

ANALYTICAL REPORT

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Laboratory Job ID: 280-139904-1
Client Project/Site: Hidden Valley LF
Revision: 1

For:
SCS Engineers
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Bellevue, Washington 98005-1877

Attn: Mr. Kevin Lakey



Authorized for release by:
9/29/2020 2:08:23 PM

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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: 280-139904-1

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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: 280-139904-1

Job ID: 280-139904-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: SCS Engineers

Project: Hidden Valley LF

Report Number: 280-139904-1

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 4.1 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: 280-139904-1

Job ID: 280-139904-1 (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.

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Detection Summary

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Client Sample ID: HVL-082720-19

Lab Sample ID: 280-139904-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	8.0		0.20		mg/L	1		300.0	Total/NA
Chloride - DL	15		1.2		mg/L	20		300.0	Total/NA
Calcium, Dissolved	30		0.20		mg/L	1		6010B	Dissolved
Magnesium, Dissolved	9.8		0.10		mg/L	1		6010B	Dissolved
Potassium, Dissolved	11		2.0		mg/L	1		6010B	Dissolved
Sodium, Dissolved	24		1.0		mg/L	1		6010B	Dissolved
Manganese, Dissolved	0.0029		0.0010		mg/L	1		6020	Dissolved
Nitrate as N	4.3		0.20		mg/L	1		300.0	Total/NA
Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	240		10		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Quad	1.3		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: HVL-082720-20

Lab Sample ID: 280-139904-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	7.1		0.20		mg/L	1		300.0	Total/NA
Chloride - DL	8.7		1.2		mg/L	20		300.0	Total/NA
Calcium, Dissolved	28		0.20		mg/L	1		6010B	Dissolved
Magnesium, Dissolved	11		0.10		mg/L	1		6010B	Dissolved
Potassium, Dissolved	3.4		2.0		mg/L	1		6010B	Dissolved
Sodium, Dissolved	20		1.0		mg/L	1		6010B	Dissolved
Nitrate as N	1.2		0.20		mg/L	1		300.0	Total/NA
Alkalinity	130		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	210		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: HVL-082720-21

Lab Sample ID: 280-139904-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		1.2		mg/L	20		300.0	Total/NA
Sulfate	5.3		0.20		mg/L	1		300.0	Total/NA
Calcium, Dissolved	27		0.20		mg/L	1		6010B	Dissolved
Magnesium, Dissolved	7.8		0.10		mg/L	1		6010B	Dissolved
Potassium, Dissolved	12		2.0		mg/L	1		6010B	Dissolved
Sodium, Dissolved	24		1.0		mg/L	1		6010B	Dissolved
Manganese, Dissolved	0.45		0.0010		mg/L	1		6020	Dissolved
Nitrate as N	5.6		0.20		mg/L	1		300.0	Total/NA
Ammonia	0.50		0.10		mg/L	1		350.1	Total/NA
Alkalinity	110		10		mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	230		10		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	160		4.0		mg/L	1		SM 2540D	Total/NA
Total Organic Carbon - Quad	1.8		1.0		mg/L	1		SM 5310B	Total/NA

Client Sample ID: HVL-082720-22

Lab Sample ID: 280-139904-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	160		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-139904-5

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: 280-139904-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
6010B	Metals (ICP)	SW846	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL DEN
350.1	Nitrogen, Ammonia	MCAWW	TAL DEN
SM 2320B	Alkalinity	SM	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	TAL DEN
Subcontract	LL Diss Fe 200.8 RL=0.03 mg/L (Eurofins Frontier)	None	FrontierGe
3005A	Preparation, Total Recoverable or Dissolved 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: 280-139904-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-139904-1	HVL-082720-19	Water	08/27/20 09:00	08/28/20 09:30	
280-139904-2	HVL-082720-20	Water	08/27/20 11:00	08/28/20 09:30	
280-139904-3	HVL-082720-21	Water	08/27/20 11:45	08/28/20 09:30	
280-139904-4	HVL-082720-22	Water	08/27/20 12:45	08/28/20 09:30	
280-139904-5	TRIP BLANK	Water	08/27/20 09:00	08/28/20 09:30	

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Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Client Sample ID: HVL-082720-19

Date Collected: 08/27/20 09:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-1

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 04:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/09/20 04:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/09/20 04:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/09/20 04:09	1
1,1-Dichloroethane	ND		0.50		ug/L			09/09/20 04:09	1
1,1-Dichloroethene	ND		0.50		ug/L			09/09/20 04:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/09/20 04:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/09/20 04:09	1
1,2-Dibromoethane	ND		1.0		ug/L			09/09/20 04:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/09/20 04:09	1
1,2-Dichloroethane	ND		0.50		ug/L			09/09/20 04:09	1
1,2-Dichloropropane	ND		0.50		ug/L			09/09/20 04:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/09/20 04:09	1
2-Butanone (MEK)	ND		6.0		ug/L			09/09/20 04:09	1
2-Hexanone	ND		5.0		ug/L			09/09/20 04:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/09/20 04:09	1
Acetone	ND		10		ug/L			09/09/20 04:09	1
Acrylonitrile	ND		20		ug/L			09/09/20 04:09	1
Benzene	ND		0.50		ug/L			09/09/20 04:09	1
Bromochloromethane	ND		0.50		ug/L			09/09/20 04:09	1
Bromodichloromethane	ND		0.50		ug/L			09/09/20 04:09	1
Bromoform	ND		0.50		ug/L			09/09/20 04:09	1
Bromomethane	ND		0.50		ug/L			09/09/20 04:09	1
Carbon disulfide	ND		0.50		ug/L			09/09/20 04:09	1
Carbon tetrachloride	ND		0.50		ug/L			09/09/20 04:09	1
Chlorobenzene	ND		0.50		ug/L			09/09/20 04:09	1
Chloroethane	ND		0.50		ug/L			09/09/20 04:09	1
Chloroform	ND		0.50		ug/L			09/09/20 04:09	1
Chloromethane	ND		0.50		ug/L			09/09/20 04:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 04:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 04:09	1
cis-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 04:09	1
Dibromochloromethane	ND		0.50		ug/L			09/09/20 04:09	1
Dibromomethane	ND		0.50		ug/L			09/09/20 04:09	1
Dichlorodifluoromethane	ND		2.0		ug/L			09/09/20 04:09	1
Ethylbenzene	ND		1.0		ug/L			09/09/20 04:09	1
Iodomethane	ND		1.0		ug/L			09/09/20 04:09	1
Methylene Chloride	ND		2.0		ug/L			09/09/20 04:09	1
m-Xylene & p-Xylene	ND		0.50		ug/L			09/09/20 04:09	1
o-Xylene	ND		0.50		ug/L			09/09/20 04:09	1
Styrene	ND		0.50		ug/L			09/09/20 04:09	1
Tetrachloroethene	ND		0.50		ug/L			09/09/20 04:09	1
Toluene	ND		0.50		ug/L			09/09/20 04:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 04:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 04:09	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 04:09	1
Trichloroethene	ND		0.50		ug/L			09/09/20 04:09	1
Trichlorofluoromethane	ND		0.50		ug/L			09/09/20 04:09	1
Vinyl acetate	ND		3.0		ug/L			09/09/20 04:09	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Client Sample ID: HVL-082720-19

Date Collected: 08/27/20 09:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50		ug/L			09/09/20 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 127					09/09/20 04:09	1
4-Bromofluorobenzene (Surr)	99		78 - 120					09/09/20 04:09	1
Dibromofluoromethane (Surr)	103		77 - 120					09/09/20 04:09	1
Toluene-d8 (Surr)	98		80 - 125					09/09/20 04:09	1

Client Sample ID: HVL-082720-20

Date Collected: 08/27/20 11:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-2

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 04:30	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/09/20 04:30	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/09/20 04:30	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/09/20 04:30	1
1,1-Dichloroethane	ND		0.50		ug/L			09/09/20 04:30	1
1,1-Dichloroethene	ND		0.50		ug/L			09/09/20 04:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/09/20 04:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/09/20 04:30	1
1,2-Dibromoethane	ND		1.0		ug/L			09/09/20 04:30	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/09/20 04:30	1
1,2-Dichloroethane	ND		0.50		ug/L			09/09/20 04:30	1
1,2-Dichloropropane	ND		0.50		ug/L			09/09/20 04:30	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/09/20 04:30	1
2-Butanone (MEK)	ND		6.0		ug/L			09/09/20 04:30	1
2-Hexanone	ND		5.0		ug/L			09/09/20 04:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/09/20 04:30	1
Acetone	ND		10		ug/L			09/09/20 04:30	1
Acrylonitrile	ND		20		ug/L			09/09/20 04:30	1
Benzene	ND		0.50		ug/L			09/09/20 04:30	1
Bromochloromethane	ND		0.50		ug/L			09/09/20 04:30	1
Bromodichloromethane	ND		0.50		ug/L			09/09/20 04:30	1
Bromoform	ND		0.50		ug/L			09/09/20 04:30	1
Bromomethane	ND		0.50		ug/L			09/09/20 04:30	1
Carbon disulfide	ND		0.50		ug/L			09/09/20 04:30	1
Carbon tetrachloride	ND		0.50		ug/L			09/09/20 04:30	1
Chlorobenzene	ND		0.50		ug/L			09/09/20 04:30	1
Chloroethane	ND		0.50		ug/L			09/09/20 04:30	1
Chloroform	ND		0.50		ug/L			09/09/20 04:30	1
Chloromethane	ND		0.50		ug/L			09/09/20 04:30	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 04:30	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 04:30	1
cis-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 04:30	1
Dibromochloromethane	ND		0.50		ug/L			09/09/20 04:30	1
Dibromomethane	ND		0.50		ug/L			09/09/20 04:30	1
Dichlorodifluoromethane	ND		2.0		ug/L			09/09/20 04:30	1
Ethylbenzene	ND		1.0		ug/L			09/09/20 04:30	1
Iodomethane	ND		1.0		ug/L			09/09/20 04:30	1
Methylene Chloride	ND		2.0		ug/L			09/09/20 04:30	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Client Sample ID: HVL-082720-20

Date Collected: 08/27/20 11:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-2

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 04:30	1
o-Xylene	ND		0.50		ug/L			09/09/20 04:30	1
Styrene	ND		0.50		ug/L			09/09/20 04:30	1
Tetrachloroethene	ND		0.50		ug/L			09/09/20 04:30	1
Toluene	ND		0.50		ug/L			09/09/20 04:30	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 04:30	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 04:30	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 04:30	1
Trichloroethene	ND		0.50		ug/L			09/09/20 04:30	1
Trichlorofluoromethane	ND		0.50		ug/L			09/09/20 04:30	1
Vinyl acetate	ND		3.0		ug/L			09/09/20 04:30	1
Vinyl chloride	ND		0.50		ug/L			09/09/20 04:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 127					09/09/20 04:30	1
4-Bromofluorobenzene (Surr)	100		78 - 120					09/09/20 04:30	1
Dibromofluoromethane (Surr)	99		77 - 120					09/09/20 04:30	1
Toluene-d8 (Surr)	98		80 - 125					09/09/20 04:30	1

Client Sample ID: HVL-082720-21

Date Collected: 08/27/20 11:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-3

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 04:51	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/09/20 04:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/09/20 04:51	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/09/20 04:51	1
1,1-Dichloroethane	ND		0.50		ug/L			09/09/20 04:51	1
1,1-Dichloroethene	ND		0.50		ug/L			09/09/20 04:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/09/20 04:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/09/20 04:51	1
1,2-Dibromoethane	ND		1.0		ug/L			09/09/20 04:51	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/09/20 04:51	1
1,2-Dichloroethane	ND		0.50		ug/L			09/09/20 04:51	1
1,2-Dichloropropane	ND		0.50		ug/L			09/09/20 04:51	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/09/20 04:51	1
2-Butanone (MEK)	ND		6.0		ug/L			09/09/20 04:51	1
2-Hexanone	ND		5.0		ug/L			09/09/20 04:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/09/20 04:51	1
Acetone	ND		10		ug/L			09/09/20 04:51	1
Acrylonitrile	ND		20		ug/L			09/09/20 04:51	1
Benzene	ND		0.50		ug/L			09/09/20 04:51	1
Bromochloromethane	ND		0.50		ug/L			09/09/20 04:51	1
Bromodichloromethane	ND		0.50		ug/L			09/09/20 04:51	1
Bromoform	ND		0.50		ug/L			09/09/20 04:51	1
Bromomethane	ND		0.50		ug/L			09/09/20 04:51	1
Carbon disulfide	ND		0.50		ug/L			09/09/20 04:51	1
Carbon tetrachloride	ND		0.50		ug/L			09/09/20 04:51	1
Chlorobenzene	ND		0.50		ug/L			09/09/20 04:51	1
Chloroethane	ND		0.50		ug/L			09/09/20 04:51	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Client Sample ID: HVL-082720-21

Date Collected: 08/27/20 11:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.50		ug/L			09/09/20 04:51	1
Chloromethane	ND		0.50		ug/L			09/09/20 04:51	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 04:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 04:51	1
cis-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 04:51	1
Dibromochloromethane	ND		0.50		ug/L			09/09/20 04:51	1
Dibromomethane	ND		0.50		ug/L			09/09/20 04:51	1
Dichlorodifluoromethane	ND		2.0		ug/L			09/09/20 04:51	1
Ethylbenzene	ND		1.0		ug/L			09/09/20 04:51	1
Iodomethane	ND		1.0		ug/L			09/09/20 04:51	1
Methylene Chloride	ND		2.0		ug/L			09/09/20 04:51	1
m-Xylene & p-Xylene	ND		0.50		ug/L			09/09/20 04:51	1
o-Xylene	ND		0.50		ug/L			09/09/20 04:51	1
Styrene	ND		0.50		ug/L			09/09/20 04:51	1
Tetrachloroethene	ND		0.50		ug/L			09/09/20 04:51	1
Toluene	ND		0.50		ug/L			09/09/20 04:51	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 04:51	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 04:51	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 04:51	1
Trichloroethene	ND		0.50		ug/L			09/09/20 04:51	1
Trichlorofluoromethane	ND		0.50		ug/L			09/09/20 04:51	1
Vinyl acetate	ND		3.0		ug/L			09/09/20 04:51	1
Vinyl chloride	ND		0.50		ug/L			09/09/20 04:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 127		09/09/20 04:51	1
4-Bromofluorobenzene (Surr)	99		78 - 120		09/09/20 04:51	1
Dibromofluoromethane (Surr)	102		77 - 120		09/09/20 04:51	1
Toluene-d8 (Surr)	98		80 - 125		09/09/20 04:51	1

Client Sample ID: HVL-082720-22

Date Collected: 08/27/20 12:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-4

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 05:13	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/09/20 05:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/09/20 05:13	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/09/20 05:13	1
1,1-Dichloroethane	ND		0.50		ug/L			09/09/20 05:13	1
1,1-Dichloroethene	ND		0.50		ug/L			09/09/20 05:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/09/20 05:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/09/20 05:13	1
1,2-Dibromoethane	ND		1.0		ug/L			09/09/20 05:13	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/09/20 05:13	1
1,2-Dichloroethane	ND		0.50		ug/L			09/09/20 05:13	1
1,2-Dichloropropane	ND		0.50		ug/L			09/09/20 05:13	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/09/20 05:13	1
2-Butanone (MEK)	ND		6.0		ug/L			09/09/20 05:13	1
2-Hexanone	ND		5.0		ug/L			09/09/20 05:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/09/20 05:13	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Client Sample ID: HVL-082720-22

Date Collected: 08/27/20 12:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			09/09/20 05:13	1
Acrylonitrile	ND		20		ug/L			09/09/20 05:13	1
Benzene	ND		0.50		ug/L			09/09/20 05:13	1
Bromochloromethane	ND		0.50		ug/L			09/09/20 05:13	1
Bromodichloromethane	ND		0.50		ug/L			09/09/20 05:13	1
Bromoform	ND		0.50		ug/L			09/09/20 05:13	1
Bromomethane	ND		0.50		ug/L			09/09/20 05:13	1
Carbon disulfide	ND		0.50		ug/L			09/09/20 05:13	1
Carbon tetrachloride	ND		0.50		ug/L			09/09/20 05:13	1
Chlorobenzene	ND		0.50		ug/L			09/09/20 05:13	1
Chloroethane	ND		0.50		ug/L			09/09/20 05:13	1
Chloroform	ND		0.50		ug/L			09/09/20 05:13	1
Chloromethane	ND		0.50		ug/L			09/09/20 05:13	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 05:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 05:13	1
cis-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 05:13	1
Dibromochloromethane	ND		0.50		ug/L			09/09/20 05:13	1
Dibromomethane	ND		0.50		ug/L			09/09/20 05:13	1
Dichlorodifluoromethane	ND		2.0		ug/L			09/09/20 05:13	1
Ethylbenzene	ND		1.0		ug/L			09/09/20 05:13	1
Iodomethane	ND		1.0		ug/L			09/09/20 05:13	1
Methylene Chloride	ND		2.0		ug/L			09/09/20 05:13	1
m-Xylene & p-Xylene	ND		0.50		ug/L			09/09/20 05:13	1
o-Xylene	ND		0.50		ug/L			09/09/20 05:13	1
Styrene	ND		0.50		ug/L			09/09/20 05:13	1
Tetrachloroethene	ND		0.50		ug/L			09/09/20 05:13	1
Toluene	ND		0.50		ug/L			09/09/20 05:13	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 05:13	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 05:13	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 05:13	1
Trichloroethene	ND		0.50		ug/L			09/09/20 05:13	1
Trichlorofluoromethane	ND		0.50		ug/L			09/09/20 05:13	1
Vinyl acetate	ND		3.0		ug/L			09/09/20 05:13	1
Vinyl chloride	ND		0.50		ug/L			09/09/20 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 127		09/09/20 05:13	1
4-Bromofluorobenzene (Surr)	100		78 - 120		09/09/20 05:13	1
Dibromofluoromethane (Surr)	102		77 - 120		09/09/20 05:13	1
Toluene-d8 (Surr)	98		80 - 125		09/09/20 05:13	1

Client Sample ID: TRIP BLANK

Date Collected: 08/27/20 09:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-5

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 05:34	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/09/20 05:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/09/20 05:34	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/09/20 05:34	1
1,1-Dichloroethane	ND		0.50		ug/L			09/09/20 05:34	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Client Sample ID: TRIP BLANK

Date Collected: 08/27/20 09:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			09/09/20 05:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/09/20 05:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			09/09/20 05:34	1
1,2-Dibromoethane	ND		1.0		ug/L			09/09/20 05:34	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/09/20 05:34	1
1,2-Dichloroethane	ND		0.50		ug/L			09/09/20 05:34	1
1,2-Dichloropropane	ND		0.50		ug/L			09/09/20 05:34	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/09/20 05:34	1
2-Butanone (MEK)	ND		6.0		ug/L			09/09/20 05:34	1
2-Hexanone	ND		5.0		ug/L			09/09/20 05:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			09/09/20 05:34	1
Acetone	ND		10		ug/L			09/09/20 05:34	1
Acrylonitrile	ND		20		ug/L			09/09/20 05:34	1
Benzene	ND		0.50		ug/L			09/09/20 05:34	1
Bromochloromethane	ND		0.50		ug/L			09/09/20 05:34	1
Bromodichloromethane	ND		0.50		ug/L			09/09/20 05:34	1
Bromoform	ND		0.50		ug/L			09/09/20 05:34	1
Bromomethane	ND		0.50		ug/L			09/09/20 05:34	1
Carbon disulfide	ND		0.50		ug/L			09/09/20 05:34	1
Carbon tetrachloride	ND		0.50		ug/L			09/09/20 05:34	1
Chlorobenzene	ND		0.50		ug/L			09/09/20 05:34	1
Chloroethane	ND		0.50		ug/L			09/09/20 05:34	1
Chloroform	ND		0.50		ug/L			09/09/20 05:34	1
Chloromethane	ND		0.50		ug/L			09/09/20 05:34	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 05:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 05:34	1
cis-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 05:34	1
Dibromochloromethane	ND		0.50		ug/L			09/09/20 05:34	1
Dibromomethane	ND		0.50		ug/L			09/09/20 05:34	1
Dichlorodifluoromethane	ND		2.0		ug/L			09/09/20 05:34	1
Ethylbenzene	ND		1.0		ug/L			09/09/20 05:34	1
Iodomethane	ND		1.0		ug/L			09/09/20 05:34	1
Methylene Chloride	ND		2.0		ug/L			09/09/20 05:34	1
m-Xylene & p-Xylene	ND		0.50		ug/L			09/09/20 05:34	1
o-Xylene	ND		0.50		ug/L			09/09/20 05:34	1
Styrene	ND		0.50		ug/L			09/09/20 05:34	1
Tetrachloroethene	ND		0.50		ug/L			09/09/20 05:34	1
Toluene	ND		0.50		ug/L			09/09/20 05:34	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/09/20 05:34	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/09/20 05:34	1
trans-1,4-Dichloro-2-butene	ND		3.0		ug/L			09/09/20 05:34	1
Trichloroethene	ND		0.50		ug/L			09/09/20 05:34	1
Trichlorofluoromethane	ND		0.50		ug/L			09/09/20 05:34	1
Vinyl acetate	ND		3.0		ug/L			09/09/20 05:34	1
Vinyl chloride	ND		0.50		ug/L			09/09/20 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 127		09/09/20 05:34	1
4-Bromofluorobenzene (Surr)	100		78 - 120		09/09/20 05:34	1
Dibromofluoromethane (Surr)	99		77 - 120		09/09/20 05:34	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Client Sample ID: TRIP BLANK
Date Collected: 08/27/20 09:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 125		09/09/20 05:34	1

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: HVL-082720-19
Date Collected: 08/27/20 09:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	8.0		0.20		mg/L			09/16/20 04:02	1

Client Sample ID: HVL-082720-20
Date Collected: 08/27/20 11:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7.1		0.20		mg/L			09/16/20 04:34	1

Client Sample ID: HVL-082720-21
Date Collected: 08/27/20 11:45
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.2		mg/L			09/16/20 05:22	20
Sulfate	5.3		0.20		mg/L			09/16/20 05:06	1

Client Sample ID: HVL-082720-22
Date Collected: 08/27/20 12:45
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20		mg/L			09/16/20 09:44	1
Sulfate	ND		0.20		mg/L			09/16/20 09:44	1

Method: 300.0 - Anions, Ion Chromatography - DL

Client Sample ID: HVL-082720-19
Date Collected: 08/27/20 09:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.2		mg/L			09/16/20 04:18	20

Client Sample ID: HVL-082720-20
Date Collected: 08/27/20 11:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.7		1.2		mg/L			09/16/20 04:50	20

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: HVL-082720-19
Date Collected: 08/27/20 09:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	30		0.20		mg/L		08/31/20 17:35	09/04/20 17:16	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Client Sample ID: HVL-082720-19
Date Collected: 08/27/20 09:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium, Dissolved	9.8		0.10		mg/L		08/31/20 17:35	09/04/20 17:16	1
Potassium, Dissolved	11		2.0		mg/L		08/31/20 17:35	09/04/20 17:16	1
Sodium, Dissolved	24		1.0		mg/L		08/31/20 17:35	09/04/20 17:16	1

Client Sample ID: HVL-082720-20
Date Collected: 08/27/20 11:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	28		0.20		mg/L		08/31/20 17:35	09/04/20 17:44	1
Magnesium, Dissolved	11		0.10		mg/L		08/31/20 17:35	09/04/20 17:44	1
Potassium, Dissolved	3.4		2.0		mg/L		08/31/20 17:35	09/04/20 17:44	1
Sodium, Dissolved	20		1.0		mg/L		08/31/20 17:35	09/04/20 17:44	1

Client Sample ID: HVL-082720-21
Date Collected: 08/27/20 11:45
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	27		0.20		mg/L		08/31/20 17:35	09/04/20 17:47	1
Magnesium, Dissolved	7.8		0.10		mg/L		08/31/20 17:35	09/04/20 17:47	1
Potassium, Dissolved	12		2.0		mg/L		08/31/20 17:35	09/04/20 17:47	1
Sodium, Dissolved	24		1.0		mg/L		08/31/20 17:35	09/04/20 17:47	1

Client Sample ID: HVL-082720-22
Date Collected: 08/27/20 12:45
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	ND		0.20		mg/L		08/31/20 17:35	09/04/20 17:51	1
Magnesium, Dissolved	ND		0.10		mg/L		08/31/20 17:35	09/04/20 17:51	1
Potassium, Dissolved	ND		2.0		mg/L		08/31/20 17:35	09/04/20 17:51	1
Sodium, Dissolved	ND		1.0		mg/L		08/31/20 17:35	09/04/20 17:51	1

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

Client Sample ID: HVL-082720-19
Date Collected: 08/27/20 09:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	0.0029		0.0010		mg/L		09/02/20 08:29	09/04/20 18:57	1

Client Sample ID: HVL-082720-20
Date Collected: 08/27/20 11:00
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		09/02/20 08:29	09/04/20 19:15	1

Client Sample ID: HVL-082720-21
Date Collected: 08/27/20 11:45
Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	0.45		0.0010		mg/L		09/02/20 08:29	09/04/20 19:18	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Client Sample ID: HVL-082720-22

Date Collected: 08/27/20 12:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	ND		0.0010		mg/L		09/02/20 08:29	09/04/20 19:22	1

General Chemistry

Client Sample ID: HVL-082720-19

Date Collected: 08/27/20 09:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4.3		0.20		mg/L			08/28/20 20:29	1
Ammonia	ND		0.10		mg/L			09/12/20 15:19	1
Alkalinity	130		10		mg/L			09/01/20 16:07	1
Total Dissolved Solids	240		10		mg/L			09/02/20 12:36	1
Total Suspended Solids	ND		4.0		mg/L			09/01/20 11:22	1
Total Organic Carbon - Quad	1.3		1.0		mg/L			09/10/20 20:26	1

Client Sample ID: HVL-082720-20

Date Collected: 08/27/20 11:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.2		0.20		mg/L			08/28/20 20:45	1
Ammonia	ND		0.10		mg/L			09/12/20 15:21	1
Alkalinity	130		10		mg/L			09/01/20 16:35	1
Total Dissolved Solids	210		10		mg/L			09/02/20 12:36	1
Total Suspended Solids	ND		4.0		mg/L			09/01/20 11:22	1
Total Organic Carbon - Quad	ND		1.0		mg/L			09/10/20 20:41	1

Client Sample ID: HVL-082720-21

Date Collected: 08/27/20 11:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	5.6		0.20		mg/L			08/28/20 21:02	1
Ammonia	0.50		0.10		mg/L			09/12/20 15:23	1
Alkalinity	110		10		mg/L			09/01/20 16:45	1
Total Dissolved Solids	230		10		mg/L			09/02/20 12:36	1
Total Suspended Solids	160		4.0		mg/L			09/01/20 11:22	1
Total Organic Carbon - Quad	1.8		1.0		mg/L			09/10/20 21:25	1

Client Sample ID: HVL-082720-22

Date Collected: 08/27/20 12:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20		mg/L			08/28/20 21:18	1
Ammonia	ND		0.10		mg/L			09/12/20 15:25	1
Alkalinity	ND		10		mg/L			09/01/20 16:51	1
Total Dissolved Solids	160		10		mg/L			09/02/20 12:36	1
Total Suspended Solids	ND		4.0		mg/L			09/01/20 11:22	1
Total Organic Carbon - Quad	ND		1.0		mg/L			09/10/20 21:40	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Method: LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F - General Subcontract Method)

Client Sample ID: HVL-082720-19

Date Collected: 08/27/20 09:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	10		µg/L		09/14/20 11:13	09/15/20 00:51	1

Client Sample ID: HVL-082720-20

Date Collected: 08/27/20 11:00

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	10		µg/L		09/14/20 11:13	09/15/20 02:42	1

Client Sample ID: HVL-082720-21

Date Collected: 08/27/20 11:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	10		µg/L		09/14/20 11:13	09/15/20 02:46	1

Client Sample ID: HVL-082720-22

Date Collected: 08/27/20 12:45

Date Received: 08/28/20 09:30

Lab Sample ID: 280-139904-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	U	10		µg/L		09/14/20 11:13	09/15/20 02:51	1

Surrogate Summary

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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	BFB	DBFM	TOL
		(70-127)	(78-120)	(77-120)	(80-125)
280-139904-1	HVL-082720-19	103	99	103	98
280-139904-2	HVL-082720-20	100	100	99	98
280-139904-3	HVL-082720-21	102	99	102	98
280-139904-4	HVL-082720-22	101	100	102	98
280-139904-5	TRIP BLANK	102	100	99	100
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: 280-139904-1

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: 280-139904-1

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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 127		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	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
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: 280-139904-1

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 %Recovery	LCS Qualifier	Limits
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. Limits	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: 280-139904-1

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

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. Limits	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

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD 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 160-482469/65
Matrix: Water
Analysis Batch: 482469

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20		mg/L			09/16/20 03:31	1
Sulfate	ND		0.20		mg/L			09/16/20 03:31	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 160-482469/66
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	7.92		mg/L		99	90 - 110

Lab Sample ID: 280-139904-4 MS
Matrix: Water
Analysis Batch: 482469

Client Sample ID: HVL-082720-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	ND		2.00	1.95		mg/L		97	90 - 110
Sulfate	ND		4.00	3.90		mg/L		97	90 - 110

Lab Sample ID: 280-139904-4 DU
Matrix: Water
Analysis Batch: 482469

Client Sample ID: HVL-082720-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	ND		ND		mg/L		NC	20
Sulfate	ND		ND		mg/L		NC	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-507468/1-A
Matrix: Water
Analysis Batch: 508484

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 507468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	ND		0.20		mg/L		08/31/20 17:35	09/04/20 17:10	1
Magnesium, Dissolved	ND		0.10		mg/L		08/31/20 17:35	09/04/20 17:10	1
Potassium, Dissolved	ND		2.0		mg/L		08/31/20 17:35	09/04/20 17:10	1
Sodium, Dissolved	ND		1.0		mg/L		08/31/20 17:35	09/04/20 17:10	1

Lab Sample ID: LCS 280-507468/2-A
Matrix: Water
Analysis Batch: 508484

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 507468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium, Dissolved	50.0	48.9		mg/L		98	90 - 111
Magnesium, Dissolved	50.0	49.3		mg/L		99	90 - 113
Potassium, Dissolved	50.0	50.3		mg/L		101	89 - 114
Sodium, Dissolved	50.0	49.3		mg/L		99	90 - 115

Lab Sample ID: 280-139904-1 MS
Matrix: Water
Analysis Batch: 508484

Client Sample ID: HVL-082720-19
Prep Type: Dissolved
Prep Batch: 507468

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium, Dissolved	30		50.0	77.6		mg/L		96	48 - 153
Magnesium, Dissolved	9.8		50.0	59.0		mg/L		98	62 - 146
Potassium, Dissolved	11		50.0	61.6		mg/L		101	76 - 132
Sodium, Dissolved	24		50.0	71.9		mg/L		97	70 - 203

Eurofins TestAmerica, Denver

QC Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Method: 6010B - Metals (ICP)

Lab Sample ID: 280-139904-1 MSD
Matrix: Water
Analysis Batch: 508484

Client Sample ID: HVL-082720-19
Prep Type: Dissolved
Prep Batch: 507468

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium, Dissolved	30		50.0	78.4		mg/L		97	48 - 153	1	20
Magnesium, Dissolved	9.8		50.0	59.4		mg/L		99	62 - 146	1	20
Potassium, Dissolved	11		50.0	62.0		mg/L		101	76 - 132	1	20
Sodium, Dissolved	24		50.0	72.5		mg/L		98	70 - 203	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-507481/1-A
Matrix: Water
Analysis Batch: 508168

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 507481

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese, Dissolved	ND		0.0010		mg/L		09/02/20 08:29	09/04/20 18:50	1

Lab Sample ID: LCS 280-507481/2-A
Matrix: Water
Analysis Batch: 508168

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 507481

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Manganese, Dissolved	0.0400	0.0414		mg/L		103	85 - 117

Lab Sample ID: 280-139904-1 MS
Matrix: Water
Analysis Batch: 508168

Client Sample ID: HVL-082720-19
Prep Type: Dissolved
Prep Batch: 507481

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Manganese, Dissolved	0.0029		0.0400	0.0447		mg/L		104	85 - 117

Lab Sample ID: 280-139904-1 MSD
Matrix: Water
Analysis Batch: 508168

Client Sample ID: HVL-082720-19
Prep Type: Dissolved
Prep Batch: 507481

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Manganese, Dissolved	0.0029		0.0400	0.0448		mg/L		105	85 - 117	0	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	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	ND		0.20		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	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Nitrate as N	5.00	4.88		mg/L		98	90 - 110

Eurofins TestAmerica, Denver

QC Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

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	RPD	RPD Limit
Nitrate as N	0.500	ND		mg/L		99	50 - 150		

Lab Sample ID: 280-139903-A-1 MS
Matrix: Water
Analysis Batch: 507207

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	RPD	RPD Limit
Nitrate as N	2.1		5.00	7.57		mg/L		109	80 - 120		

Lab Sample ID: 280-139903-A-1 MSD
Matrix: Water
Analysis Batch: 507207

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

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

Lab Sample ID: 280-139903-A-1 DU
Matrix: Water
Analysis Batch: 507207

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.1		5.00	2.14		mg/L				1	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	RPD	RPD Limit
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: 280-139904-1

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	%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	%Rec. Limits	RPD	RPD Limit
Ammonia	ND	F1 F2	1.00	1.00	F2	mg/L		98	90 - 110	14	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-507714/31
Matrix: Water
Analysis Batch: 507714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	ND		10		mg/L			09/01/20 16:30	1

Lab Sample ID: MB 280-507714/5
Matrix: Water
Analysis Batch: 507714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	ND		10		mg/L			09/01/20 13:49	1

Lab Sample ID: LCS 280-507714/30
Matrix: Water
Analysis Batch: 507714

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	200	184		mg/L		92	89 - 109

Lab Sample ID: LCS 280-507714/4
Matrix: Water
Analysis Batch: 507714

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	200	184		mg/L		92	89 - 109

Lab Sample ID: 280-139904-2 DU
Matrix: Water
Analysis Batch: 507714

Client Sample ID: HVL-082720-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	130		134		mg/L		0.8	10

Eurofins TestAmerica, Denver

QC Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Lab Sample ID: MB 280-507760/1
Matrix: Water
Analysis Batch: 507760

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			09/02/20 12:36	1

Lab Sample ID: LCS 280-507760/2
Matrix: Water
Analysis Batch: 507760

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	523		mg/L		105	93 - 110

Lab Sample ID: 280-139956-A-10 DU
Matrix: Water
Analysis Batch: 507760

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2000		2000		mg/L		0.3	10

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

Lab Sample ID: MB 280-507567/1
Matrix: Water
Analysis Batch: 507567

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			09/01/20 11:22	1

Lab Sample ID: LCS 280-507567/2
Matrix: Water
Analysis Batch: 507567

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	82.4		mg/L		82	79 - 114

Lab Sample ID: 280-139904-4 DU
Matrix: Water
Analysis Batch: 507567

Client Sample ID: HVL-082720-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND		ND		mg/L		NC	10

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

Lab Sample ID: MB 280-508773/4
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			09/10/20 16:39	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

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

Lab Sample ID: LCS 280-508773/3
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	24.0		mg/L		96	88 - 112

Lab Sample ID: 280-139904-2 MS
Matrix: Water
Analysis Batch: 508773

Client Sample ID: HVL-082720-20
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	24.3		mg/L		95	88 - 112

Lab Sample ID: 280-139904-2 MSD
Matrix: Water
Analysis Batch: 508773

Client Sample ID: HVL-082720-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Total Organic Carbon - Quad	ND		25.0	24.4		mg/L		95	88 - 112	1	15

Method: LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F - 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

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	%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	%Rec. Limits	RPD	Limit
Iron	1250	1266		µg/L		101	85 - 115	0.921	20

Eurofins TestAmerica, Denver

QC Sample Results

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Method: LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F - General Subcontract Method (Continued))

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	Matrix Spike Unit	D	%Rec	%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: HVL-082720-19 (280-139904-1) MS
Prep Type: Total/NA
Prep Batch: F009359_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Matrix Spike Unit	D	%Rec	%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	Matrix Spike D Unit	D	%Rec	%Rec. Limits	RPD	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: HVL-082720-19 (280-139904-1) MSD
Prep Type: Total/NA
Prep Batch: F009359_P

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

QC Association Summary

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

GC/MS VOA

Analysis Batch: 508332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Total/NA	Water	8260B	
280-139904-2	HVL-082720-20	Total/NA	Water	8260B	
280-139904-3	HVL-082720-21	Total/NA	Water	8260B	
280-139904-4	HVL-082720-22	Total/NA	Water	8260B	
280-139904-5	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
280-139904-1	HVL-082720-19	Total/NA	Water	300.0	
280-139904-1 - DL	HVL-082720-19	Total/NA	Water	300.0	
280-139904-2	HVL-082720-20	Total/NA	Water	300.0	
280-139904-2 - DL	HVL-082720-20	Total/NA	Water	300.0	
280-139904-3	HVL-082720-21	Total/NA	Water	300.0	
280-139904-3	HVL-082720-21	Total/NA	Water	300.0	
280-139904-4	HVL-082720-22	Total/NA	Water	300.0	
MB 160-482469/65	Method Blank	Total/NA	Water	300.0	
LCS 160-482469/66	Lab Control Sample	Total/NA	Water	300.0	
280-139904-4 MS	HVL-082720-22	Total/NA	Water	300.0	
280-139904-4 DU	HVL-082720-22	Total/NA	Water	300.0	

Metals

Prep Batch: 507468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Dissolved	Water	3005A	
280-139904-2	HVL-082720-20	Dissolved	Water	3005A	
280-139904-3	HVL-082720-21	Dissolved	Water	3005A	
280-139904-4	HVL-082720-22	Dissolved	Water	3005A	
MB 280-507468/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-507468/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-139904-1 MS	HVL-082720-19	Dissolved	Water	3005A	
280-139904-1 MSD	HVL-082720-19	Dissolved	Water	3005A	

Prep Batch: 507481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Dissolved	Water	3005A	
280-139904-2	HVL-082720-20	Dissolved	Water	3005A	
280-139904-3	HVL-082720-21	Dissolved	Water	3005A	
280-139904-4	HVL-082720-22	Dissolved	Water	3005A	
MB 280-507481/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-507481/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-139904-1 MS	HVL-082720-19	Dissolved	Water	3005A	
280-139904-1 MSD	HVL-082720-19	Dissolved	Water	3005A	

Analysis Batch: 508168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Dissolved	Water	6020	507481

Eurofins TestAmerica, Denver

QC Association Summary

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Metals (Continued)

Analysis Batch: 508168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-2	HVL-082720-20	Dissolved	Water	6020	507481
280-139904-3	HVL-082720-21	Dissolved	Water	6020	507481
280-139904-4	HVL-082720-22	Dissolved	Water	6020	507481
MB 280-507481/1-A	Method Blank	Total Recoverable	Water	6020	507481
LCS 280-507481/2-A	Lab Control Sample	Total Recoverable	Water	6020	507481
280-139904-1 MS	HVL-082720-19	Dissolved	Water	6020	507481
280-139904-1 MSD	HVL-082720-19	Dissolved	Water	6020	507481

Analysis Batch: 508484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Dissolved	Water	6010B	507468
280-139904-2	HVL-082720-20	Dissolved	Water	6010B	507468
280-139904-3	HVL-082720-21	Dissolved	Water	6010B	507468
280-139904-4	HVL-082720-22	Dissolved	Water	6010B	507468
MB 280-507468/1-A	Method Blank	Total Recoverable	Water	6010B	507468
LCS 280-507468/2-A	Lab Control Sample	Total Recoverable	Water	6010B	507468
280-139904-1 MS	HVL-082720-19	Dissolved	Water	6010B	507468
280-139904-1 MSD	HVL-082720-19	Dissolved	Water	6010B	507468

General Chemistry

Analysis Batch: 507207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Total/NA	Water	300.0	
280-139904-2	HVL-082720-20	Total/NA	Water	300.0	
280-139904-3	HVL-082720-21	Total/NA	Water	300.0	
280-139904-4	HVL-082720-22	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-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-139903-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-139903-A-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 507567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Total/NA	Water	SM 2540D	
280-139904-2	HVL-082720-20	Total/NA	Water	SM 2540D	
280-139904-3	HVL-082720-21	Total/NA	Water	SM 2540D	
280-139904-4	HVL-082720-22	Total/NA	Water	SM 2540D	
MB 280-507567/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-507567/2	Lab Control Sample	Total/NA	Water	SM 2540D	
280-139904-4 DU	HVL-082720-22	Total/NA	Water	SM 2540D	

Analysis Batch: 507714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Total/NA	Water	SM 2320B	
280-139904-2	HVL-082720-20	Total/NA	Water	SM 2320B	
280-139904-3	HVL-082720-21	Total/NA	Water	SM 2320B	
280-139904-4	HVL-082720-22	Total/NA	Water	SM 2320B	

Eurofins TestAmerica, Denver

QC Association Summary

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

General Chemistry (Continued)

Analysis Batch: 507714 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-507714/31	Method Blank	Total/NA	Water	SM 2320B	
MB 280-507714/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-507714/30	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-507714/4	Lab Control Sample	Total/NA	Water	SM 2320B	
280-139904-2 DU	HVL-082720-20	Total/NA	Water	SM 2320B	

Analysis Batch: 507760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Total/NA	Water	SM 2540C	
280-139904-2	HVL-082720-20	Total/NA	Water	SM 2540C	
280-139904-3	HVL-082720-21	Total/NA	Water	SM 2540C	
280-139904-4	HVL-082720-22	Total/NA	Water	SM 2540C	
MB 280-507760/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-507760/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-139956-A-10 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 508773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Total/NA	Water	SM 5310B	
280-139904-2	HVL-082720-20	Total/NA	Water	SM 5310B	
280-139904-3	HVL-082720-21	Total/NA	Water	SM 5310B	
280-139904-4	HVL-082720-22	Total/NA	Water	SM 5310B	
MB 280-508773/4	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-508773/3	Lab Control Sample	Total/NA	Water	SM 5310B	
280-139904-2 MS	HVL-082720-20	Total/NA	Water	SM 5310B	
280-139904-2 MSD	HVL-082720-20	Total/NA	Water	SM 5310B	

Analysis Batch: 508862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Total/NA	Water	350.1	
280-139904-2	HVL-082720-20	Total/NA	Water	350.1	
280-139904-3	HVL-082720-21	Total/NA	Water	350.1	
280-139904-4	HVL-082720-22	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
280-139904-1	HVL-082720-19	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F)	F009359_P
280-139904-2	HVL-082720-20	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F)	F009359_P
280-139904-3	HVL-082720-21	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F)	F009359_P

Eurofins TestAmerica, Denver

QC Association Summary

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Subcontract (Continued)

Analysis Batch: F009359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-4	HVL-082720-22	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F	F009359_P
F009359-BLK1	Method Blank	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F	F009359_P
F009359-BLK2	Method Blank	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F	F009359_P
F009359-BS1	Lab Control Sample	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F	F009359_P
F009359-BSD1	Lab Control Sample Dup	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F	F009359_P
F009359-MS1	Matrix Spike	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F	F009359_P
F009359-MS2	HVL-082720-19 (280-139904-1) MS	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F	F009359_P
F009359-MSD1	Matrix Spike Duplicate	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F	F009359_P
F009359-MSD2	HVL-082720-19 (280-139904-1) MSD	Total/NA	Water	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F	F009359_P

Prep Batch: F009359_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139904-1	HVL-082720-19	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
280-139904-2	HVL-082720-20	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
280-139904-3	HVL-082720-21	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
280-139904-4	HVL-082720-22	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	

Eurofins TestAmerica, Denver

QC Association Summary

Client: SCS Engineers
 Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Subcontract (Continued)

Prep Batch: F009359_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
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	
F009359-MS2	HVL-082720-19 (280-139904-1) MS	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
F009359-MSD1	Matrix Spike Duplicate	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	
F009359-MSD2	HVL-082720-19 (280-139904-1) MSD	Total/NA	Water	EFGS SOP2836 Closed Vessel Water Oven Digestion	

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Lab Chronicle

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Client Sample ID: HVL-082720-19

Lab Sample ID: 280-139904-1

Date Collected: 08/27/20 09:00

Matrix: Water

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 04:09	PP	TAL DEN
Total/NA	Analysis	300.0		1			482469	09/16/20 04:02	LTC	TAL SL
Total/NA	Analysis	300.0	DL	20			482469	09/16/20 04:18	LTC	TAL SL
Dissolved	Prep	3005A			50 mL	50 mL	507468	08/31/20 17:35	EAS	TAL DEN
Dissolved	Analysis	6010B		1			508484	09/04/20 17:16	LMT	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	507481	09/02/20 08:29	EAS	TAL DEN
Dissolved	Analysis	6020		1			508168	09/04/20 18:57	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	507207	08/28/20 20:29	BWH	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	508862	09/12/20 15:19	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			507714	09/01/20 16:07	RAF	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	507760	09/02/20 12:36	BAR	TAL DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	507567	09/01/20 11:22	BAR	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	508773	09/10/20 20:26	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 Diss Fe 200.8 RL=0.3 mg/L (Eurofins F		1			F009359	09/15/20 00:51	MGS	FrontierGe

Client Sample ID: HVL-082720-20

Lab Sample ID: 280-139904-2

Date Collected: 08/27/20 11:00

Matrix: Water

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 04:30	PP	TAL DEN
Total/NA	Analysis	300.0		1			482469	09/16/20 04:34	LTC	TAL SL
Total/NA	Analysis	300.0	DL	20			482469	09/16/20 04:50	LTC	TAL SL
Dissolved	Prep	3005A			50 mL	50 mL	507468	08/31/20 17:35	EAS	TAL DEN
Dissolved	Analysis	6010B		1			508484	09/04/20 17:44	LMT	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	507481	09/02/20 08:29	EAS	TAL DEN
Dissolved	Analysis	6020		1			508168	09/04/20 19:15	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	507207	08/28/20 20:45	BWH	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	508862	09/12/20 15:21	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			507714	09/01/20 16:35	RAF	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	507760	09/02/20 12:36	BAR	TAL DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	507567	09/01/20 11:22	BAR	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	508773	09/10/20 20:41	JMB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Client Sample ID: HVL-082720-20

Lab Sample ID: 280-139904-2

Date Collected: 08/27/20 11:00

Matrix: Water

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	Prep	EFGS SOP2836 Closed Vessel Water Oven Digestion		1			F009359_P	09/14/20 11:13		FrontierGe
Total/NA	Analysis	LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F		1			F009359	09/15/20 02:42	MGS	FrontierGe

Client Sample ID: HVL-082720-21

Lab Sample ID: 280-139904-3

Date Collected: 08/27/20 11:45

Matrix: Water

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 04:51	PP	TAL DEN
Total/NA	Analysis	300.0		1			482469	09/16/20 05:06	LTC	TAL SL
Total/NA	Analysis	300.0		20	5 mL	1.0 mL	482469	09/16/20 05:22	LTC	TAL SL
Dissolved	Prep	3005A			50 mL	50 mL	507468	08/31/20 17:35	EAS	TAL DEN
Dissolved	Analysis	6010B		1			508484	09/04/20 17:47	LMT	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	507481	09/02/20 08:29	EAS	TAL DEN
Dissolved	Analysis	6020		1			508168	09/04/20 19:18	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	507207	08/28/20 21:02	BWH	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	508862	09/12/20 15:23	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			507714	09/01/20 16:45	RAF	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	507760	09/02/20 12:36	BAR	TAL DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	507567	09/01/20 11:22	BAR	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	508773	09/10/20 21:25	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 Diss Fe 200.8 RL=0.3 mg/L (Eurofins F		1			F009359	09/15/20 02:46	MGS	FrontierGe

Client Sample ID: HVL-082720-22

Lab Sample ID: 280-139904-4

Date Collected: 08/27/20 12:45

Matrix: Water

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 05:13	PP	TAL DEN
Total/NA	Analysis	300.0		1			482469	09/16/20 09:44	LTC	TAL SL
Dissolved	Prep	3005A			50 mL	50 mL	507468	08/31/20 17:35	EAS	TAL DEN
Dissolved	Analysis	6010B		1			508484	09/04/20 17:51	LMT	TAL DEN
Dissolved	Prep	3005A			50 mL	50 mL	507481	09/02/20 08:29	EAS	TAL DEN
Dissolved	Analysis	6020		1			508168	09/04/20 19:22	LMT	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	507207	08/28/20 21:18	BWH	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: SCS Engineers
Project/Site: Hidden Valley LF

Job ID: 280-139904-1

Client Sample ID: HVL-082720-22

Lab Sample ID: 280-139904-4

Date Collected: 08/27/20 12:45

Matrix: Water

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	350.1		1	10 mL	10 mL	508862	09/12/20 15:25	BWH	TAL DEN
Total/NA	Analysis	SM 2320B		1			507714	09/01/20 16:51	RAF	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	507760	09/02/20 12:36	BAR	TAL DEN
Total/NA	Analysis	SM 2540D		1	180 mL	250 mL	507567	09/01/20 11:22	BAR	TAL DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	508773	09/10/20 21:40	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 Diss Fe 200.8 RL=0.3 mg/L (Eurofins F		1			F009359	09/15/20 02:51	MGS	FrontierGe

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-139904-5

Date Collected: 08/27/20 09:00

Matrix: Water

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 05:34	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





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 16:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HVL-082720-19 (280-139904-1)	0I00002-01	Water	27-Aug-20 09:00	01-Sep-20 09:30
HVL-082720-20 (280-139904-2)	0I00002-02	Water	27-Aug-20 11:00	01-Sep-20 09:30
HVL-082720-21 (280-139904-3)	0I00002-03	Water	27-Aug-20 11:45	01-Sep-20 09:30
HVL-082720-22 (280-139904-4)	0I00002-04	Water	27-Aug-20 12:45	01-Sep-20 09:30

Eurofins Frontier Global Sciences, LLC

Patrick Garcia-Strickland, Business Unit Manager

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.





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 16:54

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





Frontier Global Sciences

Sample Receipt Checklist

Client: TA - Denver Date & Time Received: 9/1/2020 5:30 Date Labeled: 9/1/2020 Labeled By: [Signature]
 Project: water Received By: _____ Label Verified By: MPS 9/1/2020

of Coolers Received: 1 Shipping Service Hand Other (Specify): _____
 Samples Arrived By: X 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
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>	

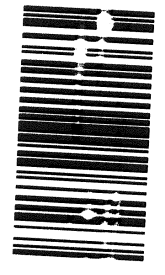
TID:	°C	CF:	°C	Date/time:	By:
Cooler 1:	<u>N</u>	<u>W</u>	<u>CF</u>	<u>9/1/2020</u>	<u>[Signature]</u>
Cooler 2:	<u>N</u>	<u>W</u>	<u>CF</u>	<u>9/1/2020</u>	<u>[Signature]</u>
Cooler 3:	<u>N</u>	<u>W</u>	<u>CF</u>	<u>9/1/2020</u>	<u>[Signature]</u>

Chain of Custody:	Y/N/NA	Comments
Sample ID/Description:	<u>Y</u>	
Date and time of collection:	<u>Y</u>	
Sampled by:	<u>Y</u>	
Preservation type:	<u>Y</u>	
Requested analyses:	<u>Y</u>	
Required signatures:	<u>Y</u>	
Internal COC required:	<u>NO</u>	

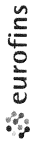
Sample Condition/Integrity:	Y/N/NA	Comments
Sample containers intact/present:	<u>Y</u>	
Sample labels are present and legible:	<u>Y</u>	
Sample ID on container/bag matches COC:	<u>Y</u>	
Correct sample containers used:	<u>Y</u>	
Samples received within holding times:	<u>Y</u>	
Sample volume sufficient for requested analyses:	<u>Y</u>	
Correct preservative used for requested analyses:	<u>NO</u>	

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

0100002



Chain of Custody Record



0100002

Client Information (Sub Contract Lab)		Sampler: Sara, Betsy A		Lab PM: Sara, Betsy A		Carrier Tracking No(s): 280-537115.1		COC No: 280-537115.1				
Client Contact: Shipping/Receiving		Phone: Betsy.Sara@Eurofinset.com		E-Mail: Betsy.Sara@Eurofinset.com		State of Origin: Washington		Page: Page 1 of 1				
Company: Eurofins Frontier Global Sciences LLC		Address: 5755 8th Street E,		Accreditations Required (See note): State Program - Washington		Job #: 280-139904-1		Preservation Codes: A - HCL, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, L - EDTA, Z - other (specify) Other:				
Due Date Requested: 9/16/2020		TAT Requested (days):		Perform Filtered Sample (Yes or No)		Frontier) / LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F)		Analysis Requested				
City: Tacoma	State, Zip: WA, 98424	PO #:	WO #:	Project #: 28003580	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	SUB (LL Diss Fe 200.8 RL=0.3 mg/L (Eurofins F)	Total Number of containers	Special Instructions/Note:
Phone:	Email:	Site: Hidden Valley LF	SSOW#:		8/27/20	09:00 Pacific		Water	X	X	1	
					8/27/20	11:00 Pacific		Water	X	X	1	
					8/27/20	11:45 Pacific		Water	X	X	1	
					8/27/20	12:45 Pacific		Water	X	X	1	

Sample Identification - Client ID (Lab ID)

HVL-082720-19 (280-139904-1)	8/27/20	09:00 Pacific		Water	X
HVL-082720-20 (280-139904-2)	8/27/20	11:00 Pacific		Water	X
HVL-082720-21 (280-139904-3)	8/27/20	11:45 Pacific		Water	X
HVL-082720-22 (280-139904-4)	8/27/20	12:45 Pacific		Water	X

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory 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 attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 8/31/2020 1330 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: 1414053 Cooler Temperature(s) °C and Other Remarks: _____



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 16:54
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HVL-082720-19 (280-139904-1)
0100002-01

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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Eurofins Frontier Global Sciences, LLC

Patrick Garcia-Strickland, Business Unit Manager

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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 16:54
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HVL-082720-20 (280-139904-2)

0100002-02

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	----------	--------	-------

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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Eurofins Frontier Global Sciences, LLC

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 16:54
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HVL-082720-21 (280-139904-3)

0100002-03

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
------	----	---	----	------	---	---------	-----------	---------	-----------	-----------	---

Eurofins Frontier Global Sciences, LLC

Patrick Garcia-Strickland, Business Unit Manager

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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 16:54
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HVL-082720-22 (280-139904-4)

0I00002-04

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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Eurofins Frontier Global Sciences, LLC

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 16:54

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0I15014 - F009358

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

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Patrick Garcia-Strickland, Business Unit Manager



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 16:54

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0115014 - F009358

Cal Standard (0115014-CALB)					Prepared & Analyzed: 14-Sep-20						
Iron	996	-		µg/L	1000.0		99.6				
Cal Standard (0115014-CALC)					Prepared & Analyzed: 14-Sep-20						
Iron	2001	-		µg/L	2000.0		100				
Calibration Blank (0115014-CCB1)					Prepared & Analyzed: 14-Sep-20						
Iron	0.09	-		µg/L							
Calibration Blank (0115014-CCB2)					Prepared & Analyzed: 14-Sep-20						
Iron	0.1	-		µg/L							
Calibration Blank (0115014-CCB3)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	0.1	-		µg/L							
Calibration Blank (0115014-CCB4)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	0.09	-		µg/L							
Calibration Blank (0115014-CCB5)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	0.3	-		µg/L							
Calibration Blank (0115014-CCB6)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	0.1	-		µg/L							
Calibration Blank (0115014-CCB7)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	0.1	-		µg/L							
Calibration Blank (0115014-CCB8)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	0.1	-		µg/L							

Eurofins Frontier Global Sciences, LLC

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Patrick Garcia-Strickland, Business Unit Manager



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 16:54

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0115014 - F009358

Calibration Check (0115014-CCV1)					Prepared & Analyzed: 14-Sep-20						
Iron	249	-		µg/L	250.60		99.5	90-110			
Calibration Check (0115014-CCV2)					Prepared & Analyzed: 14-Sep-20						
Iron	252	-		µg/L	250.60		100	90-110			
Calibration Check (0115014-CCV3)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	239	-		µg/L	250.60		95.2	90-110			
Calibration Check (0115014-CCV4)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	241	-		µg/L	250.60		96.0	90-110			
Calibration Check (0115014-CCV5)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	239	-		µg/L	250.60		95.4	90-110			
Calibration Check (0115014-CCV6)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	239	-		µg/L	250.60		95.5	90-110			
Calibration Check (0115014-CCV7)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	245	-		µg/L	250.60		97.6	90-110			
Calibration Check (0115014-CCV8)					Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	237	-		µg/L	250.60		94.6	90-110			
Initial Cal Blank (0115014-ICB1)					Prepared & Analyzed: 14-Sep-20						
Iron	0.1	-		µg/L							
Initial Cal Check (0115014-ICV1)					Prepared & Analyzed: 14-Sep-20						
Iron	251	-		µg/L	250.60		100	90-110			

Eurofins Frontier Global Sciences, LLC

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Patrick Garcia-Strickland, Business Unit Manager



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 16:54

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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	

Eurofins Frontier Global Sciences, LLC

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Patrick Garcia-Strickland, Business Unit Manager



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 16:54

Quality Control Data

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

Matrix Spike (F009359-MS1)		Source: 0100001-01			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: 0100002-01			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: 0100001-01			Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	4093	-	5	µg/L	1250.0	2868	98.0	70-130	7.49	20	E
Matrix Spike Dup (F009359-MSD2)		Source: 0100002-01			Prepared: 14-Sep-20 Analyzed: 15-Sep-20						
Iron	2424	-	10	µg/L	2500.0	ND	96.9	70-130	1.06	20	

Eurofins Frontier Global Sciences, LLC

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 16:54
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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

Eurofins Frontier Global Sciences, LLC

Patrick Garcia-Strickland, Business Unit Manager

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Client Information Client Contact: Sam Graber Company: SCS Engineers Address: 2405 140th Avenue NE Suite 107 City: Bellevue State, Zip: WA, 98005-1877 Phone: 425-766-5362 Email: SGrabert@scsengineers.com Project Name: Hidden Valley Landfill Site: 2		Sampler: Sam G. Lab PM: Sara, Beisy A Phone: 425-766-3362 E-Mail: beisy.sara@testamericainc.com		Carmer Tracking No(s): 8156 5924 6309 8156 5924 6581 COC No: 280-21691-6019.1 Page: 1 of 1 Job #: 04220002.03																																									
Due Date Requested: Standard TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 28003580-Quarterly Groundwater Wells SSOW#:		Analysis Requested <table border="1"> <thead> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>8268B</th> <th>Dissolved Metals (60108/6020)</th> <th>Dissolved Iron (Frontier)</th> <th>TDS/Alk/NO3(C)</th> <th>CS/SD (TA St. Louis)</th> <th>Ammonia/TOC</th> <th>TSS</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table>				Field Filtered Sample (Yes or No)	8268B	Dissolved Metals (60108/6020)	Dissolved Iron (Frontier)	TDS/Alk/NO3(C)	CS/SD (TA St. Louis)	Ammonia/TOC	TSS	Y	X	X	X	X	X	X	X	N	X	X	X	X	X	X	X	N	X	X	X	X	X	X	X	N	X	X	X	X	X	X	X
Field Filtered Sample (Yes or No)	8268B	Dissolved Metals (60108/6020)	Dissolved Iron (Frontier)	TDS/Alk/NO3(C)	CS/SD (TA St. Louis)	Ammonia/TOC	TSS																																						
Y	X	X	X	X	X	X	X																																						
N	X	X	X	X	X	X	X																																						
N	X	X	X	X	X	X	X																																						
N	X	X	X	X	X	X	X																																						
Sample Identification HVL-082720-19 HVL-092720-20 HVL-082720-21 HVL-082720-22 Top blank		Sample Date 8/27/20 1100 1145 1245 -		Sample Time 900 6 1100 1145 1245 -																																									
Matrix (W=water, S=solid, O=soil, B=soil, A=air) W W W W W		Preservation Code: W W W W W																																											
Barcode: 280-139904 Chain of Custody		Special Instructions/Note: Short Hold: NO3(C)																																											
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Radiological <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																											
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/OC Requirements:																																											
Empty Kit Relinquished by:		Method of Shipment:																																											
Relinquished by: [Signature] Date/Time: 9/27/20 1500 Company: SCS		Received by: [Signature] Date/Time: 8/28/20 0930 Company: ETA-DUN																																											
Relinquished by: [Signature] Date/Time: Company:		Received by: Date/Time: Company:																																											
Relinquished by: Date/Time: Company:		Received by: Date/Time: Company:																																											
Custody Seals intact: Δ Yes Δ No		Custody Seal No.: 1309107, 1309106 Cooler Temperature(s) °C and Other Remarks: 4.3 IR# 11-0-2 EP 8/28/20																																											





280-139904 Waybill

Do Not Lift Using This

FedEx Express *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 conditions.

1 From See optional release signature below.

ORDER: 00851499

DECLARED VALUE \$100
PACKAGE WEIGHT

()

2 To Shipment will not be accepted if address below.

SAMPLE RECEIVING
TESTAMERICA DENVER
4955 YARROW ST
ARVADA, CO 80002
(303) 736-0100

R1 650

4 10:30 G 6581 08.28

SATURDAY DELIVERY

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



REF: Hold at an angle to view.

8156 5924 6581

FedEx

TRK# 8156 5924 6581
0667

**FRI - 28 AUG 10:30A
PRIORITY OVERNIGHT**

XH LAAA

**80002
CO-US
DEN**



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



280-139904 Waybill

Do Not Lift Using This

FedEx Expanded
Express 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 conditions.

1 From See optional release signature below.

ORDER: 00851499

DECLARED VALUE \$100
PACKAGE WEIGHT
()

2 To Shipment will not be accepted if address below.

SAMPLE RECEIVING
TESTAMERICA DENVER
4955 YARROW ST
ARVADA, CO 80002
(303) 736-0100

RI 650
FZ
A 10:30
G 6581
08.28

SATURDAY DELIVERY

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REF

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PRIORITY OVERNIGHT**

XH LAAA

**80002
CO-US
DEN**



FID: 790323 27Aug2020 TCMA 56CC2/7709/05A2

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-537114.1
Client Contact: Shipping/Receiving		E-Mail: Betsy.Sara@Eurofinset.com	State of Origin: Washington	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Washington	Job #: 280-139904-1	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH4-5 Z - other (specify)
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Due Date Requested: 9/17/2020 TAT Requested (days):	Analysis Requested	
Project Name: Hidden Valley LF Site:		PO #: WO #: Project #: 28003580 SSOW#:	Total Number of Containers	
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	Special Instructions/Note:	
		Performance M/MSD (Yes or No) <input checked="" type="checkbox"/>		
		300 ORGM 28D/ (MOD) Sulfate/Chloride (TA St. Louis)		
		Matrix (W=water, S=solid, O=wastewater, BT=titration, AS=alk)		
		Sample Type (C=Comp, G=grab)		
		Sample Time		
		Sample Date		
HVL-082720-19 (280-139904-1)		8/27/20	09:00 Pacific	X
HVL-082720-20 (280-139904-2)		8/27/20	11:00 Pacific	X
HVL-082720-21 (280-139904-3)		8/27/20	11:45 Pacific	X
HVL-082720-22 (280-139904-4)		8/27/20	12:45 Pacific	X

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory 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 attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: *Shawn R. Hall* Date: 8/31/20 13:25 Company: ETHA Denver
 Relinquished by: *FedEx* Date/Time: 9/1/20 09:30 Company: ETASTL
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 280-139904-1

Login Number: 139904

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: 280-139904-1

Login Number: 139904

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

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

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	