

# EnviroTech Consultants, Inc.

5400 Rosedale Highway  
Bakersfield, CA 93308

LDD ENERGY, LLC  
RESPONSE TO RWQCB SECTION 13267 ORDER  
POND INFORMATION AND SAMPLING RESULTS

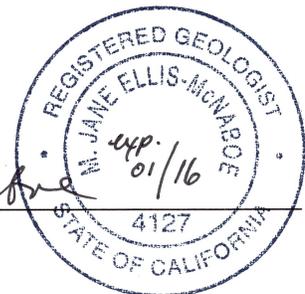
MIDWAY SUNSET OIL FIELD  
WEBBER LEASE  
SECTION 34 T30S/R22E MDB&M

June 11, 2015

Prepared by:

EnviroTech Consultants, Inc.

*M. Jane Ellis-McNaboe*  
M. Jane Ellis-McNaboe, PG



# LDD ENERGY, LLC

3553 Landco Drive

Suite B

Bakersfield, CA 93308

June 11, 2015

Certification Statement

RWQCB Order 13267, Pond Sampling Technical Report  
LDD Energy, Inc.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



---

JESSE HOLMAN

Managing Member

LDD Energy, LLC

## Table of Contents

1.0	IDENTIFICATION OF DISCHARGES OF PRODUCED WATER TO LAND .....	1
2.0	POND SAMPLING .....	1
3.0	POND SAMPLING ANALYTICAL RESULTS.....	1
4.0	INFORMATION FOR EACH SURFACE IMPOUNDMENT.....	6

### LIST OF TABLES

Table 3-1: General Chemistry .....	1
Table 3-2: Anions.....	2
Table 3-3: Metals .....	3
Table 3-4: BTEX and TPH.....	4
Table 3-5: Semi-volatile Organic Compounds .....	5
Table 3-6: Radionuclides .....	6
Table 4-1: Surface Impoundment Information .....	6

### ATTACHMENTS

ATTACHMENT A	LDD Energy, LLC Webber Ponds Map
ATTACHMENT B	Copy of RWQCB Order 13267, 1 April, 2015
ATTACHMENT C	Laboratory Analytical Report

## 1.0 IDENTIFICATION OF DISCHARGES OF PRODUCED WATER TO LAND

Two ponds were identified by the Regional Water Quality Control Board (RWQCB) containing discharges of produced water. A map of the Midway-Sunset Oil Field Webber ponds and surrounding lease is included as Attachment A.

## 2.0 POND SAMPLING

Representative samples of wastewater were collected by EnviroTech Consultants, Inc. (EnviroTech) from the pond on May 7, 2015 as required by Order 13267 dated April 1, 2015 (Attachment B). The two ponds are in series, one fluid sample was required. The samples were collected from the sample port on the wastewater tank, decanted into appropriate sampling containers and cooled with ice for storage and transportation to the laboratory under standard chain of custody procedures.

## 3.0 POND SAMPLING ANALYTICAL RESULTS

The samples were received by Test America Laboratories, Inc. on May 7, 2015. EnviroTech received the final laboratory analytical report on June 11, 2015. The analytical results are summarized in the following tables; complete laboratory reports are included in Attachment C.

**Table 3-1: General Chemistry**

Sample ID	Date Sampled	Total Dissolved Solids	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	Strontium	Alkalinity as CaCO <sub>3</sub>	Bicarbonate ion as HCO <sub>3</sub>	Carbonate as CO <sub>3</sub>	Hydroxide as OH
EPA Analytical Method		2540C_Calcd	6010B						2320B				
Units		mg/L											
Reporting limit		Reporting limits vary, see complete analytical report.											
Webber	5/7/2015	<b>Results</b>											
		<b>28,000</b>	<b>290</b>	<b>21</b>	<b>400</b>	<b>0.56</b>	<b>240</b>	<b>20,000</b>	<b>18</b>	<b>1,200</b>	<b>1,400</b>	<b>&lt;2.4</b>	<b>&lt;1.4</b>

**Bold** = Analyte detected at or above minimum reporting limit.  
 Reporting limit varies by sample. See complete analytical report.

**Table 3-2: Anions**

Sample ID	Date Sampled	Anions, Ion Chromatography			
		Bromide	Chloride	Nitrate as NO3	Sulfate
EPA Analytical Method		300_ORGFM_28D		300_ORGFMS	300_ORGFM_28D
Units		mg/L			
Reporting Limit		Reporting limit varies, see full analytical report.			
Webber	5/7/2015	<b>170</b>	<b>14,000</b>	<50	<50

**Bold** = Analyte detected at or above minimum reporting limit.  
 Reporting limit varies by sample. See full analytic report.

**Table 3-3: Metals**

Sample ID	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead
EPA Analytical Method		6010B									
Units		mg/L									
Reporting Limit		Reporting limit varies by sample. See full analytical report.									
Webber	5/7/2015	<0.01	<0.05	<b>45</b>	<0.002	<b>39</b>	<0.005	<0.005	<0.01	<0.01	<0.005

Sample ID	Date Sampled	Lithium	Molybdenum	Nickel	Selenium	Silver	Strontium	Thallium	Vanadium	Zinc	Mercury
EPA Analytical Method		6010B									7470A
Units		mg/L									
Reporting Limit		Reporting limit varies by sample. See full analytical report.									
Webber	5/7/2015	<b>17</b>	<0.02	<0.01	<0.01	<0.01	<b>18</b>	<0.01	<0.01	<0.02	<0.0002

**Bold** = Analyte detected at or above minimum reporting limit.

**Table 3-4: BTEX and TPH**

Sample ID	Date Sampled	Benzene	Ethylbenzene	Toluene	Xylenes, Total	TPH as Crude Oil: Gasoline and Diesel Range Organics (GC)		
						C4-C12	C13-C22	C23-C40
EPA Analytical Method		8260B			8015B_GRO	8015B_DRO		
Units		ug/L			ug/L	mg/L		
Reporting Limit		Varies, see laboratory report			0.48			
Webber	5/7/2015	<b>6.5</b>	<b>2.0</b>	<b>9.60</b>	<b>13</b>	<b>190</b>	<4.9	<4.9

**Bold** = Analyte detected at or above minimum reporting limit.  
 Reporting limit varies by sample. See complete laboratory report.

**Table 3-5: Semi-volatile Organic Compounds**

Sample ID	Date Sampled	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
EPA Analytical Method		8270C_SIM															
Units		ug/L															
Webber	5/7/2015	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<b>9.1</b>	<3.9

**Bold** = Analyte detected at or above minimum reporting limit.  
 Reporting limit varies by sample. See complete laboratory report.

**Table 3-6: Radionuclides**

Sample ID	Date Sampled	Gross Alpha	Gross Beta	Radium-226	Radium-228	Uranium
<b>EPA Analytical Method</b>		9310		9315_Ra226	9320_Ra228	6020A
<b>Units</b>		pCi/L				
<b>Regulatory Threshold*</b>		15	--	--	5	20
Webber	5/7/2015	9.74±99.4	97.2±71.2	<b>36.0±3.53</b>	<b>12.2±1.53</b>	<34

**Bold** = Analyte detected at or above minimum reporting limit.

Reporting limit varies by sample. See full analytic report.

\* Title 22, Table 6443. MCL

-- No Regulatory Threshold

Radionuclides are reported as ± total uncertainty

#### 4.0 INFORMATION FOR EACH SURFACE IMPOUNDMENT

The following table contains the required information for the LDD Energy, LLC Webber ponds. The original oil and gas lease is dated February 9, 1929. Three wells were in existence as of March 15, 1935, wells 1-A, 3-A, and 2. When Victory Oil acquired the lease in the 1960's the ponds were in operation (Mr. Eric C. Johnson, May 28, 2015). LDD became the Webber lease operator on October, 14, 2014. The two ponds are connected; the wastewater discharged passes from the first pond to the second.

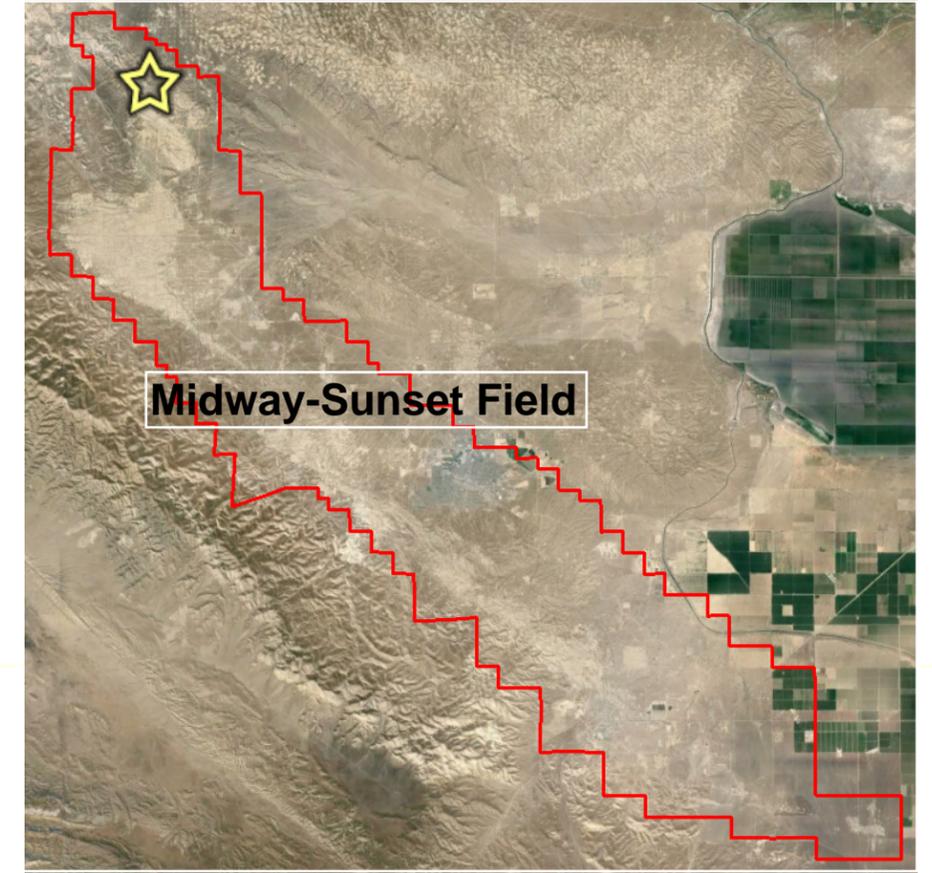
**Table 4-1: Surface Impoundment Information**

Pond Identification	Surface Impoundment Dimensions (feet)			Location (NAD 83)	Assessor's Parcel Number of the Lease	Duration of discharge (months)	Volume of wastewater discharged per year (BBLs)
	Length	Width	Depth				
Pond #1 (south)	Length	Width	Depth	Latitude: 35.27708 Longitude: -119.59296	157-260-16	Unknown, from 1960's	1500
	58'	64'	12'				
Pond #2 (north)	Length	Width	Depth	Latitude: 35.27722 Longitude: -119.59303	157-260-16	Unknown, from 1960's	
	58'	64'	12'				

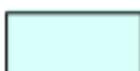
ATTACHMENT A

LDD ENERGY, LLC  
WEBBER PONDS MAP

# LDD ENERGY



## Legend

	Webber Lease	Pond #1 (South): Length - 58' Width - 64' Depth - 12'	Pond #2 (North): Length - 58' Width - 64' Depth - 12'
	Webber Lease Ponds		

Prepared By:

**EnviroTech**  
Consultants, Inc.

Section/Township/Range

T30S/R22E - Section 34 MDB&M  
(SE 1/4 of the NE 1/4 of the NE 1/4)

TITLE:

Webber Lease Pond

FIELD:

Midway-Sunset Oilfield

COUNTY:

Kern

DRN BY:

Kelsey Padlla

DATE:

May 27, 2015



ATTACHMENT B

LDD ENERGY, LLC

COPY OF RWQCB ORDER 13267, 1 APRIL, 2015



WEBBER  
 - ISE sump sample  
 - Evaluated by LAB (Att. B)  
 - Technical Report



Central Valley Regional Water Quality Control Board —

1 April 2015

Jessie Holman  
 LDD Energy  
 3533 Landco Drive Suite B  
 Bakersfield, CA 93308

**CERTIFIED MAIL**  
 7014 3490 0001 7023 0520

**CALIFORNIA WATER CODE DIRECTIVE PURSUANT TO SECTION 13267. You are legally obligated to respond to this Order. Please read this Order carefully.**

LDD Energy (hereafter Discharger) has been identified as the owner or operator of petroleum production wastewater disposal ponds (ponds). A list of the ponds (and the leases and oil fields where they are located) that the California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) identifies as under your control is presented in Attachment A. Ponds for the disposal of wastewater generated during the course of petroleum production have the potential to affect the quality of groundwater (a water of the State). Groundwater underlying the areas where your ponds are located have beneficial uses as identified in the Water Quality Control Plan for the Tulare Lake Basin (Basin Plan).

This order requires the collection and analysis of wastewater samples collected from each of the ponds listed in Attachment A to characterize the discharge. Each sample is to be analyzed for each of the constituents listed in Attachment B. These data are needed to comprehensively characterize wastewater in each pond and provide data needed to evaluate the threat to the quality of waters of the State. If more than one pond is connected in series (i.e., one pond drains directly to the next with no other source of inflow) then only the upstream pond must be sampled. This order is not intended to require the collection of duplicative data. If during the 12 months (one year) prior to the date of this order, samples required by this order have been analyzed from one or more of the ponds for the required constituents, that data can be submitted for the appropriate order requirements.

This order also requires Discharger to identify any discharge(s) of oil field wastewater to land that is not identified in Attachment A. Discharger must also collect and analyze wastewater samples in accordance with Attachment B from any additionally identified discharge to characterize the discharge.

The Central Valley Water Board's authority to require technical reports derives from Section 13267 of the California Water Code, which specifies, in part, that:

**Under the prescribed authority of California Water Code section 13267, the Central Valley Water Board directs Discharger to:**

1. **By 15 June 2015**, submit a technical report containing the following information:

- A. Identification of any discharges of oil field produced waters to land, including but not limited to ponds, since April of 2014 that are not listed in Attachment A;
- B. Collect representative samples of wastewater within each of the ponds. Samples must be analyzed in accordance with the water quality analysis and reporting requirements contained in Attachment B to this Order;<sup>1</sup>

If a representative sample cannot feasibly be collected from one or more of the sources discharging to a surface impoundment(s), then a comment will need to be added to the technical report required by this Order demonstrating that collection of a representative sample from a specific source is not feasible within the required timeframe, and propose an alternative sampling procedure and expeditious time schedule for obtaining a representative sample for each source. Alternative sampling procedures and time schedules are subject to approval by the Assistant Executive Officer of the Central Valley Regional Water Quality Control Board.

- C. All available information for each of the surface impoundment(s), including dimensions (i.e., length, width, and depth), latitude and longitude, Assessor's Parcel Numbers of the lease, duration of the discharge (in months), and the volume of wastewater discharged per year.
- D. A location map that includes the following information:
  - i. All surface impoundment(s) at the Facility,
  - ii. Include the boundary lines for all leases at the Facility, and
  - iii. Legend with the name of the surface impoundment(s).

2. **By 15 April 2015**, Discharger needs to contact Dane S. Johnson of this office at (559) 445-5525 if you have received this Order and cannot collect the required samples.

---

<sup>1</sup> All previously obtained analytical data for oil field produced wastewater samples collected at the Facility, if any, with a description of the source and location for each analysis may be submitted in the alternative for re-running tests if the sample(s) was collected and analyzed within 12 months (one year) of the date of this order.

California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., within 30 days after the date of this directive, except that if the thirtieth day following the date of this directive falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: [www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

If you have any questions regarding this matter, please contact Doug Patteson of this office at (559) 445-5577 or at [doug.patteson@waterboards.ca.gov](mailto:doug.patteson@waterboards.ca.gov).

A handwritten signature in blue ink that reads "Clay L. Rodgers". The signature is written in a cursive style.

Clay L. Rodgers  
Assistant Executive Officer

cc: Julie Macedo, Office of Enforcement, State Water Resources Control Board, Sacramento  
Mike Toland, California Division of Oil, Gas, and Geothermal Resources, Bakersfield

**ATTACHMENT B****Water Quality Analysis**

Wastewater samples collected from the ponds shall be analyzed by a laboratory certified by the Environmental Laboratory Accreditation Program using currently applicable United States Environmental Protection Agency-approved analytical methods for water for the following:

- A. Total dissolved solids;
- B. Metals listed in California Code of Regulations, title 22, section 66261.24. subdivision (a)(2)(A);
- C. Benzene, toluene, ethylbenzene, and xylenes;
- D. Total petroleum hydrocarbons as crude oil;
- E. Polynuclear aromatic hydrocarbons (including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorine, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene);
- F. Radionuclides listed under California Code of Regulations, title 22, Table 64442;
- G. Major and minor cations (including sodium, potassium, magnesium, and calcium);
- H. Major and minor anions (including nitrate, chloride, sulfate, carbonate, bicarbonate, and bromide);
- I. Trace elements (including lithium, strontium, boron, iron, and manganese).

**Reporting Requirements**

Water Quality information shall be submitted in a technical report that includes at a minimum:

- A. Site plan(s) with the location(s) of where the samples were collected;
- B. A description of how the samples, representative of the pond contents, were collected;

Table(s) of analytical results organized by pond number with the data also submitted electronically as an Excel spreadsheet.

ATTACHMENT C

LDD ENERGY, LLC

LABORATORY ANALYTICAL REPORT

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-109121-1

TestAmerica SDG: Webber Lease, Midway Sunset Oil Field

Client Project/Site: RWQCB Pond Testing, 2015

Revision: 1

For:

Envirotech Consultants, Inc.

5400 Rosedale Highway

Bakersfield, California 93308

Attn: Jane McNaboe



Authorized for release by:

6/11/2015 12:24:56 PM

Janice Hsu, Project Manager I

(949)261-1022

[janice.hsu@testamericainc.com](mailto:janice.hsu@testamericainc.com)

### LINKS

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Sample Summary . . . . .	3
Case Narrative . . . . .	4
Client Sample Results . . . . .	7
Method Summary . . . . .	10
Lab Chronicle . . . . .	11
QC Sample Results . . . . .	12
QC Association Summary . . . . .	28
Definitions/Glossary . . . . .	32
Certification Summary . . . . .	33
Chain of Custody . . . . .	34
Receipt Checklists . . . . .	35
Tracer Carrier Summary . . . . .	36



# Sample Summary

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-109121-1	Webber	Water	05/07/15 11:50	05/07/15 18:30
440-109121-2	TB	Water	05/07/15 00:01	05/07/15 18:30

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- 2
- 3
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Case Narrative

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

**Job ID: 440-109121-1**

**Laboratory: TestAmerica Irvine**

## Narrative

### Job Narrative 440-109121-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/7/2015 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

#### GC/MS VOA

Method(s) 8260B: The following volatile sample was recieved with significant headspace in the sample vial(s): Webber (440-109121-1). Significant headspace is defined as a bubble greater than 6 mm in diameter.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: Webber (440-109121-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C SIM: The internal standard response was below the 50% minimum QC limit for the following samples: Webber (440-109121-1). The chromatography showed some matrix interference that could have adversely affected the recovery of the affected internal standard. All affected target analytes were flagged with an asterisk (\*). If the matrix effect is isolated to the internal standards, then the affect on the associated target analyte results are potentially biased high.

Method(s) 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: Webber (440-109121-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270C SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-254413 and analytical batch 440-255228. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### HPLC/IC

Method(s) 300.0: The following sample was diluted for sulfate due to the nature of the sample matrix: Webber (440-109121-1). Elevated reporting limits (RL) are provided.

Method(s) 300.0: The following sample was diluted for nitrate due to the nature of the sample matrix: Webber (440-109121-1). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC Semi VOA

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 253724. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch. (LCS 440-253724/2-A)

Method(s) 8015B: The following samples required dilutions due to the nature of the sample matrix: Webber (440-109121-1). Because of these dilutions, the surrogate spike concentration in the samples were reduced to a level where the recovery calculation does not provide useful information.

# Case Narrative

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Job ID: 440-109121-1 (Continued)

### Laboratory: TestAmerica Irvine (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 154369 contained Antimony above the reporting limit (RL). All reported samples associated with this CCB were ND for this analyte ; therefore, re-analysis of samples was not performed. Webber (440-109121-1)

Method(s) 6010B: The following sample was diluted due to the nature of the sample matrix: Webber (440-109121-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Narrative

### Job Narrative 440-109121-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/7/2015 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

#### RAD

Method(s) 9310: Gross Alpha Beta Prep Batch 190445:

The gross alpha and beta detection goal was not met for the following samples due to a reduction of the sample size attributed to high residual mass: Webber (440-109121-1), (160-11674-A-3-B) and (160-11674-A-3-C DU). Analytical results are reported with the detection limit achieved.

Method(s) 9315: Ra-226 prep batch: 190226

The barium carrier recovery is above the 110% QC limit for the laboratory control sample duplicate (LCSD- 112 %) associated with 160-190226. The LCS/LCSD spike recoveries are within control limits, which demonstrates acceptable sample preparation and instrument performance. As such, this was an apparent anomaly in the sample preparation, isolated to the LCSD, which is not indicative of the entire batch. The samples have been truncated to 100% in order to minimize any potential bias a high carrier recovery may have on the results: Webber (440-109121-1), (LCS 160-190226/2-A), (LCSD 160-190226/3-A) and (MB 160-190226/1-A).

Method(s) 9315: Ra-226 Prep Batch 190226:

The following sample has a barium carrier recovery above the 110% QC limit; (126 %); Webber (440-109121-1). There was physical evidence of matrix interference during the initial preparation of the sample (see prep Non-conformance memo's 57040 and 58438). The LCS/LCSD (laboratory control sample/laboratory control sample duplicate) associated with 160-190226 have acceptable spike recoveries demonstrating acceptable sample preparation and instrument performance. The samples associated with the batch have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported.

Method(s) 9320: Ra-228 prep batch: 190228

The barium carrier recovery is above the 110% QC limit for the laboratory control sample duplicate (LCSD- 112 %) associated with 160-190228. The LCS/LCSD spike recoveries are within control limits, which demonstrates acceptable sample preparation and instrument performance. As such, this was an apparent anomaly in the sample preparation, isolated to the LCSD, which is not indicative

## Case Narrative

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

### Job ID: 440-109121-1 (Continued)

#### Laboratory: TestAmerica Irvine (Continued)

of the entire batch. The samples have been truncated to 100% in order to minimize any potential bias a high carrier recovery may have on the results: Webber (440-109121-1), (LCS 160-190228/2-A), (LCSD 160-190228/3-A) and (MB 160-190228/1-A).

Method(s) 9320: Ra-228 Prep Batch 190228:

The following sample has a barium carrier recovery above the 110% QC limit; (126 %); Webber (440-109121-1). There was physical evidence of matrix interference during the initial preparation of the sample (see prep Non-conformance memo's 57040 and 58438). The LCS/LCSD (laboratory control sample/laboratory control sample duplicate) associated with 160-190228 have acceptable spike recoveries demonstrating acceptable sample preparation and instrument performance. The samples associated with the batch have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported.

Method(s) PrecSep-21, PrecSep\_0: radium-228 batch 190228 and radium-226 batch 190226

A deviation from the Standard Operating Procedure (SOP) occurred. The following samples were oily and had a strong odor: Webber (440-109121-1). A 500 mL aliquot was taken to dryness, muffled, and digested with acid. 440-109121-1 and 109141-1 had a large amount of solid material remaining after muffling and digestion. The samples were refluxed with nitric and hydrochloric acid and transferred to a tube and centrifuged. The acid was decanted into a beaker and preparation continued per the normal SOP. Due to the matrix of the samples, a LCS/LCSD was performed.

Method(s) PrecSep-21, PrecSep\_0: radium-226 batch 190228 and radium-226 batch 190226

The barium carrier recovery is outside the upper control limit (110%) for the following samples: Webber (440-109121-1). The recoveries were laboratory control sample duplicate (111.504%) and 440-109121-1 (210.324%). No abnormalities were observed regarding the laboratory control sample duplicate, but 440-109121-1 was observed to have a large barium sulfate pellet when the sample was being taken out of ingrowth.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6020A: 190483 - water. A-batch - 191371.

The following samples were diluted due to the nature of the sample matrix. The samples were high in salts, which cause internal standard and QC failures when the samples are run at a lesser dilution: Webber (440-109121-1), (440-109149-S-1-A), (440-109149-S-1-B MS), (440-109149-S-1-C MSD) and (440-109149-S-1-A SD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Client Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

**Client Sample ID: Webber**

**Lab Sample ID: 440-109121-1**

**Date Collected: 05/07/15 11:50**

**Matrix: Water**

**Date Received: 05/07/15 18:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.5		2.0		ug/L			05/09/15 03:25	1
Ethylbenzene	2.0		2.0		ug/L			05/09/15 03:25	1
m,p-Xylene	8.2		2.0		ug/L			05/09/15 03:25	1
o-Xylene	4.3		2.0		ug/L			05/09/15 03:25	1
Toluene	9.6		2.0		ug/L			05/09/15 03:25	1
Xylenes, Total	13		2.0		ug/L			05/09/15 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		05/09/15 03:25	1
4-Bromofluorobenzene (Surr)	104		80 - 120		05/09/15 03:25	1
Dibromofluoromethane (Surr)	103		76 - 132		05/09/15 03:25	1

## Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Acenaphthylene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Anthracene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Benzo[a]anthracene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Benzo[a]pyrene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Benzo[b]fluoranthene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Benzo[g,h,i]perylene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Benzo[k]fluoranthene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Chrysene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Dibenz(a,h)anthracene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Fluoranthene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Fluorene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Indeno[1,2,3-cd]pyrene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Naphthalene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Phenanthrene	9.1		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20
Pyrene	ND		3.9		ug/L		05/12/15 10:25	05/16/15 08:50	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	59		31 - 120	05/12/15 10:25	05/16/15 08:50	20
Nitrobenzene-d5	116		25 - 133	05/12/15 10:25	05/16/15 08:50	20
Terphenyl-d14	0 X		10 - 120	05/12/15 10:25	05/16/15 08:50	20

## Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	190		50		ug/L			05/14/15 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		65 - 140		05/14/15 22:15	1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		4.9		mg/L		05/08/15 06:32	05/11/15 08:51	10
C23-C40	ND		4.9		mg/L		05/08/15 06:32	05/11/15 08:51	10
C13 - C40	10		4.9		mg/L		05/08/15 06:32	05/11/15 08:51	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	82		45 - 120	05/08/15 06:32	05/11/15 08:51	10

TestAmerica Irvine

# Client Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Bromide</b>	<b>170</b>		50		mg/L			05/08/15 14:52	100
Nitrate as NO3	ND		50		mg/L			05/07/15 23:21	100
<b>Chloride</b>	<b>14000</b>		1000		mg/L			05/07/15 23:38	2000
Sulfate	ND		50		mg/L			05/07/15 23:21	100

## Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:25	1
Arsenic	ND		0.050		mg/L		05/11/15 12:45	05/12/15 14:15	5
<b>Barium</b>	<b>45</b>		0.050		mg/L		05/11/15 12:45	05/12/15 14:15	5
Beryllium	ND		0.0020		mg/L		05/11/15 12:45	05/11/15 22:25	1
Cadmium	ND		0.0050		mg/L		05/11/15 12:45	05/11/15 22:25	1
Chromium	ND		0.0050		mg/L		05/11/15 12:45	05/11/15 22:25	1
Cobalt	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:25	1
Copper	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:25	1
Lead	ND		0.0050		mg/L		05/11/15 12:45	05/11/15 22:25	1
Molybdenum	ND		0.020		mg/L		05/11/15 12:45	05/11/15 22:25	1
Nickel	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:25	1
Selenium	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:25	1
Thallium	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:25	1
Vanadium	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:25	1
Zinc	ND		0.020		mg/L		05/11/15 12:45	05/11/15 22:25	1
Silver	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:25	1
<b>Lithium</b>	<b>17</b>		1.3		mg/L		05/11/15 12:45	05/14/15 10:54	25
<b>Potassium</b>	<b>240</b>		0.50		mg/L		05/11/15 12:45	05/11/15 22:25	1
<b>Manganese</b>	<b>0.56</b>		0.020		mg/L		05/11/15 12:45	05/11/15 22:25	1
<b>Magnesium</b>	<b>400</b>		0.020		mg/L		05/11/15 12:45	05/11/15 22:25	1
<b>Iron</b>	<b>21</b>		0.040		mg/L		05/11/15 12:45	05/11/15 22:25	1
<b>Strontium</b>	<b>18</b>		0.020		mg/L		05/11/15 12:45	05/11/15 22:25	1
<b>Sodium</b>	<b>20000</b>		13		mg/L		05/11/15 12:45	05/14/15 10:54	25
<b>Calcium</b>	<b>290</b>		0.10		mg/L		05/11/15 12:45	05/11/15 22:25	1
<b>Boron</b>	<b>39</b>		0.25		mg/L		05/11/15 12:45	05/12/15 14:15	5

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<50		50	12	ug/L		05/12/15 13:57	05/18/15 15:28	100
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<34		34	7.7	pCi/L		05/12/15 13:57	05/18/15 15:28	100

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/08/15 14:36	05/11/15 16:43	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>28000</b>		500		mg/L			05/14/15 07:41	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Alkalinity as CaCO3</b>	<b>1200</b>		4.0		mg/L			05/11/15 06:48	1
<b>Bicarbonate ion as HCO3</b>	<b>1400</b>		4.8		mg/L			05/11/15 06:48	1
Carbonate as CO3	ND		2.4		mg/L			05/11/15 06:48	1
Hydroxide as OH	ND		1.4		mg/L			05/11/15 06:48	1

# Client Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

**Client Sample ID: Webber**

**Lab Sample ID: 440-109121-1**

**Date Collected: 05/07/15 11:50**

**Matrix: Water**

**Date Received: 05/07/15 18:30**

**Method: 9310 - Gross Alpha / Beta (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	9.74	U G	99.4	99.4	196	pCi/L	05/12/15 09:49	05/14/15 18:50	1
Gross Beta	97.2	U G	70.5	71.2	111	pCi/L	05/12/15 09:49	05/14/15 18:50	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>36.0</b>		1.40	3.53	0.328	pCi/L	05/11/15 08:57	06/04/15 10:40	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	126	X	40 - 110				05/11/15 08:57	06/04/15 10:40	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>12.2</b>		1.04	1.53	0.686	pCi/L	05/11/15 09:04	05/29/15 12:03	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	126	X	40 - 110				05/11/15 09:04	05/29/15 12:03	1
Y Carrier	92.0		40 - 110				05/11/15 09:04	05/29/15 12:03	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	DLC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>48.2</b>		1.74	3.847	0.686	pCi/L		06/10/15 01:06	1

**Client Sample ID: TB**

**Lab Sample ID: 440-109121-2**

**Date Collected: 05/07/15 00:01**

**Matrix: Water**

**Date Received: 05/07/15 18:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/L			05/12/15 13:25	1
Ethylbenzene	ND		2.0		ug/L			05/12/15 13:25	1
m,p-Xylene	ND		2.0		ug/L			05/12/15 13:25	1
o-Xylene	ND		2.0		ug/L			05/12/15 13:25	1
Toluene	ND		2.0		ug/L			05/12/15 13:25	1
Xylenes, Total	ND		2.0		ug/L			05/12/15 13:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	105		80 - 128					05/12/15 13:25	1
4-Bromofluorobenzene (Surr)	102		80 - 120					05/12/15 13:25	1
Dibromofluoromethane (Surr)	104		76 - 132					05/12/15 13:25	1

TestAmerica Irvine

# Method Summary

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2320B	Alkalinity	SM	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
9310	Gross Alpha / Beta (GFPC)	SW846	TAL SL
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

#### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.  
SM = "Standard Methods For The Examination Of Water And Wastewater",  
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.  
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022  
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Lab Chronicle

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

**Client Sample ID: Webber**

**Date Collected: 05/07/15 11:50**

**Date Received: 05/07/15 18:30**

**Lab Sample ID: 440-109121-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	253892	05/09/15 03:25	WK	TAL IRV
Total/NA	Prep	3520C			1020 mL	1 mL	254413	05/12/15 10:25	IVA	TAL IRV
Total/NA	Analysis	8270C SIM		20	1020 mL	1 mL	255456	05/16/15 08:50	AI	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	255014	05/14/15 22:15	AT	TAL IRV
Total/NA	Prep	3510C			1015 mL	1 mL	253724	05/08/15 06:32	AP	TAL IRV
Total/NA	Analysis	8015B		10	1015 mL	1 mL	254151	05/11/15 08:51	KW	TAL IRV
Total/NA	Analysis	300.0		100	5 mL	1.0 mL	253537	05/07/15 23:21	NN	TAL IRV
Total/NA	Analysis	300.0		100	5 mL	1.0 mL	253538	05/07/15 23:21	NN	TAL IRV
Total/NA	Analysis	300.0		2000	5 mL	1.0 mL	253538	05/07/15 23:38	NN	TAL IRV
Total/NA	Analysis	300.0		100	5 mL	1.0 mL	253787	05/08/15 14:52	NN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	254220	05/11/15 12:45	APS	TAL IRV
Total Recoverable	Analysis	6010B		25	25 mL	25 mL	255065	05/14/15 10:54	VS	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	254220	05/11/15 12:45	APS	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	254369	05/11/15 22:25	VS	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	254220	05/11/15 12:45	APS	TAL IRV
Total Recoverable	Analysis	6010B		5	25 mL	25 mL	254518	05/12/15 14:15	EN	TAL IRV
Total/NA	Prep	3010A			50 mL	50 mL	190483	05/12/15 13:57	DAS	TAL SL
Total/NA	Analysis	6020A		100	50 mL	50 mL	191371	05/18/15 15:28	CCB	TAL SL
Total/NA	Prep	7470A			20 mL	20 mL	253868	05/08/15 14:36	DB	TAL IRV
Total/NA	Analysis	7470A		1	20 mL	20 mL	254275	05/11/15 16:43	DB	TAL IRV
Total/NA	Analysis	SM 2320B		1			254117	05/11/15 06:48	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	2 mL	100 mL	254980	05/14/15 07:41	XL	TAL IRV
Total/NA	Prep	Evaporation			2 mL	1.0 g	190445	05/12/15 09:49	SCB	TAL SL
Total/NA	Analysis	9310		1	2 mL		190768	05/14/15 18:50	MLK	TAL SL
Total/NA	Prep	PrecSep-21			500.48 mL	1.0 g	190226	05/11/15 08:57	LEM	TAL SL
Total/NA	Analysis	9315		1	500.48 mL		193519	06/04/15 10:40	MFM	TAL SL
Total/NA	Prep	PrecSep_0			500.48 mL	1.0 g	190228	05/11/15 09:04	LEM	TAL SL
Total/NA	Analysis	9320		1	500.48 mL		192829	05/29/15 12:03	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			194285	06/10/15 01:06	RTM	TAL SL

**Client Sample ID: TB**

**Date Collected: 05/07/15 00:01**

**Date Received: 05/07/15 18:30**

**Lab Sample ID: 440-109121-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	254346	05/12/15 13:25	MM1	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 440-253892/4**  
**Matrix: Water**  
**Analysis Batch: 253892**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/L			05/08/15 19:50	1
Ethylbenzene	ND		2.0		ug/L			05/08/15 19:50	1
m,p-Xylene	ND		2.0		ug/L			05/08/15 19:50	1
o-Xylene	ND		2.0		ug/L			05/08/15 19:50	1
Toluene	ND		2.0		ug/L			05/08/15 19:50	1
Xylenes, Total	ND		2.0		ug/L			05/08/15 19:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 128		05/08/15 19:50	1
4-Bromofluorobenzene (Surr)	104		80 - 120		05/08/15 19:50	1
Dibromofluoromethane (Surr)	102		76 - 132		05/08/15 19:50	1

**Lab Sample ID: LCS 440-253892/5**  
**Matrix: Water**  
**Analysis Batch: 253892**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.6		ug/L		106	68 - 130
Ethylbenzene	25.0	27.8		ug/L		111	70 - 130
m,p-Xylene	25.0	28.7		ug/L		115	70 - 130
o-Xylene	25.0	26.6		ug/L		106	70 - 130
Toluene	25.0	27.5		ug/L		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		80 - 128
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	95		76 - 132

**Lab Sample ID: 440-109101-A-1 MS**  
**Matrix: Water**  
**Analysis Batch: 253892**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	26.4		ug/L		106	66 - 130
Ethylbenzene	ND		25.0	27.7		ug/L		111	70 - 130
m,p-Xylene	ND		25.0	28.5		ug/L		114	70 - 133
o-Xylene	ND		25.0	26.1		ug/L		104	70 - 133
Toluene	ND		25.0	27.2		ug/L		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	104		80 - 128
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	98		76 - 132

# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-109101-A-1 MSD**

**Matrix: Water**

**Analysis Batch: 253892**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	26.7		ug/L		107	66 - 130	1	20
Ethylbenzene	ND		25.0	27.9		ug/L		112	70 - 130	1	20
m,p-Xylene	ND		25.0	28.8		ug/L		115	70 - 133	1	25
o-Xylene	ND		25.0	26.4		ug/L		105	70 - 133	1	20
Toluene	ND		25.0	27.6		ug/L		110	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 128
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	99		76 - 132

**Lab Sample ID: MB 440-254346/4**

**Matrix: Water**

**Analysis Batch: 254346**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/L			05/12/15 07:57	1
Ethylbenzene	ND		2.0		ug/L			05/12/15 07:57	1
m,p-Xylene	ND		2.0		ug/L			05/12/15 07:57	1
o-Xylene	ND		2.0		ug/L			05/12/15 07:57	1
Toluene	ND		2.0		ug/L			05/12/15 07:57	1
Xylenes, Total	ND		2.0		ug/L			05/12/15 07:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		05/12/15 07:57	1
4-Bromofluorobenzene (Surr)	106		80 - 120		05/12/15 07:57	1
Dibromofluoromethane (Surr)	107		76 - 132		05/12/15 07:57	1

**Lab Sample ID: LCS 440-254346/5**

**Matrix: Water**

**Analysis Batch: 254346**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.9		ug/L		104	68 - 130
Ethylbenzene	25.0	28.0		ug/L		112	70 - 130
m,p-Xylene	25.0	28.4		ug/L		114	70 - 130
o-Xylene	25.0	26.1		ug/L		105	70 - 130
Toluene	25.0	27.1		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	104		80 - 128
4-Bromofluorobenzene (Surr)	109		80 - 120
Dibromofluoromethane (Surr)	105		76 - 132

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# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-109214-B-1 MS**

**Matrix: Water**

**Analysis Batch: 254346**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	25.3		ug/L		101	66 - 130
Ethylbenzene	ND		25.0	28.3		ug/L		113	70 - 130
m,p-Xylene	ND		25.0	28.1		ug/L		112	70 - 133
o-Xylene	ND		25.0	26.2		ug/L		105	70 - 133
Toluene	ND		25.0	27.4		ug/L		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
Toluene-d8 (Surr)	106		80 - 128
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	103		76 - 132

**Lab Sample ID: 440-109214-B-1 MSD**

**Matrix: Water**

**Analysis Batch: 254346**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	23.1		ug/L		92	66 - 130	9	20
Ethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130	10	20
m,p-Xylene	ND		25.0	25.8		ug/L		103	70 - 133	9	25
o-Xylene	ND		25.0	24.0		ug/L		96	70 - 133	9	20
Toluene	ND		25.0	25.2		ug/L		101	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Toluene-d8 (Surr)	105		80 - 128
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	102		76 - 132

## Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

**Lab Sample ID: MB 440-254413/1-A**

**Matrix: Water**

**Analysis Batch: 255228**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 254413**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Acenaphthylene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Anthracene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Benzo[a]anthracene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Benzo[a]pyrene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Benzo[b]fluoranthene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Benzo[g,h,i]perylene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Benzo[k]fluoranthene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Chrysene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Dibenz(a,h)anthracene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Fluoranthene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Fluorene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Indeno[1,2,3-cd]pyrene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1

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# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

**Lab Sample ID: MB 440-254413/1-A**  
**Matrix: Water**  
**Analysis Batch: 255228**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 254413**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Phenanthrene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1
Pyrene	ND		0.20		ug/L		05/12/15 10:25	05/15/15 00:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		31 - 120	05/12/15 10:25	05/15/15 00:46	1
Nitrobenzene-d5	49		25 - 133	05/12/15 10:25	05/15/15 00:46	1
Terphenyl-d14	69		10 - 120	05/12/15 10:25	05/15/15 00:46	1

**Lab Sample ID: LCS 440-254413/2-A**  
**Matrix: Water**  
**Analysis Batch: 255228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 254413**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.00	0.950		ug/L		95	47 - 103
Acenaphthylene	1.00	0.955		ug/L		96	45 - 102
Anthracene	1.00	0.964		ug/L		96	47 - 111
Benzo[a]anthracene	1.00	0.993		ug/L		99	56 - 110
Benzo[a]pyrene	1.00	0.937		ug/L		94	48 - 110
Benzo[b]fluoranthene	1.00	0.995		ug/L		100	53 - 116
Benzo[g,h,i]perylene	1.00	1.22		ug/L		122	44 - 130
Benzo[k]fluoranthene	1.00	1.03		ug/L		103	51 - 127
Chrysene	1.00	1.03		ug/L		103	52 - 118
Dibenz(a,h)anthracene	1.00	1.00		ug/L		100	44 - 125
Fluoranthene	1.00	1.04		ug/L		104	51 - 116
Fluorene	1.00	0.940		ug/L		94	50 - 106
Indeno[1,2,3-cd]pyrene	1.00	1.03		ug/L		103	41 - 127
Naphthalene	1.00	0.863		ug/L		86	40 - 100
Phenanthrene	1.00	1.04		ug/L		104	49 - 110
Pyrene	1.00	0.979		ug/L		98	41 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	92		31 - 120
Nitrobenzene-d5	88		25 - 133
Terphenyl-d14	93		10 - 120

**Lab Sample ID: LCSD 440-254413/3-A**  
**Matrix: Water**  
**Analysis Batch: 255228**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 254413**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	1.00	0.860		ug/L		86	47 - 103	10	35
Acenaphthylene	1.00	0.883		ug/L		88	45 - 102	8	35
Anthracene	1.00	0.904		ug/L		90	47 - 111	6	35
Benzo[a]anthracene	1.00	0.913		ug/L		91	56 - 110	8	35
Benzo[a]pyrene	1.00	0.873		ug/L		87	48 - 110	7	35
Benzo[b]fluoranthene	1.00	0.902		ug/L		90	53 - 116	10	35
Benzo[g,h,i]perylene	1.00	1.13		ug/L		113	44 - 130	7	35

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# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

**Lab Sample ID: LCSD 440-254413/3-A**  
**Matrix: Water**  
**Analysis Batch: 255228**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 254413**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[k]fluoranthene	1.00	0.927		ug/L		93	51 - 127	10	35
Chrysene	1.00	0.940		ug/L		94	52 - 118	9	35
Dibenz(a,h)anthracene	1.00	0.953		ug/L		95	44 - 125	5	35
Fluoranthene	1.00	0.906		ug/L		91	51 - 116	14	35
Fluorene	1.00	0.836		ug/L		84	50 - 106	12	35
Indeno[1,2,3-cd]pyrene	1.00	0.947		ug/L		95	41 - 127	9	35
Naphthalene	1.00	0.798		ug/L		80	40 - 100	8	35
Phenanthrene	1.00	0.936		ug/L		94	49 - 110	10	35
Pyrene	1.00	0.893		ug/L		89	41 - 115	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Fluorobiphenyl (Surr)	88		31 - 120
Nitrobenzene-d5	82		25 - 133
Terphenyl-d14	88		10 - 120

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 440-255014/5**  
**Matrix: Water**  
**Analysis Batch: 255014**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			05/14/15 10:59	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		65 - 140		05/14/15 10:59	1

**Lab Sample ID: LCS 440-255014/3**  
**Matrix: Water**  
**Analysis Batch: 255014**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	800	837		ug/L		105	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	96		65 - 140

**Lab Sample ID: 440-109604-E-2 MS**  
**Matrix: Water**  
**Analysis Batch: 255014**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		800	876		ug/L		104	65 - 140

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	89		65 - 140

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# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: 440-109604-E-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 255014**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		800	851		ug/L		101	65 - 140	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
4-Bromofluorobenzene (Surr)	106		65 - 140								

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 440-253537/4**  
**Matrix: Water**  
**Analysis Batch: 253537**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as NO3	ND		0.50		mg/L			05/07/15 12:17	1

**Lab Sample ID: LCS 440-253537/6**  
**Matrix: Water**  
**Analysis Batch: 253537**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as NO3	5.00	4.58		mg/L		92	90 - 110

**Lab Sample ID: 440-109072-A-1 MS**  
**Matrix: Water**  
**Analysis Batch: 253537**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as NO3	26		50.0	56.3	F1	mg/L		60	80 - 120

**Lab Sample ID: 440-109072-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 253537**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as NO3	26		50.0	55.1	F1	mg/L		58	80 - 120	2	20

**Lab Sample ID: MB 440-253538/4**  
**Matrix: Water**  
**Analysis Batch: 253538**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50		mg/L			05/07/15 12:17	1
Chloride	ND		0.50		mg/L			05/07/15 12:17	1
Sulfate	ND		0.50		mg/L			05/07/15 12:17	1

# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 440-253538/6**  
**Matrix: Water**  
**Analysis Batch: 253538**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.75		mg/L		95	90 - 110
Sulfate	5.00	4.54		mg/L		91	90 - 110

**Lab Sample ID: 440-109072-A-1 MS**  
**Matrix: Water**  
**Analysis Batch: 253538**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND	*	50.0	49.1		mg/L		98	80 - 120
Chloride	57		50.0	89.9	F1	mg/L		66	80 - 120
Sulfate	440		50.0	445	4	mg/L		-0.7	80 - 120

**Lab Sample ID: 440-109072-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 253538**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	ND	*	50.0	47.4		mg/L		95	80 - 120	3	20
Chloride	57		50.0	88.1	F1	mg/L		62	80 - 120	2	20
Sulfate	440		50.0	434	4	mg/L		-22	80 - 120	2	20

**Lab Sample ID: MB 440-253787/4**  
**Matrix: Water**  
**Analysis Batch: 253787**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50		mg/L			05/08/15 11:47	1

**Lab Sample ID: LCS 440-253787/2**  
**Matrix: Water**  
**Analysis Batch: 253787**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.20		mg/L		104	90 - 110

**Lab Sample ID: 440-109147-E-1 MS**  
**Matrix: Water**  
**Analysis Batch: 253787**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND	F1	5.00	6.68	F1	mg/L		134	80 - 120

**Lab Sample ID: 440-109147-E-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 253787**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	ND	F1	5.00	6.35	F1	mg/L		127	80 - 120	5	20

# QC Sample Results

Client: Envirotech Consultants, Inc.  
 Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
 SDG: Webber Lease, Midway Sunset Oil Field

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-254220/1-A**  
**Matrix: Water**  
**Analysis Batch: 254369**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:03	1
Beryllium	ND		0.0020		mg/L		05/11/15 12:45	05/11/15 22:03	1
Cadmium	ND		0.0050		mg/L		05/11/15 12:45	05/11/15 22:03	1
Chromium	ND		0.0050		mg/L		05/11/15 12:45	05/11/15 22:03	1
Cobalt	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:03	1
Copper	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:03	1
Lead	ND		0.0050		mg/L		05/11/15 12:45	05/11/15 22:03	1
Molybdenum	ND		0.020		mg/L		05/11/15 12:45	05/11/15 22:03	1
Nickel	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:03	1
Selenium	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:03	1
Thallium	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:03	1
Vanadium	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:03	1
Zinc	ND		0.020		mg/L		05/11/15 12:45	05/11/15 22:03	1
Silver	ND		0.010		mg/L		05/11/15 12:45	05/11/15 22:03	1
Potassium	ND		0.50		mg/L		05/11/15 12:45	05/11/15 22:03	1
Manganese	ND		0.020		mg/L		05/11/15 12:45	05/11/15 22:03	1
Magnesium	ND		0.020		mg/L		05/11/15 12:45	05/11/15 22:03	1
Iron	ND		0.040		mg/L		05/11/15 12:45	05/11/15 22:03	1
Strontium	ND		0.020		mg/L		05/11/15 12:45	05/11/15 22:03	1
Calcium	ND		0.10		mg/L		05/11/15 12:45	05/11/15 22:03	1

**Lab Sample ID: MB 440-254220/1-A**  
**Matrix: Water**  
**Analysis Batch: 254518**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/L		05/11/15 12:45	05/12/15 13:47	1
Barium	ND		0.010		mg/L		05/11/15 12:45	05/12/15 13:47	1
Boron	ND		0.050		mg/L		05/11/15 12:45	05/12/15 13:47	1

**Lab Sample ID: MB 440-254220/1-A**  
**Matrix: Water**  
**Analysis Batch: 255065**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050		mg/L		05/11/15 12:45	05/14/15 10:39	1
Sodium	ND		0.50		mg/L		05/11/15 12:45	05/14/15 10:39	1

**Lab Sample ID: LCS 440-254220/2-A**  
**Matrix: Water**  
**Analysis Batch: 254369**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	0.917		mg/L		92	80 - 120
Beryllium	1.00	0.905		mg/L		91	80 - 120
Cadmium	1.00	0.863		mg/L		86	80 - 120
Chromium	1.00	0.913		mg/L		91	80 - 120
Cobalt	1.00	0.895		mg/L		89	80 - 120
Copper	1.00	0.940		mg/L		94	80 - 120

TestAmerica Irvine

# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 440-254220/2-A**  
**Matrix: Water**  
**Analysis Batch: 254369**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.878		mg/L		88	80 - 120
Molybdenum	1.00	0.919		mg/L		92	80 - 120
Nickel	1.00	0.886		mg/L		89	80 - 120
Selenium	1.00	0.847		mg/L		85	80 - 120
Thallium	1.00	0.873		mg/L		87	80 - 120
Vanadium	1.00	0.941		mg/L		94	80 - 120
Zinc	1.00	0.882		mg/L		88	80 - 120
Silver	0.500	0.457		mg/L		91	80 - 120
Potassium	10.0	9.30		mg/L		93	80 - 120
Manganese	1.00	0.898		mg/L		90	80 - 120
Magnesium	5.00	4.38		mg/L		88	80 - 120
Iron	1.00	0.852		mg/L		85	80 - 120
Strontium	1.00	0.914		mg/L		91	80 - 120
Calcium	5.00	4.32		mg/L		86	80 - 120

**Lab Sample ID: LCS 440-254220/2-A**  
**Matrix: Water**  
**Analysis Batch: 254518**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.991		mg/L		99	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Boron	1.00	0.944		mg/L		94	80 - 120

**Lab Sample ID: LCS 440-254220/2-A**  
**Matrix: Water**  
**Analysis Batch: 255065**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	1.00	0.931		mg/L		93	80 - 120
Sodium	10.0	9.45		mg/L		95	80 - 120

**Lab Sample ID: 440-109098-J-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 254369**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	0.918		mg/L		91	75 - 125
Beryllium	ND		1.00	0.914		mg/L		91	75 - 125
Cadmium	ND		1.00	0.858		mg/L		86	75 - 125
Chromium	ND		1.00	0.907		mg/L		91	75 - 125
Cobalt	ND		1.00	0.890		mg/L		89	75 - 125
Copper	ND		1.00	0.964		mg/L		96	75 - 125
Lead	ND		1.00	0.885		mg/L		89	75 - 125
Molybdenum	ND		1.00	0.934		mg/L		93	75 - 125
Nickel	ND		1.00	0.930		mg/L		93	75 - 125
Selenium	ND		1.00	0.860		mg/L		86	75 - 125
Thallium	ND		1.00	0.880		mg/L		87	75 - 125
Vanadium	ND		1.00	0.949		mg/L		95	75 - 125

TestAmerica Irvine

# QC Sample Results

Client: Envirotech Consultants, Inc.  
 Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
 SDG: Webber Lease, Midway Sunset Oil Field

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 440-109098-J-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 254369**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Zinc	0.060		1.00	0.902		mg/L		84	75 - 125	
Silver	ND		0.500	0.461		mg/L		92	75 - 125	
Potassium	2.9		10.0	12.1		mg/L		92	75 - 125	
Manganese	ND		1.00	0.906		mg/L		89	75 - 125	
Magnesium	5.5		5.00	9.90		mg/L		87	75 - 125	
Iron	ND		1.00	0.894		mg/L		88	75 - 125	
Strontium	0.30		1.00	1.22		mg/L		92	75 - 125	
Calcium	25		5.00	31.0	4	mg/L		121	75 - 125	

**Lab Sample ID: 440-109098-J-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 254518**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Arsenic	ND		1.00	1.00		mg/L		100	75 - 125	
Barium	0.011		1.00	1.00		mg/L		99	75 - 125	
Boron	0.10		1.00	1.05		mg/L		95	75 - 125	

**Lab Sample ID: 440-109098-J-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 255065**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Lithium	ND		1.00	0.851		mg/L		85	75 - 125	
Sodium	47		10.0	56.0	4	mg/L		91	75 - 125	

**Lab Sample ID: 440-109098-J-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 254369**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Antimony	ND		1.00	0.936		mg/L		93	75 - 125	2	20	
Beryllium	ND		1.00	0.922		mg/L		92	75 - 125	1	20	
Cadmium	ND		1.00	0.867		mg/L		87	75 - 125	1	20	
Chromium	ND		1.00	0.913		mg/L		91	75 - 125	1	20	
Cobalt	ND		1.00	0.898		mg/L		90	75 - 125	1	20	
Copper	ND		1.00	0.970		mg/L		97	75 - 125	1	20	
Lead	ND		1.00	0.898		mg/L		90	75 - 125	2	20	
Molybdenum	ND		1.00	0.953		mg/L		95	75 - 125	2	20	
Nickel	ND		1.00	0.898		mg/L		90	75 - 125	4	20	
Selenium	ND		1.00	0.870		mg/L		87	75 - 125	1	20	
Thallium	ND		1.00	0.888		mg/L		88	75 - 125	1	20	
Vanadium	ND		1.00	0.960		mg/L		96	75 - 125	1	20	
Zinc	0.060		1.00	0.913		mg/L		85	75 - 125	1	20	
Silver	ND		0.500	0.466		mg/L		93	75 - 125	1	20	
Potassium	2.9		10.0	12.2		mg/L		93	75 - 125	1	20	
Manganese	ND		1.00	0.922		mg/L		91	75 - 125	2	20	
Magnesium	5.5		5.00	9.93		mg/L		88	75 - 125	0	20	
Iron	ND		1.00	0.887		mg/L		87	75 - 125	1	20	

TestAmerica Irvine

# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 440-109098-J-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 254369**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Strontium	0.30		1.00	1.22		mg/L		92	75 - 125	0	20
Calcium	25		5.00	30.4	4	mg/L		108	75 - 125	2	20

**Lab Sample ID: 440-109098-J-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 254518**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Arsenic	ND		1.00	0.994		mg/L		99	75 - 125	1	20
Barium	0.011		1.00	1.01		mg/L		100	75 - 125	1	20
Boron	0.10		1.00	1.06		mg/L		96	75 - 125	0	20

**Lab Sample ID: 440-109098-J-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 255065**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 254220**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Lithium	ND		1.00	0.852		mg/L		85	75 - 125	0	20
Sodium	47		10.0	54.5	4	mg/L		77	75 - 125	3	20

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: MB 160-190483/1-A**  
**Matrix: Water**  
**Analysis Batch: 191371**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 190483**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Uranium	<1.0		1.0	0.23	ug/L		05/12/15 13:57	05/18/15 14:15	2

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Uranium	<0.67		0.67	0.15	pCi/L		05/12/15 13:57	05/18/15 14:15	2

**Lab Sample ID: LCS 160-190483/2-A**  
**Matrix: Water**  
**Analysis Batch: 191371**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 190483**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
							Result
Uranium	1000	1000		ug/L		100	80 - 120

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
							Result
Uranium	670	673		pCi/L		100	80 - 120

**Lab Sample ID: 440-109149-S-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 191371**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 190483**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Uranium	<10		1000	963		ug/L		96	75 - 125

TestAmerica Irvine

# QC Sample Results

Client: Envirotech Consultants, Inc.  
 Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
 SDG: Webber Lease, Midway Sunset Oil Field

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Uranium	<6.7		670	645		pCi/L		96	75 - 125

**Lab Sample ID: 440-109149-S-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 191371**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 190483**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Uranium	<10		1000	995		ug/L		100	75 - 125	3	20
Uranium	<6.7		670	667		pCi/L		100	75 - 125	3	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 440-253868/1-A**  
**Matrix: Water**  
**Analysis Batch: 254275**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 253868**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		05/08/15 14:36	05/11/15 15:56	1

**Lab Sample ID: LCS 440-253868/2-A**  
**Matrix: Water**  
**Analysis Batch: 254275**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 253868**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00800	0.00819		mg/L		102	80 - 120

**Lab Sample ID: 580-49347-E-2-F MS**  
**Matrix: Water**  
**Analysis Batch: 254275**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 253868**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00082		0.0320	0.0332		mg/L		101	70 - 130

**Lab Sample ID: 580-49347-E-2-G MSD**  
**Matrix: Water**  
**Analysis Batch: 254275**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 253868**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00082		0.0320	0.0334		mg/L		102	70 - 130	1	20

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 440-254117/3**  
**Matrix: Water**  
**Analysis Batch: 254117**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0		mg/L			05/11/15 04:55	1
Bicarbonate ion as HCO3	ND		4.8		mg/L			05/11/15 04:55	1
Carbonate as CO3	ND		2.4		mg/L			05/11/15 04:55	1
Hydroxide as OH	ND		1.4		mg/L			05/11/15 04:55	1

TestAmerica Irvine

# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: SM 2320B - Alkalinity (Continued)

**Lab Sample ID:** LCS 440-254117/2  
**Matrix:** Water  
**Analysis Batch:** 254117

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	85.4	84.9		mg/L		99	80 - 120

**Lab Sample ID:** 440-109178-B-1 DU  
**Matrix:** Water  
**Analysis Batch:** 254117

**Client Sample ID:** Duplicate  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	600		591		mg/L		2	20
Bicarbonate ion as HCO3	730		721		mg/L		2	20
Carbonate as CO3	ND		ND		mg/L		NC	20
Hydroxide as OH	ND		ND		mg/L		NC	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID:** MB 440-254980/1  
**Matrix:** Water  
**Analysis Batch:** 254980

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/14/15 07:41	1

**Lab Sample ID:** LCS 440-254980/2  
**Matrix:** Water  
**Analysis Batch:** 254980

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	966		mg/L		97	90 - 110

**Lab Sample ID:** 440-109404-K-3 DU  
**Matrix:** Water  
**Analysis Batch:** 254980

**Client Sample ID:** Duplicate  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	770		755		mg/L		2	5

## Method: 9310 - Gross Alpha / Beta (GFPC)

**Lab Sample ID:** MB 160-190445/1-A  
**Matrix:** Water  
**Analysis Batch:** 190766

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 190445

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.09621	U	0.635	0.636	1.26	pCi/L	05/12/15 09:49	05/14/15 15:36	1
Gross Beta	-0.1262	U	0.488	0.488	0.900	pCi/L	05/12/15 09:49	05/14/15 15:36	1

TestAmerica Irvine

# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 9310 - Gross Alpha / Beta (GFPC) (Continued)

**Lab Sample ID: LCS 160-190445/2-A**  
**Matrix: Water**  
**Analysis Batch: 190766**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 190445**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	50.0	50.26		7.46	2.07	pCi/L	100	73 - 133

**Lab Sample ID: LCSB 160-190445/3-A**  
**Matrix: Water**  
**Analysis Batch: 190766**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 190445**

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	95.1	95.52		10.1	1.04	pCi/L	100	75 - 125

**Lab Sample ID: 160-11674-A-3-D MS**  
**Matrix: Water**  
**Analysis Batch: 190766**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 190445**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	20.9	G	90.2	93.08		14.0	3.09	pCi/L	80	60 - 140

**Lab Sample ID: 160-11674-A-3-E MSBT**  
**Matrix: Water**  
**Analysis Batch: 190766**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 190445**

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	1.68	U	171	173.1		18.3	1.95	pCi/L	101	60 - 140

**Lab Sample ID: 160-11674-A-3-C DU**  
**Matrix: Water**  
**Analysis Batch: 190766**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 190445**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Gross Alpha	20.9	G	21.02	G	6.07	6.36	pCi/L	0.01	1
Gross Beta	1.68	U	3.085		1.50	1.95	pCi/L	0.49	1

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-190226/1-A**  
**Matrix: Water**  
**Analysis Batch: 193522**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 190226**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0000	U	0.0794	0.0794	0.159	pCi/L	05/11/15 08:57	06/04/15 07:31	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110	05/11/15 08:57	06/04/15 07:31	1

TestAmerica Irvine

# QC Sample Results

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 9315 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-190226/2-A**  
**Matrix: Water**  
**Analysis Batch: 193522**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 190226**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	
Radium-226	22.3	24.33		2.39	0.208	pCi/L	109	68 - 137	
<b>Carrier</b>	<b>%Yield</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
Ba Carrier	108		40 - 110						

**Lab Sample ID: LCSD 160-190226/3-A**  
**Matrix: Water**  
**Analysis Batch: 193522**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 190226**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
Radium-226	22.3	23.92		2.36	0.198	pCi/L	107	68 - 137		0.09	1
<b>Carrier</b>	<b>%Yield</b>	<b>LCSD Qualifier</b>	<b>Limits</b>								
Ba Carrier	112	X	40 - 110								

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-190228/1-A**  
**Matrix: Water**  
**Analysis Batch: 192829**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 190228**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2059	U	0.404	0.405	0.690	pCi/L	05/11/15 09:04	05/29/15 12:02	1
<b>Carrier</b>	<b>%Yield</b>	<b>MB Qualifier</b>	<b>Limits</b>						
Ba Carrier	109		40 - 110						
Y Carrier	91.2		40 - 110						
							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							05/11/15 09:04	05/29/15 12:02	1
							05/11/15 09:04	05/29/15 12:02	1

**Lab Sample ID: LCS 160-190228/2-A**  
**Matrix: Water**  
**Analysis Batch: 192829**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 190228**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	6.81	5.981		0.948	0.663	pCi/L	88	56 - 140	
<b>Carrier</b>	<b>%Yield</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
Ba Carrier	108		40 - 110						
Y Carrier	90.8		40 - 110						

# QC Sample Results

Client: Envirotech Consultants, Inc.  
 Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
 SDG: Webber Lease, Midway Sunset Oil Field

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCSD 160-190228/3-A**  
**Matrix: Water**  
**Analysis Batch: 192829**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 190228**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	6.81	6.656		1.00	0.643	pCi/L	98	56 - 140	0.35	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	112	X	40 - 110
Y Carrier	91.2		40 - 110

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Association Summary

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## GC/MS VOA

### Analysis Batch: 253892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109101-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-109101-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-109121-1	Webber	Total/NA	Water	8260B	
LCS 440-253892/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-253892/4	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 254346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-2	TB	Total/NA	Water	8260B	
440-109214-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-109214-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-254346/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-254346/4	Method Blank	Total/NA	Water	8260B	

## GC/MS Semi VOA

### Prep Batch: 254413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	3520C	
LCS 440-254413/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-254413/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 440-254413/1-A	Method Blank	Total/NA	Water	3520C	

### Analysis Batch: 255228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-254413/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	254413
LCSD 440-254413/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	254413
MB 440-254413/1-A	Method Blank	Total/NA	Water	8270C SIM	254413

### Analysis Batch: 255456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	8270C SIM	254413

## GC VOA

### Analysis Batch: 255014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	8015B	
440-109604-E-2 MS	Matrix Spike	Total/NA	Water	8015B	
440-109604-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	
LCS 440-255014/3	Lab Control Sample	Total/NA	Water	8015B	
MB 440-255014/5	Method Blank	Total/NA	Water	8015B	

## GC Semi VOA

### Prep Batch: 253724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	3510C	

# QC Association Summary

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## GC Semi VOA (Continued)

### Analysis Batch: 254151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	8015B	253724

## HPLC/IC

### Analysis Batch: 253537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109072-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-109072-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
440-109121-1	Webber	Total/NA	Water	300.0	
LCS 440-253537/6	Lab Control Sample	Total/NA	Water	300.0	
MB 440-253537/4	Method Blank	Total/NA	Water	300.0	

### Analysis Batch: 253538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109072-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-109072-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
440-109121-1	Webber	Total/NA	Water	300.0	
440-109121-1	Webber	Total/NA	Water	300.0	
LCS 440-253538/6	Lab Control Sample	Total/NA	Water	300.0	
MB 440-253538/4	Method Blank	Total/NA	Water	300.0	

### Analysis Batch: 253787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	300.0	
440-109147-E-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-109147-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 440-253787/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-253787/4	Method Blank	Total/NA	Water	300.0	

## Metals

### Prep Batch: 190483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	3010A	
440-109149-S-1-B MS	Matrix Spike	Total/NA	Water	3010A	
440-109149-S-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
LCS 160-190483/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-190483/1-A	Method Blank	Total/NA	Water	3010A	

### Analysis Batch: 191371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	6020A	190483
440-109149-S-1-B MS	Matrix Spike	Total/NA	Water	6020A	190483
440-109149-S-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	190483
LCS 160-190483/2-A	Lab Control Sample	Total/NA	Water	6020A	190483
MB 160-190483/1-A	Method Blank	Total/NA	Water	6020A	190483

### Prep Batch: 253868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	7470A	

TestAmerica Irvine

# QC Association Summary

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Metals (Continued)

### Prep Batch: 253868 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-49347-E-2-F MS	Matrix Spike	Total/NA	Water	7470A	
580-49347-E-2-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
LCS 440-253868/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 440-253868/1-A	Method Blank	Total/NA	Water	7470A	

### Prep Batch: 254220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109098-J-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-109098-J-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
440-109121-1	Webber	Total Recoverable	Water	3005A	
LCS 440-254220/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 440-254220/1-A	Method Blank	Total Recoverable	Water	3005A	

### Analysis Batch: 254275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	7470A	253868
580-49347-E-2-F MS	Matrix Spike	Total/NA	Water	7470A	253868
580-49347-E-2-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	253868
LCS 440-253868/2-A	Lab Control Sample	Total/NA	Water	7470A	253868
MB 440-253868/1-A	Method Blank	Total/NA	Water	7470A	253868

### Analysis Batch: 254369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109098-J-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	254220
440-109098-J-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	254220
440-109121-1	Webber	Total Recoverable	Water	6010B	254220
LCS 440-254220/2-A	Lab Control Sample	Total Recoverable	Water	6010B	254220
MB 440-254220/1-A	Method Blank	Total Recoverable	Water	6010B	254220

### Analysis Batch: 254518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109098-J-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	254220
440-109098-J-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	254220
440-109121-1	Webber	Total Recoverable	Water	6010B	254220
LCS 440-254220/2-A	Lab Control Sample	Total Recoverable	Water	6010B	254220
MB 440-254220/1-A	Method Blank	Total Recoverable	Water	6010B	254220

### Analysis Batch: 255065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109098-J-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	254220
440-109098-J-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	254220
440-109121-1	Webber	Total Recoverable	Water	6010B	254220
LCS 440-254220/2-A	Lab Control Sample	Total Recoverable	Water	6010B	254220
MB 440-254220/1-A	Method Blank	Total Recoverable	Water	6010B	254220

## General Chemistry

### Analysis Batch: 254117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	SM 2320B	

TestAmerica Irvine

# QC Association Summary

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## General Chemistry (Continued)

### Analysis Batch: 254117 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109178-B-1 DU	Duplicate	Total/NA	Water	SM 2320B	
LCS 440-254117/2	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 440-254117/3	Method Blank	Total/NA	Water	SM 2320B	

### Analysis Batch: 254980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	SM 2540C	
440-109404-K-3 DU	Duplicate	Total/NA	Water	SM 2540C	
LCS 440-254980/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 440-254980/1	Method Blank	Total/NA	Water	SM 2540C	

## Rad

### Prep Batch: 190226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	PrecSep-21	
LCS 160-190226/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCS 160-190226/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	
MB 160-190226/1-A	Method Blank	Total/NA	Water	PrecSep-21	

### Prep Batch: 190228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-109121-1	Webber	Total/NA	Water	PrecSep_0	
LCS 160-190228/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCS 160-190228/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	
MB 160-190228/1-A	Method Blank	Total/NA	Water	PrecSep_0	

### Prep Batch: 190445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11674-A-3-C DU	Duplicate	Total/NA	Water	Evaporation	
160-11674-A-3-D MS	Matrix Spike	Total/NA	Water	Evaporation	
160-11674-A-3-E MSBT	Matrix Spike	Total/NA	Water	Evaporation	
440-109121-1	Webber	Total/NA	Water	Evaporation	
LCS 160-190445/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-190445/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-190445/1-A	Method Blank	Total/NA	Water	Evaporation	

# Definitions/Glossary

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

### HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

### Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Envirotech Consultants, Inc.  
 Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
 SDG: Webber Lease, Midway Sunset Oil Field

## Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	06-06-15

## Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-15 *
California	ELAP	9	2886	03-31-16
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-15 *
Illinois	NELAP	5	200023	11-30-15
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	10-31-15
Kentucky (DW)	State Program	4	90125	12-31-15
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-15 *
Louisiana (DW)	NELAP	6	LA150017	12-31-16
Maryland	State Program	3	310	09-30-15
Missouri	State Program	7	780	06-30-15 *
Nevada	State Program	9	MO000542013-1	07-31-15 *
New Jersey	NELAP	2	MO002	06-30-15 *
New Mexico	State Program	6		06-30-10 *
New York	NELAP	2	11616	03-31-16
North Dakota	State Program	8	R207	06-30-15 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-15
Pennsylvania	NELAP	3	68-00540	02-28-16
South Carolina	State Program	4	85002001	06-30-15 *
Texas	NELAP	6	T104704193-13-6	07-31-15 *
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542013-5	07-31-15
Virginia	NELAP	3	460230	06-14-15 *
Washington	State Program	10	C592	08-30-15
West Virginia DEP	State Program	3	381	08-31-15

\* Certification renewal pending - certification considered valid.

**TestAmerica Irvine**  
 17461 Derian Ave  
 Suite 100  
 Irvine, CA 92614  
 phone 949.261.1022 fax

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other: **RWQCB Orders**

**Client Contact**  
 EnviroTech Consultants, Inc.  
 5400 Rosedale Highway  
 Bakersfield, CA 93308  
 (661) 377-0073 Phone  
 (661) 377-0074 FAX  
 Project Name: RWQCB Pond Testing, 2015  
 Site: Webber Lease, Midway Sunset Oil Field  
 P O #: LDD101

**Project Manager: Jane McNaboe**  
 Tel/Fax: 661-377-0073 X 11

**Site Contact: Jane McNaboe**  
**Lab Contact: Janice Hsu**

**Analysis Turnaround Time**  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

**Sample Date** 5/7/2015 **Sample Time** 1150 **Matrix** Water **# of Cont.** 20

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	SM 2540C TDS	6010B CAM Metals	7470A Mercury (CVAA)	8260B BTEX	8015B C13-C22/C23-C40(Crude oil)	PAH List 8270C SIM SVOC	300.0 Chloride, Bromide, Sulfate	300.0 Nitrate NO3	SM 2320B Alkalinity all forms ion	9310 Gross Alpha	9315 Rad226	9320 Rad 228	6020A Uranium	Ra226 RA228	8015B C4 - C12, TPH	Travel Blank (1) 8260
Webber	5/7/2015	1150		Water	20	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

**Preservation Used:** 1=Ice, 2=HC, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**

**Special Instructions/QC Requirements & Comments:** Please analyze the samples to meet the RWQCB requirements on the attached sheet. Please identify the 8015B results as crude oil.

Custody Seal No.: \_\_\_\_\_  
 Custody Seals Intact:  Yes  No

Relinquished by: *Richard T. ...* Date/Time: 5-7-15 2/423  
 Relinquished by: *TA-Enviro* Date/Time: 5/7/15 1830  
 Relinquished by: *TA-DCS* Date/Time: 5/7/15 1830

Received by: *Sam* Date/Time: 5-07-15 1423  
 Received by: *TA-Enviro* Date/Time: 5/7/15 1830  
 Received in Laboratory by: *TA-I* Date/Time: 5/7/15 1830

Cooler Temp. (°C): Obs'd: 5.6 Corr'd: 4.0 Therm ID No.: 73

## Login Sample Receipt Checklist

Client: Envirotech Consultants, Inc.

Job Number: 440-109121-1  
SDG Number: Webber Lease, Midway Sunset Oil Field

**Login Number: 109121**  
**List Number: 1**  
**Creator: Kim, Guerry**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



# Tracer/Carrier Summary

Client: Envirotech Consultants, Inc.  
Project/Site: RWQCB Pond Testing, 2015

TestAmerica Job ID: 440-109121-1  
SDG: Webber Lease, Midway Sunset Oil Field

## Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)							
440-109121-1	Webber	126 X							
LCS 160-190226/2-A	Lab Control Sample	108							
LCSD 160-190226/3-A	Lab Control Sample Dup	112 X							
MB 160-190226/1-A	Method Blank	109							

### Tracer/Carrier Legend

Ba = Ba Carrier

## Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)						
440-109121-1	Webber	126 X	92.0						
LCS 160-190228/2-A	Lab Control Sample	108	90.8						
LCSD 160-190228/3-A	Lab Control Sample Dup	112 X	91.2						
MB 160-190228/1-A	Method Blank	109	91.2						

### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier