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Environment Testing  
America



## ANALYTICAL REPORT

Eurofins TestAmerica, Denver  
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Tel: (303)736-0100

Laboratory Job ID: 280-139903-1  
Client Project/Site: Hidden Valley LF  
Revision: 1

For:  
SCS Engineers  
2405 140th Avenue NE  
Suite 107  
Bellevue, Washington 98005-1877

Attn: Mr. Kevin Lakey

*Betsy Sara*

Authorized for release by:  
9/29/2020 2:06:14 PM

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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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# Definitions/Glossary

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

### Subcontract

Qualifier	Qualifier Description
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
U	Analyte was not detected and is reported as less than the LOD or as defined by the client. The LOD has been adjusted for any dilution or concentration of the sample.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

**Job ID: 280-139903-1**

**Laboratory: Eurofins TestAmerica, Denver**

**Narrative**

## CASE NARRATIVE

**Client: SCS Engineers**

**Project: Hidden Valley LF**

**Report Number: 280-139903-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. 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 high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### Sample Receiving

The samples were received on 08/28/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.1 C.

### Holding Times

All holding times were within established control limits.

### Method Blanks

All Method Blanks were within established control limits.

### Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

### Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) for Method 8260B, however, an LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for Ammonia Method 350.1. In addition, the RPD result was outside the RPD limit for Ammonia. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD samples were within established control limits.

### General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

## Case Narrative

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

### Job ID: 280-139903-1 (Continued)

#### Laboratory: Eurofins TestAmerica, Denver (Continued)

The analysis for Chloride and Sulfate Method 300.0 was performed at the TestAmerica's St. Louis Laboratory.  
13715 Rider Trail North  
Earth City, MO 63045  
Phone: 314-298-8566

The analysis for Dissolved Iron Method 200.8 was performed by Eurofins Frontier Global Sciences, LLC.  
Eurofins Frontier Global Sciences, LLC  
5755 8th St E  
Tacoma, WA 98424  
Phone: 253-922-2310

#### Report Revision

This submission was revised to merge the Dissolved Iron results into the deliverables.

# Detection Summary

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## Client Sample ID: HVL-082720-23

## Lab Sample ID: 280-139903-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	11		0.20		mg/L	1	300.0		Total/NA
Chloride - DL	6.8		1.2		mg/L	20	300.0		Total/NA
Zinc, Total	0.014		0.010		mg/L	1	6020		Total/NA
Nitrate as N	2.1		0.20		mg/L	1	300.0		Total/NA
Color	5.0		5.0		PCU	1	SM 2120B		Total/NA

## Client Sample ID: HVL-082720-24

## Lab Sample ID: 280-139903-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	9.8		0.20		mg/L	1	300.0		Total/NA
Chloride - DL	5.5		1.2		mg/L	20	300.0		Total/NA
Manganese, Total	0.0011		0.0010		mg/L	1	6020		Total/NA
Nitrate as N	1.4		0.20		mg/L	1	300.0		Total/NA

## Client Sample ID: TRIP BLANK

## Lab Sample ID: 280-139903-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

# Method Summary

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
6020	Metals (ICP/MS)	SW846	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL DEN
350.1	Nitrogen, Ammonia	MCAWW	TAL DEN
410.4	COD	MCAWW	TAL DEN
SM 2120B	Color, Colorimetric	SM	TAL DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	TAL DEN
Subcontract	LL Tot Fe 200.8 RL=0.03 mg/L (Eurofins Frontier)	None	FrontierGe
3020A	Preparation, Total Metals	SW846	TAL DEN
5030B	Purge and Trap	SW846	TAL DEN

## Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

FrontierGe = Frontier GeoSciences, Inc, 5755 8th Street E, Tacoma, WA 98424

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

## Sample Summary

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-139903-1	HVL-082720-23	Water	08/27/20 13:45	08/28/20 09:30	
280-139903-2	HVL-082720-24	Water	08/27/20 14:15	08/28/20 09:30	
280-139903-3	TRIP BLANK	Water	08/27/20 13:45	08/28/20 09:30	

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# Client Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

**Client Sample ID: HVL-082720-23**

**Date Collected: 08/27/20 13:45**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/09/20 03:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/09/20 03:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/09/20 03:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/09/20 03:05	1
1,1-Dichloroethane	ND		0.50		ug/L			09/09/20 03:05	1
1,1-Dichloroethene	ND		0.50		ug/L			09/09/20 03:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/09/20 03:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/09/20 03:05	1
1,2-Dibromoethane	ND		1.0		ug/L			09/09/20 03:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/09/20 03:05	1
1,2-Dichloroethane	ND		0.50		ug/L			09/09/20 03:05	1
1,2-Dichloropropane	ND		0.50		ug/L			09/09/20 03:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/09/20 03:05	1
2-Butanone (MEK)	ND		6.0		ug/L			09/09/20 03:05	1
2-Hexanone	ND		5.0		ug/L			09/09/20 03:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/09/20 03:05	1
Acetone	ND		10		ug/L			09/09/20 03:05	1
Acrylonitrile	ND		20		ug/L			09/09/20 03:05	1
Benzene	ND		0.50		ug/L			09/09/20 03:05	1
Bromochloromethane	ND		0.50		ug/L			09/09/20 03:05	1
Bromodichloromethane	ND		0.50		ug/L			09/09/20 03:05	1
Bromoform	ND		0.50		ug/L			09/09/20 03:05	1
Bromomethane	ND		0.50		ug/L			09/09/20 03:05	1
Carbon disulfide	ND		0.50		ug/L			09/09/20 03:05	1
Carbon tetrachloride	ND		0.50		ug/L			09/09/20 03:05	1
Chlorobenzene	ND		0.50		ug/L			09/09/20 03:05	1
Chloroethane	ND		0.50		ug/L			09/09/20 03:05	1
Chloroform	ND		0.50		ug/L			09/09/20 03:05	1
Chloromethane	ND		0.50		ug/L			09/09/20 03:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 03:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 03:05	1
cis-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 03:05	1
Dibromochloromethane	ND		0.50		ug/L			09/09/20 03:05	1
Dibromomethane	ND		0.50		ug/L			09/09/20 03:05	1
Dichlorodifluoromethane	ND		2.0		ug/L			09/09/20 03:05	1
Ethylbenzene	ND		1.0		ug/L			09/09/20 03:05	1
Iodomethane	ND		1.0		ug/L			09/09/20 03:05	1
Methylene Chloride	ND		2.0		ug/L			09/09/20 03:05	1
m-Xylene & p-Xylene	ND		0.50		ug/L			09/09/20 03:05	1
o-Xylene	ND		0.50		ug/L			09/09/20 03:05	1
Styrene	ND		0.50		ug/L			09/09/20 03:05	1
Tetrachloroethene	ND		0.50		ug/L			09/09/20 03:05	1
Toluene	ND		0.50		ug/L			09/09/20 03:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 03:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 03:05	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 03:05	1
Trichloroethene	ND		0.50		ug/L			09/09/20 03:05	1
Trichlorofluoromethane	ND		0.50		ug/L			09/09/20 03:05	1
Vinyl acetate	ND		3.0		ug/L			09/09/20 03:05	1

Eurofins TestAmerica, Denver

# Client Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

**Client Sample ID: HVL-082720-23**

**Date Collected: 08/27/20 13:45**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50		ug/L			09/09/20 03:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	101		70 - 127					09/09/20 03:05	1
4-Bromofluorobenzene (Surr)	100		78 - 120					09/09/20 03:05	1
Dibromofluoromethane (Surr)	102		77 - 120					09/09/20 03:05	1
Toluene-d8 (Surr)	100		80 - 125					09/09/20 03:05	1

**Client Sample ID: HVL-082720-24**

**Date Collected: 08/27/20 14:15**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-2**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/09/20 03:26	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/09/20 03:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/09/20 03:26	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/09/20 03:26	1
1,1-Dichloroethane	ND		0.50		ug/L			09/09/20 03:26	1
1,1-Dichloroethene	ND		0.50		ug/L			09/09/20 03:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/09/20 03:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/09/20 03:26	1
1,2-Dibromoethane	ND		1.0		ug/L			09/09/20 03:26	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/09/20 03:26	1
1,2-Dichloroethane	ND		0.50		ug/L			09/09/20 03:26	1
1,2-Dichloropropane	ND		0.50		ug/L			09/09/20 03:26	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/09/20 03:26	1
2-Butanone (MEK)	ND		6.0		ug/L			09/09/20 03:26	1
2-Hexanone	ND		5.0		ug/L			09/09/20 03:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/09/20 03:26	1
Acetone	ND		10		ug/L			09/09/20 03:26	1
Acrylonitrile	ND		20		ug/L			09/09/20 03:26	1
Benzene	ND		0.50		ug/L			09/09/20 03:26	1
Bromochloromethane	ND		0.50		ug/L			09/09/20 03:26	1
Bromodichloromethane	ND		0.50		ug/L			09/09/20 03:26	1
Bromoform	ND		0.50		ug/L			09/09/20 03:26	1
Bromomethane	ND		0.50		ug/L			09/09/20 03:26	1
Carbon disulfide	ND		0.50		ug/L			09/09/20 03:26	1
Carbon tetrachloride	ND		0.50		ug/L			09/09/20 03:26	1
Chlorobenzene	ND		0.50		ug/L			09/09/20 03:26	1
Chloroethane	ND		0.50		ug/L			09/09/20 03:26	1
Chloroform	ND		0.50		ug/L			09/09/20 03:26	1
Chloromethane	ND		0.50		ug/L			09/09/20 03:26	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 03:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 03:26	1
cis-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 03:26	1
Dibromochloromethane	ND		0.50		ug/L			09/09/20 03:26	1
Dibromomethane	ND		0.50		ug/L			09/09/20 03:26	1
Dichlorodifluoromethane	ND		2.0		ug/L			09/09/20 03:26	1
Ethylbenzene	ND		1.0		ug/L			09/09/20 03:26	1
Iodomethane	ND		1.0		ug/L			09/09/20 03:26	1
Methylene Chloride	ND		2.0		ug/L			09/09/20 03:26	1

Eurofins TestAmerica, Denver

# Client Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

**Client Sample ID: HVL-082720-24**

**Date Collected: 08/27/20 14:15**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-2**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		0.50		ug/L		09/09/20 03:26		1
o-Xylene	ND		0.50		ug/L		09/09/20 03:26		1
Styrene	ND		0.50		ug/L		09/09/20 03:26		1
Tetrachloroethene	ND		0.50		ug/L		09/09/20 03:26		1
Toluene	ND		0.50		ug/L		09/09/20 03:26		1
trans-1,2-Dichloroethene	ND		0.50		ug/L		09/09/20 03:26		1
trans-1,3-Dichloropropene	ND		0.50		ug/L		09/09/20 03:26		1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L		09/09/20 03:26		1
Trichloroethene	ND		0.50		ug/L		09/09/20 03:26		1
Trichlorofluoromethane	ND		0.50		ug/L		09/09/20 03:26		1
Vinyl acetate	ND		3.0		ug/L		09/09/20 03:26		1
Vinyl chloride	ND		0.50		ug/L		09/09/20 03:26		1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	101			70 - 127			09/09/20 03:26		1
4-Bromofluorobenzene (Surr)	101			78 - 120			09/09/20 03:26		1
Dibromofluoromethane (Surr)	101			77 - 120			09/09/20 03:26		1
Toluene-d8 (Surr)	99			80 - 125			09/09/20 03:26		1

**Client Sample ID: TRIP BLANK**

**Date Collected: 08/27/20 13:45**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-3**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L		09/09/20 03:47		1
1,1,1-Trichloroethane	ND		0.50		ug/L		09/09/20 03:47		1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L		09/09/20 03:47		1
1,1,2-Trichloroethane	ND		0.50		ug/L		09/09/20 03:47		1
1,1-Dichloroethane	ND		0.50		ug/L		09/09/20 03:47		1
1,1-Dichloroethene	ND		0.50		ug/L		09/09/20 03:47		1
1,2,3-Trichloropropane	ND		1.0		ug/L		09/09/20 03:47		1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L		09/09/20 03:47		1
1,2-Dibromoethane	ND		1.0		ug/L		09/09/20 03:47		1
1,2-Dichlorobenzene	ND		0.50		ug/L		09/09/20 03:47		1
1,2-Dichloroethane	ND		0.50		ug/L		09/09/20 03:47		1
1,2-Dichloropropane	ND		0.50		ug/L		09/09/20 03:47		1
1,4-Dichlorobenzene	ND		0.50		ug/L		09/09/20 03:47		1
2-Butanone (MEK)	ND		6.0		ug/L		09/09/20 03:47		1
2-Hexanone	ND		5.0		ug/L		09/09/20 03:47		1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L		09/09/20 03:47		1
Acetone	ND		10		ug/L		09/09/20 03:47		1
Acrylonitrile	ND		20		ug/L		09/09/20 03:47		1
Benzene	ND		0.50		ug/L		09/09/20 03:47		1
Bromochloromethane	ND		0.50		ug/L		09/09/20 03:47		1
Bromodichloromethane	ND		0.50		ug/L		09/09/20 03:47		1
Bromoform	ND		0.50		ug/L		09/09/20 03:47		1
Bromomethane	ND		0.50		ug/L		09/09/20 03:47		1
Carbon disulfide	ND		0.50		ug/L		09/09/20 03:47		1
Carbon tetrachloride	ND		0.50		ug/L		09/09/20 03:47		1
Chlorobenzene	ND		0.50		ug/L		09/09/20 03:47		1
Chloroethane	ND		0.50		ug/L		09/09/20 03:47		1

Eurofins TestAmerica, Denver

# Client Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

Client Sample ID: TRIP BLANK							Lab Sample ID: 280-139903-3			
Date Collected: 08/27/20 13:45							Matrix: Water			
Date Received: 08/28/20 09:30										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloroform	ND		0.50	ug/L				09/09/20 03:47	1	
Chloromethane	ND		0.50	ug/L				09/09/20 03:47	1	
cis-1,2-Dichloroethene	ND		0.50	ug/L				09/09/20 03:47	1	
cis-1,3-Dichloropropene	ND		0.50	ug/L				09/09/20 03:47	1	
cis-1,4-Dichloro-2-butene	ND		3.0	ug/L				09/09/20 03:47	1	
Dibromochloromethane	ND		0.50	ug/L				09/09/20 03:47	1	
Dibromomethane	ND		0.50	ug/L				09/09/20 03:47	1	
Dichlorodifluoromethane	ND		2.0	ug/L				09/09/20 03:47	1	
Ethylbenzene	ND		1.0	ug/L				09/09/20 03:47	1	
Iodomethane	ND		1.0	ug/L				09/09/20 03:47	1	
Methylene Chloride	ND		2.0	ug/L				09/09/20 03:47	1	
m-Xylene & p-Xylene	ND		0.50	ug/L				09/09/20 03:47	1	
o-Xylene	ND		0.50	ug/L				09/09/20 03:47	1	
Styrene	ND		0.50	ug/L				09/09/20 03:47	1	
Tetrachloroethene	ND		0.50	ug/L				09/09/20 03:47	1	
Toluene	ND		0.50	ug/L				09/09/20 03:47	1	
trans-1,2-Dichloroethene	ND		0.50	ug/L				09/09/20 03:47	1	
trans-1,3-Dichloropropene	ND		0.50	ug/L				09/09/20 03:47	1	
trans-1,4-Dichloro-2-butene	ND		3.0	ug/L				09/09/20 03:47	1	
Trichloroethene	ND		0.50	ug/L				09/09/20 03:47	1	
Trichlorofluoromethane	ND		0.50	ug/L				09/09/20 03:47	1	
Vinyl acetate	ND		3.0	ug/L				09/09/20 03:47	1	
Vinyl chloride	ND		0.50	ug/L				09/09/20 03:47	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
1,2-Dichloroethane-d4 (Surr)	99		70 - 127					09/09/20 03:47	1	
4-Bromofluorobenzene (Surr)	100		78 - 120					09/09/20 03:47	1	
Dibromofluoromethane (Surr)	100		77 - 120					09/09/20 03:47	1	
Toluene-d8 (Surr)	98		80 - 125					09/09/20 03:47	1	

## Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: HVL-082720-23							Lab Sample ID: 280-139903-1			
Date Collected: 08/27/20 13:45							Matrix: Water			
Date Received: 08/28/20 09:30										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Sulfate	11		0.20	mg/L				09/16/20 00:20	1	
Client Sample ID: HVL-082720-24							Lab Sample ID: 280-139903-2			
Date Collected: 08/27/20 14:15							Matrix: Water			
Date Received: 08/28/20 09:30										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Sulfate	9.8		0.20	mg/L				09/16/20 01:24	1	

## Method: 300.0 - Anions, Ion Chromatography - DL

Client Sample ID: HVL-082720-23							Lab Sample ID: 280-139903-1			
Date Collected: 08/27/20 13:45							Matrix: Water			
Date Received: 08/28/20 09:30										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6.8		1.2	mg/L				09/16/20 00:36	20	

Eurofins TestAmerica, Denver

# Client Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## Method: 300.0 - Anions, Ion Chromatography - DL

**Client Sample ID: HVL-082720-24**

**Date Collected: 08/27/20 14:15**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-2**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.5		1.2		mg/L			09/16/20 01:40	20

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

**Client Sample ID: HVL-082720-23**

**Date Collected: 08/27/20 13:45**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Total	ND		0.0050		mg/L				1
Manganese, Total	ND		0.0010		mg/L				1
Zinc, Total	0.014		0.010		mg/L				1

**Client Sample ID: HVL-082720-24**

**Date Collected: 08/27/20 14:15**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-2**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Total	ND		0.0050		mg/L				1
Manganese, Total	0.0011		0.0010		mg/L				1
Zinc, Total	ND		0.010		mg/L				1

## General Chemistry

**Client Sample ID: HVL-082720-23**

**Date Collected: 08/27/20 13:45**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.1		0.20		mg/L			08/28/20 19:07	1
Nitrite as N	ND		0.50		mg/L			08/28/20 19:07	1
Ammonia	ND		0.10		mg/L			09/12/20 15:03	1
Chemical Oxygen Demand	ND		10		mg/L			09/08/20 09:22	1
Total Organic Carbon - Quad	ND		1.0		mg/L			09/11/20 05:36	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	5.0		5.0		PCU			08/28/20 23:31	1

**Client Sample ID: HVL-082720-24**

**Date Collected: 08/27/20 14:15**

**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-2**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.4		0.20		mg/L			08/28/20 20:13	1
Nitrite as N	ND		0.50		mg/L			08/28/20 20:13	1
Ammonia	ND		0.10		mg/L			09/12/20 15:17	1
Chemical Oxygen Demand	ND		10		mg/L			09/08/20 09:22	1
Total Organic Carbon - Quad	ND		1.0		mg/L			09/11/20 05:51	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.0		PCU			08/28/20 23:31	1

Eurofins TestAmerica, Denver

# Client Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## Method: LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr - General Subcontract Method)

Client Sample ID: HVL-082720-23

Date Collected: 08/27/20 13:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139903-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	10	10	µg/L	D	09/14/20 11:13	09/15/20 03:32	1

Client Sample ID: HVL-082720-24

Date Collected: 08/27/20 14:15

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139903-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	10	10	µg/L	D	09/14/20 11:13	09/15/20 03:37	1

# Surrogate Summary

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (70-127)	BFB (78-120)	DBFM (77-120)	TOL (80-125)						
280-139903-1	HVL-082720-23	101	100	102	100						
280-139903-2	HVL-082720-24	101	101	101	99						
280-139903-3	TRIP BLANK	99	100	100	98						
LCS 280-508332/4	Lab Control Sample	99	99	100	98						
LCSD 280-508332/5	Lab Control Sample Dup	100	99	101	98						
MB 280-508332/9	Method Blank	100	101	100	100						

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

**Lab Sample ID: MB 280-508332/9**

**Matrix: Water**

**Analysis Batch: 508332**

**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		0.50		ug/L			09/08/20 23:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/08/20 23:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/08/20 23:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/08/20 23:09	1
1,1-Dichloroethane	ND		0.50		ug/L			09/08/20 23:09	1
1,1-Dichloroethene	ND		0.50		ug/L			09/08/20 23:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/08/20 23:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/08/20 23:09	1
1,2-Dibromoethane	ND		1.0		ug/L			09/08/20 23:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/08/20 23:09	1
1,2-Dichloroethane	ND		0.50		ug/L			09/08/20 23:09	1
1,2-Dichloropropane	ND		0.50		ug/L			09/08/20 23:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/08/20 23:09	1
2-Butanone (MEK)	ND		6.0		ug/L			09/08/20 23:09	1
2-Hexanone	ND		5.0		ug/L			09/08/20 23:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/08/20 23:09	1
Acetone	ND		10		ug/L			09/08/20 23:09	1
Acrylonitrile	ND		20		ug/L			09/08/20 23:09	1
Benzene	ND		0.50		ug/L			09/08/20 23:09	1
Bromochloromethane	ND		0.50		ug/L			09/08/20 23:09	1
Bromodichloromethane	ND		0.50		ug/L			09/08/20 23:09	1
Bromoform	ND		0.50		ug/L			09/08/20 23:09	1
Bromomethane	ND		0.50		ug/L			09/08/20 23:09	1
Carbon disulfide	ND		0.50		ug/L			09/08/20 23:09	1
Carbon tetrachloride	ND		0.50		ug/L			09/08/20 23:09	1
Chlorobenzene	ND		0.50		ug/L			09/08/20 23:09	1
Chloroethane	ND		0.50		ug/L			09/08/20 23:09	1
Chloroform	ND		0.50		ug/L			09/08/20 23:09	1
Chloromethane	ND		0.50		ug/L			09/08/20 23:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/08/20 23:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/08/20 23:09	1
cis-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/08/20 23:09	1
Dibromochloromethane	ND		0.50		ug/L			09/08/20 23:09	1
Dibromomethane	ND		0.50		ug/L			09/08/20 23:09	1
Dichlorodifluoromethane	ND		2.0		ug/L			09/08/20 23:09	1
Ethylbenzene	ND		1.0		ug/L			09/08/20 23:09	1
Iodomethane	ND		1.0		ug/L			09/08/20 23:09	1
Methylene Chloride	ND		2.0		ug/L			09/08/20 23:09	1
m-Xylene & p-Xylene	ND		0.50		ug/L			09/08/20 23:09	1
o-Xylene	ND		0.50		ug/L			09/08/20 23:09	1
Styrene	ND		0.50		ug/L			09/08/20 23:09	1
Tetrachloroethene	ND		0.50		ug/L			09/08/20 23:09	1
Toluene	ND		0.50		ug/L			09/08/20 23:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/08/20 23:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/08/20 23:09	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/08/20 23:09	1
Trichloroethene	ND		0.50		ug/L			09/08/20 23:09	1
Trichlorofluoromethane	ND		0.50		ug/L			09/08/20 23:09	1

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# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

**Lab Sample ID: MB 280-508332/9**

**Matrix: Water**

**Analysis Batch: 508332**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl acetate	ND		3.0		ug/L			09/08/20 23:09	1
Vinyl chloride	ND		0.50		ug/L			09/08/20 23:09	1
<b>Surrogate</b>									
1,2-Dichloroethane-d4 (Surr)	100		70 - 127				Prepared	09/08/20 23:09	1
4-Bromofluorobenzene (Surr)	101		78 - 120					09/08/20 23:09	1
Dibromofluoromethane (Surr)	100		77 - 120					09/08/20 23:09	1
Toluene-d8 (Surr)	100		80 - 125					09/08/20 23:09	1

**Lab Sample ID: LCS 280-508332/4**

**Matrix: Water**

**Analysis Batch: 508332**

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

Analyte	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
	%Recovery	Qualifier							
1,1,1,2-Tetrachloroethane			25.0	26.4		ug/L		106	65 - 135
1,1,1-Trichloroethane			25.0	27.8		ug/L		111	65 - 135
1,1,2,2-Tetrachloroethane			25.0	24.2		ug/L		97	58 - 135
1,1,2-Trichloroethane			25.0	26.0		ug/L		104	64 - 135
1,1-Dichloroethane			25.0	26.1		ug/L		104	65 - 135
1,1-Dichloroethene			25.0	25.6		ug/L		102	65 - 136
1,2,3-Trichloropropane			25.0	24.6		ug/L		99	65 - 135
1,2-Dibromo-3-Chloropropane			25.0	24.6		ug/L		98	57 - 135
1,2-Dibromoethane			25.0	24.9		ug/L		100	65 - 135
1,2-Dichlorobenzene			25.0	25.1		ug/L		100	65 - 135
1,2-Dichloroethane			25.0	26.0		ug/L		104	65 - 135
1,2-Dichloropropane			25.0	27.1		ug/L		109	64 - 135
1,4-Dichlorobenzene			25.0	25.5		ug/L		102	65 - 135
2-Butanone (MEK)	100			90.2		ug/L		90	44 - 177
2-Hexanone	100			94.2		ug/L		94	57 - 139
4-Methyl-2-pentanone (MIBK)	100			96.3		ug/L		96	60 - 150
Acetone	100			97.1		ug/L		97	39 - 156
Acrylonitrile			250	243		ug/L		97	56 - 135
Benzene			25.0	25.7		ug/L		103	65 - 135
Bromochloromethane			25.0	25.2		ug/L		101	65 - 135
Bromodichloromethane			25.0	27.6		ug/L		110	65 - 135
Bromoform			25.0	23.3		ug/L		93	62 - 135
Bromomethane			25.0	28.6		ug/L		115	45 - 135
Carbon disulfide			25.0	24.8		ug/L		99	55 - 143
Carbon tetrachloride			25.0	28.1		ug/L		112	65 - 135
Chlorobenzene			25.0	25.8		ug/L		103	65 - 135
Chloroethane			25.0	26.5		ug/L		106	46 - 136
Chloroform			25.0	26.6		ug/L		106	65 - 135
Chloromethane			25.0	23.6		ug/L		94	34 - 145
cis-1,2-Dichloroethene			25.0	27.1		ug/L		109	65 - 135
cis-1,3-Dichloropropene			25.0	27.3		ug/L		109	65 - 135
Dibromochloromethane			25.0	27.1		ug/L		109	65 - 135
Dibromomethane			25.0	26.1		ug/L		104	65 - 135
Dichlorodifluoromethane			25.0	29.0		ug/L		116	43 - 142

Eurofins TestAmerica, Denver

# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

**Lab Sample ID: LCS 280-508332/4**

**Matrix: Water**

**Analysis Batch: 508332**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Ethylbenzene	25.0	26.1		ug/L		104	65 - 135	
Iodomethane	25.0	21.6		ug/L		86	65 - 142	
Methylene Chloride	25.0	24.1		ug/L		96	54 - 141	
m-Xylene & p-Xylene	25.0	26.0		ug/L		104	65 - 135	
o-Xylene	25.0	25.9		ug/L		104	65 - 135	
Styrene	25.0	26.6		ug/L		106	65 - 135	
Tetrachloroethene	25.0	27.3		ug/L		109	65 - 135	
Toluene	25.0	26.4		ug/L		106	65 - 135	
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	65 - 135	
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	65 - 135	
trans-1,4-Dichloro-2-butene	25.0	28.1		ug/L		112	53 - 135	
Trichloroethene	25.0	26.1		ug/L		104	65 - 135	
Trichlorofluoromethane	25.0	28.7		ug/L		115	53 - 137	
Vinyl acetate	50.0	77.0		ug/L		154	11 - 187	
Vinyl chloride	25.0	28.0		ug/L		112	40 - 137	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120
Toluene-d8 (Surr)	98		80 - 125

**Lab Sample ID: LCSD 280-508332/5**

**Matrix: Water**

**Analysis Batch: 508332**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	65 - 135	1	20	
1,1,1-Trichloroethane	25.0	28.4		ug/L		114	65 - 135	2	20	
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	58 - 135	4	20	
1,1,2-Trichloroethane	25.0	26.1		ug/L		104	64 - 135	0	27	
1,1-Dichloroethane	25.0	26.3		ug/L		105	65 - 135	1	21	
1,1-Dichloroethene	25.0	25.4		ug/L		102	65 - 136	1	20	
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	65 - 135	3	23	
1,2-Dibromo-3-Chloropropane	25.0	25.7		ug/L		103	57 - 135	4	22	
1,2-Dibromoethane	25.0	25.2		ug/L		101	65 - 135	1	27	
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	65 - 135	0	20	
1,2-Dichloroethane	25.0	25.8		ug/L		103	65 - 135	1	20	
1,2-Dichloropropane	25.0	27.1		ug/L		108	64 - 135	0	20	
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	65 - 135	1	23	
2-Butanone (MEK)	100	100		ug/L		100	44 - 177	11	32	
2-Hexanone	100	107		ug/L		107	57 - 139	12	25	
4-Methyl-2-pentanone (MIBK)	100	106		ug/L		106	60 - 150	10	22	
Acetone	100	104		ug/L		104	39 - 156	7	23	
Acrylonitrile	250	259		ug/L		104	56 - 135	7	30	
Benzene	25.0	25.9		ug/L		104	65 - 135	1	20	
Bromochloromethane	25.0	25.2		ug/L		101	65 - 135	0	29	
Bromodichloromethane	25.0	27.8		ug/L		111	65 - 135	1	20	

Eurofins TestAmerica, Denver

# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

Lab Sample ID: LCSD 280-508332/5

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

Matrix: Water

Analysis Batch: 508332

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD	RPD Limit
Bromoform	25.0	23.8		ug/L	95	62 - 135	2	27	
Bromomethane	25.0	26.9		ug/L	107	45 - 135	6	33	
Carbon disulfide	25.0	24.7		ug/L	99	55 - 143	0	20	
Carbon tetrachloride	25.0	28.3		ug/L	113	65 - 135	1	21	
Chlorobenzene	25.0	26.3		ug/L	105	65 - 135	2	20	
Chloroethane	25.0	26.1		ug/L	104	46 - 136	2	25	
Chloroform	25.0	26.4		ug/L	106	65 - 135	1	20	
Chloromethane	25.0	23.1		ug/L	93	34 - 145	2	24	
cis-1,2-Dichloroethene	25.0	27.3		ug/L	109	65 - 135	1	20	
cis-1,3-Dichloropropene	25.0	26.9		ug/L	108	65 - 135	1	26	
Dibromochloromethane	25.0	27.0		ug/L	108	65 - 135	0	20	
Dibromomethane	25.0	26.4		ug/L	105	65 - 135	1	26	
Dichlorodifluoromethane	25.0	28.5		ug/L	114	43 - 142	2	30	
Ethylbenzene	25.0	26.5		ug/L	106	65 - 135	1	20	
Iodomethane	25.0	22.3		ug/L	89	65 - 142	3	25	
Methylene Chloride	25.0	23.9		ug/L	96	54 - 141	1	26	
m-Xylene & p-Xylene	25.0	26.1		ug/L	104	65 - 135	1	20	
o-Xylene	25.0	26.3		ug/L	105	65 - 135	1	20	
Styrene	25.0	26.6		ug/L	106	65 - 135	0	26	
Tetrachloroethene	25.0	27.0		ug/L	108	65 - 135	1	20	
Toluene	25.0	26.9		ug/L	107	65 - 135	2	20	
trans-1,2-Dichloroethene	25.0	27.3		ug/L	109	65 - 135	2	24	
trans-1,3-Dichloropropene	25.0	26.4		ug/L	106	65 - 135	1	26	
trans-1,4-Dichloro-2-butene	25.0	29.1		ug/L	117	53 - 135	4	25	
Trichloroethene	25.0	26.4		ug/L	105	65 - 135	1	20	
Trichlorofluoromethane	25.0	27.7		ug/L	111	53 - 137	3	27	
Vinyl acetate	50.0	79.7		ug/L	159	11 - 187	4	24	
Vinyl chloride	25.0	27.3		ug/L	109	40 - 137	2	24	

*LCSD LCSD*

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 127
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120
Toluene-d8 (Surr)	98		80 - 125

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-482469/9

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

Matrix: Water

Analysis Batch: 482469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20		mg/L			09/15/20 12:42	1
Sulfate	ND		0.20		mg/L			09/15/20 12:42	1

Eurofins TestAmerica, Denver

# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

**Lab Sample ID: LCS 160-482469/10**

**Matrix: Water**

**Analysis Batch: 482469**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.97		mg/L	99	90 - 110	
Sulfate	8.00	7.87		mg/L	98	90 - 110	

**Lab Sample ID: 280-139903-2 MS**

**Matrix: Water**

**Analysis Batch: 482469**

**Client Sample ID: HVL-082720-24**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	9.8		4.00	13.9		mg/L	102	90 - 110	

**Lab Sample ID: 280-139903-2 DU**

**Matrix: Water**

**Analysis Batch: 482469**

**Client Sample ID: HVL-082720-24**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	9.8			9.81		mg/L		0.3	20

## Method: 300.0 - Anions, Ion Chromatography - DL

**Lab Sample ID: 280-139903-2 DU**

**Matrix: Water**

**Analysis Batch: 482469**

**Client Sample ID: HVL-082720-24**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride - DL	5.5			5.90		mg/L		7	20

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

**Lab Sample ID: MB 280-507480/1-A**

**Matrix: Water**

**Analysis Batch: 508168**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 507480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Total	ND		0.0050		mg/L		09/02/20 08:18	09/04/20 16:40	1
Manganese, Total	ND		0.0010		mg/L		09/02/20 08:18	09/04/20 16:40	1

**Lab Sample ID: MB 280-507480/1-A**

**Matrix: Water**

**Analysis Batch: 508360**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 507480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc, Total	ND		0.010		mg/L		09/02/20 08:18	09/08/20 15:45	1

**Lab Sample ID: LCS 280-507480/2-A**

**Matrix: Water**

**Analysis Batch: 508168**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 507480**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic, Total	0.0400	0.0403		mg/L	101	85 - 117	
Manganese, Total	0.0400	0.0434		mg/L	108	85 - 117	

Eurofins TestAmerica, Denver

# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

Lab Sample ID: LCS 280-507480/2-A Matrix: Water Analysis Batch: 508360				Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 507480							
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits			
Zinc, Total		0.0400	0.0393		mg/L		98	83 - 122			
Lab Sample ID: 280-139903-1 MS Matrix: Water Analysis Batch: 508168				Client Sample ID: HVL-082720-23 Prep Type: Total/NA Prep Batch: 507480							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits		
Arsenic, Total	ND		0.0400	0.0391		mg/L		96	85 - 117		
Manganese, Total	ND		0.0400	0.0440		mg/L		109	85 - 117		
Lab Sample ID: 280-139903-1 MS Matrix: Water Analysis Batch: 508360				Client Sample ID: HVL-082720-23 Prep Type: Total/NA Prep Batch: 507480							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits		
Zinc, Total	0.014		0.0400	0.0483		mg/L		87	83 - 122		
Lab Sample ID: 280-139903-1 MSD Matrix: Water Analysis Batch: 508168				Client Sample ID: HVL-082720-23 Prep Type: Total/NA Prep Batch: 507480							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
Arsenic, Total	ND		0.0400	0.0398		mg/L		98	85 - 117	2	20
Manganese, Total	ND		0.0400	0.0428		mg/L		106	85 - 117	3	20
Lab Sample ID: 280-139903-1 MSD Matrix: Water Analysis Batch: 508360				Client Sample ID: HVL-082720-23 Prep Type: Total/NA Prep Batch: 507480							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
Zinc, Total	0.014		0.0400	0.0476		mg/L		85	83 - 122	2	20

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-507207/6 Matrix: Water Analysis Batch: 507207				Client Sample ID: Method Blank Prep Type: Total/NA							
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Nitrate as N	ND		0.20		mg/L			08/28/20 11:44		1	
Nitrite as N	ND		0.50		mg/L			08/28/20 11:44		1	
Lab Sample ID: LCS 280-507207/4 Matrix: Water Analysis Batch: 507207				Client Sample ID: Lab Control Sample Prep Type: Total/NA							
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits			
Nitrate as N		5.00	4.88		mg/L		98	90 - 110			
Nitrite as N		5.00	4.93		mg/L		99	90 - 110			

Eurofins TestAmerica, Denver

# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

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

**Lab Sample ID: LCSD 280-507207/5**

**Matrix: Water**

**Analysis Batch: 507207**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	5.00	4.90		mg/L		98	90 - 110	0	10
Nitrite as N	5.00	4.98		mg/L		100	90 - 110	1	10

**Lab Sample ID: MRL 280-507207/3**

**Matrix: Water**

**Analysis Batch: 507207**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.500	ND		mg/L		99	50 - 150
Nitrite as N	0.500	0.509		mg/L		102	50 - 150

**Lab Sample ID: 280-139903-1 MS**

**Matrix: Water**

**Analysis Batch: 507207**

**Client Sample ID: HVL-082720-23**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.1		5.00	7.57		mg/L		109	80 - 120
Nitrite as N	ND		5.00	5.26		mg/L		105	80 - 120

**Lab Sample ID: 280-139903-1 MSD**

**Matrix: Water**

**Analysis Batch: 507207**

**Client Sample ID: HVL-082720-23**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.1		5.00	7.55		mg/L		109	80 - 120	0	20
Nitrite as N	ND		5.00	5.35		mg/L		107	80 - 120	2	20

**Lab Sample ID: 280-139903-1 DU**

**Matrix: Water**

**Analysis Batch: 507207**

**Client Sample ID: HVL-082720-23**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	2.1		2.14		mg/L		1	15
Nitrite as N	ND		ND		mg/L		NC	15

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 280-508862/62**

**Matrix: Water**

**Analysis Batch: 508862**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.10		mg/L			09/12/20 14:55	1

**Lab Sample ID: LCS 280-508862/61**

**Matrix: Water**

**Analysis Batch: 508862**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.51		mg/L		100	90 - 110

Eurofins TestAmerica, Denver

# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## **Method: 350.1 - Nitrogen, Ammonia (Continued)**

**Lab Sample ID: 280-140119-A-1 MS**

**Matrix: Water**

**Analysis Batch: 508862**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits		
Ammonia	ND	F1 F2	1.00	0.871	F1	mg/L	85	90 - 110			

**Lab Sample ID: 280-140119-A-1 MSD**

**Matrix: Water**

**Analysis Batch: 508862**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
Ammonia	ND	F1 F2	1.00	1.00	F2	mg/L	98	90 - 110		14	10

## **Method: 410.4 - COD**

**Lab Sample ID: MB 280-508210/5**

**Matrix: Water**

**Analysis Batch: 508210**

**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		10		mg/L			09/08/20 09:22	1

**Lab Sample ID: LCS 280-508210/3**

**Matrix: Water**

**Analysis Batch: 508210**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Chemical Oxygen Demand	100	102		mg/L	102	90 - 110	

**Lab Sample ID: LCSD 280-508210/4**

**Matrix: Water**

**Analysis Batch: 508210**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
Chemical Oxygen Demand	100	99.1		mg/L	99	90 - 110		2	11

**Lab Sample ID: 280-139903-1 MS**

**Matrix: Water**

**Analysis Batch: 508210**

**Client Sample ID: HVL-082720-23**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Chemical Oxygen Demand	ND		50.0	47.4		mg/L	95	90 - 110	

**Lab Sample ID: 280-139903-1 MSD**

**Matrix: Water**

**Analysis Batch: 508210**

**Client Sample ID: HVL-082720-23**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
Chemical Oxygen Demand	ND		50.0	45.3		mg/L	91	90 - 110		5	11

Eurofins TestAmerica, Denver

# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## Method: SM 2120B - Color, Colorimetric

**Lab Sample ID:** MB 280-507280/1

**Matrix:** Water

**Analysis Batch:** 507280

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.0		PCU			08/28/20 23:31	1

**Lab Sample ID:** 280-139903-1 DU

**Matrix:** Water

**Analysis Batch:** 507280

**Client Sample ID:** HVL-082720-23  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Color	5.0		5.00		PCU		0	20

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

**Lab Sample ID:** MB 280-508773/35

**Matrix:** Water

**Analysis Batch:** 508773

**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 - Quad	ND		1.0		mg/L			09/11/20 00:22	1

**Lab Sample ID:** LCS 280-508773/34

**Matrix:** Water

**Analysis Batch:** 508773

**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 - Quad	25.0	23.8		mg/L		95	88 - 112

**Lab Sample ID:** 280-139814-C-12 MS

**Matrix:** Water

**Analysis Batch:** 508773

**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
Total Organic Carbon - Quad	ND		25.0	24.7		mg/L		99	88 - 112

**Lab Sample ID:** 280-139814-C-12 MSD

**Matrix:** Water

**Analysis Batch:** 508773

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD Limit
Total Organic Carbon - Quad	ND		25.0	24.7		mg/L		99	88 - 112

## Method: LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr - General Subcontract Method)

**Lab Sample ID:** F009359-BLK1

**Matrix:** Water

**Analysis Batch:** F009359

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** F009359\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	5		µg/L		09/14/20 11:13	09/14/20 22:01	1

Eurofins TestAmerica, Denver

# QC Sample Results

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## Method: LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr - General Subcontract Method (Continued))

**Lab Sample ID: F009359-BLK2**

**Matrix: Water**

**Analysis Batch: F009359**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: F009359\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	5	µg/L		09/14/20 11:13	09/14/20 22:06		1

**Lab Sample ID: F009359-BS1**

**Matrix: Water**

**Analysis Batch: F009359**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: F009359\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Iron	1250	1278		µg/L	102	85 - 115	

**Lab Sample ID: F009359-BSD1**

**Matrix: Water**

**Analysis Batch: F009359**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: F009359\_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec.	RPD	Limit
Iron	1250	1266		µg/L	101	85 - 115	0.921	20

**Lab Sample ID: F009359-MS1**

**Matrix: Water**

**Analysis Batch: F009359**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: F009359\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec.	Limits
Iron	2868		1250	4411	E	µg/L	123	70 - 130	

**Lab Sample ID: F009359-MS2**

**Matrix: Water**

**Analysis Batch: F009359**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: F009359\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec.	Limits
Iron	ND		2500	2398		µg/L	95.9	70 - 130	

**Lab Sample ID: F009359-MSD1**

**Matrix: Water**

**Analysis Batch: F009359**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: F009359\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	ix Spike Dup Result	Matrix Spike D Qualifier	Unit	D	%Rec.	RPD	Limit
Iron	2868		1250	4093	E	µg/L	98	70 - 130	7.49	20

**Lab Sample ID: F009359-MSD2**

**Matrix: Water**

**Analysis Batch: F009359**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: F009359\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	ix Spike Dup Result	Matrix Spike D Qualifier	Unit	D	%Rec.	RPD	Limit
Iron	ND		2500	2424		µg/L	96.9	70 - 130	1.06	20

Eurofins TestAmerica, Denver

# QC Association Summary

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## GC/MS VOA

### Analysis Batch: 508332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	8260B	
280-139903-2	HVL-082720-24	Total/NA	Water	8260B	
280-139903-3	TRIP BLANK	Total/NA	Water	8260B	
MB 280-508332/9	Method Blank	Total/NA	Water	8260B	
LCS 280-508332/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-508332/5	Lab Control Sample Dup	Total/NA	Water	8260B	

## HPLC/IC

### Analysis Batch: 482469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	300.0	
280-139903-1 - DL	HVL-082720-23	Total/NA	Water	300.0	
280-139903-2	HVL-082720-24	Total/NA	Water	300.0	
280-139903-2 - DL	HVL-082720-24	Total/NA	Water	300.0	
MB 160-482469/9	Method Blank	Total/NA	Water	300.0	
LCS 160-482469/10	Lab Control Sample	Total/NA	Water	300.0	
280-139903-2 MS	HVL-082720-24	Total/NA	Water	300.0	
280-139903-2 DU	HVL-082720-24	Total/NA	Water	300.0	
280-139903-2 DU - DL	HVL-082720-24	Total/NA	Water	300.0	

## Metals

### Prep Batch: 507480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	3020A	
280-139903-2	HVL-082720-24	Total/NA	Water	3020A	
MB 280-507480/1-A	Method Blank	Total/NA	Water	3020A	
LCS 280-507480/2-A	Lab Control Sample	Total/NA	Water	3020A	
280-139903-1 MS	HVL-082720-23	Total/NA	Water	3020A	
280-139903-1 MSD	HVL-082720-23	Total/NA	Water	3020A	

### Analysis Batch: 508168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	6020	507480
280-139903-2	HVL-082720-24	Total/NA	Water	6020	507480
MB 280-507480/1-A	Method Blank	Total/NA	Water	6020	507480
LCS 280-507480/2-A	Lab Control Sample	Total/NA	Water	6020	507480
280-139903-1 MS	HVL-082720-23	Total/NA	Water	6020	507480
280-139903-1 MSD	HVL-082720-23	Total/NA	Water	6020	507480

### Analysis Batch: 508360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	6020	507480
280-139903-2	HVL-082720-24	Total/NA	Water	6020	507480
MB 280-507480/1-A	Method Blank	Total/NA	Water	6020	507480
LCS 280-507480/2-A	Lab Control Sample	Total/NA	Water	6020	507480
280-139903-1 MS	HVL-082720-23	Total/NA	Water	6020	507480
280-139903-1 MSD	HVL-082720-23	Total/NA	Water	6020	507480

# QC Association Summary

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## General Chemistry

### Analysis Batch: 507207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	300.0	
280-139903-2	HVL-082720-24	Total/NA	Water	300.0	
MB 280-507207/6	Method Blank	Total/NA	Water	300.0	
LCS 280-507207/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-507207/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-507207/3	Lab Control Sample	Total/NA	Water	300.0	
280-139903-1 MS	HVL-082720-23	Total/NA	Water	300.0	
280-139903-1 MSD	HVL-082720-23	Total/NA	Water	300.0	
280-139903-1 DU	HVL-082720-23	Total/NA	Water	300.0	

### Analysis Batch: 507280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	SM 2120B	
280-139903-2	HVL-082720-24	Total/NA	Water	SM 2120B	
MB 280-507280/1	Method Blank	Total/NA	Water	SM 2120B	
280-139903-1 DU	HVL-082720-23	Total/NA	Water	SM 2120B	

### Analysis Batch: 508210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	410.4	
280-139903-2	HVL-082720-24	Total/NA	Water	410.4	
MB 280-508210/5	Method Blank	Total/NA	Water	410.4	
LCS 280-508210/3	Lab Control Sample	Total/NA	Water	410.4	
LCSD 280-508210/4	Lab Control Sample Dup	Total/NA	Water	410.4	
280-139903-1 MS	HVL-082720-23	Total/NA	Water	410.4	
280-139903-1 MSD	HVL-082720-23	Total/NA	Water	410.4	

### Analysis Batch: 508773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	SM 5310B	
280-139903-2	HVL-082720-24	Total/NA	Water	SM 5310B	
MB 280-508773/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-508773/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-139814-C-12 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-139814-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

### Analysis Batch: 508862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	350.1	
280-139903-2	HVL-082720-24	Total/NA	Water	350.1	
MB 280-508862/62	Method Blank	Total/NA	Water	350.1	
LCS 280-508862/61	Lab Control Sample	Total/NA	Water	350.1	
280-140119-A-1 MS	Matrix Spike	Total/NA	Water	350.1	
280-140119-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

## Subcontract

### Analysis Batch: F009359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P

Eurofins TestAmerica, Denver

# QC Association Summary

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## Subcontract (Continued)

### Analysis Batch: F009359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-2	HVL-082720-24	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P
F009359-BLK1	Method Blank	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P
F009359-BLK2	Method Blank	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P
F009359-BS1	Lab Control Sample	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P
F009359-BSD1	Lab Control Sample Dup	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P
F009359-MS1	Matrix Spike	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P
F009359-MS2	Matrix Spike	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P
F009359-MSD1	Matrix Spike Duplicate	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P
F009359-MSD2	Matrix Spike Duplicate	Total/NA	Water	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)	F009359_P

### Prep Batch: F009359\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139903-1	HVL-082720-23	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
280-139903-2	HVL-082720-24	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
F009359-BLK1	Method Blank	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
F009359-BLK2	Method Blank	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
F009359-BS1	Lab Control Sample	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
F009359-BSD1	Lab Control Sample Dup	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
F009359-MS1	Matrix Spike	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	

Eurofins TestAmerica, Denver

# QC Association Summary

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

## Subcontract (Continued)

### Prep Batch: F009359\_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
F009359-MS2	Matrix Spike	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	5
F009359-MSD1	Matrix Spike Duplicate	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	6
F009359-MSD2	Matrix Spike Duplicate	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	8

# Lab Chronicle

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

**Client Sample ID: HVL-082720-23**  
**Date Collected: 08/27/20 13:45**  
**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-1**  
**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	5 mL	5 mL	508332	09/09/20 03:05	PP	TAL DEN
Total/NA	Analysis	300.0		1			482469	09/16/20 00:20	LTC	TAL SL
Total/NA	Analysis	300.0	DL	20			482469	09/16/20 00:36	LTC	TAL SL
Total/NA	Prep	3020A			50 mL	50 mL	507480	09/02/20 08:18	EAS	TAL DEN
Total/NA	Analysis	6020		1			508168	09/04/20 16:47	LMT	TAL DEN
Total/NA	Prep	3020A			50 mL	50 mL	507480	09/02/20 08:18	EAS	TAL DEN
Total/NA	Analysis	6020		1			508360	09/08/20 15:52	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	507207	08/28/20 19:07	BWH	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	508862	09/12/20 15:03	BWH	TAL DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	508210	09/08/20 09:22	SPG	TAL DEN
Total/NA	Analysis	SM 2120B		1	50 mL	50 mL	507280	08/28/20 23:31	CKB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	508773	09/11/20 05:36	JMB	TAL DEN
Total/NA	Prep	EFGS SOP2836 Closed Vessel Water Oven Digestion		1			F009359_P	09/14/20 11:13		FrontierGe
Total/NA	Analysis	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)		1			F009359	09/15/20 03:32	MGS	FrontierGe

**Client Sample ID: HVL-082720-24**  
**Date Collected: 08/27/20 14:15**  
**Date Received: 08/28/20 09:30**

**Lab Sample ID: 280-139903-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	508332	09/09/20 03:26	PP	TAL DEN
Total/NA	Analysis	300.0		1			482469	09/16/20 01:24	LTC	TAL SL
Total/NA	Analysis	300.0	DL	20			482469	09/16/20 01:40	LTC	TAL SL
Total/NA	Prep	3020A			50 mL	50 mL	507480	09/02/20 08:18	EAS	TAL DEN
Total/NA	Analysis	6020		1			508168	09/04/20 17:05	LMT	TAL DEN
Total/NA	Prep	3020A			50 mL	50 mL	507480	09/02/20 08:18	EAS	TAL DEN
Total/NA	Analysis	6020		1			508360	09/08/20 16:09	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	507207	08/28/20 20:13	BWH	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	508862	09/12/20 15:17	BWH	TAL DEN
Total/NA	Analysis	410.4		1	2 mL	2 mL	508210	09/08/20 09:22	SPG	TAL DEN
Total/NA	Analysis	SM 2120B		1	50 mL	50 mL	507280	08/28/20 23:31	CKB	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	508773	09/11/20 05:51	JMB	TAL DEN
Total/NA	Prep	EFGS SOP2836 Closed Vessel Water Oven Digestion		1			F009359_P	09/14/20 11:13		FrontierGe
Total/NA	Analysis	LL Tot Fe 200.8 RL=0.3 mg/L (Eurofins Fr)		1			F009359	09/15/20 03:37	MGS	FrontierGe

Eurofins TestAmerica, Denver

# Lab Chronicle

Client: SCS Engineers  
Project/Site: Hidden Valley LF

Job ID: 280-139903-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 280-139903-3**

**Matrix: Water**

Date Collected: 08/27/20 13:45  
Date Received: 08/28/20 09:30

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	5 mL	5 mL	508332	09/09/20 03:47	PP	TAL DEN

**Laboratory References:**

FrontierGe = Frontier GeoSciences, Inc, 5755 8th Street E, Tacoma, WA 98424

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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



Frontier Global Sciences

5755 8th Street East  
Tacoma, WA 98424  
Phone: (253) 922-2310

16 September 2020

Betsy Sara  
Eurofins Test America - Denver  
4955 Yarrow Street  
Arvada, CO 80002  
RE: 200.8 Metals

Enclosed are the analytical results for samples received by Eurofins Frontier Global Sciences. All quality control measurements are within established control limits and there were no analytical difficulties encountered with the exception of those listed in the case narrative section of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Patrick Garcia-Strickland  
Business Unit Manager



## Frontier Global Sciences

5755 8th Street East  
Tacoma, WA 98424  
Phone: (253) 922-2310

Eurofins Test America - Denver  
4955 Yarrow Street  
Arvada CO, 80002

Project: 200.8 Metals  
Project Number: 28003580  
Project Manager: Betsy Sara

Reported:  
16-Sep-20 16:53

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HVL-082720-23 (280-139903-1)	0I00004-01	Water	27-Aug-20 13:45	01-Sep-20 09:30
HVL-082720-24 (280-139903-2)	0I00004-02	Water	27-Aug-20 14:15	01-Sep-20 09:30

#### SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 01-Sep-20 09:30. The samples were received intact.

#### SAMPLE PREPARATION AND ANALYSIS

Samples were prepared and analyzed for total recoverable metals by inductively coupled plasma mass spectrometry (ICP-MS) in accordance with EPA 200.8.

#### ANALYTICAL AND QUALITY CONTROL ISSUES

Method blanks were prepared for every preparation to assess possible blank contribution from the sample preparation procedure. The method blanks were carried through the entire analytical procedure. All blanks fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

Liquid spikes, certified reference material (CRM) or a quality control samples (QCS) were prepared for every preparation as a measure of accuracy. All liquid spikes, CRMs and/or QCS samples fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

As an additional measure of the accuracy of the methods used and to check for matrix interference, matrix spikes (MS) and matrix spike duplicates (MSD) were digested and analyzed. All of the matrix spike recoveries fell within the established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

A reasonable measure of the precision of the analytical methods is the relative percent difference (RPD) between a matrix spike recovery and a matrix spike duplicate recovery and between laboratory control sample recovery and laboratory control sample duplicate recoveries. All of the relative percent differences fell within established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

Eurofins Frontier Global Sciences, LLC

*The results in this report only apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Patrick Garcia-Strickland, Business Unit Manager

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## Sample Receipt Checklist

Client: TN - Denvt  
 Project: W-44

Date & Time Received: 5/12/20 9:33 Date Labeled: 5/12/20 Labeled By: VL

Received By: \_\_\_\_\_ Label Verified By: \_\_\_\_\_

# of Coolers Received: 1 Samples Arrived By: X Shipping Service \_\_\_\_\_ Courier \_\_\_\_\_ Hand \_\_\_\_\_ Other (Specify: \_\_\_\_\_)

Coolant:  None/Ambient  Loose Ice  Gel Ice  Dry Ice Coolant Required: Y/N Temp Blank Used: Y/N for Cooler(s):       

Notify Project Manager if packages/coolers are received without coolant or with thawed coolant and at a temperature in excess of 6°C. PM notified: Y/N

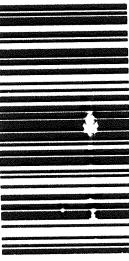
Cooler Information:	Y/N/NA	Comments	Comments
The coolers do not appear to be tampered with:	<u>Y</u>		
Custody Seals are present and intact:	<u>Y</u>		
Custody seals signed:	<u>Y</u>		

ID:	80187817 CF: -40, -40°C	Date/time: 5/12/20 9:33	By: VL
Cooler 1:	<u>-40, -40°C</u>	<u>w/ CF: -40, -40°C</u>	<u>Cooler 4: -40, -40°C</u>
Cooler 2:	<u>-40, -40°C</u>	<u>w/ CF: -40, -40°C</u>	<u>Cooler 5: -40, -40°C</u>
Cooler 3:	<u>-40, -40°C</u>	<u>w/ CF: -40, -40°C</u>	<u>Cooler 6: -40, -40°C</u>

Chain of Custody:	Y/N/NA	Comments	Comments
Sample ID/Description:	<u>Y</u>		Sample containers intact/present:
Date and time of collection:	<u>Y</u>		Sample labels are present and legible:
Sampled by:	<u>2</u>		Sample ID on container/bag matches COC:
Preservation type:	<u>2</u>		Correct sample containers used:
Requested analyses:	<u>Y</u>		Samples received within holding times:
Required signatures:	<u>Y</u>		Sample volume sufficient for requested analyses:
Internal COC required:	<u>N/A</u>		Correct preservative used for requested analyses:

Anomalies/Non-conformances (attach additional pages if needed):

01000004







Frontier Global Sciences

5755 8th Street East  
Tacoma, WA 98424  
Phone: (253) 922-2310

Eurofins Test America - Denver  
4955 Yarrow Street  
Arvada CO, 80002

Project: 200.8 Metals  
Project Number: 28003580  
Project Manager: Betsy Sara

Reported:  
16-Sep-20 16:53

**HVL-082720-23 (280-139903-1)**

**OI00004-01**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS SOP2836 Closed Vessel Water Oven Digestion**

Iron	ND	-	10	µg/L	1	F009359	14-Sep-20	0115014	15-Sep-20	EPA 200.8	U
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Patrick Garcia-Strickland, Business Unit Manager

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Eurofins Test America - Denver  
4955 Yarrow Street  
Arvada CO, 80002

Project: 200.8 Metals  
Project Number: 28003580  
Project Manager: Betsy Sara

Reported:  
16-Sep-20 16:53

**HVL-082720-24 (280-139903-2)**

**0I00004-02**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS SOP2836 Closed Vessel Water Oven Digestion**

Iron	ND	-	10	µg/L	1	F009359	14-Sep-20	0I15014	15-Sep-20	EPA 200.8	U
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Patrick Garcia-Strickland, Business Unit Manager

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Eurofins Test America - Denver  
4955 Yarrow Street  
Arvada CO, 80002

Project: 200.8 Metals  
Project Number: 28003580  
Project Manager: Betsy Sara

Reported:  
16-Sep-20 16:53

### Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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#### Batch 0I15014 - F009358

<b>Cal Standard (0I15014-CAL1)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	0.7	-		µg/L	0.50000		135
<b>Cal Standard (0I15014-CAL2)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	2	-		µg/L	2.0000		107
<b>Cal Standard (0I15014-CAL3)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	10	-		µg/L	10.000		102
<b>Cal Standard (0I15014-CAL4)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	20	-		µg/L	20.000		101
<b>Cal Standard (0I15014-CAL5)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	12	-		µg/L	12.500		99.2
<b>Cal Standard (0I15014-CAL6)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	25	-		µg/L	25.000		100
<b>Cal Standard (0I15014-CAL7)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	50	-		µg/L	50.000		99.5
<b>Cal Standard (0I15014-CAL8)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	102	-		µg/L	100.00		102
<b>Cal Standard (0I15014-CAL9)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	250	-		µg/L	250.00		99.9
<b>Cal Standard (0I15014-CALA)</b>	Prepared & Analyzed: 14-Sep-20						
Iron	504	-		µg/L	500.00		101

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Patrick Garcia-Strickland, Business Unit Manager



Frontier Global Sciences

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Eurofins Test America - Denver  
4955 Yarrow Street  
Arvada CO, 80002

Project: 200.8 Metals  
Project Number: 28003580  
Project Manager: Betsy Sara

Reported:  
16-Sep-20 16:53

### Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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#### Batch 0I15014 - F009358

Cal Standard (0I15014-CALB)						Prepared & Analyzed: 14-Sep-20					
Iron	996	-		µg/L	1000.0		99.6				
Cal Standard (0I15014-CALC)						Prepared & Analyzed: 14-Sep-20					
Iron	2001	-		µg/L	2000.0		100				
Calibration Blank (0I15014-CCB1)						Prepared & Analyzed: 14-Sep-20					
Iron	0.09	-		µg/L							
Calibration Blank (0I15014-CCB2)						Prepared & Analyzed: 14-Sep-20					
Iron	0.1	-		µg/L							
Calibration Blank (0I15014-CCB3)						Prepared: 14-Sep-20 Analyzed: 15-Sep-20					
Iron	0.1	-		µg/L							
Calibration Blank (0I15014-CCB4)						Prepared: 14-Sep-20 Analyzed: 15-Sep-20					
Iron	0.09	-		µg/L							
Calibration Blank (0I15014-CCB5)						Prepared: 14-Sep-20 Analyzed: 15-Sep-20					
Iron	0.3	-		µg/L							
Calibration Blank (0I15014-CCB6)						Prepared: 14-Sep-20 Analyzed: 15-Sep-20					
Iron	0.1	-		µg/L							
Calibration Blank (0I15014-CCB7)						Prepared: 14-Sep-20 Analyzed: 15-Sep-20					
Iron	0.1	-		µg/L							
Calibration Blank (0I15014-CCB8)						Prepared: 14-Sep-20 Analyzed: 15-Sep-20					
Iron	0.1	-		µg/L							

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Patrick Garcia-Strickland, Business Unit Manager



Frontier Global Sciences

5755 8th Street East  
Tacoma, WA 98424  
Phone: (253) 922-2310

Eurofins Test America - Denver  
4955 Yarrow Street  
Arvada CO, 80002

Project: 200.8 Metals  
Project Number: 28003580  
Project Manager: Betsy Sara

Reported:  
16-Sep-20 16:53

### Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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#### Batch 0I15014 - F009358

##### Calibration Check (0I15014-CCV1)

Prepared & Analyzed: 14-Sep-20

Iron 249 - µg/L 250.60 99.5 90-110

##### Calibration Check (0I15014-CCV2)

Prepared & Analyzed: 14-Sep-20

Iron 252 - µg/L 250.60 100 90-110

##### Calibration Check (0I15014-CCV3)

Prepared: 14-Sep-20 Analyzed: 15-Sep-20

Iron 239 - µg/L 250.60 95.2 90-110

##### Calibration Check (0I15014-CCV4)

Prepared: 14-Sep-20 Analyzed: 15-Sep-20

Iron 241 - µg/L 250.60 96.0 90-110

##### Calibration Check (0I15014-CCV5)

Prepared: 14-Sep-20 Analyzed: 15-Sep-20

Iron 239 - µg/L 250.60 95.4 90-110

##### Calibration Check (0I15014-CCV6)

Prepared: 14-Sep-20 Analyzed: 15-Sep-20

Iron 239 - µg/L 250.60 95.5 90-110

##### Calibration Check (0I15014-CCV7)

Prepared: 14-Sep-20 Analyzed: 15-Sep-20

Iron 245 - µg/L 250.60 97.6 90-110

##### Calibration Check (0I15014-CCV8)

Prepared: 14-Sep-20 Analyzed: 15-Sep-20

Iron 237 - µg/L 250.60 94.6 90-110

##### Initial Cal Blank (0I15014-ICB1)

Prepared & Analyzed: 14-Sep-20

Iron 0.1 - µg/L

##### Initial Cal Check (0I15014-ICV1)

Prepared & Analyzed: 14-Sep-20

Iron 251 - µg/L 250.60 100 90-110

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Reported:  
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### Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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#### Batch 0I15014 - F009358

Low Cal Check (0I15014-LCV3)						Prepared & Analyzed: 14-Sep-20				
Iron	0.6	-		µg/L	0.50000		122	0-200		
Low Cal Check (0I15014-LCV4)						Prepared & Analyzed: 14-Sep-20				
Iron	1	-		µg/L	1.0000		109	0-200		
Low Cal Check (0I15014-LCV5)						Prepared & Analyzed: 14-Sep-20				
Iron	2	-		µg/L	2.0000		102	0-200		
Low Cal Check (0I15014-LCV6)						Prepared & Analyzed: 14-Sep-20				
Iron	6	-		µg/L	6.2500		101	0-200		
Low Cal Check (0I15014-LCV7)						Prepared & Analyzed: 14-Sep-20				
Iron	13	-		µg/L	12.500		100	0-200		

#### Batch F009359 - EFGS SOP2836 Closed Vessel Water Oven Digestion

Blank (F009359-BLK1)						Prepared & Analyzed: 14-Sep-20				
Iron	ND	-	5	µg/L						U
Blank (F009359-BLK2)						Prepared & Analyzed: 14-Sep-20				
Iron	ND	-	5	µg/L						U
LCS (F009359-BS1)						Prepared & Analyzed: 14-Sep-20				
Iron	1278	-	5	µg/L	1250.0		102	85-115		
LCS Dup (F009359-BSD1)						Prepared & Analyzed: 14-Sep-20				
Iron	1266	-	5	µg/L	1250.0		101	85-115	0.921	20

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Project: 200.8 Metals  
Project Number: 28003580  
Project Manager: Betsy Sara

Reported:  
16-Sep-20 16:53

### Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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#### Batch F009359 - EFGS SOP2836 Closed Vessel Water Oven Digestion

Matrix Spike (F009359-MS1)	Source: 0I00001-01			Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	4411	-	5	µg/L	1250.0	2868	123	70-130		E
Matrix Spike (F009359-MS2)	Source: 0I00002-01			Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	2398	-	10	µg/L	2500.0	ND	95.9	70-130		
Matrix Spike Dup (F009359-MSD1)	Source: 0I00001-01			Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	4093	-	5	µg/L	1250.0	2868	98.0	70-130	7.49	20
Matrix Spike Dup (F009359-MSD2)	Source: 0I00002-01			Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	2424	-	10	µg/L	2500.0	ND	96.9	70-130	1.06	20

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4955 Yarrow Street  
Arvada CO, 80002

Project: 200.8 Metals  
Project Number: 28003580  
Project Manager: Betsy Sara

Reported:  
16-Sep-20 16:53

#### Notes and Definitions

- U Analyte was not detected and is reported as less than the LOD or as defined by the client. The LOD has been adjusted for any dilution or concentration of the sample.
- QM-12 Continuing calibration verification (CCV) and/or blank spike/blank spike duplicate (BS/BSD) recoveries above upper control limits.  
All reported sample concentrations were below the reporting limit.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the method detection limit if reported to the MDL or above the reporting limit if reported to the MRL.
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Page 12 of 12  
9/29/2020 (Rev. 1)

**TestAmerica Denver**

4955 Yarrow Street  
Arvada, CO 80002  
Phone (303) 736-0100 Fax (303) 431-7171

**Denver TestAmerica**  
**#280**  
**Chain of Custody Record**

Client Information		Sampler: Sam G.		Lab PM: Sara, Betsy A.		Carrier Tracking No(s): 2156 5794 6309		COC No: 280-21692-4512.1	
Client Contact:	Sam Graber	Phone:		E-Mail:	betsy.sara@testamericainc.com <th>Page:</th> <td>1 of 1</td> <th>Job #:</th> <td>242200-2203</td>	Page:	1 of 1	Job #:	242200-2203
Analysis Requested									
<input checked="" type="checkbox"/> Preservation Codes: A - HCl      M - Hexane B - NaOH      N - None C - Zn Acetate      O - AsNaO2 D - Nitric Acid      P - Na2O4S E - NaHSO4      Q - Na2SO3 F - MeOH      R - Na2S2O3 G - Amchlor      S - H2SO4 H - Ascorbic Acid      T - TSP Dodecahydrate I - Ice      U - Acetone J - Di Water      V - MCAA K - EDTA      W - ph 4.5 L - EDA      Z - other (specify) Other:									
<input checked="" type="checkbox"/> Total Number of Contaminants									
<input checked="" type="checkbox"/> TOC/COD/Amonia									
<input checked="" type="checkbox"/> CI/SO4 (TGA St. Louis)									
<input checked="" type="checkbox"/> NO3/NO2(IC)/Color									
<input checked="" type="checkbox"/> Total iron (Frotnier)									
<input checked="" type="checkbox"/> Perfrom MS/MSD (yes or No)									
<input checked="" type="checkbox"/> Field Filtered Sample (yes or No)									
<input checked="" type="checkbox"/> 8260B									
<input checked="" type="checkbox"/> Total Metals									
<input checked="" type="checkbox"/> 8260B									
<input checked="" type="checkbox"/> Matrix (Wetware, Solid, Dewar, Tissue, Ash)									
<input checked="" type="checkbox"/> Preservation Code: A D N N S									
<input checked="" type="checkbox"/> Sample Date: 8/27/20									
<input checked="" type="checkbox"/> Sample Time: 1345									
<input checked="" type="checkbox"/> Sample Type: C=comp, G=grab									
<input checked="" type="checkbox"/> Site: Hidden Valley Landfill									
<input checked="" type="checkbox"/> Project #: 28003580-Water Supply Wells									
<input checked="" type="checkbox"/> SSOW#:									
<input checked="" type="checkbox"/> Purchase Order not requir									
<input checked="" type="checkbox"/> PO #:									
<input checked="" type="checkbox"/> WO #:									
<input checked="" type="checkbox"/> Email: S.Graber@scsengineers.com									
<input checked="" type="checkbox"/> Project Name: Hidden Valley Landfill									
<input checked="" type="checkbox"/> Address: 2405 140th Avenue NE Suite 107									
<input checked="" type="checkbox"/> City: Bellevue									
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280-139903 Waybill



*Expanded  
Billable Stamp*

Use only for shipments within the U.S.  
Saturday delivery available.

**FedEx  
Priority  
Overnight®**

Next business morning by  
10:30 a.m. Not available to all  
locations. Please consult the  
current FedEx Service Guide  
for specific commitments.

1 From See optional release signature below

ORDER: 00851499

DECLARED VALUE \$100  
PACKAGE WEIGHT  
( )

2 To Shipment will not be accepted if a

SAMPLE RECEIV'  
TESTAMERICA  
4955 YARROW S  
ARVADA, CO 8000.  
(303) 736-0100

4 10:30

G REDEEMABLE

6309 ve back for declared  
08.28 motion and import  
conditions.

SATURDAY DELIVERY

Shipments tendered on Friday  
are delivered on Saturday to  
most locations.



8156 5924 6309

Release Signature

**FedEx**

TRK# 0667 8156 5924 6309

FRI - 28 AUG 10:30A  
PRIORITY OVERNIGHT

80002  
CO-US  
DEN

XH LAAA



FIO: 790323 27Aug2020 TCNA 56CG2/7709/05A2



280-139903 Waybill

# Do Not Lift Using This Tag



## Expanded Billable Stamp

Use only for shipments within the U.S.  
Saturday delivery available.

## FedEx Priority Overnight®

Next business morning by  
10:30 a.m. Not available to all  
locations. Please consult the  
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8156 5924 6309

There is an artificial watermark on this document. Hold at an angle to view.

Release Signature



TRK# 8156 5924 6309  
0667

FRI - 28 AUG 10:30A  
PRIORITY OVERNIGHT

80002  
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XH LAAA



FID: 790323 27Aug2020 TCMA 56CG2/7709/05A2

## Chain of Custody Record

Since accreditation is a voluntary process, Eurofins TestAmerica places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently have accreditation in the States of Origin listed above for analysis/test matrix or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody to Eurofins TestAmerica.

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### Unconfirmed

## Deliverable Re

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## Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 280-139903-1

**Login Number:** 139903

**List Source:** Eurofins TestAmerica, Denver

**List Number:** 1

**Creator:** Pottruff, Reed W

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

## Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 280-139903-1

**Login Number:** 139903

**List Source:** Eurofins TestAmerica, St. Louis

**List Number:** 2

**List Creation:** 09/01/20 01:14 PM

**Creator:** Boyd, Jacob C

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