July 13, 2018

Mr. Dave Smith
Environmental Protection Agency, Region 9
Permits Branch (WTR-5)
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Smith:

TRANSMITTAL OF COMPLETE REPORT OF WASTE DISCHARGE (ROWD) FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT RENEWAL – ULTRAMAR INC., WILMINGTON MARINE TERMINAL, BERTH 164, 961 LA PALOMA AVENUE, WILMINGTON, CALIFORNIA (NPDES NO. CA0055719, CI NO. 2165)

Enclosed is a copy of the complete Report of Waste Discharge (ROWD) for the renewal of the National Pollutant Discharge Elimination System (NPDES) permit for the Ultramar Inc., Wilmington Marine Terminal, Berth 164, located at 961 La Paloma Avenue, Wilmington, California. The enclosed ROWD was submitted on July 12, 2018, and revises the original application package submitted by the Discharger dated March 1, 2018. The revised ROWD has been reviewed and appears to be complete.

If you have any questions, please contact Ching To at (213) 576-6696.

Sincerely,

Cris Morris, P.E., Chief
Watershed Regulatory Section

Enclosure: ROWD

EEC ENVIRONMENTAL

Corporate Office
Tel: (714) 667-2300
Fax: (714) 667-2310
One City Boulevard West, Suite 1600
Orange, California 92868
www.eeconvironmental.com

July 12, 2018 EEC S-3228.02T

Ms. Ching Yin
California Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, California 90013

SUBJECT: *NPDES Permit Renewal Application/Report of Waste Discharge*
Ultramar Inc. – Wilmington Marine Terminal, Berth 164
Order No. R4-2013-0133, NPDES No. CA0055719
961 La Paloma Ave
Wilmington, California

Dear Ms. Yin:

On behalf of Ultramar Inc., EEC Environmental (EEC) submitted the NPDES Permit Renewal Application for the Wilmington Marine Terminal, Berth 164 (site) on March 1, 2018. After review of the application package, the Los Angeles Regional Water Quality Control Board (LARWQCB) prepared a letter date June 18, 2018 requesting revisions to the application and resubmittal by July 9, 2018. Pursuant the request, attached is a copy of the NPDES Permit Renewal Application with revisions. As part of the submittal, a copy of the most recent analytical testing results of storm water (2014) that was contained at the site is included as Attachment 4. Samples were collected for laboratory analysis to determine if the contained storm water met the permit limitations for discharge. Based on the analytical results, the contained storm water was not discharged and was transported to the Ultramar Wilmington Refinery via vacuum truck for treatment prior to discharge to the sanitary sewer.

Should you have any questions, please contact the undersigned at (714) 667-2300.

Sincerely,
EEC Environmental

Nate Busch
Project Geologist

Enclosures:

Attachment 1 Site Description
Attachment 2 Figure 1 – Site Location Map
Attachment 3 Figure 2 – Site Plan and Storm Water Drainage System

Attachment 4	Laboratory Analytical Reports (First Quarter 2014)
Attachment 5	LARWQCB Certification Requirement for Application
Attachment 6	RWQCB Application/Report of Waste Discharge General Information Form
Attachment 7	U.S. EPA Form 1
Attachment 8	U.S. EPA Form 2F
Attachment 9	Wilmington Marine Terminal Storm Water Pollution Prevention Plan (SWPPP)

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ATTACHMENT 1

Operations Description

The Wilmington Marine Terminal serves as a bulk storage and distribution facility for Ultramar's Wilmington Refinery (Refinery), two miles to the northeast, and is connected to the Refinery by pipelines. The Facility receives and ships intermediates, feedstock, and refined products by pipeline, marine vessels and trucks. The Facility lies within the harbor area boundaries of the Port of Los Angeles. The nearby waterways include Los Angeles Harbor, Slip No. 1 (referred as Battery 1 by the Discharger), which serves the Terminal, and the East Basin Channel, both of which feed into the Harbor's main ship channel. The Facility is located on property known as Mormon Island. The Facility includes a dock, two separate unloading rack areas, a fired heater area, a warehouse, a control house, offices and a five-parcel tank farm. There are 15 petroleum storage tanks and 4 slop oil storage tanks. The Facility occupies approximately 8 acres, most of which is unpaved.

In the past, storm water runoff from the five parcels (Parcels 1, 2, 3, 4, and 5) of the tank farm was discharged through Discharge Points 001, 002, and 003 to the Los Angeles Inner Harbor, Battery 1 via storm drainage system. As of 2012, the Facility ceased discharging from Discharge Points 001, 002, and 003. Storm water collected in each Parcel is allowed to percolate through the subsurface and/or evaporate. If the parcels become too flooded, storm water may be transferred to Ultramar's Wilmington Refinery via vacuum truck for treatment prior to being discharged to the sanitary sewer (Los Angeles County Sanitation Districts).

In addition to storm water, hydrostatic test water was at one time discharged to the Los Angeles Inner Harbor through Discharge Point 004. Hydrostatic test water is no longer discharged at the facility at the conclusion of the tank integrity testing, it is transported to storage tanks at the site and ultimately the refinery wastewater treatment system prior to discharge to a publicly owned treatment works (POTW) subject to the Los Angeles County Sanitation District (LACSD) discharge permit conditions. Discharge Point 004 is no longer utilized and the temporary hose has been removed.

The Discharger would like to remove Discharge Locations 001, 002, and 004 from the NPDES permit. However, the Discharger would like to retain the authority to continue to discharge storm water through Discharge Point 003 (Parcel 4 & 5) in case of an emergency with the maximum flow capacity of 0.72 million gallons per day (MGD).

Drainage Control

The Storm Water Collection and Discharge System (SWDS) is used to collect storm water falling in the tank farm areas. Figure 2 – *Site Layout and Storm Water Drainage System* shows the drainage patterns, drainage areas, storm water management system elements, and discharge points. All discharges from are covered by the NPDES permit and monitored for compliance with discharge requirements.

Each of the four tank farms has a concrete containment wall. The height of the walls varies with the

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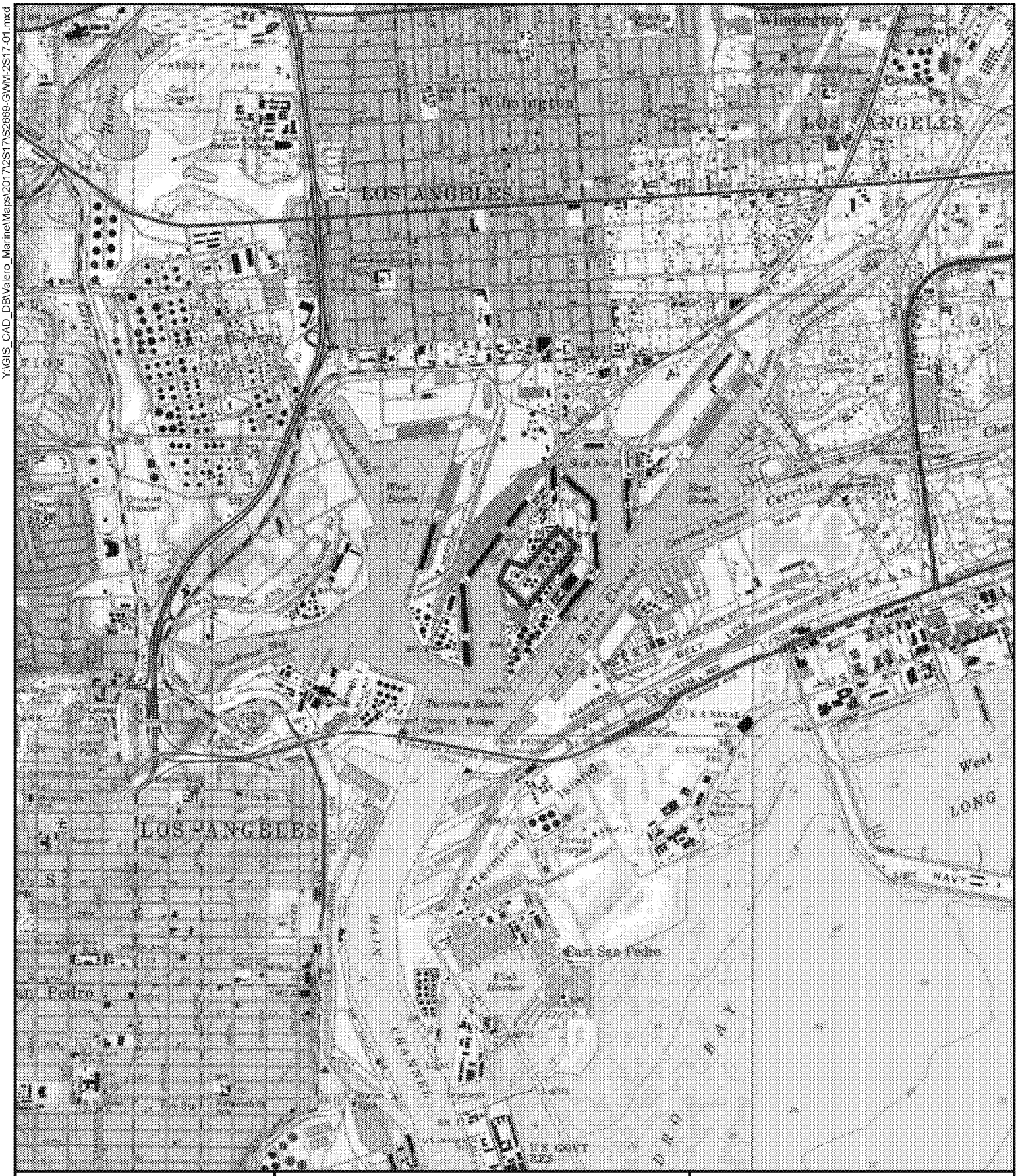
property area in each parcel to establish the necessary containment. Most storm water at the facility is accumulated within the tank farm containment walls and conveyed to the SWDS. One exception to this is that storm water falling on the dock access road and the dock flows directly to the harbor. The tank farm areas are primarily unpaved and have the capability to retain, percolate, and evaporate storm water. Water accumulated within the containment walls is not discharged but held for maximum evaporation and absorption.

Discharge from the tank farm areas is managed sequentially based primarily on surface area and holding capacity. Discharge is controlled by a shutoff valve and pumps at each oil water separator. This allows the operator to ensure that excessive amounts of water are not accumulated in any tank area. Parcels 1, 2, and 3 have dedicated oil water separators which been taken out of service. The oil water separator in Parcel 4 and 5 remains functional. The oil water separators are designed to remove sediment, petroleum compounds, and grease from the storm water prior to discharge. Storm water collected in Parcels 4 and 5 is pumped to the oil water separator and then directed to Discharge Point 003 where it travels southwest through storm drain lines along La Paloma Ave which then turn to the northwest and out to the Los Angeles Inner Harbor, Battery 1.

As of 2012, the Marine Terminal has ceased discharging storm water from Parcels 1, 2, and 3 due to fish toxicity results from these locations. Storm water from these parcels is transported to the refinery wastewater treatment system prior to discharge to a publicly owned treatment works (POTW) subject to the Los Angeles County Sanitation District (LACSD) discharge permit conditions. The valves for Discharge Points 001 and 002 have been closed and locked to ensure no future discharges will occur at these locations. If storm water needs to be discharged from Parcels 1, 2, or 3 due to an emergency, it will be transferred to parcels 4 and 5 via temporary hoses or vacuum trucks and discharged through Discharge Point 003. In addition, the La Paloma Avenue main line has a control valve, as shown on Figure 2, which is normally kept closed and locked. The Harbor Division maintains personnel on 24-hour availability who are responsible for opening the valve whenever a storm is imminent. This effectively controls the possibility of unauthorized discharges to the harbor.

ATTACHMENT 2

Y:\GIS_CAD_DB\Valero_Marine\Maps\2017\2S17\S2669-GWM-2S17-01.mxd



EEC ENVIRONMENTAL

LEGEND

Site Location

0 0.5 1 Miles

N

Source: U.S. Geological Survey, 7.5-Minute Topographic Quadrangle Map, Long Beach California

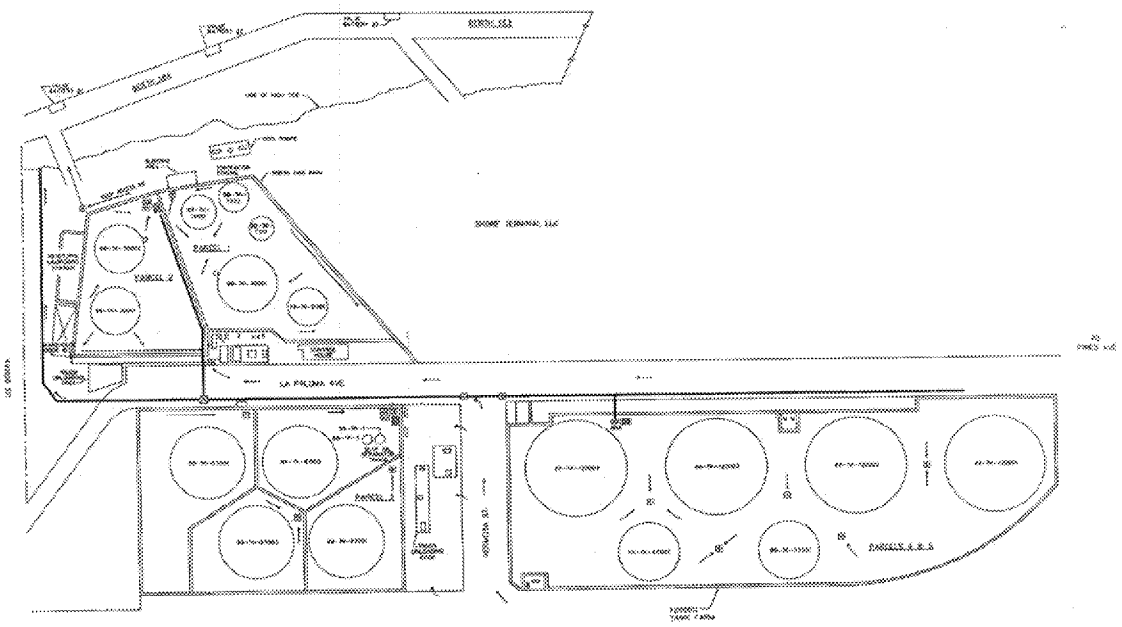
SITE LOCATION MAP

Ultramar Marine Terminal
961 La Paloma Avenue
Wilmington, California

Date	Drafter	PE/RG	Project Number	Figure
July 19, 2017	AK	MZ	S-2669.01T	1
		PM: NB	File Number: S2669-GWM-2S17-01	

ATTACHMENT 3

Y:\GIS_CAD_DB\Valero_Marine\Work\2018_01_29_NPDES_Renewal\S2669_2018_SitePlan_02.mxd



LEGEND

- Discharge Line
- Drainage
- Storm Drain
- Gravity Separator
- Storm Water Discharge/ Sampling Point
- Storm Water Outfall Point
- Locked Valve Box
- Hose

NOTES

SOURCE:
Basemap from Esri

N

0 6 12 Feet

EEC ENVIRONMENTAL

Valero Marine Terminal
Storm Water Pollution Prevention Plan

Site Plan and Storm Water Drainage System

Project Number	File Number
S-2669	S2669_2018_SitePlan_02

Date	Figure
January 30, 2018	2

PE/RG	PM	Drafter
MZ	NB	AK

ATTACHMENT 4

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: 440-71480-1
Client Project/Site: Stormwater Marine Terminal Berth 164
Revision: 1

For:
Valero Refining Co
2402 East Anaheim St.
Wilmington, California 90744

Attn: Shannon Fowler

Authorized for release by:
4/7/2014 11:20:21 AM

Camille Murray, Project Manager I
(949)261-1022
camille.murray@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

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QC Sample Results 14
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ED_002551_00001324-00013

Job ID: 440-71480-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-71480-1

Partial report pending: Dioxins and Asbestos

Comments

No additional comments.

Receipt

The samples were received on 2/28/2014 3:53 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.2° C.

GC/MS VOA

Method(s) 8260B: The following sample(s) was received with headspace in the sample vial: MT-01 (440-71480-1).

Method(s) 8260B: The matrix spike / matrix spike duplicate precision for batch165624 was outside control limits for hexachlorobutadiene. Sample matrix interference and/or non-homogeneity are suspected. The individual recoveries met acceptance criteria.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 165872. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8270C: The CCV associated with batch 166242 was out of acceptable range for the following compounds: dibenzofuran. Results may be biased low. Limits are in the process of being updated. The following samples are impacted: (CCVIS 440-166242/2), MT-01 (440-71480-1).

Method(s) 8270C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 165872 recovered outside control limits for the following analytes: 4-nitroaniline, benzo(g,h,i)perylene and hexachloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

HPLC

Method(s) 300.0: Due to the high concentration of sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for batch 165709 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC VOA

Method(s) 8015B: The following sample(s) was received with headspace in the sample vial: (440-71480-1 MS), (440-71480-1 MSD), MT-01 (440-71480-1).

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 166085. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 166089. (LCS 440-166089/2-A)

Method(s) 8081A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 166085.
No other analytical or quality issues were noted.

Job ID: 440-71480-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

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

General Chemistry
Method(s) 1664A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 166070. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batc.

Method(s) SM 2540F: Method SM2540F requires 1000mL of sample to run analysis. Two bottles of 500mL samples were combined to make 1000mL for each sample listed below:
440-71480-U-1 & 440-71480-S-1

Method(s) SM 4500 H+ B: A 1L Amber Glass was received instead of the normal 500ml poly to run pH analysis. SM4500_H+ was run with the Amber Glass per PM request.

No other analytical or quality issues were noted.

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.

Job ID: 440-71480-3

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-71480-3

Comments
No additional comments.

Receipt
The samples were received on 2/28/2014 3:53 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.2° C.

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

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

Sample Summary

Client: Valero Refining Co
Project/Site: Stormwater Marine Terminal Berth 164

TestAmerica Job ID: 440-71480-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-71480-1	MT-01	Water	02/28/14 10:30	02/28/14 15:53

Client Sample Results

Client: Valero Refining Co
Project/Site: Stormwater Marine Terminal Berth 164

TestAmerica Job ID: 440-71480-1

Client Sample ID: MT-01

Lab Sample ID: 440-71480-1
Matrix: Water

Date Collected: 02/28/14 10:30
Date Received: 02/28/14 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			02/28/14 17:55	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,2,3-Trichlorobenzene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			02/28/14 17:55	1
1,2,4-Trichlorobenzene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			02/28/14 17:55	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
2,2-Dichloropropane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Benzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Bromobenzene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Bromochloromethane	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Bromodichloromethane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Bromoform	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Bromomethane	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Carbon tetrachloride	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Chlorobenzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Chloroethane	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Chloroform	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Chloromethane	ND		5.0	0.25	ug/L			02/28/14 17:55	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Dibromochloromethane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Dibromomethane	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Ethylbenzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Isopropylbenzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
m,p-Xylene	ND		2.0	0.50	ug/L			02/28/14 17:55	1
Methylene Chloride	ND		5.0	1.1	ug/L			02/28/14 17:55	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.25	ug/L			02/28/14 17:55	1
Naphthalene	0.26	J	5.0	0.25	ug/L			02/28/14 17:55	1
n-Butylbenzene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
N-Propylbenzene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
o-Xylene	ND		2.0	0.25	ug/L			02/28/14 17:55	1

Client Sample ID: MT-01

Lab Sample ID: 440-71480-1

Date Collected: 02/28/14 10:30
Date Received: 02/28/14 15:53

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Styrene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Tert-amyl-methyl ether (TAME)	ND		5.0	0.25	ug/L			02/28/14 17:55	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Tetrachloroethene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Toluene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Trichloroethene	ND		2.0	0.25	ug/L			02/28/14 17:55	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Vinyl chloride	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Xylenes, Total	ND		2.0	0.50	ug/L			02/28/14 17:55	1
Isopropyl Ether (DIPE)	ND		5.0	0.25	ug/L			02/28/14 17:55	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	0.25	ug/L			02/28/14 17:55	1
tert-Butyl alcohol (TBA)	ND		10	5.0	ug/L			02/28/14 17:55	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			02/28/14 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*02/28/14 17:55*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/28/14 17:55*	*1*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*02/28/14 17:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
1,2-Dichlorobenzene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
1,3-Dichlorobenzene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
1,4-Dichlorobenzene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
2,4,5-Trichlorophenol	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
2,4,6-Trichlorophenol	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
2,4-Dichlorophenol	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
2,4-Dimethylphenol	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
2,4-Dinitrophenol	ND		41	21	ug/L		02/28/14 20:18	03/03/14 20:33	1
2,4-Dinitrotoluene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
2,6-Dinitrotoluene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
2-Chloronaphthalene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
2-Chlorophenol	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
2-Methylnaphthalene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
2-Methylphenol	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
2-Nitroaniline	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
2-Nitrophenol	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
3,3'-Dichlorobenzidine	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
3-Nitroaniline	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
4,6-Dinitro-2-methylphenol	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
4-Bromophenyl phenyl ether	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
4-Chloro-3-methylphenol	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
4-Chloroaniline	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
4-Chlorophenyl phenyl ether	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1

Client Sample ID: MT-01

Date Collected: 02/28/14 10:30
Date Received: 02/28/14 15:53

Lab Sample ID: 440-71480-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylphenol + 4-Methylphenol	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
4-Nitroaniline	ND	*	21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
4-Nitrophenol	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Acenaphthene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Acenaphthylene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Aniline	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Anthracene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Benzidine	ND		41	21	ug/L		02/28/14 20:18	03/03/14 20:33	1
Benzo[a]anthracene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Benzo[a]pyrene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Benzo[b]fluoranthene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Benzo[g,h,i]perylene	ND	*	10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Benzo[k]fluoranthene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Benzoic acid	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Benzyl alcohol	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Bis(2-chloroethoxy)methane	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Bis(2-chloroethyl)ether	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Bis(2-ethylhexyl) phthalate	ND		52	26	ug/L		02/28/14 20:18	03/03/14 20:33	1
Butyl benzyl phthalate	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Chrysene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Dibenz(a,h)anthracene	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Dibenzofuran	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Diethyl phthalate	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Dimethyl phthalate	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Di-n-butyl phthalate	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Di-n-octyl phthalate	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Fluoranthene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Fluorene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Hexachlorobenzene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Hexachlorobutadiene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Hexachlorocyclopentadiene	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Hexachloroethane	ND	*	10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Indeno[1,2,3-cd]pyrene	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Isophorone	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Naphthalene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Nitrobenzene	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
N-Nitrosodi-n-propylamine	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
N-Nitrosodiphenylamine	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Pentachlorophenol	ND		21	10	ug/L		02/28/14 20:18	03/03/14 20:33	1
Phenanthrene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Phenol	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
Pyrene	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1
bis (2-chloroisopropyl) ether	ND		10	5.2	ug/L		02/28/14 20:18	03/03/14 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*50 - 120*	*02/28/14 20:18*	*03/03/14 20:33*	*1*
2-Fluorophenol (Surr)	*73*		*30 - 120*	*02/28/14 20:18*	*03/03/14 20:33*	*1*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 120*	*02/28/14 20:18*	*03/03/14 20:33*	*1*
Nitrobenzene-d5 (Surr)	*84*		*45 - 120*	*02/28/14 20:18*	*03/03/14 20:33*	*1*
Terphenyl-d14 (Surr)	*58*		*10 - 150*	*02/28/14 20:18*	*03/03/14 20:33*	*1*

Client Sample ID: MT-01

Date Collected: 02/28/14 10:30
Date Received: 02/28/14 15:53

Lab Sample ID: 440-71480-1
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d6 (Surr)	*72*		*35 - 120*	*02/28/14 20:18*	*03/03/14 20:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	33	J	50	25	ug/L			02/28/14 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*		*02/28/14 19:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	0.30	J	0.50	0.099	mg/L		03/03/14 08:52	03/03/14 13:02	1
C23-C40	0.26	J	0.50	0.099	mg/L		03/03/14 08:52	03/03/14 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*72*		*45 - 120*	*03/03/14 08:52*	*03/03/14 13:02*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
4,4'-DDE	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
4,4'-DDT	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Aldrin	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
alpha-BHC	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
beta-BHC	ND		0.10	0.031	ug/L		03/03/14 08:49	03/03/14 14:40	1
Chlordane (technical)	ND		1.0	0.21	ug/L		03/03/14 08:49	03/03/14 14:40	1
delta-BHC	ND		0.21	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Dieldrin	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Endosulfan I	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Endosulfan II	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Endosulfan sulfate	ND		0.21	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Endrin	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Endrin aldehyde	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Endrin ketone	ND		0.10	0.041	ug/L		03/03/14 08:49	03/03/14 14:40	1
gamma-BHC (Lindane)	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Heptachlor	ND		0.10	0.031	ug/L		03/03/14 08:49	03/03/14 14:40	1
Heptachlor epoxide	ND		0.10	0.031	ug/L		03/03/14 08:49	03/03/14 14:40	1
Methoxychlor	ND		0.10	0.021	ug/L		03/03/14 08:49	03/03/14 14:40	1
Toxaphene	ND		5.1	0.51	ug/L		03/03/14 08:49	03/03/14 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*71*		*35 - 115*	*03/03/14 08:49*	*03/03/14 14:40*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*	*03/03/14 08:49*	*03/03/14 14:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.26	ug/L		03/03/14 08:49	03/03/14 14:49	1
Aroclor 1221	ND		1.0	0.26	ug/L		03/03/14 08:49	03/03/14 14:49	1
Aroclor 1232	ND		1.0	0.26	ug/L		03/03/14 08:49	03/03/14 14:49	1
Aroclor 1242	ND		1.0	0.26	ug/L		03/03/14 08:49	03/03/14 14:49	1
Aroclor 1248	ND		1.0	0.26	ug/L		03/03/14 08:49	03/03/14 14:49	1

Client Sample Results

Client: Valero Refining Co
Project/Site: Stormwater Marine Terminal Berth 164

TestAmerica Job ID: 440-71480-1

Client Sample ID: MT-01

Date Collected: 02/28/14 10:30
Date Received: 02/28/14 15:53

Lab Sample ID: 440-71480-1
Matrix: Water

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND		1.0	0.26	ug/L		03/03/14 08:49	03/03/14 14:49	1
Aroclor 1260	ND		1.0	0.26	ug/L		03/03/14 08:49	03/03/14 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*45 - 120*	*03/03/14 08:49*	*03/03/14 14:49*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	10		0.50	0.25	mg/L			02/28/14 19:17	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0070	mg/L		02/28/14 20:37	03/03/14 11:55	1
Arsenic	ND		0.010	0.0070	mg/L		02/28/14 20:37	03/03/14 11:55	1
Beryllium	ND		0.0020	0.00090	mg/L		02/28/14 20:37	03/03/14 10:44	1
Cadmium	ND		0.0050	0.0020	mg/L		02/28/14 20:37	03/03/14 10:44	1
Chromium	0.0027	J	0.0050	0.0020	mg/L		02/28/14 20:37	03/03/14 11:55	1
Copper	0.043	B	0.010	0.0030	mg/L		02/28/14 20:37	03/03/14 10:44	1
Lead	0.0041	J	0.0050	0.0040	mg/L		02/28/14 20:37	03/03/14 10:44	1
Nickel	0.0024	J	0.010	0.0020	mg/L		02/28/14 20:37	03/03/14 10:44	1
Selenium	ND		0.010	0.0092	mg/L		02/28/14 20:37	03/03/14 10:44	1
Silver	ND		0.010	0.0060	mg/L		03/03/14 20:32	03/04/14 11:30	1
Thallium	ND		0.010	0.0080	mg/L		02/28/14 20:37	03/03/14 10:44	1
Zinc	0.061		0.020	0.0090	mg/L		02/28/14 20:37	03/03/14 10:44	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		03/03/14 07:30	03/03/14 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		4.8	1.3	mg/L		03/03/14 07:55	03/03/14 08:14	1
Phenolics, Total Recoverable	ND		0.050	0.025	mg/L		03/05/14 10:00	03/05/14 16:27	1
Turbidity	20		0.20	0.080	NTU			02/28/14 17:34	2
Specific Conductance	78		1.0	1.0	umhos/cm			02/28/14 17:25	1
Total Suspended Solids	31		2.5	1.3	mg/L			02/28/14 18:12	1
Settleable Solids	0.10		0.10	0.10	mL/L/Hr			02/28/14 19:48	1
Chlorine, Total Residual	ND	HF	0.10	0.10	mg/L			03/01/14 16:00	1
Cyanide, Total	ND		0.025	0.017	mg/L		02/28/14 20:51	03/01/14 01:36	1
pH	7.85	HF	0.100	0.100	SU			02/28/14 17:03	1
Ammonia (as N)	0.28	J	0.50	0.28	mg/L		02/28/14 18:10	02/28/14 18:31	1
Oxygen, Dissolved	7.6	HF	1.0	1.0	mg/L			03/01/14 18:58	1
Chemical Oxygen Demand	20		20	10	mg/L			02/28/14 18:14	1
Total Organic Carbon	2.3		1.0	0.65	mg/L			03/04/14 13:38	1
Methylene Blue Active Substances	0.10		0.10	0.050	mg/L			02/28/14 19:52	1
Biochemical Oxygen Demand	1.4	J	2.0	0.50	mg/L			03/01/14 09:17	1

Method: SM 9221B - Coliforms, Total (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	>=1600		1.8	1.8	MPN/100mL			02/28/14 16:56	1

Client Sample Results

Client: Valero Refining Co
Project/Site: Stormwater Marine Terminal Berth 164

TestAmerica Job ID: 440-71480-1

Client Sample ID: MT-01

Lab Sample ID: 440-71480-1

Date Collected: 02/28/14 10:30
Date Received: 02/28/14 15:53

Matrix: Water

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	>=1600		1.8	1.8	MPN/100mL			02/28/14 16:56	1

Method: SM 9230B - Fecal Streptococcus and Enterococcus Groups (Multiple Tube Fermentation)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	130		2.0	2.0	MPN/100mL			02/28/14 17:01	1
Fecal Streptococci	130		2.0	2.0	MPN/100mL			02/28/14 17:01	1

Method: Asbestos-TEM (100.2) - Asbestos

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ASBESTOS	<0.5				MFL		03/24/14 00:00	03/28/14 00:00	1

Lab Chronicle

Client: Valero Refining Co
Project/Site: Stormwater Marine Terminal Berth 164

TestAmerica Job ID: 440-71480-1

Client Sample ID: MT-01

Date Collected: 02/28/14 10:30
Date Received: 02/28/14 16:53

Lab Sample ID: 440-71480-1

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	165624	02/28/14 17:55	SS	TAL IRV
Total/NA	Prep	3520C			965 mL	2 mL	165872	02/28/14 20:18	AB	TAL IRV
Total/NA	Analysis	8270C		1	965 mL	2 mL	166242	03/03/14 20:33	AI	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	165849	02/28/14 19:49	AK	TAL IRV
Total/NA	Prep	3510C			1010 mL	1 mL	166089	03/03/14 08:52	HN	TAL IRV
Total/NA	Analysis	8015B		1	1010 mL	1 mL	166166	03/03/14 13:02	CN	TAL IRV
Total/NA	Prep	3510C			975 mL	2 mL	166085	03/03/14 08:49	HN	TAL IRV
Total/NA	Analysis	8081A		1	975 mL	2 mL	166126	03/03/14 14:40	KS	TAL IRV
Total/NA	Prep	3510C			975 mL	2 mL	166085	03/03/14 08:49	HN	TAL IRV
Total/NA	Analysis	8082		1	975 mL	2 mL	166115	03/03/14 14:49	JM	TAL IRV
Total/NA	Analysis	300.0		1	5 mL		165709	02/28/14 19:17	NN	TAL IRV
Total Recoverable	Prep	200.2			50 mL	50 mL	165875	02/28/14 20:37	JB	TAL IRV
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	166136	03/03/14 10:44	EN	TAL IRV
Total Recoverable	Prep	200.2			50 mL	50 mL	165875	02/28/14 20:37	JB	TAL IRV
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	166152	03/03/14 11:55	VS	TAL IRV
Total Recoverable	Prep	200.2			50 mL	50 mL	166289	03/03/14 20:32	JB	TAL IRV
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	166459	03/04/14 11:30	EN	TAL IRV
Total/NA	Prep	245.1			20 mL	20 mL	166064	03/03/14 07:30	JS1	TAL IRV
Total/NA	Analysis	245.1		1	20 mL	20 mL	166217	03/03/14 15:05	DB	TAL IRV
Total/NA	Prep	1664A			1040 mL	1000 mL	166070	03/03/14 07:55	DA	TAL IRV
Total/NA	Analysis	1664A		1	1040 mL	1000 mL	166075	03/03/14 08:14	DA	TAL IRV
Total/NA	Prep	Distill/Phenol			6 mL	6 mL	318283	03/05/14 10:00	JJW	TAL SAV
Total/NA	Analysis	420.1		1	6 mL	6 mL	318559	03/05/14 16:27	JJW	TAL SAV
Total/NA	Analysis	SM 2130B		2		20 mL	165836	02/28/14 17:34	EN	TAL IRV
Total/NA	Analysis	SM 2510B		1			165833	02/28/14 17:25	BS	TAL IRV
Total/NA	Analysis	SM 2540D		1	400 mL	1000 mL	165847	02/28/14 18:12	NTN	TAL IRV
Total/NA	Analysis	SM 2540F		1	1000 mL	1000 mL	165866	02/28/14 19:48	EN	TAL IRV
Total/NA	Analysis	SM 4500 Cl G		1			165968	03/01/14 16:00	QPD	TAL IRV
Total/NA	Prep	Distill/CN			50 mL	50 mL	165881	02/28/14 20:51	BT	TAL IRV
Total/NA	Analysis	SM 4500 CN E		1	50 mL	50 mL	165907	03/01/14 01:36	BT	TAL IRV
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	165828	02/28/14 17:03	EN	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	165845	02/28/14 18:10	ACAN	TAL IRV
Total/NA	Analysis	SM 4500 NH3 C		1	50 mL	50 mL	165851	02/28/14 18:31	ACAN	TAL IRV
Total/NA	Analysis	SM 4500 O G		1		25 mL	165969	03/01/14 18:58	QPD	TAL IRV
Total/NA	Analysis	SM 5220D		1	2.5 mL	2.5 mL	165895	02/28/14 18:14	NC	TAL IRV
Total/NA	Analysis	SM 5310B		1		100 mL	166679	03/04/14 13:38	YZ	TAL IRV
Total/NA	Analysis	SM 5540C		1	100 mL	100 mL	165867	02/28/14 19:52	SP	TAL IRV
Total/NA	Analysis	SM5210B		1		300 mL	165949	03/01/14 09:17	QPD	TAL IRV
Total/NA	Analysis	SM 9221B		1	100 mL	100 mL	166540		KN1	TAL IRV
							(Start)	02/28/14 16:56		
							(End)	03/02/14 15:16		

TestAmerica Irvine

Lab Chronicle

Client: Valero Refining Co
Project/Site: Stormwater Marine Terminal Berth 164

TestAmerica Job ID: 440-71480-1

Client Sample ID: MT-01

Date Collected: 02/28/14 10:30
Date Received: 02/28/14 15:53

Lab Sample ID: 440-71480-1

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	SM 9221E		1	100 mL	100 mL	166542		KN1	TAL IRV
							(Start)	02/28/14 16:56		
							(End)	03/02/14 15:16		
Total/NA	Analysis	SM 9230B		1			166588		KN1	TAL IRV
							(Start)	02/28/14 17:01		
							(End)	03/05/14 13:20		
Total/NA	Prep	NA		1			160463_P	03/24/14 00:00		EMS Labs
Total/NA	Analysis	Asbestos-TEM (100.2)		1			160463	03/28/14 00:00	LK	EMS Labs

Laboratory References:

EMS Labs = EMS Laboratories Pasadena, CA, 117 West Bellevue Drive, Ste 3, Pasadena, CA 91105-2503

SC0127 = Aquatic Testing Laboratories, 4350 Transport #107, Ventura, CA 93003

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

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

QC Sample Results

Client: Valero Refining Co
Project/Site: Stormwater Marine Terminal Berth 164

TestAmerica Job ID: 440-71480-1

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

Lab Sample ID: MB 440-165624/19
Matrix: Water
Analysis Batch: 165624

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			02/28/14 10:53	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,2,3-Trichlorobenzene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			02/28/14 10:53	1
1,2,4-Trichlorobenzene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			02/28/14 10:53	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
2,2-Dichloropropane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Benzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Bromobenzene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Bromochloromethane	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Bromodichloromethane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Bromoform	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Bromomethane	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Carbon tetrachloride	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Chlorobenzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Chloroethane	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Chloroform	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Chloromethane	ND		5.0	0.25	ug/L			02/28/14 10:53	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Dibromochloromethane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Dibromomethane	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Ethylbenzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Isopropylbenzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
m,p-Xylene	ND		2.0	0.50	ug/L			02/28/14 10:53	1
Methylene Chloride	ND		5.0	1.1	ug/L			02/28/14 10:53	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.25	ug/L			02/28/14 10:53	1
Naphthalene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
n-Butylbenzene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
N-Propylbenzene	ND		2.0	0.25	ug/L			02/28/14 10:53	1

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

Lab Sample ID: MB 440-165624/19
Matrix: Water
Analysis Batch: 165624

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Styrene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Tert-amyl-methyl ether (TAME)	ND		5.0	0.25	ug/L			02/28/14 10:53	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Tetrachloroethene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Toluene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Trichloroethene	ND		2.0	0.25	ug/L			02/28/14 10:53	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Vinyl chloride	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Xylenes, Total	ND		2.0	0.50	ug/L			02/28/14 10:53	1
Isopropyl Ether (DIPE)	ND		5.0	0.25	ug/L			02/28/14 10:53	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	0.25	ug/L			02/28/14 10:53	1
tert-Butyl alcohol (TBA)	ND		10	5.0	ug/L			02/28/14 10:53	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			02/28/14 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*02/28/14 107 5*	*1*
4-Bromofluorobenzene (Surr)	*10:*		*80 - 120*		*02/28/14 107 5*	*1*
Dibromofluoromethane (Surr)	*10:*		*69 - 152*		*02/28/14 107 5*	*1*

Lab Sample ID: LCS 440-165624/6
Matrix: Water
Analysis Batch: 165624

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	28.3		ug/L		113	60 - 141
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	30.0		ug/L		120	63 - 130
1,1,2-Trichloroethane	25.0	27.4		ug/L		110	70 - 130
1,1-Dichloroethane	25.0	26.7		ug/L		107	64 - 130
1,1-Dichloroethene	25.0	28.7		ug/L		115	70 - 130
1,1-Dichloropropene	25.0	27.4		ug/L		110	70 - 130
1,2,3-Trichlorobenzene	25.0	26.9		ug/L		108	60 - 140
1,2,3-Trichloropropane	25.0	28.3		ug/L		113	63 - 130
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	60 - 140
1,2,4-Trimethylbenzene	25.0	26.9		ug/L		107	70 - 135
1,2-Dibromo-3-Chloropropane	25.0	27.3		ug/L		109	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.5		ug/L		110	70 - 130
1,2-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	26.6		ug/L		106	57 - 138
1,2-Dichloropropane	25.0	28.3		ug/L		113	67 - 130
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 136
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,3-Dichloropropane	25.0	27.4		ug/L		110	70 - 130
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130

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

Lab Sample ID: LCS 440-165624/6
Matrix: Water
Analysis Batch: 165624

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	25.0	27.3		ug/L		109	68 - 141
2-Chlorotoluene	25.0	24.9		ug/L		99	70 - 130
4-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130
Benzene	25.0	26.7		ug/L		107	68 - 130
Bromobenzene	25.0	27.0		ug/L		108	70 - 130
Bromochloromethane	25.0	27.2		ug/L		109	70 - 130
Bromodichloromethane	25.0	28.4		ug/L		114	70 - 132
Bromoform	25.0	27.3		ug/L		109	60 - 148
Bromomethane	25.0	26.3		ug/L		105	64 - 139
Carbon tetrachloride	25.0	26.8		ug/L		107	60 - 150
Chlorobenzene	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	26.6		ug/L		106	64 - 135
Chloroform	25.0	27.2		ug/L		109	70 - 130
Chloromethane	25.0	29.7		ug/L		119	47 - 140
cis-1,2-Dichloroethene	25.0	29.4		ug/L		118	70 - 133
cis-1,3-Dichloropropene	25.0	29.6		ug/L		118	70 - 133
Dibromochloromethane	25.0	28.2		ug/L		113	69 - 145
Dibromomethane	25.0	28.4		ug/L		114	70 - 130
Dichlorodifluoromethane	25.0	28.6		ug/L		114	29 - 150
Ethylbenzene	25.0	26.9		ug/L		108	70 - 130
Hexachlorobutadiene	25.0	26.2		ug/L		105	10 - 150
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 136
m,p-Xylene	50.0	53.0		ug/L		106	70 - 130
Methylene Chloride	25.0	27.0		ug/L		108	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	27.2		ug/L		109	63 - 131
Naphthalene	25.0	28.0		ug/L		112	60 - 140
n-Butylbenzene	25.0	26.9		ug/L		107	65 - 150
N-Propylbenzene	25.0	26.5		ug/L		106	67 - 139
o-Xylene	25.0	26.8		ug/L		107	70 - 130
sec-Butylbenzene	25.0	26.8		ug/L		107	70 - 138
Styrene	25.0	27.9		ug/L		112	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	27.4		ug/L		110	57 - 139
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 130
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130
Toluene	25.0	26.2		ug/L		105	70 - 130
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	70 - 130
trans-1,3-Dichloropropene	25.0	31.5		ug/L		126	70 - 132
Trichloroethene	25.0	27.1		ug/L		108	70 - 130
Trichlorofluoromethane	25.0	32.1		ug/L		128	60 - 150
Vinyl chloride	25.0	27.2		ug/L		109	59 - 133
Isopropyl Ether (DIPE)	25.0	27.3		ug/L		109	58 - 139
Ethyl-t-butyl ether (ETBE)	25.0	26.3		ug/L		105	60 - 136
tert-Butyl alcohol (TBA)	125	132		ug/L		106	70 - 130
p-Isopropyltoluene	25.0	26.8		ug/L		107	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 128*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*

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

Lab Sample ID: LCS 440-165624/6
Matrix: Water
Analysis Batch: 165624

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*102*		*69 - 152*

Lab Sample ID: 440-71172-C-2 MS
Matrix: Water
Analysis Batch: 165624

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
1,1,1,2-Tetrachloroethane	ND		25.0	27.9		ug/L		112	60 - 149
1,1,1-Trichloroethane	ND		25.0	26.5		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	29.1		ug/L		116	63 - 130
1,1,2-Trichloroethane	ND		25.0	28.4		ug/L		114	70 - 130
1,1-Dichloroethane	ND		25.0	26.2		ug/L		105	65 - 130
1,1-Dichloroethene	ND		25.0	28.9		ug/L		115	70 - 130
1,1-Dichloropropene	ND		25.0	28.0		ug/L		112	64 - 130
1,2,3-Trichlorobenzene	ND		25.0	27.3		ug/L		109	60 - 140
1,2,3-Trichloropropane	ND		25.0	27.0		ug/L		108	60 - 130
1,2,4-Trichlorobenzene	ND		25.0	27.0		ug/L		108	60 - 140
1,2,4-Trimethylbenzene	0.37	J	25.0	27.3		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	27.1		ug/L		108	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	27.9		ug/L		111	70 - 131
1,2-Dichlorobenzene	ND		25.0	26.3		ug/L		105	70 - 130
1,2-Dichloroethane	ND		25.0	27.5		ug/L		110	56 - 146
1,2-Dichloropropane	ND		25.0	28.3		ug/L		113	69 - 130
1,3,5-Trimethylbenzene	ND		25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		25.0	27.0		ug/L		108	70 - 130
1,3-Dichloropropane	ND		25.0	27.9		ug/L		112	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		104	70 - 130
2,2-Dichloropropane	ND		25.0	28.8		ug/L		115	69 - 138
2-Chlorotoluene	ND		25.0	24.7		ug/L		99	70 - 130
4-Chlorotoluene	ND		25.0	26.1		ug/L		105	70 - 130
Benzene	ND		25.0	27.2		ug/L		109	66 - 130
Bromobenzene	ND		25.0	26.6		ug/L		106	70 - 130
Bromochloromethane	ND		25.0	27.0		ug/L		108	70 - 130
Bromodichloromethane	ND		25.0	28.3		ug/L		113	70 - 138
Bromoform	ND		25.0	26.8		ug/L		107	59 - 150
Bromomethane	ND		25.0	27.0		ug/L		108	62 - 131
Carbon tetrachloride	ND		25.0	27.1		ug/L		108	60 - 150
Chlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
Chloroethane	ND		25.0	27.2		ug/L		109	68 - 130
Chloroform	ND		25.0	26.2		ug/L		105	70 - 130
Chloromethane	ND		25.0	30.1		ug/L		120	39 - 144
cis-1,2-Dichloroethene	ND		25.0	29.2		ug/L		117	70 - 130
cis-1,3-Dichloropropene	ND		25.0	29.8		ug/L		119	70 - 133
Dibromochloromethane	ND		25.0	27.9		ug/L		112	70 - 148
Dibromomethane	ND		25.0	28.8		ug/L		115	70 - 130
Dichlorodifluoromethane	ND		25.0	29.9		ug/L		120	25 - 142
Ethylbenzene	ND		25.0	27.4		ug/L		110	70 - 130
Hexachlorobutadiene	ND		25.0	26.7		ug/L		107	10 - 150

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

Lab Sample ID: 440-71172-C-2 MS
Matrix: Water
Analysis Batch: 165624

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
Isopropylbenzene	1.0	J	25.0	26.6		ug/L		102	70 - 132
m,p-Xylene	ND		50.0	53.5		ug/L		107	70 - 133
Methylene Chloride	ND		25.0	27.5		ug/L		110	52 - 130
Methyl-t-Butyl Ether (MTBE)	8.1		25.0	35.1		ug/L		108	70 - 130
Naphthalene	5.6		25.0	32.9		ug/L		109	60 - 140
n-Butylbenzene	ND		25.0	27.3		ug/L		109	61 - 149
N-Propylbenzene	1.0	J	25.0	27.7		ug/L		107	66 - 135
o-Xylene	ND		25.0	27.1		ug/L		108	70 - 133
sec-Butylbenzene	ND		25.0	27.5		ug/L		110	67 - 134
Styrene	ND		25.0	27.8		ug/L		111	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	26.1		ug/L		104	68 - 133
tert-Butylbenzene	ND		25.0	26.0		ug/L		104	70 - 130
Tetrachloroethene	ND		25.0	26.3		ug/L		105	70 - 137
Toluene	ND		25.0	26.8		ug/L		107	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.6		ug/L		110	70 - 130
trans-1,3-Dichloropropene	ND		25.0	31.6		ug/L		126	70 - 138
Trichloroethene	ND		25.0	27.4		ug/L		110	70 - 130
Trichlorofluoromethane	ND		25.0	32.4		ug/L		130	60 - 150
Vinyl chloride	ND		25.0	29.5		ug/L		118	50 - 137
Isopropyl Ether (DIPE)	ND		25.0	27.3		ug/L		109	64 - 138
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.0		ug/L		104	70 - 130
tert-Butyl alcohol (TBA)	340		125	483		ug/L		111	70 - 130
p-Isopropyltoluene	ND		25.0	26.9		ug/L		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*80 - 128*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*69 - 152*

Lab Sample ID: 440-71172-C-2 MSD
Matrix: Water
Analysis Batch: 165624

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
1,1,1,2-Tetrachloroethane	ND		25.0	28.9		ug/L		115	60 - 149	3	20
1,1,1-Trichloroethane	ND		25.0	27.9		ug/L		112	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		25.0	30.9		ug/L		124	63 - 130	6	30
1,1,2-Trichloroethane	ND		25.0	28.4		ug/L		114	70 - 130	0	25
1,1-Dichloroethane	ND		25.0	27.4		ug/L		110	65 - 130	4	20
1,1-Dichloroethene	ND		25.0	31.3		ug/L		125	70 - 130	8	20
1,1-Dichloropropene	ND		25.0	28.7		ug/L		115	64 - 130	2	20
1,2,3-Trichlorobenzene	ND		25.0	26.4		ug/L		106	60 - 140	3	20
1,2,3-Trichloropropane	ND		25.0	28.6		ug/L		114	60 - 130	6	30
1,2,4-Trichlorobenzene	ND		25.0	26.4		ug/L		106	60 - 140	2	20
1,2,4-Trimethylbenzene	0.37	J	25.0	27.9		ug/L		110	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	27.5		ug/L		110	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		25.0	28.8		ug/L		115	70 - 131	3	25
1,2-Dichlorobenzene	ND		25.0	27.1		ug/L		109	70 - 130	3	20

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

Lab Sample ID: 440-71172-C-2 MSD
Matrix: Water
Analysis Batch: 165624

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
1,2-Dichloroethane	ND		25.0	27.3		ug/L		109	56 - 146	1	20
1,2-Dichloropropane	ND		25.0	28.9		ug/L		116	69 - 130	2	20
1,3,5-Trimethylbenzene	ND		25.0	27.2		ug/L		109	70 - 130	4	20
1,3-Dichlorobenzene	ND		25.0	27.7		ug/L		111	70 - 130	3	20
1,3-Dichloropropane	ND		25.0	28.5		ug/L		114	70 - 130	2	25
1,4-Dichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130	2	20
2,2-Dichloropropane	ND		25.0	28.4		ug/L		114	69 - 138	1	25
2-Chlorotoluene	ND		25.0	25.6		ug/L		102	70 - 130	4	20
4-Chlorotoluene	ND		25.0	26.8		ug/L		107	70 - 130	3	20
Benzene	ND		25.0	27.6		ug/L		110	66 - 130	1	20
Bromobenzene	ND		25.0	27.5		ug/L		110	70 - 130	3	20
Bromochloromethane	ND		25.0	29.2		ug/L		117	70 - 130	8	25
Bromodichloromethane	ND		25.0	28.6		ug/L		114	70 - 138	1	20
Bromoform	ND		25.0	27.9		ug/L		112	59 - 150	4	25
Bromomethane	ND		25.0	27.9		ug/L		112	62 - 131	3	25
Carbon tetrachloride	ND		25.0	27.0		ug/L		108	60 - 150	0	25
Chlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	2	20
Chloroethane	ND		25.0	27.9		ug/L		112	68 - 130	3	25
Chloroform	ND		25.0	27.6		ug/L		110	70 - 130	5	20
Chloromethane	ND		25.0	30.3		ug/L		121	39 - 144	1	25
cis-1,2-Dichloroethene	ND		25.0	30.3		ug/L		121	70 - 130	4	20
cis-1,3-Dichloropropene	ND		25.0	30.5		ug/L		122	70 - 133	2	20
Dibromochloromethane	ND		25.0	28.7		ug/L		115	70 - 148	3	25
Dibromomethane	ND		25.0	28.4		ug/L		114	70 - 130	1	25
Dichlorodifluoromethane	ND		25.0	30.5		ug/L		122	25 - 142	2	30
Ethylbenzene	ND		25.0	28.3		ug/L		113	70 - 130	3	20
Hexachlorobutadiene	ND		25.0	21.6	F2	ug/L		86	10 - 150	21	20
Isopropylbenzene	1.0	J	25.0	27.7		ug/L		107	70 - 132	4	20
m,p-Xylene	ND		50.0	55.3		ug/L		111	70 - 133	3	25
Methylene Chloride	ND		25.0	28.1		ug/L		112	52 - 130	2	20
Methyl-t-Butyl Ether (MTBE)	8.1		25.0	37.0		ug/L		116	70 - 130	5	25
Naphthalene	5.6		25.0	33.9		ug/L		113	60 - 140	3	30
n-Butylbenzene	ND		25.0	26.5		ug/L		106	61 - 149	3	20
N-Propylbenzene	1.0	J	25.0	28.3		ug/L		109	66 - 135	2	20
o-Xylene	ND		25.0	27.7		ug/L		111	70 - 133	2	20
sec-Butylbenzene	ND		25.0	27.8		ug/L		111	67 - 134	1	20
Styrene	ND		25.0	27.3		ug/L		109	29 - 150	2	35
Tert-amyl-methyl ether (TAME)	ND		25.0	27.2		ug/L		109	68 - 133	4	30
tert-Butylbenzene	ND		25.0	26.4		ug/L		106	70 - 130	2	20
Tetrachloroethene	ND		25.0	26.7		ug/L		107	70 - 137	1	20
Toluene	ND		25.0	27.3		ug/L		109	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	29.4		ug/L		118	70 - 130	6	20
trans-1,3-Dichloropropene	ND		25.0	31.1		ug/L		124	70 - 138	1	25
Trichloroethene	ND		25.0	27.5		ug/L		110	70 - 130	0	20
Trichlorofluoromethane	ND		25.0	33.3		ug/L		133	60 - 150	3	25
Vinyl chloride	ND		25.0	29.9		ug/L		120	50 - 137	1	30
Isopropyl Ether (DIPE)	ND		25.0	28.7		ug/L		115	64 - 138	5	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.5		ug/L		110	70 - 130	6	25

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

Lab Sample ID: 440-71172-C-2 MSD
Matrix: Water
Analysis Batch: 165624

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
tert-Butyl alcohol (TBA)	340		125	480		ug/L		108	70 - 130	1	25
p-Isopropyltoluene	ND		25.0	26.9		ug/L		108	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*69 - 152*

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

Lab Sample ID: MB 440-165872/1-A
Matrix: Water
Analysis Batch: 166242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
1,3-Dichlorobenzene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
1,4-Dichlorobenzene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
2,4,5-Trichlorophenol	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
2,4,6-Trichlorophenol	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
2,4-Dichlorophenol	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
2,4-Dimethylphenol	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
2,4-Dinitrophenol	ND		40	20	ug/L		02/28/14 20:18	03/03/14 18:17	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
2,6-Dinitrotoluene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
2-Chloronaphthalene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
2-Chlorophenol	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
2-Methylnaphthalene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
2-Methylphenol	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
2-Nitroaniline	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
2-Nitrophenol	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
3,3'-Dichlorobenzidine	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
3-Nitroaniline	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
4,6-Dinitro-2-methylphenol	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
4-Bromophenyl phenyl ether	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
4-Chloro-3-methylphenol	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
4-Chloroaniline	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
4-Chlorophenyl phenyl ether	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
3-Methylphenol + 4-Methylphenol	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
4-Nitroaniline	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
4-Nitrophenol	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Acenaphthene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Acenaphthylene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Aniline	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Anthracene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1

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

Lab Sample ID: MB 440-165872/1-A
Matrix: Water
Analysis Batch: 166242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	ND		40	20	ug/L		02/28/14 20:18	03/03/14 18:17	1
Benzo[a]anthracene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Benzo[a]pyrene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Benzo[b]fluoranthene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Benzo[g,h,i]perylene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Benzo[k]fluoranthene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Benzoic acid	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Benzyl alcohol	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Bis(2-chloroethoxy)methane	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Bis(2-chloroethyl)ether	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Bis(2-ethylhexyl) phthalate	ND		50	25	ug/L		02/28/14 20:18	03/03/14 18:17	1
Butyl benzyl phthalate	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Chrysene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Dibenz(a,h)anthracene	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Dibenzofuran	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Diethyl phthalate	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Dimethyl phthalate	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Di-n-butyl phthalate	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Di-n-octyl phthalate	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Fluoranthene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Fluorene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Hexachlorobenzene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Hexachlorobutadiene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Hexachlorocyclopentadiene	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Hexachloroethane	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Indeno[1,2,3-cd]pyrene	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Isophorone	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Naphthalene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Nitrobenzene	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
N-Nitrosodi-n-propylamine	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
N-Nitrosodiphenylamine	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Pentachlorophenol	ND		20	10	ug/L		02/28/14 20:18	03/03/14 18:17	1
Phenanthrene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Phenol	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
Pyrene	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1
bis (2-chloroisopropyl) ether	ND		10	5.0	ug/L		02/28/14 20:18	03/03/14 18:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-3luorobiFhenpl	*6:*		*: 0 - 120*	*02/28/14 20718*	*05/05/14 18716*	*1*
2-3luoroFhenol (Surr)	*95*		*50 - 120*	*02/28/14 20718*	*05/05/14 18716*	*1*
2y4y9-TribromoFhenol (Surr)	*8:*		*40 - 120*	*02/28/14 20718*	*05/05/14 18716*	*1*
, itrobenzene-d: (Surr)	*66*		*4: - 120*	*02/28/14 20718*	*05/05/14 18716*	*1*
TerFhenpl-d14 (Surr)	*: :*		*10 - 1: 0*	*02/28/14 20718*	*05/05/14 18716*	*1*
Nhenol-d9 (Surr)	*94*		*5: - 120*	*02/28/14 20718*	*05/05/14 18716*	*1*

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

Lab Sample ID: LCS 440-165872/2-A
Matrix: Water
Analysis Batch: 166242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	100	77.9		ug/L		78	25 - 84
1,2-Dichlorobenzene	100	78.2		ug/L		78	24 - 85
1,2-Diphenylhydrazine(as Azobenzene)	100	105		ug/L		105	44 - 113
1,3-Dichlorobenzene	100	72.1		ug/L		72	20 - 80
1,4-Dichlorobenzene	100	73.2		ug/L		73	22 - 81
2,4,5-Trichlorophenol	100	92.7		ug/L		93	24 - 121
2,4,6-Trichlorophenol	100	90.9		ug/L		91	20 - 121
2,4-Dichlorophenol	100	85.9		ug/L		86	23 - 113
2,4-Dimethylphenol	100	79.5		ug/L		79	39 - 94
2,4-Dinitrophenol	100	104		ug/L		104	23 - 134
2,4-Dinitrotoluene	100	113		ug/L		113	54 - 115
2,6-Dinitrotoluene	100	107		ug/L		107	50 - 115
2-Chloronaphthalene	100	88.2		ug/L		88	34 - 102
2-Chlorophenol	100	84.3		ug/L		84	20 - 106
2-Methylnaphthalene	100	91.5		ug/L		92	34 - 98
2-Methylphenol	100	89.4		ug/L		89	36 - 103
2-Nitroaniline	100	92.8		ug/L		93	48 - 111
2-Nitrophenol	100	87.6		ug/L		88	20 - 117
3,3'-Dichlorobenzidine	100	91.4		ug/L		91	22 - 97
3-Nitroaniline	100	113		ug/L		113	51 - 116
4,6-Dinitro-2-methylphenol	100	110		ug/L		110	28 - 139
4-Bromophenyl phenyl ether	100	98.8		ug/L		99	42 - 113
4-Chloro-3-methylphenol	100	105		ug/L		105	44 - 110
4-Chloroaniline	100	94.7		ug/L		95	42 - 109
4-Chlorophenyl phenyl ether	100	103		ug/L		103	38 - 115
3-Methylphenol + 4-Methylphenol	100	90.1		ug/L		90	35 - 106
4-Nitroaniline	100	123	*	ug/L		123	50 - 116
4-Nitrophenol	100	113		ug/L		113	26 - 132
Acenaphthene	100	89.5		ug/L		89	37 - 107
Acenaphthylene	100	105		ug/L		105	39 - 107
Aniline	100	100		ug/L		100	27 - 115
Anthracene	100	102		ug/L		102	42 - 120
Benzidine	100	128		ug/L		128	5 - 150
Benzo[a]anthracene	100	103		ug/L		103	42 - 115
Benzo[a]pyrene	100	105		ug/L		105	41 - 117
Benzo[b]fluoranthene	100	107		ug/L		107	36 - 113
Benzo[g,h,i]perylene	100	116	*	ug/L		116	37 - 115
Benzo[k]fluoranthene	100	103		ug/L		103	42 - 122
Benzoic acid	100	74.9		ug/L		75	15 - 121
Benzyl alcohol	100	99.4		ug/L		99	39 - 106
Bis(2-chloroethoxy)methane	100	93.7		ug/L		94	47 - 104
Bis(2-chloroethyl)ether	100	88.2		ug/L		88	42 - 99
Bis(2-ethylhexyl) phthalate	100	115		ug/L		115	43 - 124
Butyl benzyl phthalate	100	114		ug/L		114	44 - 122
Chrysene	100	106		ug/L		106	42 - 118
Dibenz(a,h)anthracene	100	54.3		ug/L		54	40 - 114
Dibenzofuran	100	77.5		ug/L		78	37 - 113

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

Lab Sample ID: LCS 440-165872/2-A
Matrix: Water
Analysis Batch: 166242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diethyl phthalate	100	115		ug/L		115	51 - 120
Dimethyl phthalate	100	105		ug/L		105	49 - 113
Di-n-butyl phthalate	100	104		ug/L		104	47 - 125
Di-n-octyl phthalate	100	115		ug/L		115	42 - 125
Fluoranthene	100	108		ug/L		108	44 - 119
Fluorene	100	103		ug/L		103	39 - 116
Hexachlorobenzene	100	100		ug/L		100	43 - 112
Hexachlorobutadiene	100	64.1		ug/L		64	14 - 77
Hexachlorocyclopentadiene	100	53.5		ug/L		53	10 - 77
Hexachloroethane	100	70.8		ug/L		71	13 - 75
Indeno[1,2,3-cd]pyrene	100	96.4		ug/L		96	35 - 116
Isophorone	100	100		ug/L		100	48 - 107
Naphthalene	100	80.7		ug/L		81	33 - 95
Nitrobenzene	100	91.3		ug/L		91	42 - 99
N-Nitrosodi-n-propylamine	100	103		ug/L		103	44 - 111
N-Nitrosodiphenylamine	100	98.9		ug/L		99	46 - 116
Pentachlorophenol	100	115		ug/L		115	26 - 136
Phenanthrene	100	101		ug/L		101	43 - 120
Phenol	100	80.3		ug/L		80	25 - 99
Pyrene	100	113		ug/L		113	43 - 119
bis (2-chloroisopropyl) ether	100	94.7		ug/L		95	38 - 104

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-3luorobiFhenpl	*80*		*: 0 - 120*
2-3luoroFhenol (Surr)	*95*		*50 - 120*
2y4y9-TribromoFhenol (Surr)	*P0*		*40 - 120*
, itrobenzene-d: (Surr)	*81*		*4: - 120*
TerFhenpl-d14 (Surr)	*9:*		*10 - 1: 0*
Nhenol-d9 (Surr)	*60*		*5: - 120*

Lab Sample ID: LCSD 440-165872/3-A
Matrix: Water
Analysis Batch: 166242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 165872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	100	76.0		ug/L		76	25 - 84	3	20
1,2-Dichlorobenzene	100	82.6		ug/L		83	24 - 85	6	25
1,2-Diphenylhydrazine(as Azobenzene)	100	103		ug/L		103	44 - 113	2	25
1,3-Dichlorobenzene	100	64.0		ug/L		64	20 - 80	12	25
1,4-Dichlorobenzene	100	75.3		ug/L		75	22 - 81	3	25
2,4,5-Trichlorophenol	100	100		ug/L		100	24 - 121	8	30
2,4,6-Trichlorophenol	100	96.8		ug/L		97	20 - 121	6	30
2,4-Dichlorophenol	100	86.7		ug/L		87	23 - 113	1	20
2,4-Dimethylphenol	100	80.4		ug/L		80	39 - 94	1	25
2,4-Dinitrophenol	100	103		ug/L		103	23 - 134	1	25
2,4-Dinitrotoluene	100	112		ug/L		112	54 - 115	0	20
2,6-Dinitrotoluene	100	112		ug/L		112	50 - 115	5	20

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

Lab Sample ID: LCSD 440-165872/3-A
Matrix: Water
Analysis Batch: 166242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 165872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene	100	87.3		ug/L		87	34 - 102	1	20
2-Chlorophenol	100	83.0		ug/L		83	20 - 106	1	25
2-Methylnaphthalene	100	92.7		ug/L		93	34 - 98	1	20
2-Methylphenol	100	101		ug/L		101	36 - 103	12	20
2-Nitroaniline	100	95.2		ug/L		95	48 - 111	3	20
2-Nitrophenol	100	88.6		ug/L		89	20 - 117	1	25
3,3'-Dichlorobenzidine	100	91.6		ug/L		92	22 - 97	0	25
3-Nitroaniline	100	111		ug/L		111	51 - 116	1	25
4,6-Dinitro-2-methylphenol	100	108		ug/L		108	28 - 139	2	25
4-Bromophenyl phenyl ether	100	96.7		ug/L		97	42 - 113	2	25
4-Chloro-3-methylphenol	100	106		ug/L		106	44 - 110	1	25
4-Chloroaniline	100	98.7		ug/L		99	42 - 109	4	25
4-Chlorophenyl phenyl ether	100	106		ug/L		106	38 - 115	2	23
3-Methylphenol + 4-Methylphenol	100	100		ug/L		100	35 - 106	11	20
4-Nitroaniline	100	120	*	ug/L		120	50 - 116	3	20
4-Nitrophenol	100	110		ug/L		110	26 - 132	3	30
Acenaphthene	100	94.5		ug/L		95	37 - 107	5	20
Acenaphthylene	100	103		ug/L		103	39 - 107	1	20
Aniline	100	93.3		ug/L		93	27 - 115	7	30
Anthracene	100	100		ug/L		100	42 - 120	2	20
Benzidine	100	107		ug/L		107	5 - 150	17	35
Benzo[a]anthracene	100	98.0		ug/L		98	42 - 115	5	20
Benzo[a]pyrene	100	102		ug/L		102	41 - 117	2	25
Benzo[b]fluoranthene	100	106		ug/L		106	36 - 113	0	25
Benzo[g,h,i]perylene	100	112		ug/L		112	37 - 115	4	25
Benzo[k]fluoranthene	100	107		ug/L		107	42 - 122	4	20
Benzoic acid	100	85.4		ug/L		85	15 - 121	13	30
Benzyl alcohol	100	102		ug/L		102	39 - 106	2	20
Bis(2-chloroethoxy)methane	100	94.3		ug/L		94	47 - 104	1	20
Bis(2-chloroethyl)ether	100	94.2		ug/L		94	42 - 99	7	20
Bis(2-ethylhexyl) phthalate	100	114		ug/L		114	43 - 124	1	25
Butyl benzyl phthalate	100	112		ug/L		112	44 - 122	2	20
Chrysene	100	103		ug/L		103	42 - 118	3	20
Dibenz(a,h)anthracene	100	54.1		ug/L		54	40 - 114	0	25
Dibenzofuran	100	81.4		ug/L		81	37 - 113	5	20
Diethyl phthalate	100	119		ug/L		119	51 - 120	3	30
Dimethyl phthalate	100	106		ug/L		106	49 - 113	1	30
Di-n-butyl phthalate	100	101		ug/L		101	47 - 125	2	20
Di-n-octyl phthalate	100	121		ug/L		121	42 - 125	4	20
Fluoranthene	100	102		ug/L		102	44 - 119	6	20
Fluorene	100	103		ug/L		103	39 - 116	0	20
Hexachlorobenzene	100	101		ug/L		101	43 - 112	0	20
Hexachlorobutadiene	100	64.6		ug/L		65	14 - 77	1	25
Hexachlorocyclopentadiene	100	58.2		ug/L		58	10 - 77	8	30
Hexachloroethane	100	76.8	*	ug/L		77	13 - 75	8	25
Indeno[1,2,3-cd]pyrene	100	94.8		ug/L		95	35 - 116	2	25
Isophorone	100	102		ug/L		102	48 - 107	2	20
Naphthalene	100	80.5		ug/L		81	33 - 95	0	20

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

Lab Sample ID: LCSD 440-165872/3-A
Matrix: Water
Analysis Batch: 166242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 165872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrobenzene	100	89.6		ug/L		90	42 - 99	2	25
N-Nitrosodi-n-propylamine	100	110		ug/L		110	44 - 111	7	20
N-Nitrosodiphenylamine	100	87.2		ug/L		87	46 - 116	13	20
Pentachlorophenol	100	114		ug/L		114	26 - 136	0	25
Phenanthrene	100	100		ug/L		100	43 - 120	1	20
Phenol	100	95.4		ug/L		95	25 - 99	17	25
Pyrene	100	112		ug/L		112	43 - 119	0	25
bis (2-chloroisopropyl) ether	100	103		ug/L		103	38 - 104	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-3luorobiFhenpl	*85*		*: 0 - 120*
2-3luoroFhenol (Surr)	*95*		*50 - 120*
2y4y9-TribromoFhenol (Surr)	*P5*		*40 - 120*
, itrobenzene-d: (Surr)	*82*		*4: - 120*
TerFhenpl-d14 (Surr)	*95*		*10 - 1: 0*
Nhenol-d9 (Surr)	*69*		*5: - 120*

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

Lab Sample ID: MB 440-165849/4
Matrix: Water
Analysis Batch: 165849

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	25	ug/L			02/28/14 19:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*P6*		*9: - 140*		*02/28/14 1P711*	*1*

Lab Sample ID: LCS 440-165849/3
Matrix: Water
Analysis Batch: 165849

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	779		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*10P*		*9: - 140*

Lab Sample ID: 440-71480-1 MS
Matrix: Water
Analysis Batch: 165849

Client Sample ID: MT-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	33	J	800	618		ug/L		73	65 - 140

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

Lab Sample ID: 440-71480-1 MS
Matrix: Water
Analysis Batch: 165849

Client Sample ID: MT-01
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		9: - 140

Lab Sample ID: 440-71480-1 MSD
Matrix: Water
Analysis Batch: 165849

Client Sample ID: MT-01
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)	33	J	800	626		ug/L		74	65 - 140	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		9: - 140

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

Lab Sample ID: MB 440-166089/1-A
Matrix: Water
Analysis Batch: 166166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166089

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		0.50	0.10	mg/L		03/03/14 08:52	03/03/14 12:02	1
C23-C40	ND		0.50	0.10	mg/L		03/03/14 08:52	03/03/14 12:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	62		4: - 120	05/05/14 087 2	05/05/14 12:02	1

Lab Sample ID: LCS 440-166089/2-A
Matrix: Water
Analysis Batch: 166166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 166089

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			1.00	0.853		mg/L		85	40 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	66		4: - 120

Lab Sample ID: LCSD 440-166089/3-A
Matrix: Water
Analysis Batch: 166166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 166089

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			1.00	0.785		mg/L		79	40 - 115	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane	60		4: - 120

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-166085/1-A
Matrix: Water
Analysis Batch: 166126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
4,4'-DDE	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
4,4'-DDT	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Aldrin	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
alpha-BHC	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
beta-BHC	ND		0.10	0.030	ug/L		03/03/14 08:49	03/03/14 13:56	1
Chlordane (technical)	ND		1.0	0.20	ug/L		03/03/14 08:49	03/03/14 13:56	1
delta-BHC	ND		0.20	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Dieldrin	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Endosulfan I	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Endosulfan II	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Endosulfan sulfate	ND		0.20	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Endrin	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Endrin aldehyde	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Endrin ketone	ND		0.10	0.040	ug/L		03/03/14 08:49	03/03/14 13:56	1
gamma-BHC (Lindane)	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Heptachlor	ND		0.10	0.030	ug/L		03/03/14 08:49	03/03/14 13:56	1
Heptachlor epoxide	ND		0.10	0.030	ug/L		03/03/14 08:49	03/03/14 13:56	1
Methoxychlor	ND		0.10	0.020	ug/L		03/03/14 08:49	03/03/14 13:56	1
Toxaphene	ND		5.0	0.50	ug/L		03/03/14 08:49	03/03/14 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*5: - 11:*	*05/05/14 0874P*	*05/05/14 157 9*	*1*
DCB DecachlorobiFhenpl (Surr)	*P5*		*4: - 120*	*05/05/14 0874P*	*05/05/14 157 9*	*1*

Lab Sample ID: LCS 440-166085/2-A
Matrix: Water
Analysis Batch: 166126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 166085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.250	0.179		ug/L		72	55 - 120
4,4'-DDE	0.250	0.167		ug/L		67	50 - 120
4,4'-DDT	0.250	0.177		ug/L		71	55 - 120
Aldrin	0.250	0.158		ug/L		63	40 - 115
alpha-BHC	0.250	0.165		ug/L		66	45 - 115
beta-BHC	0.250	0.168		ug/L		67	55 - 115
delta-BHC	0.250	0.183	J	ug/L		73	55 - 115
Dieldrin	0.250	0.170		ug/L		68	55 - 115
Endosulfan I	0.250	0.168		ug/L		67	55 - 115
Endosulfan II	0.250	0.173		ug/L		69	55 - 120
Endosulfan sulfate	0.250	0.194	J	ug/L		77	60 - 120
Endrin	0.250	0.184		ug/L		74	55 - 115
Endrin aldehyde	0.250	0.185		ug/L		74	50 - 120
Endrin ketone	0.250	0.189		ug/L		76	55 - 120
gamma-BHC (Lindane)	0.250	0.162		ug/L		65	45 - 115
Heptachlor	0.250	0.177		ug/L		71	45 - 115
Heptachlor epoxide	0.250	0.168		ug/L		67	55 - 115
Methoxychlor	0.250	0.181		ug/L		73	60 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-166085/2-A
Matrix: Water
Analysis Batch: 166126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 166085

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xplene	81		5: - 11:
DCB DecachlorobiFhenpl (Surr)	104		4: - 120

Lab Sample ID: LCSD 440-166085/3-A
Matrix: Water
Analysis Batch: 166126

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 166085

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.250	0.179		ug/L		72	55 - 120	0	30
4,4'-DDE	0.250	0.168		ug/L		67	50 - 120	1	30
4,4'-DDT	0.250	0.181		ug/L		72	55 - 120	2	30
Aldrin	0.250	0.160		ug/L		64	40 - 115	1	30
alpha-BHC	0.250	0.167		ug/L		67	45 - 115	1	30
beta-BHC	0.250	0.170		ug/L		68	55 - 115	1	30
delta-BHC	0.250	0.186	J	ug/L		74	55 - 115	1	30
Dieldrin	0.250	0.173		ug/L		69	55 - 115	2	30
Endosulfan I	0.250	0.170		ug/L		68	55 - 115	1	30
Endosulfan II	0.250	0.177		ug/L		71	55 - 120	2	30
Endosulfan sulfate	0.250	0.197	J	ug/L		79	60 - 120	2	30
Endrin	0.250	0.186		ug/L		75	55 - 115	1	30
Endrin aldehyde	0.250	0.190		ug/L		76	50 - 120	2	30
Endrin ketone	0.250	0.192		ug/L		77	55 - 120	2	30
gamma-BHC (Lindane)	0.250	0.163		ug/L		65	45 - 115	1	30
Heptachlor	0.250	0.179		ug/L		72	45 - 115	1	30
Heptachlor epoxide	0.250	0.170		ug/L		68	55 - 115	1	30
Methoxychlor	0.250	0.180		ug/L		72	60 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xplene	82		5: - 11:
DCB DecachlorobiFhenpl (Surr)	102		4: - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-166085/1-A
Matrix: Water
Analysis Batch: 166115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.25	ug/L		03/03/14 08:49	03/03/14 14:02	1
Aroclor 1221	ND		1.0	0.25	ug/L		03/03/14 08:49	03/03/14 14:02	1
Aroclor 1232	ND		1.0	0.25	ug/L		03/03/14 08:49	03/03/14 14:02	1
Aroclor 1242	ND		1.0	0.25	ug/L		03/03/14 08:49	03/03/14 14:02	1
Aroclor 1248	ND		1.0	0.25	ug/L		03/03/14 08:49	03/03/14 14:02	1
Aroclor 1254	ND		1.0	0.25	ug/L		03/03/14 08:49	03/03/14 14:02	1
Aroclor 1260	ND		1.0	0.25	ug/L		03/03/14 08:49	03/03/14 14:02	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-166085/1-A
Matrix: Water
Analysis Batch: 166115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166085

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB DecachlorobiFhenpl (Surr)	P4		4: - 120	05/05/14 08:14	P 05/05/14 14:02	1

Lab Sample ID: LCS 440-166085/4-A
Matrix: Water
Analysis Batch: 166115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 166085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	2.00	1.47		ug/L		73	50 - 115
Aroclor 1260	2.00	1.62		ug/L		81	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB DecachlorobiFhenpl (Surr)	P8		4: - 120

Lab Sample ID: LCSD 440-166085/5-A
Matrix: Water
Analysis Batch: 166115

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 166085

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	2.00	1.55		ug/L		78	50 - 115	6	30
Aroclor 1260	2.00	1.63		ug/L		82	60 - 120	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB DecachlorobiFhenpl (Surr)	P8		4: - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-165709/4
Matrix: Water
Analysis Batch: 165709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.25	mg/L			02/28/14 12:26	1

Lab Sample ID: LCS 440-165709/2
Matrix: Water
Analysis Batch: 165709

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.84		mg/L		97	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 440-165875/1-A
Matrix: Water
Analysis Batch: 166136

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 165875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0020	0.00090	mg/L		02/28/14 20:37	03/03/14 10:20	1
Cadmium	ND		0.0050	0.0020	mg/L		02/28/14 20:37	03/03/14 10:20	1
Copper	0.00306	J	0.010	0.0030	mg/L		02/28/14 20:37	03/03/14 10:20	1
Lead	ND		0.0050	0.0040	mg/L		02/28/14 20:37	03/03/14 10:20	1
Nickel	ND		0.010	0.0020	mg/L		02/28/14 20:37	03/03/14 10:20	1
Selenium	ND		0.010	0.0092	mg/L		02/28/14 20:37	03/03/14 10:20	1
Thallium	ND		0.010	0.0080	mg/L		02/28/14 20:37	03/03/14 10:20	1
Zinc	ND		0.020	0.0090	mg/L		02/28/14 20:37	03/03/14 10:20	1

Lab Sample ID: MB 440-165875/1-A
Matrix: Water
Analysis Batch: 166152

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 165875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0070	mg/L		02/28/14 20:37	03/03/14 11:44	1
Arsenic	ND		0.010	0.0070	mg/L		02/28/14 20:37	03/03/14 11:44	1
Chromium	ND		0.0050	0.0020	mg/L		02/28/14 20:37	03/03/14 11:44	1

Lab Sample ID: LCS 440-165875/2-A
Matrix: Water
Analysis Batch: 166136

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 165875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.500	0.504		mg/L		101	85 - 115
Cadmium	0.500	0.481		mg/L		96	85 - 115
Copper	0.500	0.541		mg/L		108	85 - 115
Lead	0.500	0.473		mg/L		95	85 - 115
Nickel	0.500	0.498		mg/L		100	85 - 115
Selenium	0.500	0.475		mg/L		95	85 - 115
Thallium	0.500	0.474		mg/L		95	85 - 115
Zinc	0.500	0.502		mg/L		100	85 - 115

Lab Sample ID: LCS 440-165875/2-A
Matrix: Water
Analysis Batch: 166152

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 165875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.520		mg/L		104	85 - 115
Arsenic	0.500	0.502		mg/L		100	85 - 115
Chromium	0.500	0.500		mg/L		100	85 - 115

Lab Sample ID: 440-71475-A-5-B MS
Matrix: Water
Analysis Batch: 166136

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 165875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	ND		0.500	0.497		mg/L		99	70 - 130
Cadmium	ND		0.500	0.455		mg/L		91	70 - 130
Copper	0.025	B	0.500	0.581		mg/L		111	70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 440-71475-A-5-B MS
Matrix: Water
Analysis Batch: 166136

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 165875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		0.500	0.459		mg/L		92	70 - 130
Nickel	0.0098	J	0.500	0.485		mg/L		95	70 - 130
Selenium	0.33		0.500	0.785		mg/L		92	70 - 130
Thallium	ND		0.500	0.445		mg/L		89	70 - 130
Zinc	0.058		0.500	0.546		mg/L		98	70 - 130

Lab Sample ID: 440-71475-A-5-B MS
Matrix: Water
Analysis Batch: 166152

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 165875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.500	0.523		mg/L		105	70 - 130
Arsenic	ND		0.500	0.528		mg/L		106	70 - 130
Chromium	0.0020	J	0.500	0.509		mg/L		101	70 - 130

Lab Sample ID: 440-71475-A-5-C MSD
Matrix: Water
Analysis Batch: 166136

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 165875

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		0.500	0.500		mg/L		100	70 - 130	1	20
Cadmium	ND		0.500	0.460		mg/L		92	70 - 130	1	20
Copper	0.025	B	0.500	0.589		mg/L		113	70 - 130	1	20
Lead	ND		0.500	0.466		mg/L		93	70 - 130	2	20
Nickel	0.0098	J	0.500	0.490		mg/L		96	70 - 130	1	20
Selenium	0.33		0.500	0.793		mg/L		94	70 - 130	1	20
Thallium	ND		0.500	0.448		mg/L		90	70 - 130	1	20
Zinc	0.058		0.500	0.555		mg/L		99	70 - 130	2	20

Lab Sample ID: 440-71475-A-5-C MSD
Matrix: Water
Analysis Batch: 166152

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 165875

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.500	0.517		mg/L		103	70 - 130	1	20
Arsenic	ND		0.500	0.535		mg/L		107	70 - 130	1	20
Chromium	0.0020	J	0.500	0.517		mg/L		103	70 - 130	2	20

Lab Sample ID: MB 440-166289/1-A
Matrix: Water
Analysis Batch: 166459

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 166289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.010	0.0060	mg/L		03/03/14 20:31	03/04/14 10:22	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-166289/2-A
Matrix: Water
Analysis Batch: 166459

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 166289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.250	0.241		mg/L		96	85 - 115

Lab Sample ID: 440-71708-A-1-B MS
Matrix: Water
Analysis Batch: 166459

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 166289

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		0.250	0.269		mg/L		108	70 - 130

Lab Sample ID: 440-71708-A-1-C MSD
Matrix: Water
Analysis Batch: 166459

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 166289

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		0.250	0.270		mg/L		108	70 - 130	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 440-166064/1-A
Matrix: Water
Analysis Batch: 166217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166064

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		03/03/14 07:30	03/03/14 14:53	1

Lab Sample ID: LCS 440-166064/2-A
Matrix: Water
Analysis Batch: 166217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 166064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00800	0.00767		mg/L		96	85 - 115

Lab Sample ID: 440-70834-W-1-D MS
Matrix: Water
Analysis Batch: 166217

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 166064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00800	0.00734		mg/L		92	70 - 130

Lab Sample ID: 440-70834-W-1-E MSD
Matrix: Water
Analysis Batch: 166217

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 166064

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00728		mg/L		91	70 - 130	1	20

QC Sample Results

Client: Valero Refining Co
Project/Site: Stormwater Marine Terminal Berth 164

TestAmerica Job ID: 440-71480-1

Method: 1664A - Oil and Grease

Lab Sample ID: MB 440-166070/1-A
Matrix: Water
Analysis Batch: 166075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 166070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L		03/03/14 07:55	03/03/14 08:14	1

Lab Sample ID: LCS 440-166070/2-A
Matrix: Water
Analysis Batch: 166075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 166070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	20.0	19.9		mg/L		99	78 - 114

Lab Sample ID: LCSD 440-166070/3-A
Matrix: Water
Analysis Batch: 166075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 166070

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	20.0	20.8		mg/L		104	78 - 114	4	11

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-318283/1-A
Matrix: Water
Analysis Batch: 318559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318283

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.050	0.025	mg/L		03/05/14 10:00	03/05/14 16:20	1

Lab Sample ID: LCS 680-318283/2-A
Matrix: Water
Analysis Batch: 318559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0983		mg/L		98	75 - 125

Lab Sample ID: 440-71361-N-1-B MS
Matrix: Water
Analysis Batch: 318559

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 318283

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	ND		0.100	0.105		mg/L		105	75 - 125

Lab Sample ID: 440-71710-J-1-C MSD
Matrix: Water
Analysis Batch: 318559

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 318283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenolics, Total Recoverable	ND		0.100	0.102		mg/L		102	75 - 125	2	30

Method: SM 2130B - Turbidity

Lab Sample ID: MB 440-165836/5
Matrix: Water
Analysis Batch: 165836

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		0.10	0.040	NTU			02/28/14 17:34	1

Lab Sample ID: 440-71480-1 DU
Matrix: Water
Analysis Batch: 165836

Client Sample ID: MT-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Turbidity	20		19.4		NTU		0.4	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 440-165833/3
Matrix: Water
Analysis Batch: 165833

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			02/28/14 17:25	1

Lab Sample ID: LCS 440-165833/4
Matrix: Water
Analysis Batch: 165833

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	871	941		umhos/cm		108	90 - 110

Lab Sample ID: 440-71480-1 DU
Matrix: Water
Analysis Batch: 165833

Client Sample ID: MT-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	78		78.4		umhos/cm		0.8	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 440-165847/2
Matrix: Water
Analysis Batch: 165847

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	0.50	mg/L			02/28/14 18:12	1

Lab Sample ID: LCS 440-165847/1
Matrix: Water
Analysis Batch: 165847

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	1000	1020		mg/L		102	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 440-71497-B-2 DU
Matrix: Water
Analysis Batch: 165847

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	45		47.3		mg/L		4	10

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 440-165968/1
Matrix: Water
Analysis Batch: 165968

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	ND		0.10	0.10	mg/L			03/01/14 16:00	1

Lab Sample ID: 440-71530-M-1 DU
Matrix: Water
Analysis Batch: 165968

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chlorine, Total Residual	ND	HF	ND	HF	mg/L		NC	20

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 440-165881/1-A
Matrix: Water
Analysis Batch: 165907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.025	0.017	mg/L		02/28/14 20:51	03/01/14 01:35	1

Lab Sample ID: LCS 440-165881/2-A
Matrix: Water
Analysis Batch: 165907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.194		mg/L		97	90 - 110

Lab Sample ID: MRL 440-165881/3-A
Matrix: Water
Analysis Batch: 165907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165881

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0250	0.0220	J	mg/L		88	10 - 200

Lab Sample ID: 440-70983-AA-1-B MS
Matrix: Water
Analysis Batch: 165907

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 165881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.200	0.179		mg/L		89	70 - 115

Method: SM 4500 CN E - Cyanide, Total (Continued)

Lab Sample ID: 440-70983-AA-1-C MSD
Matrix: Water
Analysis Batch: 165907

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 165881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		0.200	0.186		mg/L		93	70 - 115	4	15

Method: SM 4500 H+ B - pH

Lab Sample ID: 440-71331-A-1 DU
Matrix: Water
Analysis Batch: 165828

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.54		7.630		SU		1	2

Method: SM 4500 NH3 C - Ammonia

Lab Sample ID: MB 440-165845/2-A
Matrix: Water
Analysis Batch: 165851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.50	0.28	mg/L		02/28/14 18:10	02/28/14 18:31	1

Lab Sample ID: LCS 440-165845/1-A
Matrix: Water
Analysis Batch: 165851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	10.0	9.52		mg/L		95	85 - 115

Lab Sample ID: 440-71480-1 MS
Matrix: Water
Analysis Batch: 165851

Client Sample ID: MT-01
Prep Type: Total/NA
Prep Batch: 165845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.28	J	10.0	10.1		mg/L		98	70 - 120

Lab Sample ID: 440-71480-1 MSD
Matrix: Water
Analysis Batch: 165851

Client Sample ID: MT-01
Prep Type: Total/NA
Prep Batch: 165845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.28	J	10.0	9.80		mg/L		95	70 - 120	3	15

Method: SM 4500 O G - Oxygen, Dissolved

Lab Sample ID: 440-71406-E-16 DU
Matrix: Water
Analysis Batch: 165969

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Oxygen, Dissolved	2.6	HF	2.61	HF	mg/L		0.8	20

Method: SM 5220D - COD

Lab Sample ID: MB 440-165895/3
Matrix: Water
Analysis Batch: 165895

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			02/28/14 18:14	1

Lab Sample ID: LCS 440-165895/4
Matrix: Water
Analysis Batch: 165895

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	198		mg/L		99	90 - 110

Lab Sample ID: 440-71144-L-1 MS
Matrix: Water
Analysis Batch: 165895

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
Chemical Oxygen Demand	12	J	200	214		mg/L		101	70 - 120

Lab Sample ID: 440-71144-L-1 MSD
Matrix: Water
Analysis Batch: 165895

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
Chemical Oxygen Demand	12	J	200	212		mg/L		100	70 - 120	1	15

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 440-166679/6
Matrix: Water
Analysis Batch: 166679

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.65	mg/L			03/04/14 12:58	1

Lab Sample ID: LCS 440-166679/5
Matrix: Water
Analysis Batch: 166679

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.3		mg/L		103	90 - 110