-H | 27 | | 37 | |
| 8 | T4-B414-03-B | 18 | T4-B414-01-AMS | 28 | | 38 | |
| 9 | T4-B414-03-C | 19 | T4-B414-01-ADUP | 29 | | 39 | |
| 10 | T4-B414-04-A | 20 | PB | 30 | | 40 | |

Notes: _____

LDC#: 15488134
SDG#: TQ33

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 6010B)

- Y N NA Were field duplicate pairs identified in this SDG?
 Y N NA Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (mg/kg) | | (575) RPD | |
|----------|-----------------------|-----|--------------|--|
| | T4-B414-02-A-DUP | 4 | | |
| Lead | 149 | 18 | 157 | |
| Zinc | 180 | 104 | 54 | |

V:\FIELD DUPLICATES\FD_inorganic\15488B4.wpd

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Lead & Zinc
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): JQ35

Sample Identification

T4-S3-02-C
T4-S3-02-D
T4-S3-02-E
T4-S3-02-F
T4-S3-03-B
T4-S3-03-C
T4-S3-03-D
T4-S3-05-E
T4-S3-05-F
T4-S3-05-G
T4-S3-05-H
T4-S3-05-J
T4-S3-06-A
T4-S3-06-B
T4-S3-08-B
T4-S3-08-C
T4-S3-02-CMS
T4-S3-02-CDUP
T4-S3-02-CREMS
T4-S3-02-CREDUP

Introduction

This data review covers 20 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Lead and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2002) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met with the following exceptions:

| Date | Lab. Reference/ID | Analyte | %R (Limits) | Associated Samples | Flag | A or P |
|--------|-------------------|---------|----------------|---|-----------------|--------|
| 8/7/06 | CCV7 | Zinc | 111.4 (90-110) | T4-S3-02-C T4-S3-02-CREMS T4-S3-02-CREDUP PBS2 | J (all detects) | P |

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

| Method Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|---------|-----------------------|--|
| PB (prep blank) | Zinc | 0.7 mg/Kg | T4-S3-02-D T4-S3-02-E T4-S3-02-F T4-S3-03-B T4-S3-03-C T4-S3-03-D T4-S3-05-E T4-S3-05-F T4-S3-05-G T4-S3-05-H T4-S3-05-J T4-S3-06-A T4-S3-06-B T4-S3-08-B T4-S3-08-C |
| PB (prep blank) | Zinc | 2.4 mg/Kg | T4-S3-02-C |

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Analyte | %R (Limits) | Flag | A or P |
|---|---------|--------------|-----------------|--------|
| T4-S3-02-CREMS (T4-S3-02-C) | Zinc | 133 (75-125) | J (all detects) | A |
| T4-S3-02-CMS (T4-S3-02-D, T4-S3-02-E, T4-S3-02-F, T4-S3-03-B, T4-S3-03-C, T4-S3-03-D, T4-S3-05-E, T4-S3-05-F, T4-S3-05-G, T4-S3-05-H, T4-S3-05-J, T4-S3-06-A, T4-S3-06-B, T4-S3-08-B, T4-S3-08-C) | Zinc | 240 (75-125) | J (all detects) | A |

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples T4-S3-02-F and T4-S3-02-F-DUP (from SDG JQ52), samples T4-S3-03-C and T4-S3-03-C-DUP (from SDG JQ52), and samples T4-S3-08-C and T4-S3-08-C-DUP (from SDG JQ52) were identified as field duplicates. No lead or zinc was detected in any of the samples with the following exceptions:

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|---------|-----------------------|------------|-----------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Lead | 713 | 721 | 1 (≤ 75) |
| Zinc | 708 | 705 | 0 (≤ 75) |

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|---------|-----------------------|------------|-----------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Lead | 432 | 417 | 4 (≤ 75) |
| Zinc | 524 | 546 | 4 (≤ 75) |

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|---------|-----------------------|------------|-------------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Lead | 12 | 89 | 152 (≤ 75) |
| Zinc | 69.6 | 142 | 68 (≤ 75) |

XIV. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Lead & Zinc - Data Qualification Summary - SDG JQ35**

| SDG | Sample | Analyte | Flag | A or P | Reason |
|------|--|---------|-----------------|--------|----------------------------|
| JQ35 | T4-S3-02-C | Zinc | J (all detects) | P | Calibration (%R) |
| JQ35 | T4-S3-02-C T4-S3-02-D T4-S3-02-E T4-S3-02-F T4-S3-03-B T4-S3-03-C T4-S3-03-D T4-S3-05-E T4-S3-05-F T4-S3-05-G T4-S3-05-H T4-S3-05-J T4-S3-06-A T4-S3-06-B T4-S3-08-B T4-S3-08-C | Zinc | J (all detects) | A | Matrix spike analysis (%R) |

**Terminal 4 Early Action
Lead & Zinc - Laboratory Blank Data Qualification Summary - SDG JQ35**

No Sample Data Qualified in this SDG

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-02-C
SAMPLE

Lab Sample ID: JQ35A
LIMS ID: 06-12956
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 53.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7439-92-1 | Lead | 4 | 212 | |
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7440-66-6 | Zinc | 1 | 328 | J |

U-Analyte undetected at given RL
RL-Reporting Limit

9/28/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-02-D
SAMPLE

Lab Sample ID: JQ35B

LIMS ID: 06-12957

Matrix: Sediment

Data Release Authorized: 

Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 55.8%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 496 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 1 | 633 | J |

U-Analyte undetected at given RL

RL-Reporting Limit


9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-02-E
SAMPLE

Lab Sample ID: JQ35C

LIMS ID: 06-12958

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 58.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 452 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 1 | 573 | J |

U-Analyte undetected at given RL

RL-Reporting Limit

[Handwritten signature]
9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-02-F
SAMPLE

Lab Sample ID: JQ35D
LIMS ID: 06-12959
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 55.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 8 | 721 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 3 | 705 | J |

U-Analyte undetected at given RL
RL-Reporting Limit

[Signature]
7/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-03-B
SAMPLE

Lab Sample ID: JQ35E

LIMS ID: 06-12960

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 56.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 266 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 1 | 418 | J |

U-Analyte undetected at given RL

RL-Reporting Limit

9/28/06

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-03-C
SAMPLE

Lab Sample ID: JQ35F
LIMS ID: 06-12961
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 59.9%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 417 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 1 | 546 | J |

U-Analyte undetected at given RL
RL-Reporting Limit

[Handwritten signature]



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-03-D
SAMPLE

Lab Sample ID: JQ35G
LIMS ID: 06-12962
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 66.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 580 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 0.8 | 583 | J |

U-Analyte undetected at given RL
RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-05-E
SAMPLE

Lab Sample ID: JQ35H

LIMS ID: 06-12963

Matrix: Sediment

Data Release Authorized: 

Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 51.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 4 | 142 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 1 | 303 | J |

U-Analyte undetected at given RL

RL-Reporting Limit





INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-05-F
SAMPLE

Lab Sample ID: JQ35I
LIMS ID: 06-12964
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 55.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 267 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 1 | 479 | J |

U-Analyte undetected at given RL
RL-Reporting Limit

9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-05-G
SAMPLE

Lab Sample ID: JQ35J
LIMS ID: 06-12965
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 57.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 264 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 1 | 454 | J |

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-05-H
SAMPLE

Lab Sample ID: JQ35K

LIMS ID: 06-12966

Matrix: Sediment

Data Release Authorized: 

Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 56.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 311 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 1 | 465 | J |

U-Analyte undetected at given RL

RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-05-J
SAMPLE

Lab Sample ID: JQ35L

LIMS ID: 06-12967

Matrix: Sediment

Data Release Authorized: 

Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 78.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 6 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 0.8 | 53.6 | J |

U-Analyte undetected at given RL

RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-06-A
SAMPLE

Lab Sample ID: JQ35M

LIMS ID: 06-12968

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 50.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 4 | 104 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 1 | 188 | J |

U-Analyte undetected at given RL

RL-Reporting Limit

[Signature]
9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-06-B
SAMPLE

Lab Sample ID: JQ35N

LIMS ID: 06-12969

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 72.3%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 10 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 0.8 | 53.5 | J |

U-Analyte undetected at given RL

RL-Reporting Limit

[Handwritten signature]
9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-08-B
SAMPLE

Lab Sample ID: JQ350

LIMS ID: 06-12970

Matrix: Sediment

Data Release Authorized:

Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 68.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 3 | 188 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 0.8 | 297 | J |

U-Analyte undetected at given RL

RL-Reporting Limit

0095 9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-08-C
SAMPLE

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 82.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7439-92-1 | Lead | 2 | 89 | |
| 3050B | 07/28/06 | 6010B | 08/01/06 | 7440-66-6 | Zinc | 0.7 | 142 | J |

U-Analyte undetected at given RL
RL-Reporting Limit

[Handwritten signature]
9/28/06

LDC #: 15488C4

VALIDATION COMPLETENESS WORKSHEET

Date: 9/21/06

SDG #: JQ35

Level III

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: *km*

2nd Reviewer: *[Signature]*

METHOD: Lead & Zinc (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|--|
| I. | Technical holding times | A | Sampling dates: 7/18-20/06 |
| II. | Calibration | SW | |
| III. | Blanks | SW | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Matrix Spike Analysis | SW | |
| VI. | Duplicate Sample Analysis | A | |
| VII. | Laboratory Control Samples (LCS) | A | LCS |
| VIII. | Internal Standard (ICP-MS) | N | Not Utilized |
| IX. | Furnace Atomic Absorption QC | N | |
| X. | ICP Serial Dilution | N | Not performed |
| XI. | Sample Result Verification | N | |
| XII. | Overall Assessment of Data | A | See JAE |
| XIII. | Field Duplicates | SW | (4, T4-S3-02-F-DUP), (6, T4-S3-03-C-DUP), (16, T4-S3-08-C-DUP) |
| XIV. | Field Blanks | N | |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

sediment

| | | | | | | | |
|----|------------|----|-----------------|----|------|----|--|
| 1 | T4-S3-02-C | 11 | T4-S3-05-H | 21 | PBS1 | 31 | |
| 2 | T4-S3-02-D | 12 | T4-S3-05-J | 22 | PBS2 | 32 | |
| 3 | T4-S3-02-E | 13 | T4-S3-06-A | 23 | | 33 | |
| 4 | T4-S3-02-F | 14 | T4-S3-06-B | 24 | | 34 | |
| 5 | T4-S3-03-B | 15 | T4-S3-08-B | 25 | | 35 | |
| 6 | T4-S3-03-C | 16 | T4-S3-08-C | 26 | | 36 | |
| 7 | T4-S3-03-D | 17 | T4-S3-02-CMS | 27 | | 37 | |
| 8 | T4-S3-05-E | 18 | T4-S3-02-CDUP | 28 | | 38 | |
| 9 | T4-S3-05-F | 19 | T4-S3-02-CREMS | 29 | | 39 | |
| 10 | T4-S3-05-G | 20 | T4-S3-02-CREDUP | 30 | | 40 | |

Notes: _____

VALIDATION FINDINGS WORKSHEET
 PB/ICB/CCB QUALIFIED SAMPLES

2-16 (75x)

Soil preparation factor applied: 1.00 X
 Associated Samples: [Signature]

LDC #: 1548804
 SDG #: 1033
 METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
 Sample Concentration units, unless otherwise noted: mg/kg

| Analyte | Maximum PB* (mg/kg) | Maximum PB* (ug/L) | Maximum ICB/CCB* (ug/L) | Blank Action Limit | Sample Identification |
|---------|---------------------|--------------------|-------------------------|--------------------|-----------------------|
| Al | | | | | Al |
| Sb | | | | | Sb |
| As | | | | | As |
| Ba | | | | | Ba |
| Be | | | | | Be |
| Cd | | | | | Cd |
| Ca | | | | | Ca |
| Cr | | | | | Cr |
| Cu | | | | | Cu |
| Fe | | | | | Fe |
| Pb | | | | | Pb |
| Mg | | | | | Mg |
| Mn | | | | | Mn |
| Hg | | | | | Hg |
| Ni | | | | | Ni |
| K | | | | | K |
| Se | | | | | Se |
| Ag | | | | | Ag |
| Na | | | | | Na |
| Tl | | | | | Tl |
| V | | | | | V |
| Zn | 0.7 | | | 3.5 | Zn |
| B | | | | | B |
| Mo | | | | | Mo |
| Sr | | | | | Sr |

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
 Note: a. The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC#: 15488C4
 SDG#: T435

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Metals (EPA Method 6010B)

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?
 Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (mg/kg) | | (475) RPD | |
|----------|-----------------------|------------|--------------|--|
| | T4-S3-02-F-DUP | T4-S3-02-F | | |
| Lead | 713 | 721 | 1 | |
| Zinc | 708 | 705 | 0 | |

| Compound | Concentration (mg/kg) | | (475) RPD | |
|----------|-----------------------|------------|--------------|--|
| | T4-S3-03-C-DUP | T4-S3-03-C | | |
| Lead | 432 | 417 | 4 | |
| Zinc | 524 | 546 | 4 | |

| Compound | Concentration (mg/kg) | | (475) RPD | |
|----------|-----------------------|------------|--------------|--|
| | T4-S3-08-C-DUP | T4-S3-08-C | | |
| Lead | 12 | 89 | 152 | |
| Zinc | 69.6 | 142 | 68 | |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Lead & Zinc
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ36

Sample Identification

T4-S3-07-B
T4-S3-07-C
T4-S3-07-D
T4-S3-07-E
T4-S3-04-A
T4-S3-04-B
T4-S3-04-C
T4-S3-04-D
T4-WB-01
T4-WB-02
T4-WB-03
T4-WB-04
T4-S3-07-BMS
T4-S3-07-BDUP

Introduction

This data review covers 14 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Lead and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2002) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

XIV. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Lead & Zinc - Data Qualification Summary - SDG JQ36**

No Sample Data Qualified in this SDG

**Terminal 4 Early Action
Lead & Zinc - Laboratory Blank Data Qualification Summary - SDG JQ36**

No Sample Data Qualified in this SDG

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-07-B
SAMPLE

Lab Sample ID: JQ36A

LIMS ID: 06-12972

Matrix: Sediment

Data Release Authorized *[Signature]*
Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 52.3%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 4 | 57 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 1 | 212 | |

U-Analyte undetected at given RL

RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-07-C
SAMPLE

Lab Sample ID: JQ36B

LIMS ID: 06-12973

Matrix: Sediment

Data Release Authorized: 

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 54.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 3 | 53 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 1 | 156 | |

U-Analyte undetected at given RL
RL-Reporting Limit

0070 



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-07-D
SAMPLE

Lab Sample ID: JQ36C

LIMS ID: 06-12974

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 64.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 3 | 81 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 0.8 | 217 | |

U-Analyte undetected at given RL

RL-Reporting Limit

[Signature]
8/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-07-E
SAMPLE

Lab Sample ID: JQ36D

LIMS ID: 06-12975

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 79.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 2 | 14 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 0.7 | 57.5 | |

U-Analyte undetected at given RL

RL-Reporting Limit

[Handwritten signature]
07/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-04-A
SAMPLE

Lab Sample ID: JQ36E

LIMS ID: 06-12976

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 57.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 3 | 435 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 1 | 460 | |

U-Analyte undetected at given RL

RL-Reporting Limit

[Signature] 8/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-04-B
SAMPLE

Lab Sample ID: JQ36F

LIMS ID: 06-12977

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 71.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 3 | 206 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 0.8 | 252 | |

U-Analyte undetected at given RL

RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-04-C
SAMPLE

Lab Sample ID: JQ36G

LIMS ID: 06-12978

Matrix: Sediment

Data Release Authorized: 

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 75.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 3 | 276 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 0.8 | 343 | |

U-Analyte undetected at given RL

RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-04-D
SAMPLE

Lab Sample ID: JQ36H

LIMS ID: 06-12979

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 83.3%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 2 | 111 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 0.7 | 141 | |

U-Analyte undetected at given RL

RL-Reporting Limit

[Signature]
9/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-WB-01
SAMPLE

Lab Sample ID: JQ36I

LIMS ID: 06-12980

Matrix: Sediment

Data Release Authorized 

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 40.3%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 5 | 30 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 1 | 129 | |

U-Analyte undetected at given RL

RL-Reporting Limit

0077

8/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-WB-02
SAMPLE

Lab Sample ID: JQ36J

LIMS ID: 06-12981

Matrix: Sediment

Data Release Authorized: 

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 51.0%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 4 | 35 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 1 | 141 | |

U-Analyte undetected at given RL

RL-Reporting Limit





INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-WB-03
SAMPLE

Lab Sample ID: JQ36K

LIMS ID: 06-12982

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 42.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 5 | 24 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 1 | 127 | |

U-Analyte undetected at given RL

RL-Reporting Limit

[Signature]
8/28/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-WB-04
SAMPLE

Lab Sample ID: JQ36L

LIMS ID: 06-12983

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/04/06

QC Report No: JQ36-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/20/06

Date Received: 07/21/06

Percent Total Solids: 44.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7439-92-1 | Lead | 4 | 20 | |
| 3050B | 07/31/06 | 6010B | 08/02/06 | 7440-66-6 | Zinc | 1 | 112 | |

U-Analyte undetected at given RL

RL-Reporting Limit

[Signature]
9/28/06

LDC #: 15488D4
 SDG #: JQ36
 Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 9/22/06
 Page: 1 of 1
 Reviewer: mu
 2nd Reviewer: J

METHOD: Lead & Zinc (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 7/20/06 |
| II. | Calibration | A | |
| III. | Blanks | A | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Matrix Spike Analysis | A | } MS/rep |
| VI. | Duplicate Sample Analysis | A | |
| VII. | Laboratory Control Samples (LCS) | A | Les |
| VIII. | Internal Standard (ICP-MS) | N | } Not utilized |
| IX. | Furnace Atomic Absorption QC | N | |
| X. | ICP Serial Dilution | N | Not performed |
| XI. | Sample Result Verification | N | |
| XII. | Overall Assessment of Data | A | |
| XIII. | Field Duplicates | N | |
| XIV. | Field Blanks | N | |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Sediment

| | | | | | | | |
|----|------------|----|---------------|----|--|----|--|
| 1 | T4-S3-07-B | 11 | T4-WB-03 | 21 | | 31 | |
| 2 | T4-S3-07-C | 12 | T4-WB-04 | 22 | | 32 | |
| 3 | T4-S3-07-D | 13 | T4-S3-07-BMS | 23 | | 33 | |
| 4 | T4-S3-07-E | 14 | T4-S3-07-BDUP | 24 | | 34 | |
| 5 | T4-S3-04-A | 15 | PB | 25 | | 35 | |
| 6 | T4-S3-04-B | 16 | | 26 | | 36 | |
| 7 | T4-S3-04-C | 17 | | 27 | | 37 | |
| 8 | T4-S3-04-D | 18 | | 28 | | 38 | |
| 9 | T4-WB-01 | 19 | | 29 | | 39 | |
| 10 | T4-WB-02 | 20 | | 30 | | 40 | |

Notes: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 19, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Lead & Zinc
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): JQ52

Sample Identification

T4-S3-02-F-DUP
T4-S3-03-C-DUP
T4-B414-02-A-DUP
T4-S3-08-C-DUP
T4-S3-02-F-DUPMS
T4-S3-02-F-DUPDUP

Introduction

This data review covers 6 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Lead and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2002) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met with the following exceptions:

| Date | Lab. Reference/ID | Analyte | %R (Limits) | Associated Samples | Flag | A or P |
|--------|-------------------|---------|----------------|---|-----------------|--------|
| 8/7/06 | CCV7 | Zinc | 111.4 (90-110) | T4-S3-02-F-DUP T4-S3-02-F-DUPMS T4-S3-02-F-DUPDUP | J (all detects) | P |

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

| Method Blank ID | Analyte | Maximum Concentration | Associated Samples |
|-----------------|---------|-----------------------|-------------------------|
| PB (prep blank) | Zinc | 2.0 mg/Kg | All samples in SDG JQ52 |

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples T4-S3-02-F (from SDG JQ35) and T4-S3-02-F-DUP, samples T4-S3-03-C (from SDG JQ35) and T4-S3-03-C-DUP, samples T4-S3-08-C (from SDG JQ35) and T4-S3-08-C-DUP, and samples T4-B414-02-A-DUP and T4-B414-02-A (from SDG JQ33) were identified as field duplicates. No lead or zinc was detected in any of the samples with the following exceptions:

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|---------|-----------------------|------------|-----------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Lead | 713 | 721 | 1 (≤ 75) |
| Zinc | 708 | 705 | 0 (≤ 75) |

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|---------|-----------------------|------------|-----------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Lead | 432 | 417 | 4 (≤ 75) |
| Zinc | 524 | 546 | 4 (≤ 75) |

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|---------|-----------------------|--------------|-------------------|
| | T4-B414-02-A-DUP | T4-B414-02-A | |
| Lead | 149 | 18 | 157 (≤ 75) |
| Zinc | 180 | 104 | 54 (≤ 75) |

| Analyte | Concentration (mg/Kg) | | RPD (Limits) |
|---------|-----------------------|------------|-------------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Lead | 12 | 89 | 152 (≤ 75) |
| Zinc | 69.6 | 142 | 68 (≤ 75) |

XIV. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Lead & Zinc - Data Qualification Summary - SDG JQ52**

| SDG | Sample | Analyte | Flag | A or P | Reason |
|------------|----------------|----------------|-----------------|---------------|------------------|
| JQ52 | T4-S3-02-F-DUP | Zinc | J (all detects) | P | Calibration (%R) |

**Terminal 4 Early Action
Lead & Zinc - Laboratory Blank Data Qualification Summary - SDG JQ52**

No Sample Data Qualified in this SDG



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-02-F-DUP
SAMPLE

Lab Sample ID: JQ52A

LIMS ID: 06-13102

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 54.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7439-92-1 | Lead | 4 | 713 | |
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7440-66-6 | Zinc | 1 | 708 | J |

U-Analyte undetected at given RL

RL-Reporting Limit

[Handwritten signature]
9/18/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-03-C-DUP
SAMPLE

Lab Sample ID: JQ52B

LIMS ID: 06-13103

Matrix: Sediment

Data Release Authorized: *[Signature]*

Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 60.9%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7439-92-1 | Lead | 3 | 432 | |
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7440-66-6 | Zinc | 0.9 | 524 | |

U-Analyte undetected at given RL

RL-Reporting Limit

[Handwritten signature]



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-B414-02-A-DUP
SAMPLE

Lab Sample ID: JQ52C

LIMS ID: 06-13104

Matrix: Sediment

Data Release Authorized:

Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 50.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|----|-----------|---|
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7439-92-1 | Lead | 4 | 149 | |
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7440-66-6 | Zinc | 1 | 180 | |

U-Analyte undetected at given RL

RL-Reporting Limit

19/08/06



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-08-C-DUP
SAMPLE

Lab Sample ID: JQ52D

LIMS ID: 06-13114

Matrix: Sediment

Data Release Authorized

Reported: 08/08/06

QC Report No: JQ52-Anchor Environmental

Project: T4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 81.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|-----------|-----------|-----------------|---------------|------------|---------|-----|-----------|---|
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7439-92-1 | Lead | 2 | 12 | |
| 3050B | 08/07/06 | 6010B | 08/07/06 | 7440-66-6 | Zinc | 0.7 | 69.6 | |

U-Analyte undetected at given RL

RL-Reporting Limit

9/28/02

LDC #: 15488E4

VALIDATION COMPLETENESS WORKSHEET

Date: 9/27/06

SDG #: JQ52

Level III

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: *mg*

2nd Reviewer: *J*

METHOD: Lead & Zinc (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----|--|
| I. | Technical holding times | A | Sampling dates: 9/18, 19/06 |
| II. | Calibration | SW | |
| III. | Blanks | SW | |
| IV. | ICP Interference Check Sample (ICS) Analysis | A | |
| V. | Matrix Spike Analysis | A | ms/loop |
| VI. | Duplicate Sample Analysis | A | |
| VII. | Laboratory Control Samples (LCS) | A | LCS |
| VIII. | Internal Standard (ICP-MS) | N | not utilized |
| IX. | Furnace Atomic Absorption QC | N | |
| X. | ICP Serial Dilution | N | not performed |
| XI. | Sample Result Verification | N | |
| XII. | Overall Assessment of Data | A | |
| XIII. | Field Duplicates | SW | (1, T4-S3-02-F), (2, T4-S3-03-C), (4, T4-S3-08-C), (3, T4-B414-02-A) |
| XIV. | Field Blanks | N | not SA 35 SA 33 |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: *See list*

| | | | | | | | |
|----|-------------------|----|--|----|--|----|--|
| 1 | T4-S3-02-F-DUP | 11 | | 21 | | 31 | |
| 2 | T4-S3-03-C-DUP | 12 | | 22 | | 32 | |
| 3 | T4-B414-02-A-DUP | 13 | | 23 | | 33 | |
| 4 | T4-S3-08-C-DUP | 14 | | 24 | | 34 | |
| 5 | T4-S3-02-F-DUPMS | 15 | | 25 | | 35 | |
| 6 | T4-S3-02-F-DUPDUP | 16 | | 26 | | 36 | |
| 7 | <i>PB</i> | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 1548824

SDG #: JAC

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Sample Concentration units, unless otherwise noted: ug/kg

VALIDATION FINDINGS WORKSHEET

PB/ICB/CCB QUALIFIED SAMPLES

Soil preparation factor applied: 1.0

Associated Samples: All (75X)

Page: 1 of 1

Reviewer: MH

2nd Reviewer: S

| Analyte | Maximum PB* (mg/Kg) | Maximum PB* (ug/L) | Maximum ICB/CCB* (ug/L) | Blank Action Limit | Sample Identification |
|---------|---------------------|--------------------|-------------------------|--------------------|-----------------------|
| Al | | | | | |
| Sb | | | | | |
| As | | | | | |
| Ba | | | | | |
| Be | | | | | |
| Cd | | | | | |
| Ca | | | | | |
| Cr | | | | | |
| Cu | | | | | |
| Fe | | | | | |
| Pb | | | | | |
| Mg | | | | | |
| Mn | | | | | |
| Hg | | | | | |
| Ni | | | | | |
| K | | | | | |
| Se | | | | | |
| Ag | | | | | |
| Na | | | | | |
| Tl | | | | | |
| V | | | | | |
| Zn | 2.0 | | | 10.0 | |
| B | | | | | |
| Mo | | | | | |
| Sr | | | | | |

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a. The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC#: 15488E4
 SDG#: 7052

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: LM
 2nd Reviewer: g

METHOD: Metals (EPA Method 6010B)

- Y/N NA Were field duplicate pairs identified in this SDG?
- Y/N NA Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (mg/kg) | | (595) RPD |
|----------|-----------------------|------------|--------------|
| | 1 | T4-S3-02-F | |
| Lead | 713 | 721 | 1 |
| Zinc | 708 | 705 | 0 |

| Compound | Concentration (mg/kg) | | (595) RPD |
|----------|-----------------------|------------|--------------|
| | 2 | T4-S3-03-C | |
| Lead | 432 | 417 | 4 |
| Zinc | 524 | 546 | 4 |

| Compound | Concentration (mg/kg) | | (595) RPD |
|----------|-----------------------|--------------|--------------|
| | 3 | T4-B414-02-A | |
| Lead | 149 | 18 | 157 |
| Zinc | 180 | 104 | 54 |

| Compound | Concentration (mg/kg) | | (595) RPD |
|----------|-----------------------|------------|--------------|
| | 4 | T4-S3-08-C | |
| Lead | 12 | 89 | 152 |
| Zinc | 69.6 | 142 | 68 |

**Terminal 4 Early Action
Data Validation Reports
LDC# 15488**

Wet Chemistry

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment and Water Composite
Parameters: Wet Chemistry
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ30

Sample Identification

T4-COMP1
T4-COMP2

Introduction

This data review covers 2 sediment and water composite samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per ASTM Method D421/D422 for Grain Size, ASTM Method D854 for Specific Gravity, ASTM Method D2216 for Percent Moisture, ASTM Method D4318 for Atterberg Limits, and Army Corps of Engineers Method for Column Setting Test.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2002) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were not required by these methods.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were not required by these methods.

V. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were not required by these methods.

VI. Laboratory Control Samples

Laboratory control samples were not required by these methods.

VII. Sample Result Verification

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Wet Chemistry - Data Qualification Summary - SDG JQ30**

No Sample Data Qualified in this SDG

**Terminal 4 Early Action
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG JQ30**

No Sample Data Qualified in this SDG

GEOTECHNICAL ANALYSIS DATA SHEET
Specific Gravity by Method ASTM D854



Data Release Authorized:
Reported: 08/23/06
Date Received: 07/21/06
Page 1 of 1

QC Report No: JQ30-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

| Client/ ARI ID | Date Sampled | Matrix | Analysis Date | Result |
|---|-----------------|----------|------------------|--------|
| T4-COMP-01 JQ30A 06-12857 | 07/20/06 | Sediment | 08/16/06 12:00 | 2.70 |
| T4-COMP-02 JQ30B 06-12858 | 07/20/06 | Sediment | 08/16/06 12:00 | 2.64 |
| T4-COMP-01 (< 0.074 mm) JQ30C 06-13115 | 07/20/06 | Sediment | 08/16/06 12:00 | 2.62 |
| T4-COMP-01 (> 0.074 mm) JQ30D 06-13116 | 07/20/06 | Sediment | 08/16/06 12:00 | 2.69 |
| T4-COMP-02 (< 0.074 mm) JQ30E 06-13117 | 07/20/06 | Sediment | 08/16/06 12:00 | 2.63 |
| T4-COMP-02 (> 0.074 mm) JQ30F 06-13118 | 07/20/06 | Sediment | 08/16/06 12:00 | 2.62 |

Reported in Std Units

Handwritten signature and date: 9/28/06

GEOTECHNICAL ANALYSIS DATA SHEET
Moisture Content by Method ASTM D2216



Data Release Authorized:
Reported: 08/23/06
Date Received: 07/21/06
Page 1 of 1

QC Report No: JQ30-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

| Client/ ARI ID | Date Sampled | Matrix | Analysis Date | Result |
|------------------------------|-----------------|----------|------------------|--------|
| T4-COMP-01 JQ30A 06-12857 | 07/20/06 | Sediment | 08/16/06 12:00 | 60.57 |
| T4-COMP-02 JQ30B 06-12858 | 07/20/06 | Sediment | 08/16/06 12:00 | 71.60 |

Reported in Percent

Handwritten signature/initials
9/28/06

Column Settling Test

Sample ID: Comp 1

Initial mix: _____
 Water volume, liters: 85
 Sediment mass, grams, dry weight basis: 22,335.3
 Initial mix ratio, g/L: 262.8
 Initial measured TSS, in column: 30.9
 Sediment Moisture Content, % of dry weight: 60.6

Percent of Initial TSS Concentration over Time

| Time, hrs | Depth from Top of Settling Column (ft) | | | | | | | | | | |
|-----------|--|------|------|------|------|------|------|------|------|------|------|
| | 0.63 | 1.13 | 1.63 | 2.13 | 2.63 | 3.13 | 3.63 | 4.13 | 4.63 | 5.13 | 5.63 |
| 1 | 13.5 | 13.3 | 15.4 | 13.1 | 16.4 | 13.8 | 16.9 | 13.5 | 17.3 | 13.8 | 13.4 |
| 2 | 11.0 | 11.5 | 12.3 | 12.2 | 12.5 | 12.6 | 12.7 | 12.2 | 12.4 | 13.4 | 13.4 |
| 4 | | 9.6 | 10.5 | 10.9 | 10.8 | 11.6 | 10.8 | 11.1 | 11.3 | 11.6 | 10.9 |
| 6 | | 9.6 | 10.4 | 10.3 | 10.0 | 10.5 | 10.4 | 10.6 | 10.4 | 10.5 | 10.4 |
| 8 | | 7.0 | 9.1 | 9.4 | 9.7 | 10.0 | 9.6 | 10.0 | 10.2 | 9.8 | 10.1 |
| 12 | | | 7.8 | 8.4 | 9.3 | 9.0 | 9.3 | 9.4 | 8.9 | 9.2 | 9.2 |
| 24 | | | 6.0 | 7.0 | 7.1 | 7.1 | 7.7 | 8.4 | 7.6 | 7.5 | 7.7 |
| 48 | | | 3.4 | 4.9 | 5.8 | 5.7 | 6.2 | 6.3 | 6.1 | 6.8 | 6.7 |
| 97 | | | 0.4 | 3.6 | 3.9 | 4.7 | 4.9 | 5.1 | 5.3 | 5.3 | 5.4 |
| 174 | | | | 0.1 | 1.0 | 2.4 | 2.4 | 2.8 | 3.0 | 3.3 | 3.4 |
| 240 | | | | 0.2 | 0.2 | 2.3 | 1.8 | 2.4 | 2.7 | 2.8 | 3.0 |

JQ30

g/rator

e

Column Settling Test

Sample ID: Comp 1

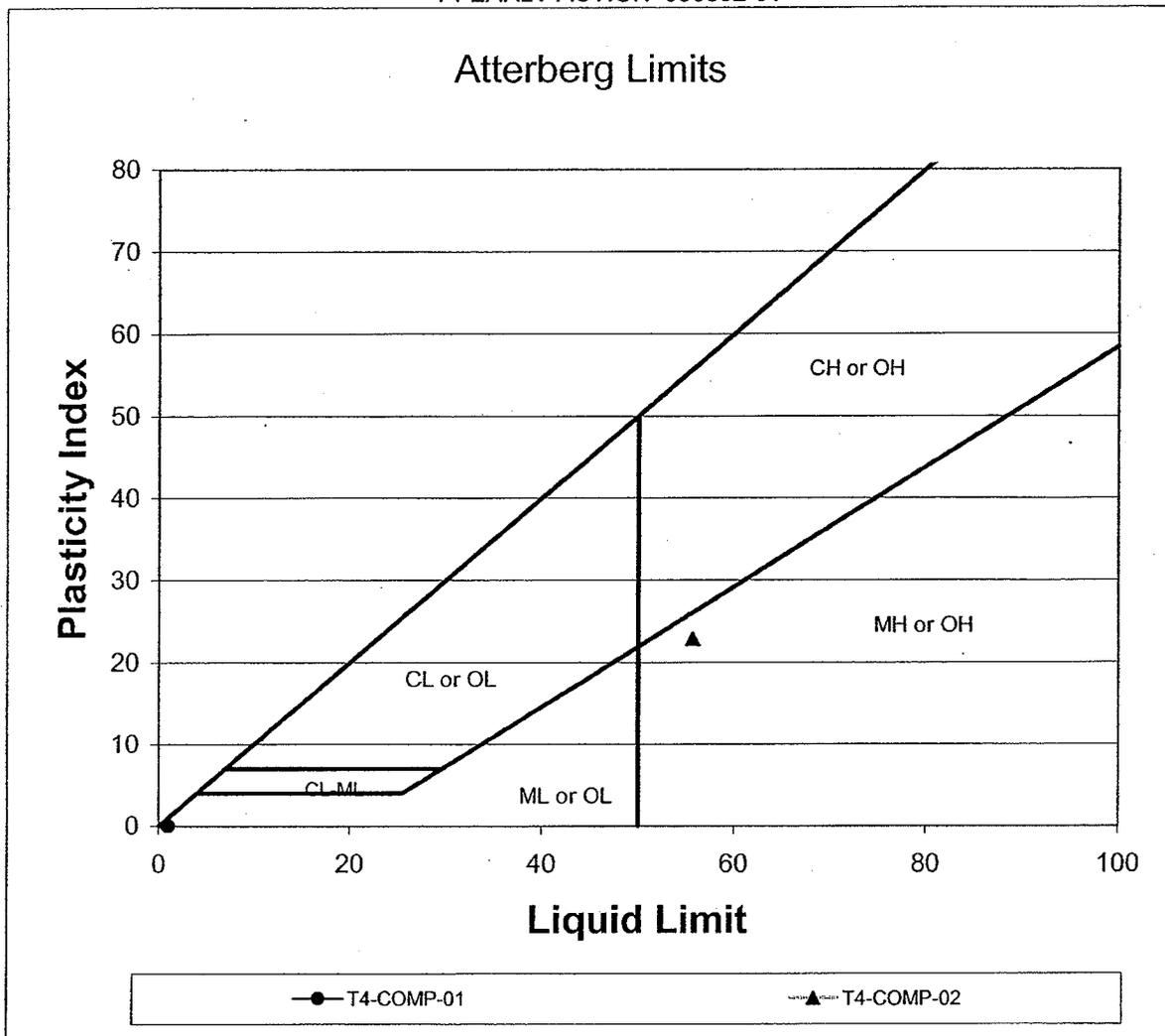
Turbidity Over Time and Depth

| Time, hrs | Depth from Top of Settling Column (ft) | | | | | | | | | | |
|-----------|--|------|------|------|------|------|------|------|------|------|------|
| | 0.63 | 1.13 | 1.63 | 2.13 | 2.63 | 3.13 | 3.63 | 4.13 | 4.63 | 5.13 | 5.63 |
| 1 | 3880 | 3960 | 4000 | 3980 | 4000 | 3980 | 4000 | 3940 | 4000 | 3840 | 3500 |
| 2 | 3500 | 3760 | 3720 | 3600 | 3620 | 4200 | 3700 | 3820 | 3700 | 3740 | 3700 |
| 4 | 2000 | 3320 | 3380 | 3400 | 3380 | 3420 | 3440 | 3420 | 3440 | 3480 | 3340 |
| 6 | | 3240 | 3360 | 3360 | 3320 | 3360 | 3360 | 3260 | 3360 | 3240 | 3360 |
| 8 | | 2720 | 2980 | 3020 | 3140 | 3180 | 3080 | 3080 | 3160 | 3220 | 3160 |
| 12 | | | 2820 | 2820 | 2960 | 2960 | 2940 | 2980 | 2980 | 3000 | 2980 |
| 24 | | | 2500 | 2700 | 2660 | 2660 | 2720 | 2840 | 2800 | 2680 | 2720 |
| 48 | | | 1840 | 2100 | 2260 | 2300 | 2360 | 2400 | 2420 | 2360 | 2440 |
| 97 | | | 620 | 1760 | 1840 | 2000 | 1980 | 2140 | 2160 | 2220 | 2200 |
| 174 | | | | 631 | 1360 | 1530 | 1600 | 1640 | 1760 | 1790 | 1820 |
| 240 | | | | 375 | 390 | 1520 | 1250 | 1380 | 1550 | 1510 | 1540 |

JQ30

Handwritten: 9/1-1/02

Anchor Environmental
T4 EARLY ACTION 050332-01



| Sample Number | Depth | Plasticity Index | Liquid Limit | Plastic Limit | Classification |
|---------------|-------|------------------|--------------|---------------|----------------|
| T4-COMP-01 | NA | NA | NA | NA | Non-Plastic |
| T4-COMP-02 | NA | 22.8 | 55.7 | 32.9 | OH |

JQ30

9/28/00

Anchor Environmental
T4 EARLY ACTION 050332-01

Percent Finer (Passing) Than the Indicated Size

| Sieve Size (microns) | 2" | 1" | 3/4" | 1/2" | 3/8" | #4 (4750) | #10 (2000) | #20 (850) | #40 (425) | #60 (250) | #100 (150) | #200 (75) | 32 | 22 | 13 | 9 | 7 | 3.2 | 1.3 |
|-------------------------|-------|-------|-------|-------|-------|--------------|---------------|--------------|--------------|--------------|---------------|--------------|------|------|------|------|------|------|------|
| T4-COMP-01 | 100.0 | 100.0 | 100.0 | 98.9 | 98.7 | 97.8 | 97.0 | 94.8 | 75.8 | 45.8 | 35.8 | 30.5 | 27.2 | 22.9 | 19.2 | 16.1 | 13.0 | 9.3 | 6.2 |
| T4-COMP-02 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.8 | 99.4 | 92.6 | 77.8 | 72.8 | 66.6 | 54.7 | 48.9 | 39.5 | 33.1 | 27.3 | 19.4 | 13.7 |

Testing performed according to ASTM D421/D422

JQ30

Handwritten signature/initials

Anchor Environmental
T4 EARLY ACTION 050332-01

Percent Retained in Each Size Fraction

| Description | % Gravel | % Coarse Sand | % Medium Sand | % Fine Sand | % Very Coarse Silt | % Coarse Silt | % Medium Silt | % Fine Silt | % Fine Silt | % Very Fine Silt | % Clay |
|-------------------------|----------|---------------|---------------|-------------|--------------------|---------------|---------------|-------------|-------------|------------------|--------|
| Particle Size (microns) | > 4750 | 4750-2000 | 2000-425 | 425-75 | 75-32 | 32-22 | 22-13 | 13-9 | 9-7 | 7-3.2 | <3.2 |
| T4-COMP-01 | 2.2 | 0.8 | 21.2 | 45.2 | 3.4 | 4.3 | 3.7 | 3.1 | 3.1 | 3.7 | 9.3 |
| T4-COMP-02 | 0.1 | 0.1 | 7.2 | 26.0 | 12.0 | 5.8 | 9.3 | 6.5 | 5.8 | 7.9 | 19.4 |

9/28/04

LDC #: 15488A6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/21/06

SDG #: JQ30

Level III

Page: (of 1)

Laboratory: Analytical Resources, Inc.

Reviewer: *MM*

2nd Reviewer: *[Signature]*

METHOD: (Analyte) ^{of} Atterberg Limits (ASTM D4318), Grain Size (ASTM ^{b421} D422), Specific Gravity (ASTM D854), Percent Moisture (ASTM D2216), Column Setting Test (ACOE)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 7/20/06 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification | A | |
| III. | Blanks | N | not required |
| IV | Matrix Spike/Matrix Spike Duplicates | N | not required |
| V | Duplicates | N | client specified |
| VI. | Laboratory control samples | N | not required. |
| VII. | Sample result verification | N | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | N | |
| X | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: *Sediment + water*

| | | | | | | | |
|----|----------|----|--|----|--|----|--|
| 1 | T4-COMP1 | 11 | | 21 | | 31 | |
| 2 | T4-COMP2 | 12 | | 22 | | 32 | |
| 3 | | 13 | | 23 | | 33 | |
| 4 | | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Wet Chemistry
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ33

Sample Identification

| | |
|-----------------|-----------------|
| T4-B414-01-A | T4-B414-04-ATRP |
| T4-B414-01-B | T4-B414-02-ATRP |
| T4-B414-01-C | |
| T4-B414-02-A | |
| T4-B414-02-B | |
| T4-B414-02-C | |
| T4-B414-03-A | |
| T4-B414-03-B | |
| T4-B414-03-C | |
| T4-B414-04-A | |
| T4-B414-04-B | |
| T4-B414-04-C | |
| T4-S3-01-D | |
| T4-S3-01-E | |
| T4-S3-01-F | |
| T4-S3-01-G | |
| T4-S3-01-H | |
| T4-B414-02-AMS | |
| T4-B414-02-ADUP | |
| T4-B414-04-ADUP | |

Introduction

This data review covers 22 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 160.3 for Total Solids, Plumb Method for Total Organic Carbon, and ASTM Method D421 for Grain Size.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2002) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

Standard reference material (SRM) percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

Samples T4-B414-02-A and T4-B414-02-A-DUP (from SDG JQ52) were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

| Analyte | Concentration (%) | | RPD (Limits) |
|----------------------|-------------------|--------------|-----------------|
| | T4-B414-02-A-DUP | T4-B414-02-A | |
| Total solids | 50.10 | 50.90 | 2 (≤ 75) |
| Total organic carbon | 1.74 | 1.83 | 5 (≤ 75) |

X. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Wet Chemistry - Data Qualification Summary - SDG JQ33**

No Sample Data Qualified in this SDG

**Terminal 4 Early Action
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG JQ33**

No Sample Data Qualified in this SDG

Percent Finer (Passing) Than the Indicated Size

| Sieve Size (microns) | 2" | 1" | 3/4" | 1/2" | 3/8" | #4 (4750) | #10 (2000) | #20 (850) | #40 (425) | #60 (250) | #100 (150) | #200 (75) | 32 | 22 | 13 | 9 | 7 | 3.2 | 1.3 |
|----------------------|-------|-------|-------|-------|-------|-----------|------------|-----------|-----------|-----------|------------|-----------|------|------|------|------|------|------|------|
| T4-B414-01-A | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.7 | 99.2 | 97.8 | 92.8 | 88.3 | 73.4 | 51.1 | 43.2 | 35.4 | 30.7 | 25.9 | 18.1 | 11.0 |
| T4-B414-01-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.4 | 97.1 | 88.4 | 84.2 | 77.9 | 62.8 | 50.7 | 39.9 | 33.1 | 29.0 | 18.2 | 12.8 |
| T4-B414-01-C | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.8 | 99.0 | 96.7 | 94.9 | 89.3 | 62.2 | 52.8 | 38.8 | 32.8 | 27.4 | 19.4 | 12.7 |
| T4-B414-02-A | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 99.1 | 97.6 | 95.8 | 84.0 | 60.4 | 49.2 | 38.0 | 31.7 | 26.8 | 18.7 | 11.2 |
| T4-B414-02-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.5 | 98.7 | 96.4 | 85.8 | 63.3 | 52.7 | 40.7 | 35.3 | 30.0 | 19.3 | 12.0 |
| T4-B414-02-C | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 97.9 | 92.2 | 90.0 | 84.2 | 66.3 | 52.9 | 43.6 | 36.9 | 30.8 | 20.8 | 13.4 |
| T4-B414-03-A | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 97.3 | 92.2 | 88.6 | 73.5 | 51.0 | 40.7 | 30.3 | 25.9 | 21.4 | 13.3 | 8.9 |
| T4-B414-03-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.5 | 98.5 | 96.1 | 93.3 | 78.8 | 59.9 | 54.4 | 39.2 | 32.3 | 26.8 | 17.2 | 11.7 |
| T4-B414-03-C | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 98.6 | 96.7 | 95.2 | 88.6 | 67.3 | 54.8 | 42.3 | 35.4 | 28.4 | 17.3 | 11.1 |
| T4-B414-04-A | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 99.4 | 98.6 | 97.2 | 86.7 | 59.8 | 47.7 | 36.9 | 30.9 | 25.5 | 17.5 | 11.4 |
| T4-B414-04-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 | 99.1 | 98.4 | 97.3 | 87.9 | 67.3 | 51.7 | 39.9 | 32.5 | 26.6 | 18.5 | 10.3 |
| T4-B414-04-C | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 99.6 | 99.2 | 98.7 | 97.8 | 87.5 | 64.4 | 53.6 | 41.3 | 34.7 | 28.2 | 21.7 | 12.3 |
| T4-S3-01-D | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 99.1 | 97.6 | 93.9 | 78.0 | 56.8 | 47.0 | 37.2 | 31.3 | 24.8 | 17.0 | 9.8 |
| T4-S3-01-E | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.6 | 99.4 | 99.1 | 3.0 | 2.5 | 2.0 | 1.7 | 1.3 | 0.8 | 0.5 |
| T4-S3-01-F | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.6 | 97.6 | 88.9 | 79.9 | 66.6 | 51.4 | 33.4 | 31.5 | 24.4 | 19.3 | 11.6 | 7.7 |
| T4-S3-01-G | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.1 | 98.7 | 97.2 | 92.1 | 72.6 | 54.5 | 38.9 | 32.4 | 26.4 | 22.8 | 18.0 | 14.4 | 8.4 | 4.8 |
| T4-S3-01-H | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.8 | 98.7 | 97.9 | 94.2 | 83.1 | 74.5 | 65.9 | 57.2 | 48.5 | 39.8 | 32.4 | 26.8 | 16.8 | 10.6 |
| | | | | | | 94.2 | 93.5 | 92.3 | 89.3 | 80.2 | 73.2 | 66.3 | 56.8 | 46.0 | 38.8 | 33.1 | 27.3 | 16.5 | 10.1 |

Testing performed according to ASTM D421/D422

JQ33

Handwritten signature

Anchor Environmental
T4 EARLY ACTION - 050332-01

Percent Retained in Each Size Fraction

| Description | % Gravel | % Coarse Sand | % Medium Sand | % Fine Sand | % Very Coarse Silt | % Coarse Silt | % Medium Silt | % Fine Silt | % Fine Silt | % Fine Silt | % Very Fine Silt | % Clay |
|-------------------------|----------|---------------|---------------|-------------|--------------------|---------------|---------------|-------------|-------------|-------------|------------------|--------|
| Particle Size (microns) | > 4750 | 4750-2000 | 2000-425 | 425-75 | 75-32 | 32-22 | 22-13 | 13-9 | 9-7 | 7-3.2 | <3.2 | |
| T4-B414-01-A | 0.1 | 0.2 | 1.9 | 24.3 | 22.4 | 7.9 | 7.9 | 4.7 | 4.7 | 7.9 | 18.1 | |
| T4-B414-01-B | 0.0 | 0.1 | 2.8 | 19.2 | 15.1 | 12.2 | 10.8 | 6.8 | 4.1 | 10.8 | 18.2 | |
| T4-B414-01-C | 0.0 | 0.1 | 0.9 | 9.7 | 27.1 | 9.4 | 14.0 | 6.0 | 5.4 | 8.0 | 19.4 | |
| T4-B414-02-A | 0.0 | 0.0 | 0.9 | 15.1 | 23.7 | 11.2 | 11.2 | 6.2 | 5.0 | 8.1 | 18.7 | |
| T4-B414-02-B | 0.0 | 0.0 | 0.5 | 13.8 | 22.5 | 10.7 | 12.0 | 5.3 | 5.3 | 10.7 | 19.3 | |
| T4-B414-02-C | 0.0 | 0.0 | 2.0 | 13.7 | 17.9 | 13.4 | 9.4 | 6.7 | 6.0 | 10.1 | 20.8 | |
| T4-B414-03-A | 0.0 | 0.0 | 2.7 | 23.8 | 22.5 | 10.4 | 10.4 | 4.4 | 4.4 | 8.1 | 13.3 | |
| T4-B414-03-B | 0.0 | 0.0 | 1.4 | 19.8 | 18.9 | 5.5 | 15.1 | 6.9 | 5.5 | 9.6 | 17.2 | |
| T4-B414-03-C | 0.0 | 0.0 | 1.4 | 10.0 | 21.4 | 12.5 | 12.5 | 6.9 | 6.9 | 11.1 | 17.3 | |
| T4-B414-04-A | 0.0 | 0.0 | 0.6 | 12.6 | 27.0 | 12.1 | 10.7 | 6.0 | 5.4 | 8.1 | 17.5 | |
| T4-B414-04-A | 0.0 | 0.0 | 0.9 | 11.1 | 20.7 | 15.5 | 11.8 | 7.4 | 5.9 | 8.1 | 18.5 | |
| T4-B414-04-A | 0.0 | 0.0 | 0.7 | 11.8 | 23.1 | 10.9 | 12.3 | 6.5 | 6.5 | 6.5 | 21.7 | |
| T4-B414-04-B | 0.0 | 0.3 | 0.5 | 15.9 | 25.3 | 10.5 | 11.2 | 5.9 | 6.6 | 7.3 | 16.5 | |
| T4-B414-04-C | 0.0 | 0.0 | 0.9 | 21.1 | 21.3 | 9.8 | 9.8 | 5.9 | 6.5 | 7.8 | 17.0 | |
| T4-S3-01-D | 0.0 | 0.0 | 0.1 | 0.8 | 96.1 | 0.5 | 0.5 | 0.3 | 0.4 | 0.4 | 0.8 | |
| T4-S3-01-E | 0.0 | 0.1 | 2.3 | 31.0 | 15.2 | 18.0 | 1.9 | 7.1 | 5.1 | 7.7 | 11.6 | |
| T4-S3-01-F | 0.9 | 0.4 | 6.5 | 53.2 | 6.5 | 6.0 | 3.6 | 4.8 | 3.6 | 6.0 | 8.4 | |
| T4-S3-01-G | 1.2 | 0.2 | 4.5 | 28.3 | 8.7 | 8.7 | 8.7 | 7.5 | 5.6 | 10.0 | 16.8 | |
| T4-S3-01-H | 5.8 | 0.7 | 4.2 | 23.0 | 9.5 | 10.8 | 7.2 | 5.8 | 5.8 | 10.8 | 16.5 | |

JQ33

200602

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-01-A
ARI ID: 06-12923 JQ33A

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 54.60 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.21 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-01-B
ARI ID: 06-12924 JQ33B

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 52.10 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb,1981 | Percent | 0.020 | 2.13 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-01-C
ARI ID: 06-12925 JQ33C

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 53.10 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb,1981 | Percent | 0.020 | 1.70 |

RL Analytical reporting limit
U Undetected at reported detection limit

1641 *[Signature]*
9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized *mm*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-B414-02-A
ARI ID: 06-12926 JQ33D

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 50.90 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.83 |

RL Analytical reporting limit
U Undetected at reported detection limit

1642 *9/28/06*

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *mb*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-B414-02-B
ARI ID: 06-12927 JQ33E

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 51.40 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.80 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-B414-02-C
ARI ID: 06-12928 JQ33F

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 52.40 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 2.60 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-03-A
ARI ID: 06-12929 JQ33G

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 52.80 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.29 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06
1645

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-03-B
ARI ID: 06-12930 JQ33H

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 51.90 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.52 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/20/06

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *mmf*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-03-C
ARI ID: 06-12931 JQ33I

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 51.30 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb,1981 | Percent | 0.020 | 2.23 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06
1647

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MS*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-04-A
ARI ID: 06-12932 JQ33J

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 49.50 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.81 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06
1648

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-04-B
ARI ID: 06-12933 JQ33K

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 55.70 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.47 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-04-C
ARI ID: 06-12934 JQ33L

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 53.10 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.46 |

RL Analytical reporting limit
U Undetected at reported detection limit

19/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-D
ARI ID: 06-12935 JQ33M

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 52.90 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.97 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/02

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-E
ARI ID: 06-12936 JQ33N

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 55.90 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb,1981 | Percent | 0.020 | 2.01 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/18/06

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-F
ARI ID: 06-12937 JQ330

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 58.80 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 2.35 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/03

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-G
ARI ID: 06-12938 JQ33P

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 55.90 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 2.57 |

RL Analytical reporting limit
U Undetected at reported detection limit

7/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-H
ARI ID: 06-12939 JQ33Q

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#3 | EPA 160.3 | Percent | 0.01 | 57.50 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 2.25 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

LDC #: 15488B6
 SDG #: JQ33
 Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 9/21/06
 Page: 1 of 1
 Reviewer: MM
 2nd Reviewer: [Signature]

METHOD: (Analyte) Grain Size (ASTM D421), Total Solids (EPA Method 160.3) TOC (Plumb)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|----|---------------------------------|
| I. | Technical holding times | A | Sampling dates: 7/18 - 20/06 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification | A | |
| III. | Blanks | A | |
| IV | Matrix Spike/Matrix Spike Duplicates | A | MS |
| V | Duplicates | A | duplicate |
| VI. | Laboratory control samples | A | MS, SRM |
| VII. | Sample result verification | N | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | SW | (4, T4-B414-02-A-DUP (S6GT052)) |
| X | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: Sediment.

| | | | | | | | |
|----|--------------|----|-----------------|----|-----------------|----|--|
| 1 | T4-B414-01-A | 11 | T4-B414-04-B | 21 | T4-B414-04-ATRP | 31 | |
| 2 | T4-B414-01-B | 12 | T4-B414-04-C | 22 | T4-B414-02-ATRP | 32 | |
| 3 | T4-B414-01-C | 13 | T4-S3-01-D | 23 | MS | 33 | |
| 4 | T4-B414-02-A | 14 | T4-S3-01-E | 24 | | 34 | |
| 5 | T4-B414-02-B | 15 | T4-S3-01-F | 25 | | 35 | |
| 6 | T4-B414-02-C | 16 | T4-S3-01-G | 26 | | 36 | |
| 7 | T4-B414-03-A | 17 | T4-S3-01-H | 27 | | 37 | |
| 8 | T4-B414-03-B | 18 | T4-B414-02-AMS | 28 | | 38 | |
| 9 | T4-B414-03-C | 19 | T4-B414-02-ADUP | 29 | | 39 | |
| 10 | T4-B414-04-A | 20 | T4-B414-04-ADUP | 30 | | 40 | |

Notes: _____

LDC#: 15488B6
SDG#: J033

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: mn
2nd Reviewer: g

Inorganics, Method See cone

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

| Analyte | Concentration (%) | | RPD (<u>≤ 75</u>) | |
|--------------|-------------------|--------------|------------------------|--|
| | T4-B414-02-A-DUP | T4-B414-02-A | | |
| Total Solids | 50.10 | 50.90 | 2 | |
| TOC | 1.74 | 1.83 | 5 | |

V:\FIELD DUPLICATES\FD_inorganic\15488B6.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Wet Chemistry
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): JQ35

Sample Identification

T4-S3-02-C T4-S3-02-FTRP
T4-S3-02-D
T4-S3-02-E
T4-S3-02-F
T4-S3-03-B
T4-S3-03-C
T4-S3-03-D
T4-S3-05-E
T4-S3-05-F
T4-S3-05-G
T4-S3-05-H
T4-S3-05-J
T4-S3-06-A
T4-S3-06-B
T4-S3-08-B
T4-S3-08-C
T4-S3-02-FMS
T4-S3-02-FDUP
T4-S3-03-BDUP
T4-S3-03-BTRP

Introduction

This data review covers 21 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 160.3 for Total Solids, Plumb Method for Total Organic Carbon, and ASTM Method D421 for Grain Size.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2002) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Analyte | %R (Limits) | Flag | A or P |
|--|----------------------|----------------|-----------------|--------|
| T4-S3-02-FMS (T4-S3-02-C T4-S3-02-D T4-S3-02-E T4-S3-02-F T4-S3-03-B T4-S3-03-C T4-S3-03-D T4-S3-05-E T4-S3-05-F T4-S3-05-G T4-S3-05-H T4-S3-06-A T4-S3-06-B T4-S3-08-B T4-S3-08-C) | Total organic carbon | 142.7 (75-125) | J (all detects) | A |

V. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

Standard reference material (SRM) percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

Samples T4-S3-02-F and T4-S3-02-F-DUP (from SDG JQ52), samples T4-S3-03-C and T4-S3-03-C-DUP (from SDG JQ52), and samples T4-S3-08-C and T4-S3-08-C-DUP (from SDG JQ52) were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

| Analyte | Concentration (%) | | RPD (Limits) |
|----------------------|-------------------|------------|------------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Total solids | 53.60 | 54.50 | 2 (≤ 75) |
| Total organic carbon | 1.62 | 1.98 | 20 (≤ 75) |

| Analyte | Concentration (%) | | RPD (Limits) |
|----------------------|-------------------|------------|-----------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Total solids | 60.90 | 59.90 | 2 (≤ 75) |
| Total organic carbon | 1.82 | 1.86 | 2 (≤ 75) |

| Analyte | Concentration (%) | | RPD (Limits) |
|----------------------|-------------------|------------|------------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Total solids | 83.00 | 89 | 0 (≤ 75) |
| Total organic carbon | 0.130 | 0.196 | 40 (≤ 75) |

X. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Wet Chemistry - Data Qualification Summary - SDG JQ35**

| SDG | Sample | Analyte | Flag | A or P | Reason |
|------|--|----------------------|-----------------|--------|----------------------------|
| JQ35 | T4-S3-02-C T4-S3-02-D T4-S3-02-E T4-S3-02-F T4-S3-03-B T4-S3-03-C T4-S3-03-D T4-S3-05-E T4-S3-05-F T4-S3-05-G T4-S3-05-H T4-S3-06-A T4-S3-06-B T4-S3-08-B T4-S3-08-C | Total organic carbon | J (all detects) | A | Matrix spike analysis (%R) |

**Terminal 4 Early Action
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG JQ35**

No Sample Data Qualified in this SDG

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-C
ARI ID: 06-12956 JQ35A

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 53.50 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 2.04 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

7/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *mb*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-D
ARI ID: 06-12957 JQ35B

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 56.20 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 1.94 J |

RL Analytical reporting limit
U Undetected at reported detection limit

19/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-E
ARI ID: 06-12958 JQ35C

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 58.60 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 2.10 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-F
ARI ID: 06-12959 JQ35D

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 54.50 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 1.98 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONAL
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-03-B
ARI ID: 06-12960 JQ35E

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 56.20 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb,1981 | Percent | 0.020 | 1.88 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-03-C
ARI ID: 06-12961 JQ35F

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 59.90 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 1.86 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-03-D
ARI ID: 06-12962 JQ35G

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 66.80 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 1.56 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-E
ARI ID: 06-12963 JQ35H

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 52.80 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 1.95 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

4/26/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-F
ARI ID: 06-12964 JQ35I

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 56.40 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 2.26 J |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-G
ARI ID: 06-12965 JQ35J

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 56.80 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 2.00 J |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MR*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-H
ARI ID: 06-12966 JQ35K

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 56.20 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 2.48 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-J
ARI ID: 06-12967 JQ35L

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 80.80 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 0.503 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-06-A
ARI ID: 06-12968 JQ35M

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 42.40 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 1.83 J |

RL Analytical reporting limit
U Undetected at reported detection limit

Handwritten signature/initials
9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-06-B
ARI ID: 06-12969 JQ35N

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|----------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 78.10 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 0.154 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *mb*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-08-B
ARI ID: 06-12970 JQ350

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 68.50 |
| Total Organic Carbon | 07/25/06 072506#1 | Plumb, 1981 | Percent | 0.020 | 1.87 <i>J</i> |

RL Analytical reporting limit
U Undetected at reported detection limit

07/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-08-C
ARI ID: 06-12971 JQ35P

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|---------|
| Total Solids | 07/24/06 072406#2 | EPA 160.3 | Percent | 0.01 | 83.00 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 0.196 J |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

Percent Finer (Passing) Than the Indicated Size

| Sieve Size (microns) | 2" | 1" | 3/4" | 1/2" | 3/8" | #4 (4750) | #10 (2000) | #20 (850) | #40 (425) | #60 (250) | #100 (150) | #200 (75) | 32 | 22 | 13 | 9 | 7 | 3.2 | 1.3 |
|----------------------|-------|-------|-------|-------|-------|-----------|------------|-----------|-----------|-----------|------------|-----------|------|------|------|------|------|------|------|
| T4-S3-03-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 98.0 | 90.8 | 86.9 | 81.9 | 72.6 | 59.3 | 45.3 | 39.0 | 32.0 | 20.3 | 13.3 |
| T4-S3-03-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 97.9 | 91.0 | 87.1 | 82.0 | 70.0 | 60.0 | 46.2 | 40.0 | 32.3 | 21.5 | 13.1 |
| T4-S3-02-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 97.8 | 90.6 | 86.8 | 81.2 | 71.2 | 60.1 | 45.9 | 38.8 | 30.9 | 18.2 | 11.1 |
| T4-S3-02-C | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 97.4 | 88.7 | 84.1 | 77.6 | 63.4 | 52.9 | 41.7 | 35.0 | 28.3 | 17.9 | 10.4 |
| T4-S3-02-D | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 96.2 | 83.3 | 74.0 | 61.6 | 46.9 | 39.9 | 29.7 | 25.0 | 20.3 | 13.3 | 7.0 |
| T4-S3-02-E | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 91.6 | 67.3 | 54.8 | 46.3 | 38.9 | 33.4 | 24.1 | 21.0 | 16.3 | 10.9 | 6.2 |
| T4-S3-02-F | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 97.4 | 90.6 | 85.7 | 78.8 | 70.5 | 57.8 | 46.7 | 39.6 | 32.5 | 20.6 | 11.9 |
| T4-S3-03-C | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 94.6 | 78.9 | 73.6 | 68.6 | 58.3 | 51.6 | 40.4 | 32.9 | 26.9 | 17.9 | 10.5 |
| T4-S3-03-D | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 93.9 | 80.9 | 75.4 | 64.8 | 47.6 | 37.2 | 29.0 | 23.8 | 18.6 | 11.9 | 7.4 |
| T4-S3-05-E | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 98.2 | 93.6 | 90.8 | 84.5 | 67.4 | 58.0 | 47.1 | 37.7 | 30.5 | 20.3 | 12.3 |
| T4-S3-05-F | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 | 99.2 | 95.0 | 86.1 | 81.9 | 76.0 | 62.4 | 54.5 | 41.8 | 34.0 | 27.6 | 18.2 | 11.1 |
| T4-S3-05-G | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 99.1 | 90.7 | 75.9 | 70.2 | 63.3 | 50.2 | 43.4 | 33.5 | 27.4 | 22.1 | 12.2 | 8.4 |
| T4-S3-05-H | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.5 | 94.1 | 83.9 | 79.5 | 73.4 | 59.1 | 53.8 | 42.4 | 34.9 | 29.5 | 19.7 | 12.9 |
| T4-S3-05-J | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 97.2 | 61.1 | 13.9 | 3.7 | 2.1 | 0.9 | 0.9 | 0.9 | 0.4 | 0.0 | 0.0 | 0.0 |
| T4-S3-06-A | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 94.9 | 76.8 | 65.2 | 58.2 | 50.7 | 43.9 | 32.6 | 27.0 | 21.4 | 11.3 | 6.8 |
| T4-S3-06-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 97.8 | 61.6 | 13.3 | 5.0 | 4.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 |
| T4-S3-08-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.4 | 74.1 | 42.9 | 34.5 | 30.1 | 23.6 | 20.5 | 14.3 | 11.8 | 8.7 | 5.0 | 3.7 |
| T4-S3-08-C | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 99.4 | 95.2 | 57.3 | 15.7 | 6.1 | 4.0 | 2.2 | 1.8 | 1.8 | 1.3 | 0.4 | 0.0 | 0.0 |

9/28/02

[Handwritten signature]

Anchor Environmental
T4 Early Action 050332-01

Percent Retained in Each Size Fraction

| Description | % Gravel | % Coarse Sand | % Medium Sand | % Fine Sand | % Very Coarse Silt | % Coarse Silt | % Medium Silt | % Fine Silt | % Fine Silt | % Very Fine Silt | % Clay |
|-------------------------|----------|---------------|---------------|-------------|--------------------|---------------|---------------|-------------|-------------|------------------|--------|
| Particle Size (microns) | > 4750 | 4750-2000 | 2000-425 | 425-75 | 75-32 | 32-22 | 22-13 | 13-9 | 9-7 | 7-3.2 | <3.2 |
| T4-S3-03-B | 0.0 | 0.0 | 2.0 | 16.1 | 9.2 | 13.3 | 14.1 | 6.2 | 7.0 | 11.7 | 20.3 |
| T4-S3-03-B | 0.0 | 0.0 | 2.1 | 15.9 | 12.0 | 10.0 | 13.8 | 6.2 | 7.7 | 10.8 | 21.5 |
| T4-S3-03-B | 0.0 | 0.0 | 2.2 | 16.6 | 10.0 | 11.1 | 14.2 | 7.1 | 7.9 | 12.7 | 18.2 |
| T4-S3-02-C | 0.0 | 0.0 | 2.6 | 19.8 | 14.2 | 10.4 | 11.2 | 6.7 | 6.7 | 10.4 | 17.9 |
| T4-S3-02-D | 0.0 | 0.0 | 3.8 | 34.6 | 14.7 | 7.0 | 10.2 | 4.7 | 4.7 | 7.0 | 13.3 |
| T4-S3-02-E | 0.0 | 0.0 | 8.4 | 45.3 | 7.4 | 5.4 | 9.3 | 3.1 | 4.7 | 5.4 | 10.9 |
| T4-S3-02-F | 0.0 | 0.2 | 2.4 | 18.6 | 8.3 | 12.7 | 11.1 | 7.1 | 7.1 | 11.9 | 20.6 |
| T4-S3-03-C | 0.0 | 0.0 | 5.4 | 26.1 | 10.2 | 6.7 | 11.2 | 7.5 | 6.0 | 9.0 | 17.9 |
| T4-S3-03-D | 0.0 | 0.0 | 6.1 | 29.1 | 17.2 | 10.4 | 8.2 | 5.2 | 5.2 | 6.7 | 11.9 |
| T4-S3-05-E | 0.0 | 0.0 | 1.8 | 13.7 | 17.1 | 9.4 | 10.9 | 9.4 | 7.3 | 10.2 | 20.3 |
| T4-S3-05-F | 0.2 | 0.2 | 4.6 | 19.0 | 13.7 | 7.9 | 12.6 | 7.9 | 6.3 | 9.5 | 18.2 |
| T4-S3-05-G | 0.0 | 0.2 | 9.1 | 27.5 | 13.0 | 6.8 | 9.9 | 6.1 | 5.3 | 9.9 | 12.2 |
| T4-S3-05-H | 0.0 | 0.0 | 5.9 | 20.7 | 14.3 | 5.3 | 11.4 | 7.6 | 5.3 | 9.8 | 19.7 |
| T4-S3-05-J | 0.0 | 0.1 | 38.8 | 59.0 | 1.3 | 0.0 | 0.0 | 0.4 | 0.4 | 0.0 | 0.0 |
| T4-S3-06-A | 0.0 | 0.0 | 5.1 | 36.7 | 7.5 | 6.8 | 11.3 | 5.6 | 5.6 | 10.1 | 11.3 |
| T4-S3-06-B | 0.0 | 0.1 | 38.3 | 57.6 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 |
| T4-S3-08-B | 0.0 | 0.0 | 25.9 | 44.0 | 6.4 | 3.1 | 6.2 | 2.5 | 3.1 | 3.7 | 5.0 |
| T4-S3-08-C | 0.2 | 0.3 | 42.2 | 53.2 | 1.8 | 0.4 | 0.0 | 0.4 | 0.9 | 0.4 | 0.0 |

JC35

12 09 > 896

LDC #: 15488C6

VALIDATION COMPLETENESS WORKSHEET

Date: 9/21/06

SDG #: JQ35

Level III

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: *ms*

2nd Reviewer: *J*

METHOD: (Analyte) Grain Size (ASTM D421), Total Solids (EPA Method 160.3) TOC (Plumb)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|--------------|--|
| I. | Technical holding times | A | Sampling dates: 9/18-20/06 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification | A | |
| III. | Blanks | A | |
| IV | Matrix Spike/Matrix Spike Duplicates | SW | <i>SW</i> |
| V | Duplicates | A | LES, SRM Triplicate |
| VI. | Laboratory control samples | A | LES, SRM |
| VII. | Sample result verification | N | |
| VIII. | Overall assessment of data | A | <i>SPG JAS</i> |
| IX. | Field duplicates | SW | (4, T4-S3-02-F-DUP), (6, T4-S3-03-C-DUP), (16, T4-S3-08-C-DUP) |
| X | Field blanks | N | |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

Sediment

| | | | | | | | |
|----|------------|----|---------------|----|----------------|----|--|
| 1 | T4-S3-02-C | 11 | T4-S3-05-H | 21 | T4-S3-02-F TRP | 31 | |
| 2 | T4-S3-02-D | 12 | T4-S3-05-J | 22 | MB | 32 | |
| 3 | T4-S3-02-E | 13 | T4-S3-06-A | 23 | | 33 | |
| 4 | T4-S3-02-F | 14 | T4-S3-06-B | 24 | | 34 | |
| 5 | T4-S3-03-B | 15 | T4-S3-08-B | 25 | | 35 | |
| 6 | T4-S3-03-C | 16 | T4-S3-08-C | 26 | | 36 | |
| 7 | T4-S3-03-D | 17 | T4-S3-02-FMS | 27 | | 37 | |
| 8 | T4-S3-05-E | 18 | T4-S3-02-FDUP | 28 | | 38 | |
| 9 | T4-S3-05-F | 19 | T4-S3-03-BDUP | 29 | | 39 | |
| 10 | T4-S3-05-G | 20 | T4-S3-03-BTRP | 30 | | 40 | |

Notes: _____

LDC#: 15488C6
 SDG#: J035

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: WJ
 2nd Reviewer: [Signature]

Inorganics, Method See com

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

| Analyte | Concentration (%) | | RPD | |
|--------------|-------------------|------------|-----|--|
| | T4-S3-02-F-DUP | T4-S3-02-F | | |
| Total Solids | 53.60 | 54.50 | 2 | |
| TOC | 1.62 | 1.98 | 20 | |

| Analyte | Concentration (%) | | RPD | |
|--------------|-------------------|------------|-----|--|
| | T4-S3-03-C-DUP | T4-S3-03-C | | |
| Total Solids | 60.90 | 59.90 | 2 | |
| TOC | 1.82 | 1.86 | 2 | |

| Analyte | Concentration (%) | | RPD | |
|--------------|-------------------|------------|-----|--|
| | T4-S3-08-C-DUP | T4-S3-08-C | | |
| Total Solids | 83.00 | 83.00 | 0 | |
| TOC | 0.130 | 0.196 | 40 | |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Wet Chemistry
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): JQ35

Sample Identification

T4-S3-07-B
T4-S3-07-C
T4-S3-07-D
T4-S3-07-E
T4-S3-04-A
T4-S3-04-B
T4-S3-04-C
T4-S3-04-D
T4-WB-01
T4-WB-02
T4-WB-03
T4-WB-04
T4-S3-07-BMS
T4-S3-07-BDUP
T4-WB-03DUP
T4-WB-03TRP
T4-S3-07-BTRP

Introduction

This data review covers 17 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 160.3 for Total Solids, Plumb Method for Total Organic Carbon, and ASTM Method D421 for Grain Size.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2002) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

Standard reference material (SRM) percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Wet Chemistry - Data Qualification Summary - SDG JQ35**

No Sample Data Qualified in this SDG

**Terminal 4 Early Action
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG JQ35**

No Sample Data Qualified in this SDG

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MP*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-07-B
ARI ID: 06-12972 JQ36A

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 51.60 |
| Total Organic Carbon | 07/27/06 072706#1 | Plumb, 1981 | Percent | 0.020 | 1.66 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MP*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-07-C
ARI ID: 06-12973 JQ36B

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 55.70 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 2.07 |

RL Analytical reporting limit
U Undetected at reported detection limit

07/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *mp*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-07-D
ARI ID: 06-12974 JQ36C

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 66.60 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.71 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MP*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-07-E
ARI ID: 06-12975 JQ36D

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 82.30 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 0.442 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-04-A
ARI ID: 06-12976 JQ36E

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 58.90 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb,1981 | Percent | 0.020 | 2.42 |

RL Analytical reporting limit
U Undetected at reported detection limit

0088 *9/28/06*

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MS*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-04-B
ARI ID: 06-12977 JQ36F

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 72.30 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb,1981 | Percent | 0.020 | 0.402 |

RL Analytical reporting limit
U Undetected at reported detection limit

Signature

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-04-C
ARI ID: 06-12978 JQ36G

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 77.50 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb,1981 | Percent | 0.020 | 1.27 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MP*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-04-D
ARI ID: 06-12979 JQ36H

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 82.90 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 0.232 |

RL Analytical reporting limit
U Undetected at reported detection limit

8/21/06

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-WB-01
ARI ID: 06-12980 JQ36I

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 40.30 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.81 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized *MP*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-WB-02
ARI ID: 06-12981 JQ36J

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 52.70 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 1.72 |

RL Analytical reporting limit
U Undetected at reported detection limit

MP
07/28/06
0093

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-WB-03
ARI ID: 06-12982 JQ36K

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 43.90 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb, 1981 | Percent | 0.020 | 2.05 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ36-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MP*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-WB-04
ARI ID: 06-12983 JQ36L

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|------------|---------|-------|--------|
| Total Solids | 07/24/06 072406#1 | EPA 160.3 | Percent | 0.01 | 44.30 |
| Total Organic Carbon | 07/26/06 072606#1 | Plumb,1981 | Percent | 0.020 | 1.69 |

RL Analytical reporting limit
U Undetected at reported detection limit

Handwritten signature and date: 7/28/06

Percent Finer (Passing) Than the Indicated Size

| Sieve Size (microns) | 2" | 1" | 3/4" | 1/2" | 3/8" | #4 (4750) | #10 (2000) | #20 (850) | #40 (425) | #60 (250) | #100 (150) | #200 (75) | 32 | 22 | 13 | 9 | 7 | 3.2 | 1.3 |
|----------------------|-------|-------|-------|-------|-------|-----------|------------|-----------|-----------|-----------|------------|-----------|------|------|------|------|------|------|------|
| T4-WB-03 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.5 | 99.1 | 98.6 | 92.7 | 66.1 | 53.2 | 41.1 | 35.5 | 28.2 | 19.3 | 13.7 |
| T4-WB-03 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 | 99.1 | 98.5 | 92.7 | 64.3 | 50.8 | 39.7 | 31.7 | 27.0 | 17.5 | 11.9 |
| T4-WB-03 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.5 | 99.0 | 98.4 | 93.0 | 65.5 | 50.1 | 38.0 | 30.7 | 25.1 | 16.2 | 10.5 |
| T4-S3-07-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 98.9 | 95.8 | 93.6 | 86.1 | 62.5 | 55.5 | 43.0 | 35.2 | 28.1 | 18.7 | 13.3 |
| T4-S3-07-C | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 98.7 | 95.6 | 94.3 | 87.7 | 71.2 | 59.8 | 49.8 | 40.6 | 32.9 | 20.7 | 13.8 |
| T4-S3-07-D | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.0 | 84.5 | 62.2 | 56.3 | 52.3 | 44.6 | 36.9 | 29.1 | 23.4 | 19.1 | 12.0 | 7.8 |
| T4-S3-07-E | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 98.5 | 65.2 | 18.0 | 7.1 | 5.5 | 4.4 | 4.0 | 3.5 | 2.6 | 2.2 | 1.3 | 1.3 |
| T4-S3-04-A | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.8 | 99.6 | 97.7 | 78.9 | 52.9 | 44.6 | 37.2 | 29.8 | 25.9 | 18.1 | 14.9 | 11.8 | 7.1 | 4.7 |
| T4-S3-04-B | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.5 | 95.5 | 55.9 | 15.2 | 7.7 | 5.0 | 3.5 | 3.1 | 2.2 | 2.2 | 1.3 | 0.4 | 0.4 |
| T4-S3-04-C | 100.0 | 100.0 | 99.5 | 99.5 | 99.2 | 98.7 | 98.2 | 96.8 | 77.8 | 42.9 | 29.2 | 21.5 | 13.9 | 10.8 | 9.4 | 7.2 | 5.8 | 3.1 | 2.2 |
| T4-S3-04-D | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 | 96.6 | 63.0 | 17.2 | 5.9 | 3.1 | 2.2 | 1.7 | 1.3 | 0.9 | 0.4 | 0.4 | 0.4 |
| T4-WB-01 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 99.9 | 99.3 | 98.8 | 98.1 | 93.2 | 62.2 | 51.0 | 37.5 | 30.3 | 23.9 | 14.3 | 10.4 |
| T4-WB-02 | 100.0 | 100.0 | 99.4 | 99.4 | 99.4 | 99.4 | 99.1 | 98.7 | 93.4 | 70.4 | 55.4 | 47.0 | 37.7 | 28.3 | 22.0 | 16.5 | 14.9 | 9.4 | 5.5 |
| T4-WB-04 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.9 | 94.2 | 91.3 | 81.8 | 54.1 | 44.8 | 34.0 | 28.6 | 22.4 | 13.9 | 9.3 |

Testing performed according to ASTM D421/D422

19/28/03

Anchor Environmental
T4 Early Action, 050332-01

Percent Retained in Each Size Fraction

| Description | % Gravel | % Coarse Sand | % Medium Sand | % Fine Sand | % Very Coarse Silt | % Coarse Silt | % Medium Silt | % Fine Silt | % Fine Silt | % Fine Silt | % Very Fine Silt | % Clay |
|-------------------------|----------|---------------|---------------|-------------|--------------------|---------------|---------------|-------------|-------------|-------------|------------------|--------|
| Particle Size (microns) | > 4750 | 4750-2000 | 2000-425 | 425-75 | 75-32 | 32-22 | 22-13 | 13-9 | 9-7 | 7-3.2 | <3.2 | |
| T4-WB-03 | 0.0 | 0.0 | 0.5 | 6.9 | 26.6 | 12.9 | 12.1 | 5.6 | 7.3 | 8.9 | 19.3 | |
| T4-WB-03 | 0.0 | 0.0 | 0.4 | 6.9 | 28.4 | 13.5 | 11.1 | 7.9 | 4.8 | 9.5 | 17.5 | |
| T4-WB-03 | 0.0 | 0.0 | 0.5 | 6.5 | 27.5 | 15.4 | 12.1 | 7.3 | 5.7 | 8.9 | 16.2 | |
| T4-S3-07-B | 0.0 | 0.0 | 1.1 | 12.9 | 23.6 | 7.0 | 12.5 | 7.8 | 7.0 | 9.4 | 18.7 | |
| T4-S3-07-C | 0.0 | 0.0 | 1.3 | 11.0 | 16.5 | 11.5 | 10.0 | 9.2 | 7.7 | 12.3 | 20.7 | |
| T4-S3-07-D | 0.0 | 0.1 | 15.4 | 32.2 | 7.6 | 7.8 | 7.8 | 5.7 | 4.3 | 7.1 | 12.0 | |
| T4-S3-07-E | 0.0 | 0.2 | 34.6 | 59.7 | 1.1 | 0.4 | 0.4 | 0.9 | 0.4 | 0.9 | 1.3 | |
| T4-S3-04-A | 0.2 | 0.2 | 20.6 | 41.7 | 7.4 | 3.9 | 7.8 | 3.1 | 3.1 | 4.7 | 7.1 | |
| T4-S3-04-B | 0.0 | 0.5 | 43.6 | 50.9 | 1.5 | 0.4 | 0.9 | 0.0 | 0.9 | 0.9 | 0.4 | |
| T4-S3-04-C | 1.3 | 0.4 | 20.5 | 56.3 | 7.6 | 3.1 | 1.3 | 2.2 | 1.3 | 2.7 | 3.1 | |
| T4-S3-04-D | 0.0 | 0.4 | 36.6 | 60.0 | 0.9 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.4 | |
| T4-WB-01 | 0.0 | 0.1 | 0.7 | 6.0 | 31.1 | 11.2 | 13.6 | 7.2 | 6.4 | 9.6 | 14.3 | |
| T4-WB-02 | 0.6 | 0.3 | 5.8 | 46.4 | 9.3 | 9.4 | 6.3 | 5.5 | 1.6 | 5.5 | 9.4 | |
| T4-WB-04 | 0.0 | 0.0 | 1.1 | 17.1 | 27.7 | 9.3 | 10.8 | 5.4 | 6.2 | 8.5 | 13.9 | |

JC36

11/05/2004

LDC #: 15488D6
 SDG #: JQ36
 Laboratory: Analytical Resources, Inc.

VALIDATION COMPLETENESS WORKSHEET
 Level III

Date: 9/20/06
 Page: 1 of 1
 Reviewer: *MM*
 2nd Reviewer: *J*

METHOD: (Analyte) Grain Size (ASTM D421), Total Solids (EPA Method 160.3) TOC (Plumb)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|---|-------------------------|
| I. | Technical holding times | A | Sampling dates: 7/20/06 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification | A | |
| III. | Blanks | A | |
| IV | Matrix Spike/Matrix Spike Duplicates | A | MS |
| V | Duplicates | A | Triplicates, |
| VI. | Laboratory control samples | A | LCs, SRM |
| VII. | Sample result verification | N | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | N | |
| X | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: *Sediment*

| | | | | | | | |
|----|------------|----|---------------------------|----|--|----|--|
| 1 | T4-S3-07-B | 11 | T4-WB-03 | 21 | | 31 | |
| 2 | T4-S3-07-C | 12 | T4-WB-04 | 22 | | 32 | |
| 3 | T4-S3-07-D | 13 | T4-S3-07-BMS | 23 | | 33 | |
| 4 | T4-S3-07-E | 14 | T4-S3-07-BDUP | 24 | | 34 | |
| 5 | T4-S3-04-A | 15 | T4-WB-03DUP | 25 | | 35 | |
| 6 | T4-S3-04-B | 16 | T4-WB-03TRP | 26 | | 36 | |
| 7 | T4-S3-04-C | 17 | T4-S3-07-B TRP | 27 | | 37 | |
| 8 | T4-S3-04-D | 18 | MB | 28 | | 38 | |
| 9 | T4-WB-01 | 19 | | 29 | | 39 | |
| 10 | T4-WB-02 | 20 | | 30 | | 40 | |

Notes: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 19, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Wet Chemistry
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): JQ52

Sample Identification

T4-S3-02-F-DUP
T4-S3-03-C-DUP
T4-B414-02-A-DUP
T4-S3-08-C-DUP
T4-B414-02-A-DUPMS
T4-B414-02-A-DUPDUP
T4-B414-02-A-DUPTRP

Introduction

This data review covers 7 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 160.3 for Total Solids and Plumb Method for Total Organic Carbon.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2002) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Duplicates/Triplicates

Duplicate (DUP) and triplicate (TRP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

Standard reference material (SRM) percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

Samples T4-S3-02-F (from SDG JQ35) and T4-S3-02-F-DUP, samples T4-S3-03-C (from SDG JQ35) and T4-S3-03-C-DUP, samples T4-S3-08-C (from SDG JQ35) and T4-S3-08-C-DUP, and samples T4-B414-02-A (from SDG JQ35) and T4-B414-02-A-DUP were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

| Analyte | Concentration (%) | | RPD (Limits) |
|----------------------|-------------------|------------|------------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Total solids | 53.60 | 54.50 | 2 (≤ 75) |
| Total organic carbon | 1.62 | 1.98 | 20 (≤ 75) |

| Analyte | Concentration (%) | | RPD (Limits) |
|----------------------|-------------------|------------|-----------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Total solids | 60.90 | 59.90 | 2 (≤ 75) |
| Total organic carbon | 1.82 | 1.86 | 2 (≤ 75) |

| Analyte | Concentration (%) | | RPD (Limits) |
|----------------------|-------------------|--------------|-----------------|
| | T4-B414-02-A-DUP | T4-B414-02-A | |
| Total solids | 50.10 | 50.90 | 2 (≤ 75) |
| Total organic carbon | 1.74 | 1.83 | 5 (≤ 75) |

| Analyte | Concentration (%) | | RPD (Limits) |
|----------------------|-------------------|------------|------------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Total solids | 83.00 | 89 | 0 (≤ 75) |
| Total organic carbon | 0.130 | 0.196 | 40 (≤ 75) |

X. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
Wet Chemistry - Data Qualification Summary - SDG JQ52**

No Sample Data Qualified in this SDG

**Terminal 4 Early Action
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG JQ52**

No Sample Data Qualified in this SDG

SAMPLE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *mb*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-F-DUP
ARI ID: 06-13102 JQ52A

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/26/06 072606#1 | EPA 160.3 | Percent | 0.01 | 53.60 |
| Total Organic Carbon | 07/27/06 072706#1 | Plumb, 1981 | Percent | 0.020 | 1.62 |

RL Analytical reporting limit
U Undetected at reported detection limit

0049 *7/28/06*

SAMPLE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-03-C-DUP
ARI ID: 06-13103 JQ52B

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/26/06 072606#1 | EPA 160.3 | Percent | 0.01 | 60.90 |
| Total Organic Carbon | 07/27/06 072706#1 | Plumb, 1981 | Percent | 0.020 | 1.82 |

RL Analytical reporting limit
U Undetected at reported detection limit

07/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-B414-02-A-DUP
ARI ID: 06-13104 JQ52C

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/26/06 072606#1 | EPA 160.3 | Percent | 0.01 | 50.10 |
| Total Organic Carbon | 07/27/06 072706#1 | Plumb, 1981 | Percent | 0.020 | 1.74 |

RL Analytical reporting limit
U Undetected at reported detection limit

9/28/06

SAMPLE RESULTS-CONVENTIONALS
JQ52-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *MB*
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-08-C-DUP
ARI ID: 06-13114 JQ52D

| Analyte | Date | Method | Units | RL | Sample |
|----------------------|----------------------|-------------|---------|-------|--------|
| Total Solids | 07/26/06 072606#1 | EPA 160.3 | Percent | 0.01 | 83.00 |
| Total Organic Carbon | 07/27/06 072706#1 | Plumb, 1981 | Percent | 0.020 | 0.130 |

RL Analytical reporting limit
U Undetected at reported detection limit

Handwritten signature/initials
9/28/06

LDC #: 15488E6

VALIDATION COMPLETENESS WORKSHEET

SDG #: JQ52

Level III

Laboratory: Analytical Resources, Inc.

Date: 9/21/06

Page: 1 of 1

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: (Analyte) Total Solids (EPA Method 160.3) TOC (Plumb)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|----|--|
| I. | Technical holding times | A | Sampling dates: 9/18/06, 9/19/06 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification | A | |
| III. | Blanks | A | |
| IV | Matrix Spike/Matrix Spike Duplicates | A | MS |
| V | Duplicates | A | Triplicates |
| VI. | Laboratory control samples | A | LCs, SRM |
| VII. | Sample result verification | N | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | SW | (1, T4-S3-02-F), (2, T4-S3-03-C), (4, T4-S3-08-C), (3, T4-B414-02-A) |
| X | Field blanks | N | 504 SA35 / 504 SA33 |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: *Setpoint*

| | | | | | | | |
|----|---------------------|----|--|----|--|----|--|
| 1 | T4-S3-02-F-DUP | 11 | | 21 | | 31 | |
| 2 | T4-S3-03-C-DUP | 12 | | 22 | | 32 | |
| 3 | T4-B414-02-A-DUP | 13 | | 23 | | 33 | |
| 4 | T4-S3-08-C-DUP | 14 | | 24 | | 34 | |
| 5 | T4-B414-02-A-DUPMS | 15 | | 25 | | 35 | |
| 6 | T4-B414-02-A-DUPDUP | 16 | | 26 | | 36 | |
| 7 | <i>✓ TRP</i> | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC#: 15488 Z6
 SDG#: 8252

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: my
 2nd Reviewer: J

Inorganics, Method See cover

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?
 Were target analytes detected in the field duplicate pairs?

| Analyte | Concentration (%) | | (575) RPD |
|--------------|-------------------|------------|--------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Total Solids | 53.60 | 54.50 | 2 |
| TOC | 1.62 | 1.98 | 20 |

| Analyte | Concentration (%) | | (575) RPD |
|--------------|-------------------|------------|--------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Total Solids | 60.90 | 59.90 | 2 |
| TOC | 1.82 | 1.86 | 2 |

| Analyte | Concentration (%) | | (575) RPD |
|--------------|-------------------|--------------|--------------|
| | T4-B414-02-A-DUP | T4-B414-02-A | |
| Total Solids | 50.10 | 50.90 | 2 |
| TOC | 1.74 | 1.83 | 5 |

| Analyte | Concentration (%) | | (575) RPD |
|--------------|-------------------|------------|--------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Total Solids | 83.00 | 83.00 | 0 |
| TOC | 0.130 | 0.196 | 40 |

**Terminal 4 Early Action
Data Validation Reports
LDC# 15488**

Diesel Range Organics & Motor Oil Range Organics

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Diesel Range Organics & Motor Oil Range Organics
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): JQ33

Sample Identification

T4-B414-01-A
T4-B414-01-B
T4-B414-01-C
T4-B414-02-A
T4-B414-02-B
T4-B414-02-C
T4-B414-03-A
T4-B414-03-B
T4-B414-03-C
T4-B414-04-A
T4-B414-04-B
T4-B414-04-C
T4-S3-01-D
T4-S3-01-E
T4-S3-01-F
T4-S3-01-G
T4-S3-01-H
T4-B414-02-AMS
T4-B414-02-AMSD

Introduction

This data review covers 19 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method NWTPH-Dx for Diesel Range Organics and Motor Oil Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for all compounds.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No diesel range organic or motor oil range organic contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for several samples. Since the samples were diluted out, no data were qualified.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

The QAPP reporting limits were met with the following exceptions:

| Sample | Compound | Finding | Criteria | Flag | A or P |
|-------------------------|--------------------------|---|--|------|--------|
| All samples in SDG JQ33 | Diesel range organics | Laboratory reporting limit reported at 5.0 mg/Kg. | Reporting limit should be reported at 0.25 mg/Kg per the QAPP. | None | P |
| All samples in SDG JQ33 | Motor oil range organics | Laboratory reporting limit reported at 10 mg/Kg. | Reporting limit should be reported at 0.5 mg/Kg per the QAPP. | None | P |

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report if data has been qualified.

IX. Field Duplicates

Samples T4-B414-02-A-DUP (from SDG JQ52) and T4-B414-02-A were identified as field duplicates. No diesel range organics or motor oil range organics were detected in any of the samples with the following exceptions:

| Compound | Concentration (mg/Kg) | | RPD (Limits) |
|--------------------------|-----------------------|--------------|------------------|
| | T4-B414-02-A-DUP | T4-B414-02-A | |
| Diesel range organics | 21 | 26 | 21 (≤ 75) |
| Motor oil range organics | 52 | 97 | 60 (≤ 75) |

X. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
 Diesel Range Organics & Motor Oil Range Organics - Data Qualification Summary -
 SDG JQ33**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|--|---|--------------|--------|---------------------------------|
| JQ33 | T4-B414-01-A T4-B414-01-B T4-B414-01-C T4-B414-02-A T4-B414-02-B T4-B414-02-C T4-B414-03-A T4-B414-03-B T4-B414-03-C T4-B414-04-A T4-B414-04-B T4-B414-04-C T4-S3-01-D T4-S3-01-E T4-S3-01-F T4-S3-01-G T4-S3-01-H | Diesel range organics Motor oil range organics | None None | P | Compound quantitation and CRQLs |

**Terminal 4 Early Action
 Diesel Range Organics & Motor Oil Range Organics - Laboratory Blank Data
 Qualification Summary - SDG JQ33**

No Sample Data Qualified in this SDG



ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 2
Matrix: Sediment

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized: *MW*
Reported: 07/31/06

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result |
|-----------------------|--------------------------------|-----------------|-------------------|-----|------------------------------------|----------------------------|
| JQ33A 06-12923 | T4-B414-01-A HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 20 | Diesel Motor Oil o-Terphenyl | 980 3,300 D |
| JQ33B 06-12924 | T4-B414-01-B HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 51 160 87.1% |
| JQ33C 06-12925 | T4-B414-01-C HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 120 320 74.2% |
| MB-072606 06-12926 | Method Blank HC ID: --- | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | < 5.0 U < 10 U 82.2% |
| JQ33D 06-12926 | T4-B414-02-A HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 26 97 85.1% |
| JQ33E 06-12927 | T4-B414-02-B HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 60 210 79.3% |
| JQ33F 06-12928 | T4-B414-02-C HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 92 280 81.8% |
| JQ33G 06-12929 | T4-B414-03-A HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 47 200 70.9% |
| JQ33H 06-12930 | T4-B414-03-B HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 64 220 74.2% |
| JQ33I 06-12931 | T4-B414-03-C HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 58 220 77.3% |
| JQ33J 06-12932 | T4-B414-04-A HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 46 220 79.8% |
| JQ33K 06-12933 | T4-B414-04-B HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 48 180 80.9% |
| JQ33L 06-12934 | T4-B414-04-C HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 60 210 72.4% |

1383

07/28/06

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 2 of 2
Matrix: Sediment



QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized: *mm*
Reported: 07/31/06

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result |
|-------------------|------------------------------|-----------------|-------------------|----|------------------------------------|---------------------|
| JQ33M 06-12935 | T4-S3-01-D HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 20 | Diesel Motor Oil o-Terphenyl | 270 780 D |
| JQ33N 06-12936 | T4-S3-01-E HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 20 | Diesel Motor Oil o-Terphenyl | 530 1,500 D |
| JQ33O 06-12937 | T4-S3-01-F HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 20 | Diesel Motor Oil o-Terphenyl | 1,100 2,900 D |
| JQ33P 06-12938 | T4-S3-01-G HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 20 | Diesel Motor Oil o-Terphenyl | 910 2,300 D |
| JQ33Q 06-12939 | T4-S3-01-H HC ID: DRO/RRO | 07/26/06 | 07/27/06 FID3A | 20 | Diesel Motor Oil o-Terphenyl | 710 2,100 D |

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

9/28/06

METHOD: GC Diesel Range Organics (NWTPH-Dx) / MRO

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|-----------|-------------------------------------|
| I. | Technical holding times | A | Sampling dates: <u>7/18 - 20/06</u> |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification <u>ACV</u> | A | |
| III. | Blanks | A | |
| IVa. | Surrogate recovery | <u>W</u> | |
| IVb. | Matrix spike/Matrix spike duplicates | A | |
| IVc. | Laboratory control samples | A | <u>LCS</u> |
| V. | Target compound identification | N | |
| VI. | Compound Quantitation and CRQLs | <u>SN</u> | |
| VII. | System Performance | N | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | <u>SN</u> | <u>D=4+4-DUP (N&S)</u> |
| X. | Field blanks | N | <u>D=4+4-DUP</u> |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

All sed

| | | | | | | | |
|----|--------------|----|-----------------|----|------------------|----|--|
| 1 | T4-B414-01-A | 11 | T4-B414-04-B | 21 | <u>MB-072606</u> | 31 | |
| 2 | T4-B414-01-B | 12 | T4-B414-04-C | 22 | | 32 | |
| 3 | T4-B414-01-C | 13 | T4-S3-01-D | 23 | | 33 | |
| 4 | T4-B414-02-A | 14 | T4-S3-01-E | 24 | | 34 | |
| 5 | T4-B414-02-B | 15 | T4-S3-01-F | 25 | | 35 | |
| 6 | T4-B414-02-C | 16 | T4-S3-01-G | 26 | | 36 | |
| 7 | T4-B414-03-A | 17 | T4-S3-01-H | 27 | | 37 | |
| 8 | T4-B414-03-B | 18 | T4-B414-02-AMS | 28 | | 38 | |
| 9 | T4-B414-03-C | 19 | T4-B414-02-AMSD | 29 | | 39 | |
| 10 | T4-B414-04-A | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 1548088
 SDG #: JR33

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: [Signature]
 2nd reviewer: [Signature]

METHOD: GC HPLC

N/A Were field duplicate pairs identified in this SDG?

Y/N N/A Were target compounds detected in the field duplicate pairs?

| Compound | Concentration (<u>MS/Kg</u>) | | %RPD Limit ≤ <u>25</u> | Qualification Parent only / All Samples |
|------------|--------------------------------|-----------|---------------------------|--|
| | | | | |
| <u>DRD</u> | <u>21</u> | <u>26</u> | <u>21</u> | |
| <u>MRO</u> | <u>52</u> | <u>97</u> | <u>60</u> | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Compound | Concentration () | | %RPD Limit ≤ _____ | Qualification Parent only / All Samples |
|----------|-------------------|--|-----------------------|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Diesel Range Organics & Motor Oil Range Organics
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): JQ35

Sample Identification

T4-S3-02-C
T4-S3-02-D
T4-S3-02-E
T4-S3-02-F
T4-S3-03-B
T4-S3-03-C
T4-S3-03-D
T4-S3-05-E
T4-S3-05-F
T4-S3-05-G
T4-S3-05-H
T4-S3-05-J
T4-S3-06-A
T4-S3-06-B
T4-S3-08-B
T4-S3-08-C
T4-S3-08-CMS
T4-S3-08-CMSD

Introduction

This data review covers 18 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method NWTPH-Dx for Diesel Range Organics and Motor Oil Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for all compounds.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No diesel range organic or motor oil range organic contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for sample T4-S3-02-D. Since the sample was diluted out, no data were qualified.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

The QAPP reporting limits were met with the following exceptions:

| Sample | Compound | Finding | Criteria | Flag | A or P |
|-------------------------|--------------------------|---|--|------|--------|
| All samples in SDG JQ35 | Diesel range organics | Laboratory reporting limit reported at 5.0 mg/Kg. | Reporting limit should be reported at 0.25 mg/Kg per the QAPP. | None | P |
| All samples in SDG JQ35 | Motor oil range organics | Laboratory reporting limit reported at 10 mg/Kg. | Reporting limit should be reported at 0.5 mg/Kg per the QAPP. | None | P |

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report if data has been qualified.

IX. Field Duplicates

Samples T4-S3-02-F-DUP (from SDG JQ52) and T4-S3-02-F, samples T4-S3-03-C-DUP (from SDG JQ52) and T4-S3-03-C, and samples T4-S3-08-C-DUP (from SDG JQ52) and T4-S3-08-C were identified as field duplicates. No diesel range organics or motor oil range organics were detected in any of the samples with the following exceptions:

| Compound | Concentration (mg/Kg) | | RPD (Limits) |
|--------------------------|-----------------------|------------|-----------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Diesel range organics | 590 | 610 | 3 (≤ 75) |
| Motor oil range organics | 710 | 680 | 4 (≤ 75) |

| Compound | Concentration (mg/Kg) | | RPD (Limits) |
|--------------------------|-----------------------|------------|------------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Diesel range organics | 360 | 400 | 11 (≤ 75) |
| Motor oil range organics | 520 | 540 | 4 (≤ 75) |

| Compound | Concentration (mg/Kg) | | RPD (Limits) |
|--------------------------|-----------------------|------------|-------------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Diesel range organics | 43 | 6.2 | 150 (≤ 75) |
| Motor oil range organics | 160 | 14 | 168 (≤ 75) |

X. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
 Diesel Range Organics & Motor Oil Range Organics - Data Qualification Summary -
 SDG JQ35**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|--|---|--------------|--------|---------------------------------|
| JQ35 | T4-S3-02-C T4-S3-02-D T4-S3-02-E T4-S3-02-F T4-S3-03-B T4-S3-03-C T4-S3-03-D T4-S3-05-E T4-S3-05-F T4-S3-05-G T4-S3-05-H T4-S3-05-J T4-S3-06-A T4-S3-06-B T4-S3-08-B T4-S3-08-C | Diesel range organics Motor oil range organics | None None | P | Compound quantitation and CRQLs |

**Terminal 4 Early Action
 Diesel Range Organics & Motor Oil Range Organics - Laboratory Blank Data
 Qualification Summary - SDG JQ35**

No Sample Data Qualified in this SDG



ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID
Page 1 of 2
Matrix: Sediment

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized:
Reported: 08/03/06

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result |
|-------------------|------------------------------|-----------------|-------------------|-----|------------------------------------|---------------------|
| JQ35A 06-12956 | T4-S3-02-C HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 150 400 67.7% |
| JQ35B 06-12957 | T4-S3-02-D HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 580 1,500 NR |
| JQ35C 06-12958 | T4-S3-02-E HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 290 640 69.3% |
| JQ35D 06-12959 | T4-S3-02-F HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 610 680 60.2% |
| JQ35E 06-12960 | T4-S3-03-B HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 270 500 74.1% |
| JQ35F 06-12961 | T4-S3-03-C HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 400 540 62.9% |
| JQ35G 06-12962 | T4-S3-03-D HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 270 320 68.7% |
| JQ35H 06-12963 | T4-S3-05-E HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 150 350 64.2% |
| JQ35I 06-12964 | T4-S3-05-F HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 340 720 63.3% |
| JQ35J 06-12965 | T4-S3-05-G HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 320 650 54.0% |
| JQ35K 06-12966 | T4-S3-05-H HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 440 960 69.2% |
| JQ35L 06-12967 | T4-S3-05-J HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 7.6 16 73.8% |
| JQ35M 06-12968 | T4-S3-06-A HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 140 300 55.6% |

Handwritten signature/initials
8/2/06

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 2 of 2
Matrix: Sediment

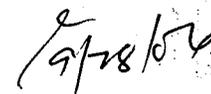
QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized:
Reported: 08/03/06 

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result |
|-----------------------|------------------------------|-----------------|-------------------|-----|------------------------------------|----------------------------|
| JQ35N 06-12969 | T4-S3-06-B HC ID: --- | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | < 6.5 U < 13 U 71.8% |
| JQ350 06-12970 | T4-S3-08-B HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 130 280 62.8% |
| MB-072806 06-12971 | Method Blank HC ID: --- | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | < 5.0 U < 10 U 70.7% |
| JQ35P 06-12971 | T4-S3-08-C HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 6.2 14 59.6% |

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.



METHOD: GC Diesel Range Organics (NWTPH-Dx) / MRO

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| Validation Area | | | Comments |
|-----------------|--------------------------------------|----|---|
| I. | Technical holding times | A | Sampling dates: 7/18 - 20/06 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification | A | ACV |
| III. | Blanks | A | |
| IVa. | Surrogate recovery | MW | |
| IVb. | Matrix spike/Matrix spike duplicates | A | |
| IVc. | Laboratory control samples | A | LCG |
| V. | Target compound identification | N | |
| VI. | Compound Quantitation and CRQLs | SN | |
| VII. | System Performance | N | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | SN | D=4+4-DUP. 6+6-DUP. 15 16 17+18-DUP (18 52) |
| X. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

M seeds

| | | | | | | | |
|----|------------|----|---------------|----|-----------|----|--|
| 1 | T4-S3-02-C | 11 | T4-S3-05-H | 21 | MB-072806 | 31 | |
| 2 | T4-S3-02-D | 12 | T4-S3-05-J | 22 | | 32 | |
| 3 | T4-S3-02-E | 13 | T4-S3-06-A | 23 | | 33 | |
| 4 | T4-S3-02-F | 14 | T4-S3-06-B | 24 | | 34 | |
| 5 | T4-S3-03-B | 15 | T4-S3-08-B | 25 | | 35 | |
| 6 | T4-S3-03-C | 16 | T4-S3-08-C | 26 | | 36 | |
| 7 | T4-S3-03-D | 17 | T4-S3-08-CMS | 27 | | 37 | |
| 8 | T4-S3-05-E | 18 | T4-S3-08-CMSD | 28 | | 38 | |
| 9 | T4-S3-05-F | 19 | | 29 | | 39 | |
| 10 | T4-S3-05-G | 20 | | 30 | | 40 | |

Notes: _____

LDC#: 15488C8
 SDG#: JQ35

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC DRO/MRO (NWTPH-Dx)

- N NA Were field duplicate pairs identified in this SDG?
 N NA Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (mg/Kg) | | RPD | (≤ 75) |
|----------|-----------------------|-----|-----|--------|
| | T4-S3-02-F-DUP | 4 | | |
| DRO | 590 | 610 | 3 | |
| MRO | 710 | 680 | 4 | |

| Compound | Concentration (mg/Kg) | | RPD | (≤ 75) |
|----------|-----------------------|-----|-----|--------|
| | T4-S3-03-C-DUP | 6 | | |
| DRO | 360 | 400 | 11 | |
| MRO | 520 | 540 | 4 | |

| Compound | Concentration (mg/Kg) | | RPD | (≤ 75) |
|----------|-----------------------|------|-----|--------|
| | T4-S3-08-C-DUP | 18.6 | | |
| DRO | 43 | 6.2 | 150 | |
| MRO | 160 | 14 | 168 | |

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Terminal 4 Early Action
Collection Date: July 20, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Diesel Range Organics & Motor Oil Range Organics
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): JQ36

Sample Identification

T4-S3-07-B
T4-S3-07-C
T4-S3-07-D
T4-S3-07-E
T4-S3-04-A
T4-S3-04-B
T4-S3-04-C
T4-S3-04-D
T4-WB-01
T4-WB-02
T4-WB-03
T4-WB-04
T4-S3-04-AMS
T4-S3-04-AMSD

Introduction

This data review covers 14 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method NWTPH-Dx for Diesel Range Organics and Motor Oil Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for all compounds.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No diesel range organic or motor oil range organic contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the samples were diluted out, no data were qualified.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

The QAPP reporting limits were met with the following exceptions:

| Sample | Compound | Finding | Criteria | Flag | A or P |
|-------------------------|--------------------------|---|--|------|--------|
| All samples in SDG JQ36 | Diesel range organics | Laboratory reporting limit reported at 5.0 mg/Kg. | Reporting limit should be reported at 0.25 mg/Kg per the QAPP. | None | P |
| All samples in SDG JQ36 | Motor oil range organics | Laboratory reporting limit reported at 10 mg/Kg. | Reporting limit should be reported at 0.5 mg/Kg per the QAPP. | None | P |

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
 Diesel Range Organics & Motor Oil Range Organics - Data Qualification Summary -
 SDG JQ36**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|--|---|--------------|--------|------------------------------------|
| JQ36 | T4-S3-07-B T4-S3-07-C T4-S3-07-D T4-S3-07-E T4-S3-04-A T4-S3-04-B T4-S3-04-C T4-S3-04-D T4-WB-01 T4-WB-02 T4-WB-03 T4-WB-04 | Diesel range organics Motor oil range organics | None None | P | Compound quantitation and CRQLs |

**Terminal 4 Early Action
 Diesel Range Organics & Motor Oil Range Organics - Laboratory Blank Data
 Qualification Summary - SDG JQ36**

No Sample Data Qualified in this SDG



ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 2
Matrix: Sediment

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized:
Reported: 08/03/06

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result |
|-----------------------|------------------------------------|-----------------|-------------------|-----|------------------------------------|----------------------------|
| JQ36A 06-12972 | T4-S3-07-B HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 110 330 66.7% |
| JQ36B 06-12973 | T4-S3-07-C HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 88 290 74.7% |
| JQ36C 06-12974 | T4-S3-07-D HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 130 370 72.6% |
| JQ36D 06-12975 | T4-S3-07-E HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 9.2 25 76.7% |
| MB-080106 06-12976 | Method Blank HC ID: --- | 08/01/06 | 08/02/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | < 5.0 U < 10 U 80.9% |
| JQ36E 06-12976 | T4-S3-04-A HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 550 1,400 78.3% |
| JQ36F 06-12977 | T4-S3-04-B HC ID: DRO/MOTOR OIL | 08/01/06 | 08/02/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 36 220 57.8% |
| JQ36G 06-12978 | T4-S3-04-C HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 5.0 | Diesel Motor Oil o-Terphenyl | 96 200 81.3% |
| JQ36H 06-12979 | T4-S3-04-D HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 8.1 15 79.3% |
| JQ36I 06-12980 | T4-WB-01 HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 32 130 78.0% |
| JQ36J 06-12981 | T4-WB-02 HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 22 110 68.9% |
| JQ36K 06-12982 | T4-WB-03 HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 32 140 75.8% |
| JQ36L 06-12983 | T4-WB-04 HC ID: DRO/RRO | 08/01/06 | 08/02/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 31 150 75.8% |

0060

8/28/06



ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 2 of 2
Matrix: Sediment

QC Report No: JQ36-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized:
Reported: 08/03/06

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result |
|--------|-----------|-----------------|---------------|----|-------|--------|
|--------|-----------|-----------------|---------------|----|-------|--------|

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

LDC #: 15488D8

VALIDATION COMPLETENESS WORKSHEET

SDG #: JQ36

Level III

Laboratory: Analytical Resources, Inc.

Date: 9/21/06

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Diesel Range Organics (NWTPH-Dx) / MFD

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|-----------|-------------------------|
| I. | Technical holding times | A | Sampling dates: 7/20/06 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification <i>REV</i> | A | |
| III. | Blanks | A | |
| IVa. | Surrogate recovery | A | |
| IVb. | Matrix spike/Matrix spike duplicates | <i>SW</i> | |
| IVc. | Laboratory control samples | A | <i>LCS</i> |
| V. | Target compound identification | N | |
| VI. | Compound Quantitation and CRQLs | <i>SN</i> | |
| VII. | System Performance | N | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | N | |
| X. | Field blanks | N | |

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

All soils

| | | | | | | | |
|----|------------|----|---------------|----|------------------|----|--|
| 1 | T4-S3-07-B | 11 | T4-WB-03 | 21 | <i>MB-080/06</i> | 31 | |
| 2 | T4-S3-07-C | 12 | T4-WB-04 | 22 | | 32 | |
| 3 | T4-S3-07-D | 13 | T4-S3-04-AMS | 23 | | 33 | |
| 4 | T4-S3-07-E | 14 | T4-S3-04-AMSD | 24 | | 34 | |
| 5 | T4-S3-04-A | 15 | | 25 | | 35 | |
| 6 | T4-S3-04-B | 16 | | 26 | | 36 | |
| 7 | T4-S3-04-C | 17 | | 27 | | 37 | |
| 8 | T4-S3-04-D | 18 | | 28 | | 38 | |
| 9 | T4-WB-01 | 19 | | 29 | | 39 | |
| 10 | T4-WB-02 | 20 | | 30 | | 40 | |

Notes: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Terminal 4 Early Action
Collection Date: July 18 through July 19, 2006
LDC Report Date: September 29, 2006
Matrix: Sediment
Parameters: Diesel Range Organics & Motor Oil Range Organics
Validation Level: EPA Level III
Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): JQ52

Sample Identification

T4-S3-02-F-DUP
T4-S3-03-C-DUP
T4-B414-02-A-DUP
T4-S3-08-C-DUP
T4-S3-02-F-DUPMS
T4-S3-02-F-DUPMSD

Introduction

This data review covers 6 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per Method NWTPH-Dx for Diesel Range Organics and Motor Oil Range Organics.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for all compounds.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No diesel range organic or motor oil range organic contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

The QAPP reporting limits were met with the following exceptions:

| Sample | Compound | Finding | Criteria | Flag | A or P |
|-------------------------|--------------------------|---|--|------|--------|
| All samples in SDG JQ52 | Diesel range organics | Laboratory reporting limit reported at 5.0 mg/Kg. | Reporting limit should be reported at 0.25 mg/Kg per the QAPP. | None | P |
| All samples in SDG JQ52 | Motor oil range organics | Laboratory reporting limit reported at 10 mg/Kg. | Reporting limit should be reported at 0.5 mg/Kg per the QAPP. | None | P |

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report if data has been qualified.

IX. Field Duplicates

Samples T4-S3-02-F-DUP and T4-S3-02-F (from SDG JQ35), samples T4-S3-03-C-DUP and T4-S3-03-C (from SDG JQ35), T4-B414-02-A-DUP and T4-B414-02-A (from SDG JQ33), and samples T4-S3-08-C-DUP and T4-S3-08-C (from SDG JQ35) were identified as field duplicates. No diesel range organics or motor oil range organics were detected in any of the samples with the following exceptions:

| Compound | Concentration (mg/Kg) | | RPD (Limits) |
|--------------------------|-----------------------|------------|-----------------|
| | T4-S3-02-F-DUP | T4-S3-02-F | |
| Diesel range organics | 590 | 610 | 3 (≤ 75) |
| Motor oil range organics | 710 | 680 | 4 (≤ 75) |

| Compound | Concentration (mg/Kg) | | RPD (Limits) |
|--------------------------|-----------------------|------------|------------------|
| | T4-S3-03-C-DUP | T4-S3-03-C | |
| Diesel range organics | 360 | 400 | 11 (≤ 75) |
| Motor oil range organics | 520 | 540 | 4 (≤ 75) |

| Compound | Concentration (mg/Kg) | | RPD (Limits) |
|--------------------------|-----------------------|--------------|------------------|
| | T4-B414-02-A-DUP | T4-B414-02-A | |
| Diesel range organics | 21 | 26 | 21 (≤ 75) |
| Motor oil range organics | 52 | 97 | 60 (≤ 75) |

| Compound | Concentration (mg/Kg) | | RPD (Limits) |
|--------------------------|-----------------------|------------|-------------------|
| | T4-S3-08-C-DUP | T4-S3-08-C | |
| Diesel range organics | 43 | 6.2 | 150 (≤ 75) |
| Motor oil range organics | 160 | 14 | 168 (≤ 75) |

X. Field Blanks

No field blanks were identified in this SDG.

**Terminal 4 Early Action
 Diesel Range Organics & Motor Oil Range Organics - Data Qualification Summary -
 SDG JQ52**

| SDG | Sample | Compound | Flag | A or P | Reason |
|------|--|---|--------------|--------|------------------------------------|
| JQ52 | T4-S3-02-F-DUP T4-S3-03-C-DUP T4-B414-02-A-DUP T4-S3-08-C-DUP | Diesel range organics Motor oil range organics | None None | P | Compound quantitation and CRQLs |

**Terminal 4 Early Action
 Diesel Range Organics & Motor Oil Range Organics - Laboratory Blank Data
 Qualification Summary - SDG JQ52**

No Sample Data Qualified in this SDG



ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID
Page 1 of 1
Matrix: Sediment

QC Report No: JQ52-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized: *[Signature]*
Reported: 08/01/06

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result |
|-----------------------|------------------------------------|-----------------|-------------------|-----|------------------------------------|----------------------------|
| MB-072806 06-13102 | Method Blank HC ID: --- | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | < 5.0 U < 10 U 59.8% |
| JQ52A 06-13102 | T4-S3-02-F-DUP HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 10 | Diesel Motor Oil o-Terphenyl | 590 710 56.4% |
| JQ52B 06-13103 | T4-S3-03-C-DUP HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 360 520 50.7% |
| JQ52C 06-13104 | T4-B414-02-A-DUP HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 21 52 70.7% |
| JQ52D 06-13114 | T4-S3-08-C-DUP HC ID: DRO/RRO | 07/28/06 | 08/01/06 FID3A | 1.0 | Diesel Motor Oil o-Terphenyl | 43 160 64.0% |

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

[Handwritten signature]
9/28/06

LDC #: 15488E8

VALIDATION COMPLETENESS WORKSHEET

Date: 9/22/06

SDG #: JQ52

Level III

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Diesel Range Organics (NWTPH-Dx) *MRO*

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--------------------------------------|-----------|-------------------------|
| I. | Technical holding times | A | Sampling dates: 7/18-19 |
| IIa. | Initial calibration | A | |
| IIb. | Calibration verification <i>ACV</i> | A | |
| III. | Blanks | A | |
| IVa. | Surrogate recovery | A | |
| IVb. | Matrix spike/Matrix spike duplicates | A | |
| IVc. | Laboratory control samples | A | <i>LCS</i> |
| V. | Target compound identification | N | |
| VI. | Compound Quantitation and CRQLs | <i>SN</i> | |
| VII. | System Performance | N | |
| VIII. | Overall assessment of data | A | |
| IX. | Field duplicates | <i>SW</i> | DEF see WS |
| X. | Field blanks | N | |

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

MI seeds

| | | | | | | | |
|----|-------------------|----|------------------|----|--|----|--|
| 1 | T4-S3-02-F-DUP | 11 | <i>MB-07-806</i> | 21 | | 31 | |
| 2 | T4-S3-03-C-DUP | 12 | | 22 | | 32 | |
| 3 | T4-B414-02-A-DUP | 13 | | 23 | | 33 | |
| 4 | T4-S3-08-C-DUP | 14 | | 24 | | 34 | |
| 5 | T4-S3-02-F-DUPMS | 15 | | 25 | | 35 | |
| 6 | T4-S3-02-F-DUPMSD | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC#: 15488E8
 SDG#: JQ52

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC DRO/MRO (NWTPH-Dx)

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

| Compound | Concentration (mg/Kg) | | RPD | (≤ 75) |
|----------|-----------------------|-------------------|-----|--------|
| | 1 | T4-S3-02-F (JQ35) | | |
| DRO | 590 | 610 | 3 | |
| MRO | 710 | 680 | 4 | |

| Compound | Concentration (mg/Kg) | | RPD | (≤ 75) |
|----------|-----------------------|-------------------|-----|--------|
| | 2 | T4-S3-03-C (JQ35) | | |
| DRO | 360 | 400 | 11 | |
| MRO | 520 | 540 | 4 | |

| Compound | Concentration (mg/Kg) | | RPD | (≤ 75) |
|----------|-----------------------|---------------------|-----|--------|
| | 3 | T4-B414-02-A (JQ33) | | |
| DRO | 21 | 26 | 21 | |
| MRO | 52 | 97 | 60 | |

| Compound | Concentration (mg/Kg) | | RPD | (≤ 75) |
|----------|-----------------------|-------------------|-----|--------|
| | 4 | T4-S3-08-C (JQ35) | | |
| DRO | 43 | 6.2 | 150 | |
| MRO | 160 | 14 | 168 | |