3R - 087

ANNUAL MONITORING REPORT

03/08/2005



GROUNDWATER MONITORING REPORT

FARMINGTON, NEW MEXICO

Prepared for:



600 North Dairy Ashford Houston, TX 77079

Prepared by:



10601 Lomas NE, Suite 106 Albuquerque, NM 87112 Maxim Project No. 5690070.100

March 8, 2005



TABLE OF CONTENTS

1.0	INT	RODUCTION	1
		THODOLOGY AND RESULTS	
	2.1	Groundwater Monitoring Methodology	1
		Groundwater Sampling Analytical Results	

FIGURES

- 1. Site Location Map
- 2. Site Layout Map with Approximate Location of Soil Excavation Area
- 3. Groundwater Elevation Contour Map

TABLES

- 1. Groundwater Elevations
- 2. Groundwater Laboratory Analytical Data

APPENDICES

Appendix A. Release Notification and Corrective Action Form

Appendix B. Boring Logs and Monitor Well Completion Diagrams

Appendix C. Laboratory Analytical Report

GROUNDWATER MONITORING REPORT FEDERAL #15, FARMINGTON, NEW MEXICO

1.0 INTRODUCTION

This report presents the results of groundwater monitoring completed on January 17 and 18, 2005, at the ConocoPhillips Federal #15 Site in Farmington, New Mexico, by Maxim Technologies (Maxim).

The site is located on the North side of Gila Street. The closest cross street is Main Street, located approximately 0.5 mile to the west of the site. The site consists of gas production well and associated equipment and installations. The location and general features of the Federal #15 site are shown on Figures 1 and 2, respectively.

On Saturday, October 23, 2004 a release was discovered at the site. It was estimated that up to 50 BBL of condensate was unaccounted for. The Release Notification and Corrective Action form is attached in Appendix A. Approximately 1,550 cubic yards of affected soil was excavated during the week of October 25, 2004. Figure 2 illustrates the approximate location of the excavated area. Four, 2-inch PVC groundwater monitoring wells were installed on November 16 and 17, 2004 by Biosphere Environmental Sciences and Technologies, LLC to depths of approximately 20 feet below ground surface (bgs). Groundwater was encountered between 12 and 15 feet bgs. Boring logs and well completion diagrams are included as Appendix B.

On January 17 and 18, 2005 Maxim was onsite to conduct the groundwater sampling event. The four monitoring wells were developed and sampled. Top of monitor well casing elevations were recorded by NCE Surveys of Farmington, New Mexico on February 4, 2005.

2.0 METHODOLOGY AND RESULTS

The following describes the groundwater monitoring methodology and results:

2.1 Groundwater Monitoring Methodology

On January 17, 2005 monitor wells MW-1, MW-2, MW-3, and MW-4 were purged until water was clear of visible sediment. Approximately 20 gallons of water was removed from each well. The purged water was disposed of in the waste water sump located on site (Figure 2).

On January 18, 2005 monitor wells MW-1, MW-2, MW-3, and MW-4 were purged of at least three casing volumes of water. A 1.5-inch dedicated, clear, poly-vinyl, disposable bailer was used in each well to collect groundwater samples. The samples were placed in laboratory prepared bottles, packed on ice, and shipped with chain of custody documentation to Severn Trent Laboratories located in Denver, Colorado. The samples were analyzed for presence of benzene, toluene, ethyl-benzene, and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270C, and chloride by EPA Method 300.0A.

Maxim Technologies, Inc.®



2.2 Groundwater Sampling Analytical Results

The samples collected from monitor wells MW-2 and MW-3 contained concentrations of benzene above the New Mexico Water Quality Control Commission (NMWQCC) standard of 10 μ g/L, at 1,200 micrograms per liter (μ /L) and 190 μ g/L, respectively. The sample collected from MW-4 contained benzene below the NMWQCC standard at 2.8 μ g/L. The sample collected from MW-1 did not contain detectable benzene.

The sample collected from MW-2 contained concentrations of toluene and xylenes of 3,300 μ g/L and 3,500 μ g/L, respectively. The NMWQCC standards for toluene and xylenes are 750 μ g/L and 620 μ g/L, respectively. All other samples were non-detect for toluene and xylenes.

The sample collected from MW-2 contained a concentration of ethyl-benzene at 380 μ g/L, below the NMWQCC standard of 750 μ g/L. All other samples were non-detect for ethyl-benzene.

The sample collected from MW-2 contained a total naphthalenes concentration of 157 μ g/L. The NMWQCC standard for total naphthalenes is 30 μ g/L. All other samples were non-detect for total naphthalenes.

All samples contained chloride concentrations below the NWMQCC standard of 250 mg/L (milligrams per liter). Chloride concentrations ranged from 34 mg/L in MW-1 to 85 mg/L in MW-1.

Table 2 presents the laboratory analytical results. The laboratory analytical report is included as Appendix C.

Maxim Technologies March 8, 2005 2

APPENDIX A RELEASE NOTIFICATION AND CORRECTIVE ACTION FORM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fc, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OI				PERATOR		Initial Rep	ort Final Report		
Name of Co		ConocoPhi			Contact	Monica	D. Olson		
Address	55	25 Hwy. 64	, Farming	ton, NM 87401	Telephone No	505-599	505-599-3458		
Facility Nar	ne Fe e	deral #15			Facility Type	Produci	Producing Gas Well API # 30-045		
Surface Ow	ner Pr	ivate		Mineral Owne	r Federa	l	Lease No	o. NM-73982	
	· -				ON OF RELI	,			
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
Α	1	T29N	R13W	1040'	North	360'	East	San Juan	
		Lati	tude	36.75963	Longitude	108.14885			
				NATUR	E OF RELEA	ASE			
Type of Rele						ase - ~ 15 BBL		covered - none	
Source of Re	lease: Lea	king 300 B	BL conde	nsate tank	Date and Hour 10/23/04 - 1			our of Discovery — 12:00 p.m.	
Was Immedia	ite Notice (If YES, To Who				
		⊠ Y	res ∐ No	☐ Not Required	Denny Fous	st – OCD – 10/	25/04 via emai	II	
By Whom?		Monica O	Ison		Date and Hour -	- 10/25/04 - 3:	:45 p.m.		
Was a Water	course Read	ched?				e Impacting the W			
			Yes 🛛 N	No.					
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.*						
Describe Cau	se of Probl	em and Reme	dial Action T	'aken.* A Conoc	oPhillips lease	operator rec	elved a call from	om passers-by on	
Saturday,	October	23rd of a sp	oill on the	Federal #15, lo	cated off of Gi	ila Street near	Halliburton/W	/algreens in	
								which the 300 BBL	
								ner investigation into	
the tank g	auge rea	dings, the	e could b	e up to 50 BBL	of condensate	unaccounte	d for.		
Upon site	investia	ation on Mi	onday. Oc	tober 25 th , han	diagina with	a shovel sho	wed an affecte	ed area of 21' x 21' x 3'	
								and remediation will	
begin on \	Vednesd	ay, Octobe	er 27 th . If r	necessary, the	spill volume w	ill be change	d to reflect the	actual amount spilled	
based on									
								been shut in. Soil	
					o the Envirote	ch landfarm f	or remediation	n. Remediation	
activities a	re plann	ed for Wed	dnesday, (October 27 th .	. (1 1		1 1 414	ant to NMOCD rules and	
								ses which may endanger	
public health	or the envi	ronment. The	acceptance of	of a C-141 report by	the NMOCD mark	ked as "Final Rep	ort" does not reliev	ve the operator of liability	
should their o	perations h	ave failed to a	dequately in	vestigate and remed	iate contamination	that pose a threat	t to ground water,	surface water, human health	
				nce of a C-141 repor	t does not relieve t	the operator of res	sponsibility for cor	npliance with any other	
federal, state,	or tocal lav	ws and/or regu	nations.		1	OIL CONTO	TOTATIONE	NUTCION	
						OIL CONS!	ERVATION I	VIOTOIN	
	Mari	M (1) (1	7.00		1				
Signature:	Signature: Approved by District Supervisor:								
Printed Name	: М	onica D. O	Ison						
Title: Sa	afety, Heali	th, Environme	ental, & Regi	ulatory Technician	Approval Date:		Expiration D	ate:	
E-mail Addre					Conditions of A	approval:			
								Attached	
	0/25/04			05-599-3458	1				
Attach Addit	ional Shee	ets If Necess	arv						

APPENDIX B
BORING LOGS

FAX NO. 15055863

BELOW GRADE WELL COMPLETION DIAGRAM / LITHOLOGY LOG MAW 1	
FLUSH MOUNT	
CONGRETE - WELL COVER	
PREET THE SAMPLE DESCRIPTION	- 47th
DEED SAMPLE DESCRIPTION	- O. E. D.
clay/sand, tan	
310 ss 0 Some sand, fine-medium, tan-brown, dry	5
BENEAT GROUT	
2 MOI PE DUM STANDER SON OF COMMENT OF COMME	
szo ss 0 clay/sand, fine-medium, tan-brown, cobble	10
1 Tor Bout	
3 TOP SAND	_
5 TOP SCREEN	-
2 tel re-scale Clay/cobbles, brown, moist Clay/cobbles brown, moist Clay/cobbles clay/	15
2 Not the RESULT Water (evel	
957 bottom of cobbles	
2 bert me sold Sold to find an inches and in	20
1000 1000	
Well Materials Used:	
9 Sk8 10-12 Silico Sand	
Ske Class "A" Cement Ske Quickcrate	
_5 Ft Blank Casing _15 Ft Screen	
Well Development:	
Bailed	
Pumped Gallont of Water	
Remarks: GW estimated at 15'	
SW ESHIRKUST DE 13	
DRILLER: KELLY PADILLA BIT SIZE: 7 7/8 LOCATION: Fed Comp 15 Unit A	
HELPER: Farrell Chee/Jerold Joe TOTAL BORING DEPTH: 20' ELEVATION:	
DRILLING COMPANY: ENVIROTECH DATE STARTED: 11/17/04 DATE COMPLETED 11/17/04 DRILLING METHOD: HSA SAMPLER TYPE: SS GEOLOGIST: Jack Collins	
Conoco Phillips Fed Comp 15 Unit A Farmington, New Mexico Formal Service Serv	
REVISIONS BY DATE Project No. 96052-189 ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 FARMINGTON, NEW MEXICO 87401 (505) 632-0615 SCALE NONE APPROVED CJC	PAGE 1
BY DATE PROJECT NO. SELECTION FARMINGTON, WEST MACROSCOPE SCALE NONE APPROVED CJC	OF 1

В	ELOW GRADE WELL COMPLETION	
LOCKING CAP— FLUSH MOUNT C-TRAFFIC RATED	DIAGRAM / LITHOLOGY: LOG MW-2	
CONCRETE'- WELL COVER	,,¢	
CEET THE SAN	REE PERSON THOUGH SAMPLE DESCRIPTION	of the
	\$\frac{1}{2}\frac{1}{2	
CENENT	27. (10-20) 27. (10-20) 27. (10-20)	7
COMENT 1345 S:	1 0 19:59	5
2 em pa filish ser, heisen	1	
		10
135B St	cobbles at 11.0'	
3 TOP SAND	water level	
5 TOP SORKEN ————————————————————————————————————	s 294 broken cobble, wet, hydrocarbon odor	15
2_ inclinate auto		
	bottom of cobbles at 17.5'	
	s 0 ्रिक्रिं clayey sand, gray, medium, slight odor, wet	20
Well Materials Used:	TD = 20'	
9 Sks 10-12 Silica Sand 1 Sks Bentonite Chips		
Sks Clase "A" Cament 2 Ske Ouickcrote 5 Ft Blank Caeing		
15 Ft Screen		-
Well Development:		}
Purmed Gallons of Water		
Remarks:		7
The first state of the state of		
	T SIZE: 7 7/8 LOCATION: Fed Comp 15 Unit A DTAL BORING DEPTH: 20' ELEVATION:	
DRILLING COMPANY: ENVIROTECH DA	ATE STARTED: 11/17/04 DATE COMPLETED 11/17/04	
DRILLING METHOD: HSA SA	AMPLER, TYPE: SS GEOLOGIST: Jock Collins	
Conoco Phillips Fed Comp 15 Unit A Farmington, New Mexico	ENVIROTECHING. MW-2	
REVISIONS BY DATE Project No. 96052-18 DATE	AG EXPUNICION NEW MEVICO 97404	AGE 1 OF 1

		ELOW GRADE WELL COMPLETION DIAGRAM / LITHOLOGY LOG MANN_3	
LOCKING CAP— FLUSH TRAFFIC WELL C	MOUNT RATED OVER	10100 3	
OF SEET	THE SAMPLE	ALE RESERVE LITHOLOGY SAMPLE DESCRIPTION	de Esta
CCMPNT			
CEMONT BROUT	1015	hydro vac to 4', cobbles	5
2. New feet Number of State No. 1980 No		0 sand, brown, medium, cobbles broken, no odor, wet	10
TOP SENT.	103E ee	water level	
5 TOP SCREEN 22 STATE OF SCREEN AND STATE OF SCREEN AND STATE OF SCREEN AND STATE OF SCREEN AND SCR	es	0 sand, fine-medium, light brown, no odor, wet	15
20 STK SCRIEN		bottom of cobbles at 17.5'	
_20_TOTAL DEPTH	1110 \$8	0 िश्री sand, light brown, fine-medium, wet, no odor	20
Well Materials Used: S Ske 10-12 Silica Sand Ske Bentonite Chips		TD = 20'	
Ske Clase "A" Cement 2 Ske Quickerala 5 Ft Blank Casing 15 Ft Screen			
Well Development:			-
Collons of Water Remarks:			
Ma			
9 man			_
DRILLER: KELLY PADILLA HELPER: Fattell Chee/Jerold Joe DRILLING COMPANY: ENVIROTECE DRILLING METHOD: HSA	TOT/ DATE	SIZE: 7 7/8 LOCATION: Fed Comp 15 Unit A TAL BORING DEPTH: 20' TE STARTED: 11/22/04 MPLER TYPE: \$\$ GEOLOGIST: Tami Ross	
Conoco Phillips Fed Comp 15 Unit A Farmington, New Mexico		ENVIROTECH INC. MW-3	
REVISIONS BY DATE Project No. BY DATE	96052-189		AGE 1 DF 1

BELOW GRADE WELL COMPLETION DIAGRAM / LITHOLOGY LOG MW-4FLUSH MOUNT LOCKING CAP TRAFFIC RATED CONCRETE SAMPLE DESCRIPTION hydro vac to 4', clay, brown, no odor 5 clayey sand, brown, fine, no odor 1300 Cobbles at 5.5' 10 sand, medium, brown, wet, no odor, broken cobbles ø 88 TOP BENT. water level TOP SAND few broken cobbles TOP SCREEN 15 sand, medium-coarse, brown-gray, wet, no odor 1330 53 bottom of cobbles at 17' _20 HTM SCREEN sand, medium, gray, wet, no odor 20 1350 22 TOTAL DEPTH Well Materials Used: TD = 20'9 Skc 10-12 Silico Sond 1 Ska Bentonite Chipa 9ka Class "A" Coment 2 Ska Quickcrate 5 Ft Dlonk Casing 15 Ft Screen Well Development: Dailed Purriped _ Callans of Water Remarks: DRILLER: KELLY PADILLA BIT SIZE: 7 7/8 LOCATION: Fed Comp 15 Unit A TOTAL BORING DEPTH: 20' HELPER: Forrell Chee/Jerold Joe ELEVATION: __ DATE STARTED: 11/22/04 DATE COMPLETED 11/22/04 DRILLING COMPANY; ENVIROTECH GEOLOGIST: Tomi Ross DRILLING METHOD: HSA SAMPLER TYPE: SS ENVIROTECH INC Conoco Phillips MW-4 Fed Comp 15 Unit A AND THE PROPERTY OF THE PROPER Farmington, New Mexico ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 FARMINGTON, NEW MEXICO 87401 (505) 632-0615 Olucodegaleg REVISIONS DATE 11/23/04 DRAWN TCR PAGE 1 Project No. 96052-189 BY DATE OF 1 SCALE NONE APPROVED CJC BY DATE

APPENDIX C LABORATORY REPORT



STL Denver 4955 Yarrow Street Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171 www.stl-inc.com

ANALYTICAL REPORT

Federal Com #15 WO# 6845MAX001

Lot #: D5A190333

Mr. Clyde Yancey

Maxim Technologies 10601 Lomas NE Suite 106 Albuquerque, NM 87112

Severn Trent Laboratories

Donna Rydberg Project Manager

January 27, 2005

Table Of Contents

Standard Deliverables

Report Contents

Total Number of Pages

Standard Deliverables

The Cover Letter and the Report Cover page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.

- Table of Contents
- Case Narrative
- Executive Summary Detection Highlights
- Methods Summary
- Method/Analyst Summary
- Lot Sample Summary
- Analytical Results
- QC Data Association Summary
- Chain-of-Custody

Case Narrative D5A190333

The following report contains the analytical result for five samples and a Trip Blank submitted to STL Denver on January 19, 2005, according to documented sample acceptance procedures.

The results included in this report have been reviewed for compliance with STL's Quality Assurance/Quality Control (QA/QC) plan.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The test results shown in this report meet all requirements of NELAC. Any exceptions are noted below.

Supplemental OC Information

Sample Arrival and Receipt

The samples presented in this report were received at the laboratory at a temperature of 4.4°C. Sample containers were received in acceptable condition.

Method 8260B - GC/MS Volatiles

Samples D5A190333-003, -004 and -005 were analyzed at a dilution for Method 8260B to bring target compounds within the linear calibration range of the instrument. Reporting limits were raised accordingly.

No other anomalies were observed.

Method 8270C/PAH - GC/MS Semivolatiles

A MS/MSD were not requested and they could not be performed for Method 8270C due to insufficient sample volume. The associated LCS/LCSD and Method Blank were within control limits.

No other anomalies were observed.

Lot D5A190333 continued

General Chemistry – Method 300.0A Chloride

Sample D5A190333-001 was analyzed at a dilution due to high analyte concentrations. Reporting limits were raised accordingly.

The percent recoveries for chloride in the MS and MSD were estimated due to concentrations exceeding the instrument calibration range.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D5A190333

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
MW-1 01/18/05 11:20 001					
Chloride	85 Q	15	mg/L	MCAWW 300.0A	
MW-4 01/18/05 12:15 002					
Benzene Chloride	2.8 37	1.0	ug/L mg/L	SW846 8260B MCAWW 300.0A	
MW-3 01/18/05 12:50 003					
Benzene Chloride	190 34	5.0 3.0	ug/L mg/L	SW846 8260B MCAWW 300.0A	
MW-2 01/18/05 13:30 004					
2-Methylnaphthalene 1-Methylnaphthalene Naphthalene Benzene Ethylbenzene Toluene Xylenes (total) Chloride	72 34 51 1200 380 3300 3500 41	10 10 10 67 67 67 130 3.0	ug/L ug/L ug/L ug/L ug/L ug/L mg/L	SW846 8270C SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B	
DUPLICATE 01/18/05 13:45 005					
Benzene Ethylbenzene Toluene Xylenes (total)	1300 410 3700 3800	67 67 67 130	ug/L ug/L ug/L ug/L	SW846 8260B SW846 8260B SW846 8260B SW846 8260B	

ANALYTICAL METHODS SUMMARY

D5A190333

PARAMET	ER	ANALYTICAL METHOD
Chlorid	e	MCAWW 300.0A
Semivol	atile Organic Compounds by GC/MS	SW846 8270C
Volatil	e Organics by GC/MS	SW846 8260B
Referen	ces:	
MCAWW	"Methods for Chemical Analysis of W EPA-600/4-79-020, March 1983 and su	•
SW846	"Test Methods for Evaluating Solid Methods", Third Edition, November 1	

METHOD / ANALYST SUMMARY

D5A190333

ANALYTICAL		ANALYST
METHOD	ANALYST	ID
MCAWW 300.0A	Andrita Scofield	004409
SW846 8260B	Dan Appelhans	001008
SW846 8260B	Joann Peterson	011674
SW846 8270C	Barbara Sullivan	001128
References:		
MCAWW "Methods for Chemic	al Analysis of Water and Wastes",	
	arch 1983 and subsequent revisions.	
	•	
SW846 "Test Methods for E	valuating Solid Waste, Physical/Chem:	ical
	tion, November 1986 and its updates.	

SAMPLE SUMMARY

D5A190333

WO # S	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G2WEN	001	MW-1	01/18/05	11:20
G2WE4	002	MW - 4	01/18/05	12:15
G2WE5	003	MW-3	01/18/05	12:50
G2WE6	004	MW-2	01/18/05	13:30
G2WE7	005	DUPLICATE	01/18/05	13:45
G2WE8	006	TRIP BLANK	01/18/05	13:55

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: MW-1

GC/MS Volatiles

Lot-Sample #: D5A190333-0	1 Work Order #: G2WEN1AA	Matrix: WATER
---------------------------	--------------------------	---------------

 Date Sampled...:
 01/18/05
 11:20
 Date Received...:
 01/19/05

 Prep Date.....:
 01/25/05
 Analysis Date...:
 01/25/05

 Prep Batch #...:
 5026272
 Analysis Time...:
 18:19

Dilution Factor: 1

Method.....: SW846 8260B

		REPORTIN	G
PARAMETER	RESULT	LIMIT	UNITS
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
	PERCENT	RECOVERY	
URROGATE	RECOVERY	LIMITS	
ibromofluoromethane	93	(73 - 11	8)
,2-Dichloroethane-d4	95	(62 - 12	8)
-Bromofluorobenzene	88	(78 - 11	8)
Toluene-d8	108	(77 - 11	7)

Client Sample ID: MW-1

GC/MS Semivolatiles

Lot-Sample #...: D5A190333-001 Work Order #...: G2WEN1AC Matrix..... WATER

Date Sampled...: 01/18/05 11:20 Date Received..: 01/19/05 **Prep Date....:** 01/19/05 Analysis Date..: 01/23/05 Prep Batch #...: 5019443 Analysis Time..: 16:55

Dilution Factor: 1

Method....: SW846 8270C

		REPORTIN	1G
PARAMETER	RESULT	LIMIT	UNITS
Acenaphthene	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
Anthracene	ND	10	ug/L
Benzo(a)anthracene	ND	10	ug/L
Benzo(b) fluoranthene	ND	10	ug/L
Benzo(k) fluoranthene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Chrysene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Fluorene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
1-Methylnaphthalene	ND	10	ug/L
Naphthalene	ND	10	ug/L
Phenanthrene	ND	10	ug/L
Pyrene	ND	10	ug/L
	PERCENT	RECOVERY	•
SURROGATE	RECOVERY	LIMITS	
2-Fluorophenol	78	(33 - 10	6)
Phenol-d5	82	(40 - 10	5)
Nitrobenzene-d5	79	(48 - 10	8)

SURROGATE	RECOVERY	LIMITS
2-Fluorophenol	78	(33 - 106)
Phenol-d5	82	(40 - 105)
Nitrobenzene-d5	79	(48 - 108)
2-Fluorobiphenyl	65	(39 - 93)
2,4,6-Tribromophenol	84	(31 - 122)
Terphenyl-d14	94	(20 - 123)

Client Sample ID: MW-1

General Chemistry

Lot-Sample #...: D5A190333-001

Work Order #...: G2WEN

Matrix....: WATER

Date Sampled...: 01/18/05 11:20 Date Received..: 01/19/05

PREPARATION-PREP

PARAMETER

RESULT

UNITS

METHOD

ANALYSIS DATE BATCH #

Chloride

85 Q

15 mg/L

MCAWW 300.0A

01/24-01/25/05 5025235

Dilution Factor: 5

Analysis Time..: 00:06

NOTE(S):

RL Reporting Limit

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

${\tt ConocoPhillips}$

Client Sample ID: MW-4

GC/MS Volatiles

Lot-Sample #:	D5A190333-002	Work Order	#: G2WE41AA	Matrix:	WATER
---------------	---------------	------------	-------------	---------	-------

 Date Sampled...:
 01/18/05
 12:15
 Date Received...:
 01/19/05

 Prep Date.....:
 01/25/05
 Analysis Date...:
 01/25/05

 Prep Batch #...:
 5026272
 Analysis Time...:
 18:44

Dilution Factor: 1

Toluene-d8

Method.....: SW846 8260B

(77 - 117)

		REPORTIN	īG
PARAMETER	RESULT	LIMIT	UNITS
Benzene	2.8	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND ·	2.0	ug/L
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Dibromofluoromethane	93	(73 - 11	.8)
1,2-Dichloroethane-d4	94	(62 - 12	(8)
4-Bromofluorobenzene	88	(78 - 1 1	.8)

103

Client Sample ID: MW-4

GC/MS Semivolatiles

Lot-Sample #...: D5A190333-002 Work Order #...: G2WE41AC Matrix..... WATER

 Date Sampled...:
 01/18/05
 12:15
 Date Received...:
 01/19/05

 Prep Date....:
 01/19/05
 Analysis Date...:
 01/23/05

 Prep Batch #...:
 5019443
 Analysis Time...:
 17:18

Dilution Factor: 1

Method....: SW846 8270C

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Acenaphthene	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
Anthracene	ND	10	ug/L
Benzo(a)anthracene	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Chrysene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	${\tt ug/L}$
Fluoranthene	ND	10	ug/L
Fluorene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
1-Methylnaphthalene	ND	10	ug/L
Naphthalene	ND	10	ug/L
Phenanthrene	ND	10	ug/L
Pyrene	ND	10	ug/L
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
2-Fluorophenol	73	(33 - 106)	
Phenol-d5	76	(40 - 105)	ı
Nitrobenzene-d5	73	(48 - 108)	•
2-Fluorobiphenyl	62	(39 - 93)	ı
2,4,6-Tribromophenol	73	(31 - 122)	ı
Terphenyl-d14	76	(20 - 123)	l

Client Sample ID: MW-4

General Chemistry

Lot-Sample #...: D5A190333-002 Work Order #...: G2WE4 Matrix....: WATER

Date Sampled...: 01/18/05 12:15 Date Received..: 01/19/05

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Chloride
 37
 3.0
 mg/L
 MCAWW 300.0A
 01/24-01/25/05
 5025235

Dilution Factor: 1 Analysis Time..: 01:12

Client Sample ID: MW-3

GC/MS Volatiles

Lot-Sample #: D5A190333-003	Work Order #: G2WE51AA	Matrix WATER
-----------------------------	------------------------	--------------

 Date
 Sampled...:
 01/18/05
 12:50
 Date
 Received...:
 01/19/05

 Prep
 Date...:
 01/26/05
 Analysis
 Date...:
 01/26/05

 Prep
 Batch #...:
 5027118
 Analysis
 Time...:
 12:02

Dilution Factor: 5

Method....: SW846 8260B

		REPORTIN	G
PARAMETER	RESULT	LIMIT	UNITS
Benzene	190	5.0	ug/L
Ethylbenzene	ND	5.0	${ m ug/L}$
Toluene	ND	5.0	ug/L
Xylenes (total)	ND	10	ug/L
	DEDCENT	PECOVERV	

	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Dibromofluoromethane	103	(73 - 118)	
1,2-Dichloroethane-d4	114	(62 - 128)	
4-Bromofluorobenzene	97	(78 - 118)	
Toluene-d8	101	(77 - 117)	

1200

Client Sample ID: MW-3

GC/MS Semivolatiles

Lot-Sample #...: D5A190333-003 Work Order #...: G2WE51AC Matrix..... WATER

 Date Sampled...:
 01/18/05
 12:50
 Date Received...:
 01/19/05

 Prep Date....:
 01/19/05
 Analysis Date...:
 01/23/05

 Prep Batch #...:
 5019443
 Analysis Time...:
 17:41

Dilution Factor: 1

Method....: SW846 8270C

		REPORTI	1Ġ
ARAMETER	RESULT	LIMIT	UNITS
cenaphthene	ND	10	ug/L
cenaphthylene	ND	10	ug/L
nthracene	ND	10	ug/L
enzo(a)anthracene	ND	10	ug/L
nzo(b)fluoranthene	ND	10	ug/L
nzo(k)fluoranthene	ND	10	ug/L
nzo(ghi)perylene	ND	1.0	ug/L
nzo(a)pyrene	ND	10	ug/L
rysene	ND	10	ug/L
oenz(a,h)anthracene	ND	10	ug/L
oranthene	ND	10	\mathtt{ug}/\mathtt{L}
orene	ND	10	ug/L
deno(1,2,3-cd)pyrene	ND	10	ug/L
Methylnaphthalene	ND	10	ug/L
Methylnaphthalene	ND	10	ug/L
hthalene	ND	10	\mathtt{ug}/\mathtt{L}
nanthrene	ND	10	\mathtt{ug}/\mathtt{L}
rene	ND	10	ug/L
	PERCENT	RECOVERY	č.
ROGATE	RECOVERY	LIMITS	
luorophenol	65	(33 - 10	06)
nol-d5	69	(40 - 10	05)
robenzene-d5	73	(48 - 10	08)
uorobiphenyl	58	(39 - 93	3)
6-Tribromophenol	60	(31 - 12	22)
phenyl-d14	74	(20 - 12	23)

Client Sample ID: MW-3

General Chemistry

Lot-Sample #...: D5A190333-003

Work Order #...: G2WE5

Matrix....: WATER

Date Sampled...: 01/18/05 12:50 Date Received..: 01/19/05

PREPARATION-PREP

RESULT PARAMETER RLUNITS METHOD ANALYSIS DATE BATCH # Chloride 3.0 34 mg/L MCAWW 300.0A 01/24-01/25/05 5025235

Dilution Factor: 1

Analysis Time..: 02:02

Client Sample ID: MW-2

GC/MS Volatiles

Lot-Sample #: D5A190333-004 Date Sampled: 01/18/05 13:30 Prep Date: 01/25/05 Prep Batch #: 5026272	Date Received: Analysis Date:	01/19/05 01/25/05	Matrix: WATER
Dilution Factor: 66.67	Andrysis inne	19.33	
	Method:	SW846 8260	В
		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Benzene	1200	67	ug/L
Ethylbenzene	380	67	ug/L
Toluene	3300	67	ug/L
Xylenes (total)	3500	130	ug/L
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Dibromofluoromethane	90	(73 - 118)	
1,2-Dichloroethane-d4	90	(62 - 128)	
4-Bromofluorobenzene	89	(78 - 118)	
Toluene-d8	105	(77 - 117)	

Client Sample ID: MW-2

GC/MS Semivolatiles

Lot-Sample #: D5A190333-004	Work Order #: G2WE61AC	Matrix WATER
-----------------------------	------------------------	--------------

ug/L

10

 Date Sampled...:
 01/18/05
 13:30
 Date Received...:
 01/19/05

 Prep Date.....:
 01/19/05
 Analysis Date...:
 01/23/05

 Prep Batch #...:
 5019443
 Analysis Time...:
 18:04

Dilution Factor: 1

Method.....: SW846 8270C

		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	
Acenaphthene	ND	10	ug/L	
Acenaphthylene	ND	10	ug/L	
The table of the same of the s	377	1.0	/7	

Acenaphthene	ND	10	ug/L	
Acenaphthylene	ND	10	ug/L	
Anthracene	ND	10	ug/L	
Benzo(a)anthracene	ND	10	ug/L	
Benzo(b) fluoranthene	ND	10	ug/L	
Benzo(k)fluoranthene	ND	10	ug/L	
Benzo(ghi)perylene	ND	10	ug/L	
Benzo(a)pyrene	ND	10	ug/L	
Chrysene	ND	10	ug/L	
Dibenz(a,h)anthracene	ND	10	ug/L	
Fluoranthene	ND	10	ug/L	
Fluorene	ND	10	ug/L	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	
2-Methylnaphthalene	72	10	ug/L	
1-Methylnaphthalene	34	10	ug/L	
Naphthalene	51	10	ug/L	
Phenanthrene	ND	10	ug/L	

ND

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(33 - 106)
Phenol-d5	82	(40 - 105)
Nitrobenzene-d5	77	(48 - 108)
2-Fluorobiphenyl	74	(39 - 93)
2,4,6-Tribromophenol	85	(31 - 122)
Terphenyl-d14	76	(20 - 123)

Pyrene

Client Sample ID: MW-2

General Chemistry

Lot-Sample #...: D5A190333-004 Work Order #...: G2WE6

Matrix..... WATER

Date Sampled...: 01/18/05 13:30 Date Received..: 01/19/05

PREPARATION-PREP

PARAMETER Chloride

RESULT

RLUNITS 3.0 mg/L

METHOD MCAWW 300.0A ANALYSIS DATE BATCH # 01/24-01/25/05 5025235

Dilution Factor: 1

Analysis Time..: 02:51

Client Sample ID: DUPLICATE

GC/MS Volatiles

Lot-Sample #:	D5A190333-005	Work Orde	r #:	G2WE71AA	Matrix:	WATER
	0-1-0100					

 Date Sampled...:
 01/18/05
 13:45
 Date Received...:
 01/19/05

 Prep Date....:
 01/25/05
 Analysis Date...:
 01/25/05

 Prep Batch #...:
 5026272
 Analysis Time...:
 20:01

Dilution Factor: 66.67

Method.....: SW846 8260B

98

Toluene-d8

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Benzene	1300	67	ug/L
Ethylbenzene	410	67	ug/L
Toluene	3700	67	ug/L
Xylenes (total)	3800	130	ug/L
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Dibromofluoromethane	93	(73 - 118)	
1,2-Dichloroethane-d4	93	(62 - 128))
4-Bromofluorobenzene	90	(78 - 118)	1

(77 - 117)

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D5A190333-006 Work Order #...: G2WE81AA Matrix..... WATER

 Date Sampled...:
 01/18/05
 13:55
 Date Received...:
 01/19/05

 Prep Date.....:
 01/25/05
 Analysis Date...:
 01/25/05

 Prep Batch #...:
 5026272
 Analysis Time...:
 20:27

Dilution Factor: 1

Method..... SW846 8260B

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Dibromofluoromethane	92	(73 - 118))
1,2-Dichloroethane-d4	93	(62 - 128))
4-Bromofluorobenzene	89	(78 - 118))
Toluene-d8	102	(77 - 117))

QC DATA ASSOCIATION SUMMARY

D5A190333

Sample Preparation and Analysis Control Numbers

		ANALYTI	CAL	LEACH	PREP	
SAMPLE#	MATRIX	METHOD		BATCH #	BATCH #	MS RUN#
001	WATER	MCAWW 3	300.0A		5025235	5025153
	WATER	SW846 8	3260B		5026272	5026165
	WATER	SW846 8	3270C		5019443	
002	WATER	MCAWW 3	300.0A		5025235	5025153
	WATER	SW846 8	3260B		5026272	5026165
	WATER	SW846 8	3270C		5019443	
003	WATER	MCAWW 3	300.0A		5025235	5025153
	WATER	SW846 8	3260B		5027118	5027060
	WATER	SW846 8	3270C		5019443	
004	WATER	MCAWW 3	300.0A		5025235	5025153
	WATER	SW846 8	3260B		5026272	5026165
	WATER	SW846 8	3270C		5019443	
005	WATER	SW846	3260B		5026272	5026165
006	WATER	SW846 8	3260B		5026272	5026165

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D5A190333

Work Order #...: G28K61AA

Matrix....: WATER

MB Lot-Sample #: D5A260000-272

Prep Date....: 01/25/05
Prep Batch #...: 5026272

Analysis Time..: 13:30

Analysis Date..: 01/25/05

Dilution Factor: 1

REPORTING

	•	REPORTI	REPORTING				
PARAMETER	RESULT	LIMIT	UNITS	METHOD			
Benzene	ND	1.0	ug/L	SW846 8260B			
Ethylbenzene	ND	1.0	ug/L	SW846 8260B			
Toluene	ND	1.0	\mathtt{ug}/\mathtt{L}	SW846 8260B			
Xylenes (total)	ND	2.0	ug/L	SW846 8260B			
	PERCENT	RECOVER'	Y				
SURROGATE	RECOVERY	LIMITS					
Dibromofluoromethane	94	(73 - 1	18)				
1,2-Dichloroethane-d4	94	(62 - 1	28)				
4-Bromofluorobenzene	91	(78 - 1	18)				
Toluene-d8	104	(77 - 1	17)				

NOTE(S):

GC/MS Volatiles

Client Lot #...: D5A190333 Work Order #...: G28K61AC Matrix....: WATER

LCS Lot-Sample#: D5A260000-272

 Prep Date....:
 01/25/05
 Analysis Date..:
 01/25/05

 Prep Batch #...:
 5026272
 Analysis Time..:
 13:58

Dilution Factor: 1

1,1-Dichloroethene 113 (66 - 132) SW846 8260B Chlorobenzene 101 (78 - 118) SW846 8260B Benzene 113 (75 - 120) SW846 8260B Trichloroethene 102 (79 - 122) SW846 8260B Toluene 116 (78 - 118) SW846 8260B Toluene 118 (73 - 118) SW846 8260B Toluene 118 (78 - 118) SW8	PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS (66 - 132)	METHOD SW846 8260B
Benzene 113 (75 - 120) SW846 8260B Trichloroethene 102 (79 - 122) SW846 8260B Toluene 116 (78 - 118) SW846 8260B PERCENT RECOVERY SURROGATE RECOVERY LIMITS Dibromofluoromethane 90 (73 - 118) 1,2-Dichloroethane-d4 92 (62 - 128) 4-Bromofluorobenzene 87 (78 - 118)	•		• • • • • • • • • • • • • • • • • • • •	
Toluene 116 (78 - 118) SW846 8260B PERCENT RECOVERY SURROGATE RECOVERY LIMITS Dibromofluoromethane 90 (73 - 118) 1,2-Dichloroethane-d4 92 (62 - 128) 4-Bromofluorobenzene 87 (78 - 118)			• • • • • • • • • • • • • • • • • • • •	
SURROGATE RECOVERY Dibromofluoromethane 90 (73 - 118) 1,2-Dichloroethane-d4 92 (62 - 128) 4-Bromofluorobenzene 87 (78 - 118)	Trichloroethene	102	(79 - 122)	SW846 8260B
SURROGATE RECOVERY LIMITS Dibromofluoromethane 90 (73 - 118) 1,2-Dichloroethane-d4 92 (62 - 128) 4-Bromofluorobenzene 87 (78 - 118)	Toluene	116	(78 - 118)	SW846 8260B
Dibromofluoromethane 90 (73 - 118) 1,2-Dichloroethane-d4 92 (62 - 128) 4-Bromofluorobenzene 87 (78 - 118)			PERCENT	RECOVERY
1,2-Dichloroethane-d4 92 (62 - 128) 4-Bromofluorobenzene 87 (78 - 118)	SURROGATE		RECOVERY	LIMITS
4-Bromofluorobenzene 87 (78 - 118)	Dibromofluoromethane		90	(73 - 118)
T BEOMOLEGIC	1,2-Dichloroethane-d4		92	(62 - 128)
Toluene-d8 102 (77 - 117)	4-Bromofluorobenzene		87	(78 - 118)
	Toluene-d8		102	(77 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

GC/MS Volatiles

Client Lot #...: D5A190333 Work Order #...: G28K61AC Matrix.....: WATER

LCS Lot-Sample#: D5A260000-272

 Prep Date.....:
 01/25/05
 Analysis Date..:
 01/25/05

 Prep Batch #...:
 5026272
 Analysis Time..:
 13:58

Dilution Factor: 1

PARAMETER 1,1-Dichloroethene Chlorobenzene Benzene Trichloroethene Toluene	SPIKE AMOUNT 10.0 10.0 10.0 10.0	MEASURED AMOUNT 11.3 10.1 11.3 10.2 11.6	UNITS ug/L ug/L ug/L ug/L	PERCENT RECOVERY 113 101 113 102 116	METHOD SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B
SURROGATE Dibromofluoromethane 1,2-Dichloroethane-d4 4-Bromofluorobenzene Toluene-d8		PERCENT RECOVERY 90 92 87 102	RECOVERY LIMITS (73 - 118) (62 - 128) (78 - 118) (77 - 117)		·

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D5A190333 Work Order #...: G22111A5-MS Matrix....: WATER

MS Lot-Sample #: D5A210359-005 G22111A6-MSD

 Date Sampled...:
 01/20/05
 09:05
 Date Received...:
 01/21/05

 Prep Date....:
 01/25/05
 Analysis Date...:
 01/25/05

 Prep Batch #...:
 5026272
 Analysis Time...:
 14:57

Dilution Factor: 1

	PERCENT	RECOVERY		RPD		
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHO)
1,1-Dichloroethene	110	(66 - 132)			SW846	8260B
	111	(66 - 132)	0.34	(0-26)	SW846	8260B
Chlorobenzene	104	(78 - 118)			SW846	8260B
	105	(78 - 118)	1.4	(0-20)	SW846	8260B
Benzene	106	(75 - 120)			SW846	8260B
	111	(75 - 120)	4.5	(0-21)	SW846	8260B
Trichloroethene	98	(79 - 122)			SW846	8260B
	101	(79 - 122)	3.4	(0-23)	SW846	8260B
Toluene	112	(78 - 118)			SW846	8260B
	113	(78 - 118)	0.43	(0-22)	SW846	8260B
		PERCENT		RECOVERY		
SURROGATE		RECOVERY		LIMITS		
Dibromofluoromethane		90		(73 - 118	<u>)</u>	
		92		(73 - 118)	
1,2-Dichloroethane-d4		88		(62 - 128)	
,		90		(62 - 128)	
4-Bromofluorobenzene		89		(78 - 118		
		86		(78 - 118)	
Toluene-d8		106		(77 - 117	-	•
				•	•	
		103		(77 - 117)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D5A190333 Work Order #...: G22111A5-MS Matrix....: WATER

MS Lot-Sample #: D5A210359-005 G22111A6-MSD

 Date Sampled...:
 01/20/05 09:05
 Date Received...:
 01/21/05

 Prep Date....:
 01/25/05
 Analysis Date...:
 01/25/05

 Prep Batch #...:
 5026272
 Analysis Time...:
 14:57

Dilution Factor: 1

	SAMPLE	SPIKE	MEASRD		PERCNT			
PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOI)
1,1-Dichloroethene	NID	10.0	11.0	ug/L	110		SW846	8260B
	ND	10.0	11.1	ug/L	111	0.34	SW846	8260B
Chlorobenzene	ND	10.0	10.4	ug/L	104		SW846	8260B
	ND	10.0	10.5	ug/L	105	1.4	SW846	8260B
Benzene	ND	10.0	10.8	ug/L	106		SW846	8260B
	ND	10.0	11.3	ug/L	111	4.5	SW846	8260B
Trichloroethene	ND	10.0	9.99	ug/L	98		SW846	8260B
	ND	10.0	10.3	ug/L	101	3.4	SW846	8260B
Toluene	ND	10.0	11.5	ug/L	112		SW846	8260B
	ND	10.0	11.5	ug/L	113	0.43	SW846	8260B

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Dibromofluoromethane	90	(73 - 118)
	92	(73 - 118)
1,2-Dichloroethane-d4	88	(62 - 128)
	90	(62 - 128)
4-Bromofluorobenzene	89	(78 - 118)
	86	(78 - 118)
Toluene-d8	106	(77 - 117)
	103	(77 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D5A190333

Work Order #...: G29071AA

Matrix..... WATER

MB Lot-Sample #: D5A270000-118

Prep Date....: 01/26/05
Prep Batch #...: 5027118

Analysis Time..: 11:12

Analysis Date..: 01/26/05

Dilution Factor: 1

REPORTING

	REPORTING				
RESULT	LIMIT	UNITS	METHOD		
ND	1.0	ug/L	SW846 8260B		
ND	1.0	ug/L	SW846 8260B		
ND	1.0	ug/L	SW846 8260B		
ND	2.0	ug/L	SW846 8260B		
PERCENT	RECOVER'	Y			
RECOVERY	LIMITS				
107	(73 - 1	18)			
120	(62 - 1	28)			
104	(78 - 1	18)			
107	(77 - 1	17)			
	ND ND ND PERCENT RECOVERY 107 120 104	RESULT LIMIT ND 1.0 ND 1.0 ND 1.0 ND 2.0 PERCENT RECOVER RECOVERY LIMITS 107 (73 - 1) 120 (62 - 1) 104 (78 - 1)	RESULT LIMIT UNITS ND 1.0 ug/L ND 1.0 ug/L ND 1.0 ug/L ND 2.0 ug/L PERCENT RECOVERY RECOVERY LIMITS 107 (73 - 118) 120 (62 - 128) 104 (78 - 118)	RESULT LIMIT UNITS METHOD ND 1.0 ug/L SW846 8260B ND 1.0 ug/L SW846 8260B ND 2.0 ug/L SW846 8260B ND 2.0 ug/L SW846 8260B PERCENT RECOVERY RECOVERY LIMITS 107 (73 - 118) 120 (62 - 128) 104 (78 - 118)	

NOTE(S):

GC/MS Volatiles

Client Lot #...: D5A190333 Work Order #...: G29071AC-LCS Matrix.....: WATER

LCS Lot-Sample#: D5A270000-118 G29071AD-LCSD

 Prep Date....:
 01/26/05
 Analysis Date..:
 01/26/05

 Prep Batch #...:
 5027118
 Analysis Time..:
 10:25

Dilution Factor: 1

	PERCENT	RECOVERY	RPD	
PARAMETER	RECOVERY	LIMITS	RPD LIMITS	METHOD
1,1-Dichloroethene	100	(66 - 132)		SW846 8260B
	97	(66 - 132)	3.8 (0-26)	SW846 8260B
Chlorobenzene	97	(78 - 118)		SW846 8260B
	99	(78 - 118)	1.2 (0-20)	SW846 8260B
Benzene	102	(75 - 120)		SW846 8260B
	100	(75 - 120)	1.2 (0-21)	SW846 8260B
Trichloroethene	100	(79 - 122)		SW846 8260B
	99	(79 - 122)	0.97 (0-23)	SW846 8260B
Toluene	96	(78 - 118)		SW846 8260B
	96	(78 - 118)	0.060 (0-22)	SW846 8260B
		PERCENT	RECOVERY	
SURROGATE		RECOVERY	LIMITS	
Dibromofluoromethane		105	(73 - 118)	
		104	(73 - 118)	
1,2-Dichloroethane-d4		115	(62 - 128)	
		114	(62 - 128)	
4-Bromofluorobenzene		100	(78 - 118)	
		99	(78 - 118)	
Toluene-d8		102	(77 - 117)	
		102	(77 - 117)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

GC/MS Volatiles

Client Lot #...: D5A190333 Work Order #...: G29071AC-LCS Matrix.....: WATER

LCS Lot-Sample#: D5A270000-118 G29071AD-LCSD

 Prep Date.....:
 01/26/05
 Analysis Date..:
 01/26/05

 Prep Batch #...:
 5027118
 Analysis Time..:
 10:25

Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHO	D
1,1-Dichloroethene	10.0	10.0	ug/L	100		SW846	8260B
	10.0	9.65	ug/L	97	3.8	SW846	8260B
Chlorobenzene	10.0	9.75	ug/L	97		SW846	8260B
	10.0	9.86	ug/L	99	1.2	SW846	8260B
Benzene	10.0	10.2	ug/L	102		SW846	8260B
	10.0	10.0	ug/L	100	1.2	SW846	8260B
Trichloroethene	10.0	9.95	ug/L	100		SW846	8260B
	10.0	9.85	ug/L	99	0.97	SW846	8260B
Toluene	10.0	9.58	ug/L	96		SW846	8260B
	10.0	9.57	ug/L	96	0.060	SW846	8260B
•							
			PERCENT	RECOVERY			
SURROGATE			RECOVERY	LIMITS			
Dibromofluoromethane			105	(73 - 118)		
			104	(73 - 118)		
1,2-Dichloroethane-d4			115	(62 - 128)		
			114	(62 - 128)		
4-Bromofluorobenzene			100	(78 - 118)		
			99	(78 - 118)		
Toluene-d8			102	(77 - 117)		
			102	(77 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D5A190333 Work Order #...: G2WE51AE-MS Matrix....: WATER

MS Lot-Sample #: D5A190333-003 G2WE51AF-MSD

 Date Sampled...:
 01/18/05
 12:50
 Date Received..:
 01/19/05

 Prep Date....:
 01/26/05
 Analysis Date..:
 01/26/05

 Prep Batch #...:
 5027118
 Analysis Time..:
 15:28

Dilution Factor: 5

	PERCENT	RECOVERY		RPD	
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD
1,1-Dichloroethene	100	(66 - 132)			SW846 8260B
	101	(66 - 132)	0.96	(0-26)	SW846 8260B
Chlorobenzene	104	(78 - 118)			SW846 8260B
	108	(78 - 118)	3.9	(0-20)	SW846 8260B
Benzene	104	(75 - 120)			SW846 8260B
	114	(75 - 120)	2.1	(0-21)	SW846 8260B
Trichloroethene	105	(79 - 122)			SW846 8260B
•	109	(79 - 122)	4.2	(0-23)	SW846 8260B
Toluene	104	(78 - 118)			SW846 8260B
	108	(78 - 118)	3.0	(0-22)	SW846 8260B
		DDD 05110			
GUDDOGS WD		PERCENT		RECOVERY	
SURROGATE		RECOVERY		LIMITS	_
Dibromofluoromethane		104		(73 - 118	•
		104		(73 ~ 118	•
1,2-Dichloroethane-d4		114		(62 - 128	3)
		114		(62 - 128	3)
4-Bromofluorobenzene		97		(78 - 118	3)
		102		(78 - 118	3)
Toluene-d8		102		(77 - 117	')
		103		(77 - 117	⁷)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D5A190333 Work Order #...: G2WE51AE-MS Matrix.....: WATER

MS Lot-Sample #: D5A190333~003 G2WE51AF-MSD

 Date Sampled...:
 01/18/05
 12:50
 Date Received...:
 01/19/05

 Prep Date.....:
 01/26/05
 Analysis Date...:
 01/26/05

 Prep Batch #...:
 5027118
 Analysis Time...:
 15:28

Dilution Factor: 5

	SAMPLE	SPIKE	MEASRD		PERCNT			
PARAMETER	AMOUNT	AMT	TRUOMA	UNITS	RECVRY	RPD	METHO)
1,1-Dichloroethene	ND ND	50.0	50.1	ug/L	100		SW846	8260B
	ND	50.0	50.6	ug/L	101	0.96	SW846	8260B
Chlorobenzene	ND	50.0	52.1	ug/L	104		SW846	8260B
	ND	50.0	54.1	ug/L	108	3.9	SW846	8260B
Benzene	190	50.0	246	ug/L	104		SW846	8260B
	190	50.0	251	ug/L	114	2.1	SW846	8260B
Trichloroethene	ND	50.0	52.5	ug/L	105		SW846	8260B
	ND	50.0	54.7	ug/L	109	4.2	SW846	8260B
Toluene	ND	50.0	53.2	ug/L	104		SW846	8260B
	ND	50.0	54.8	ug/L	108	3.0	SW846	8260B
	•		ERCENT		RECOVERY			
SURROGATE		RI	ECOVERY		LIMITS			
Dibromofluoromethane		10	04		(73 - 118)		
		1	04		(73 - 118)		
1,2-Dichloroethane-d4		1	14		(62 - 128)		
		1:	14		(62 - 128)		
4-Bromofluorobenzene		9'	7		(78 - 118)		
		1	02		(78 - 118)		•
Toluene-d8		1	02		(77 - 117)		
		1	03		(77 - 117)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D5A190333 Work Order #...: G2WK01AA Matrix..... WATER

MB Lot-Sample #: D5A190000-443

Prep Date.....: 01/19/05 **Analysis Time..:** 14:37

Dilution Factor: 1

		REPORTING				
PARAMETER	RESULT	LIMIT	UNITS	METHOD		
Acenaphthene	ND	10	ug/L	SW846 8270C		
Acenaphthylene	ND	10	ug/L	SW846 8270C		
Anthracene	ND	10	ug/L	SW846 8270C		
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C		
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C		
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C		
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C		
Benzo(a)pyrene	\mathbf{N} D	10	\mathtt{ug}/\mathtt{L}	SW846 8270C		
Chrysene	\mathbf{N} D	10	${\tt ug/L}$	SW846 8270C		
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C		
Fluoranthene	ND	10	ug/L	SW846 8270C		
Fluorene	ND	10	ug/L	SW846 8270C		
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C		
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C		
1-Methylnaphthalene	ND	10	ug/L	SW846 8270C		
Naphthalene	ND	10	ug/L	SW846 8270C		
Phenanthrene	ND	10	ug/L	SW846 8270C		
Pyrene	ND	10	ug/L	SW846 8270C		
	PERCENT	RECOVER'	Y			
SURROGATE	RECOVERY	LIMITS				
2-Fluorophenol	80	(33 - 1	06)			
Phenol-d5	83	(40 - 1	05)			
Nitrobenzene-d5	81	(48 - 1	08)			
2-Fluorobiphenyl	64	(39 - 9)	3)			
2,4,6-Tribromophenol	76	(31 - 1	22)			
Terphenyl-d14	99	(20 - 1:	23)			

NOTE(S):

GC/MS Semivolatiles

Client Lot #...: D5A190333 Work Order #...: G2WK01AC-LCS Matrix..... WATER

LCS Lot-Sample#: D5A190000-443 G2WK01AD-LCSD

 Prep Date.....: 01/19/05
 Analysis Date...: 01/23/05

 Prep Batch #...: 5019443
 Analysis Time...: 15:00

Dilution Factor: 1

	PERCENT	RECOVERY		RPD	
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD
4-Chloro-3-methylphenol	72	(59 - 106)			SW846 8270C
	76	(59 - 106)	4.2	(0-28)	SW846 8270C
2-Chlorophenol	72	(59 - 103)			SW846 8270C
	76	(59 - 103)	5.5	(0-38)	SW846 8270C
Acenaphthene	69	(52 - 102)			SW846 8270C
	73	(52 - 102)	6.1	(0-28)	SW846 8270C
1,4-Dichlorobenzene	54	(43 - 91)			SW846 8270C
	55	(43 - 91)	1.7	(0-50)	SW846 8270C
2,4-Dinitrotoluene	72	(50 - 111)			SW846 8270C
	72	(50 - 111)	0.72	(0-30)	SW846 8270C
4-Nitrophenol	63	(38 - 116)			SW846 8270C
	64	(38 - 116)	2.0	(0~53)	SW846 8270C
N-Nitrosodi-n-propyl- amine	71	(51 - 99)			SW846 8270C
	75	(51 - 99)	6.1	(0-27)	SW846 8270C
Pentachlorophenol	61	(41 - 113)			SW846 8270C
- Care	64	(41 - 113)	5.1	(0-50)	SW846 8270C
Phenol	72	(57 - 103)			SW846 8270C
	75	(57 - 103)	4.2	(0-36)	SW846 8270C
1,2,4-Trichloro- benzene	57	(42 - 94)			SW846 8270C
penacie	60	(42 - 94)	6.2	(0-44)	SW846 8270C
Pyrene	87	(47 - 112)			SW846 8270C
	89	(47 - 112)	1.8	(0-33)	SW846 8270C
		PERCENT	RECOV	ERY	
SURROGATE		RECOVERY	LIMIT	.s	
2-Fluorophenol		73	(55 -	95)	
		76	(55 -	95)	
Phenol-d5		77	(58 -	97)	
		80	(58 -	97)	
Nitrobenzene-d5		74	(55 -	100)	
		78	(55 -	100)	
2-Fluorobiphenyl		54	(40 -	- 93)	
		52	(40 -	- 93)	
2,4,6-Tribromophenol		72	(51 -	- 107)	
• • • • • • • • • • • • • • • • • • •		75	(51 -	- 107)	
Terphenyl-d14		95	(49 -	- 111)	

(Continued on next page)

GC/MS Semivolatiles

Client Lot #...: D5A190333 Work Order #...: G2WK01AC-LCS Matrix....: WATER

LCS Lot-Sample#: D5A190000-443 G2WK01AD-LCSD

SURROGATE PERCENT RECOVERY LIMITS

95 (49 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

GC/MS Semivolatiles

Client Lot #...: D5A190333 Work Order #...: G2WK01AC-LCS Matrix....: WATER

LCS Lot-Sample#: D5A190000-443 G2WK01AD-LCSD

 Prep Date.....:
 01/19/05
 Analysis Date...:
 01/23/05

 Prep Batch #...:
 5019443
 Analysis Time...:
 15:00

Dilution Factor: 1

	SPIKE	MEASURED)	PERCENT		
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	RPD	METHOD
4-Chloro-3-methylphenol	150	109	ug/L	72		SW846 8270C
	150	113	ug/L	76	4.2	SW846 8270C
2-Chlorophenol	150	108	ug/L	72		SW846 8270C
	150	114	ug/L	76	5.5	SW846 8270C
Acenaphthene	100	68.8	ug/L	69		SW846 8270C
	100	73.2	ug/L	73	6.1	SW846 8270C
1,4-Dichlorobenzene	100	54.4	ug/L	54		SW846 8270C
	100	55.4	ug/L	55	1.7	SW846 8270C
2,4-Dinitrotoluene	100	72.4	ug/L	72		SW846 8270C
	100	71.8	ug/L	72	0.72	SW846 8270C
4-Nitrophenol	150	94.3	ug/L	63		SW846 8270C
	150	96.2	ug/L	64	2.0	SW846 8270C
N-Nitrosodi-n-propyl- amine	100	70.7	ug/L	71		SW846 8270C
	100	75.2	ug/L	75	6.1	SW846 8270C
Pentachlorophenol	150	91.1	ug/L	61		SW846 8270C
.	150	95.9	ug/L	64	5.1	SW846 8270C
Phenol	150	108	ug/L	72		SW846 8270C
	150	113	ug/L	75	4.2	SW846 8270C
1,2,4-Trichloro-	100	56.7	ug/L	57		SW846 8270C
benzene			3,			
•	100	60.3	ug/L	60	6.2	SW846 8270C
Pyrene	100	87.1	ug/L	87		SW846 8270C
	100	88.7	ug/L	89	1.8	SW846 8270C
			PERCENT	RECOVERY		
SURROGATE			RECOVERY	LIMITS	_	
2-Fluorophenol			73	(55 - 95)		
			76	(55 - 95)		
Phenol-d5			77	(58 - 97)		•
			80	(58 - 97)		
Nitrobenzene-d5			74	(55 - 100)	
			78	(55 - 100)	
2-Fluorobiphenyl			54	(40 - 93)		
			52	(40 - 93)		•
2,4,6-Tribromophenol			72	(51 - 107		
_, _, 0 12 222 1			75	(51 - 107		
Terphenyl-d14			95	(49 - 113		

(Continued on next page)

GC/MS Semivolatiles

Client Lot #...: D5A190333 Work Order #...: G2WK01AC-LCS Matrix...... WATER

LCS Lot-Sample#: D5A190000-443 G2WK01AD-LCSD

SURROGATE PERCENT RECOVERY
RECOVERY
95 (49 - 111)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D5A190333 Matrix....: WATER

		REPORTING	G		PREPARATION-	PREP
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	BATCH #
Chloride		Work Order	#: G26QT1AA	MB Lot-Sample #:	D5A250000-235	
	ND	3.0	mg/L	MCAWW 300.0A	01/24/05	5025235
		Dilution Fact	or: 1			
		Analysis Time	2: 15:51			

Analysis Time..: 15:

Calculations are performed before rounding to avoid round-off errors in calculated results.

NOTE(S):

General Chemistry

Lot-Sample #...: D5A190333 Matrix....: WATER

	PERCENT	RECOVERY	RPD		PREPARATION~	PREP
PARAMETER	RECOVERY	LIMITS RPD	LIMITS	METHOD	ANALYSIS DATE	BATCH #
Chloride		WO#:G26QT1AC	-LCS/G26	QT1AD-LCSD LCS	Lot-Sample#: D5A2	50000-235
	102	(90 - 110)		MCAWW 300.0A	01/24/05	5025235
	102	(90 - 110) 0.09	(0-10)	MCAWW 300.0A	01/24/05	5025235
		Dilution Fac	tor: 1	Analysis Time:	15:18	

Dilucion raccor: 1 Marysis fille... 15.1

NOTE(S):

General Chemistry

Lot-Sample #...: D5A190333

Matrix..... WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY		METHOI)	PREPARAT ANALYSIS	_ •	PREP BATCH #
Chloride		WO#	:G26QT1AC	-LCS/G2	6QT1A	D-LCSD	LCS Lot-Sa	mple#: D5	A25000	0-235
	20.0	20.5	mg/L	102		MCAWW	300.0A	01/24	/05	5025235
	20.0	20.5	mg/L	102	0.09	MCAWW	300.0A	01/24	/05	5025235
		E	ilution Fact	or: 1	i	Analvsis	Time: 15:18			

NOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D5A190333 Matrix..... WATER

Date Sampled...: 01/17/05 06:00 Date Received..: 01/17/05

PERCENT RECOVERY RPD PREPARATION-PREP RPD LIMITS METHOD ANALYSIS DATE BATCH # PARAMETER RECOVERY LIMITS Chloride WO#: G2P9G1CH-MS/G2P9G1CJ-MSD MS Lot-Sample #: D5A170175-001 104 I (80 - 120)MCAWW 300.0A 01/24/05 5025235 104 I (80 - 120) 0.29 (0-20) MCAWW 300.0A 01/24/05 5025235 Dilution Factor: 1

Analysis Time..: 19:26

NOTE(S):

I Estimated result. Result concentration exceeds the calibration range.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D5A190333 Matrix....: WATER

Date Sampled...: 01/17/05 06:00 Date Received..: 01/17/05

	SAMPLE	SPIKE	MEASE	2D		PERCNT				PREPARATION-	PREP
PARAMETER	AMOUNT	AMT	AMOUN	IT	UNITS	RECVRY	RPD	METHO)	ANALYSIS DATE	BATCH #
Chloride			WO#	ŧ:	G2P9G1CH-MS/	G2P9G1	CJ-MSI	MS I	Lot-Samp	le #: D5A170175	-001
	1500	1250	2820	I	${ t mg/L}$	104		MCAWW	300.0A	01/24/05	5025235
	1500	1250	2830	I	mg/L	104	0.29	MCAWW	300.0A	01/24/05	5025235
			Dil	uti	on Factor: 1						

Analysis Time..: 19:26

NOTE(S):

I Estimated result. Result concentration exceeds the calibration range.

Custody Record Chain of

STL-4124 (0901)

Severn Trent Laboratories, Inc. STL UM°L SEVERN TRENT

4955 Yarrow Street STL Denver

Arvada, CO 80002

0670 Special Instructions/ Conditions of Receipt Chain of Qustody Number 1 (A fee may be assessed if samples are retained Months—longer than 1 month) ŏ Time Time) 14'0) Page__ Date Date 1-13.65 Analysis (Attach list if more space is needed) Lab Number 1) A145 ☐ Archive For Sile Contact
Sile Contact

Killy Herr Lissin Don How Cyclase Scanerway Dill Number XZIG OC Requirements (Specify) \oAn\ob Containers & Preservatives HOPN (525) 237-8440 B656 3. Received By Received By IOH Telephone Number (Arda Code)/Fax Mumber EONH POSZH səıdur Unknown | Return To Client 16:86 Sample Disposa 110S Time ime Matrix pə5 1-18-65 Project Manager !!b Other 13:45 1-18-05 13:30 13.55 1-18-65 11:20 1-18-65 112.50 Date 1-18-65 12.15 Time 21 Days 1-18-15 1-18-65 ☐ Poison B Date UN 87117 lobel Longs NE, Suit 166 14 Days (Containers for each sample may be combined on one line) Skin Irritant Sample I.D. No. and Description 7 Days NUXIM Technicopres Flammable Contract/Purchase Order/Quote No. H buildness Speed 48 Hours Possible Hazard Identification Non-Hazard Flan 1100 Blune 2. Relinguished) By Duplicate MW. 2 PALV. 3 MW. 4 1. Relinquished By 3. Relinquished By YMW) - 1 24 Hours Comments

STL Denver Sample Receiving Checklist

Lot	#:	S	AL	90333	Date	e/Time Re	ceived:	elos	0930	<u> </u>
Cor	npar	ıy N	ame	& Sampling Site: MA	XIM T	ECANO	LUGIES	·		
•					•					
		_		his Section: Yes N neck required: O	o ·	Quarantir	Yes ned: 🗆	No Sa		·
Quo	te #:	3	120	23				•	•	· ·
Spec	ial Ir	nstruc	tions	•						
			.•	•				•		
			•					1		
									•	
					-			4.		
	e Zon MES		~DT/	CST • MDT/MST • PDT	PST • OTHE	R				
	1725		2011							
Unj	pack	ing	Che	cks:	•					,
	C	ooler	#(s):		· · · · · · · · · · · · · · · · · · ·					
Tem	perat	ures ((°C):	4.9						
N/A		No					•.			Initials
0	,D		1.	Cooler seals intact? (N/A	A if hand delive	ered) If no, o	locument on CI	JR.		MA
	Į.		. 2.	Chain of custody present	? If no, docume	ent on CUR.		•		Line Marie A
	0	6	3.	Bottles broken and/or are	e leaking? If ye	s, document	on CUR.	*	ت ۔	De Fare in Co
	ū	Q.	4.	Multiphasic samples obv	ious? If yes, do	cument on (CUR.			
	0		5.	Proper container & prese	rvatives used?	(ref. Attach	ment D of SOP	# DEN-QA-0	003) If no, docu	ment on CUR.
P	O		6.	pH of all samples checke	d and meet req	uirements?	If no, documen	t on CUR.		•
	4 5		7.	Sufficient volume provided document on CUR, and of				nent D of SO	P# DEN-QA-000)3) If no,
	Ø		8.	Did chain of custody agre	ee with labels I	D and samp	les received? If	no, documen	t on CUR.	
	Æ,	۵	9.	Were VOA samples with	hout headspace	? If no, docu	iment on CUR.			•
0	Ø		10.	Were VOA vials preserv	ved? Preservati	ve THCI C	14£2°C □Sodi	um Thiosulfa	te 🗆 Ascorbic Ad	cid
•		Ø	11.	Did samples require pres	ervation with s	odium thios	ulfate?		•	
Φ	0		12.	If yes to #11, did the sam	iples contain re	sidual chlor	ine? If yes, doc	ument on CU	R.	
þ	0		13.	Sediment present in disso	olved/filtered b	ottles? If ye	s, document on	CUR.		
(0-	Ġ		14.	Is sufficient volume provious contact PM before proce		requested M	IS, MSD or ma	trix duplicate:	s? If no, docume	nt on CUR, and
		d	15.	Receipt date(s) > 48 hour	rs past the colle	ection date(s)? If yes, notif	у РАЉМ.		•
:	Q	ф.	16.	Are analyses with short h	nolding times re	equested?		•		
	D	9	17.	Was a quick Turn Aroun	d (TAT) reque	sted?	٠.			

STL Denver Sample Receiving Checklist

Lot # 190333

1.0	اسد# ا	رر		
Lo	gin C	Chec	in the second se	nitials
N/A	Yes	No	Z	<u> </u>
	þ	. 0	18. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DEN-QA-0003) If a document on CUR, and contact PM before proceeding.	no,
ф	٥		19. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on Contact PM before proceeding.	UR, and
	Þ		20. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?	
⋫	0	Ö	21. Were special log in instructions read and followed?	
6			22. Were AFCEE metals logged for refrigerated storage?	
	Ð		23. Were tests logged checked against the COC? Which samples were confirmed?	
ф			24. Was a Rush form completed for quick TAT?	
ф			25. Was a Short Hold form completed for any short holds?	
		4	26. Is "Strict ICOC" required?	
		ф	27. Were special archiving instructions indicated in the General Comments? If so, what were they?	
		•	·	
	_		11	
		:		p.
La	belin	g ar	d Storage Checks:	tials 🗀 🐫 ĸ
			and the contract of the contra	2
آھر آ		ū	28. Was the subcontract COC signed and sent with samples to bottle prep?) and contract to
	\not		29. Were sample labels double-checked by a second person?	/
\not	Ò	ū	30. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?	<u>/</u>
	9/		31. Did the sample ID, Date, and Time from label match what was logged?	
9	0		32. Were stickers for special archiving instructions affixed to each box and to the ICOC? See #27	
ø		a	33. Were AFCEE metals stored refrigerated?	
B			34. Were "Strict ICOC" copies given to satellite storage areas?	

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).