

ANALYTICAL REPORT

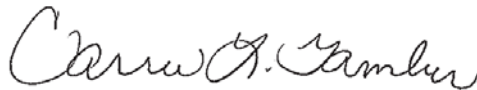
Job Number: 180-59490-1

Job Description: Harley Davidson

For:

Groundwater Sciences Corporation
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Harrisburg, PA 17110-9307

Attention: Allan Miller



Approved for release.
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Senior Project Manager
10/17/2016 7:56 AM

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Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-59490-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-59490-1

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

Client Sample ID: HD-MW-110-0/1-0

Date Collected: 10/05/16 15:50

Date Received: 10/06/16 08:50

Lab Sample ID: 180-59490-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U ^c	1.0	0.23	ug/L			10/11/16 21:51	1
Vinyl chloride	1.0	U ^c *	1.0	0.32	ug/L			10/11/16 21:51	1
Bromomethane	1.0	U	1.0	0.36	ug/L			10/11/16 21:51	1
Chloroethane	1.0	U ^c	1.0	0.26	ug/L			10/11/16 21:51	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/11/16 21:51	1
Acetone	3.1	J ^c	5.0	2.5	ug/L			10/11/16 21:51	1
Carbon disulfide	1.0	U	1.0	0.18	ug/L			10/11/16 21:51	1
Methylene Chloride	1.0	U	1.0	0.36	ug/L			10/11/16 21:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/11/16 21:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.24	ug/L			10/11/16 21:51	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/11/16 21:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/11/16 21:51	1
Bromochloromethane	1.0	U	1.0	0.38	ug/L			10/11/16 21:51	1
2-Butanone (MEK)	5.0	U ^c	5.0	1.2	ug/L			10/11/16 21:51	1
Chloroform	0.59	J	1.0	0.27	ug/L			10/11/16 21:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			10/11/16 21:51	1
Carbon tetrachloride	1.0	U	1.0	0.24	ug/L			10/11/16 21:51	1
Benzene	1.0	U	1.0	0.26	ug/L			10/11/16 21:51	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/11/16 21:51	1
Trichloroethene	1.0		1.0	0.26	ug/L			10/11/16 21:51	1
1,2-Dichloropropane	1.0	U	1.0	0.23	ug/L			10/11/16 21:51	1
Bromodichloromethane	1.0	U	1.0	0.23	ug/L			10/11/16 21:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			10/11/16 21:51	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.59	ug/L			10/11/16 21:51	1
Toluene	1.0	U	1.0	0.28	ug/L			10/11/16 21:51	1
trans-1,3-Dichloropropene	1.0	U ^c	1.0	0.24	ug/L			10/11/16 21:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			10/11/16 21:51	1
Tetrachloroethene	71	E	1.0	0.27	ug/L			10/11/16 21:51	1
2-Hexanone	5.0	U	5.0	0.74	ug/L			10/11/16 21:51	1
Dibromochloromethane	1.0	U	1.0	0.40	ug/L			10/11/16 21:51	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.29	ug/L			10/11/16 21:51	1
Chlorobenzene	1.0	U	1.0	0.31	ug/L			10/11/16 21:51	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/11/16 21:51	1
Ethylbenzene	1.0	U	1.0	0.27	ug/L			10/11/16 21:51	1
Xylenes, Total	2.0	U	2.0	0.48	ug/L			10/11/16 21:51	1
Styrene	1.0	U	1.0	0.26	ug/L			10/11/16 21:51	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/11/16 21:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.35	ug/L			10/11/16 21:51	1
Acrylonitrile	20	U	20	2.8	ug/L			10/11/16 21:51	1
1,4-Dioxane	200	U	200	7.5	ug/L			10/11/16 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		72 - 134		10/11/16 21:51	1
Toluene-d8 (Surr)	103		80 - 120		10/11/16 21:51	1
4-Bromofluorobenzene (Surr)	109		72 - 120		10/11/16 21:51	1
Dibromofluoromethane (Surr)	110		77 - 127		10/11/16 21:51	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-59490-1

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

Client Sample ID: HD-MW-110-0/1-0

Date Collected: 10/05/16 15:50

Date Received: 10/06/16 08:50

Lab Sample ID: 180-59490-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	5.0	U ^c	5.0	1.1	ug/L			10/12/16 16:40	5
Vinyl chloride	5.0	U ^c	5.0	1.6	ug/L			10/12/16 16:40	5
Bromomethane	5.0	U	5.0	1.8	ug/L			10/12/16 16:40	5
Chloroethane	5.0	U	5.0	1.3	ug/L			10/12/16 16:40	5
1,1-Dichloroethene	5.0	U	5.0	1.4	ug/L			10/12/16 16:40	5
Acetone	25	U ^c	25	13	ug/L			10/12/16 16:40	5
Carbon disulfide	5.0	U	5.0	0.92	ug/L			10/12/16 16:40	5
Methylene Chloride	8.5		5.0	1.8	ug/L			10/12/16 16:40	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.4	ug/L			10/12/16 16:40	5
Methyl tert-butyl ether	5.0	U	5.0	1.2	ug/L			10/12/16 16:40	5
1,1-Dichloroethane	5.0	U	5.0	1.2	ug/L			10/12/16 16:40	5
cis-1,2-Dichloroethene	5.0	U	5.0	1.4	ug/L			10/12/16 16:40	5
Bromochloromethane	5.0	U	5.0	1.9	ug/L			10/12/16 16:40	5
2-Butanone (MEK)	25	U ^c	25	5.8	ug/L			10/12/16 16:40	5
Chloroform	5.0	U	5.0	1.4	ug/L			10/12/16 16:40	5
1,1,1-Trichloroethane	5.0	U	5.0	1.1	ug/L			10/12/16 16:40	5
Carbon tetrachloride	5.0	U	5.0	1.2	ug/L			10/12/16 16:40	5
Benzene	5.0	U	5.0	1.3	ug/L			10/12/16 16:40	5
1,2-Dichloroethane	5.0	U	5.0	1.2	ug/L			10/12/16 16:40	5
Trichloroethene	5.0	U	5.0	1.3	ug/L			10/12/16 16:40	5
1,2-Dichloropropane	5.0	U	5.0	1.1	ug/L			10/12/16 16:40	5
Bromodichloromethane	5.0	U	5.0	1.2	ug/L			10/12/16 16:40	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.0	ug/L			10/12/16 16:40	5
4-Methyl-2-pentanone (MIBK)	25	U	25	3.0	ug/L			10/12/16 16:40	5
Toluene	5.0	U	5.0	1.4	ug/L			10/12/16 16:40	5
trans-1,3-Dichloropropene	5.0	U ^c	5.0	1.2	ug/L			10/12/16 16:40	5
1,1,2-Trichloroethane	5.0	U	5.0	1.7	ug/L			10/12/16 16:40	5
Tetrachloroethene	59		5.0	1.3	ug/L			10/12/16 16:40	5
2-Hexanone	25	U	25	3.7	ug/L			10/12/16 16:40	5
Dibromochloromethane	5.0	U	5.0	2.0	ug/L			10/12/16 16:40	5
1,2-Dibromoethane (EDB)	5.0	U	5.0	1.4	ug/L			10/12/16 16:40	5
Chlorobenzene	5.0	U	5.0	1.6	ug/L			10/12/16 16:40	5
1,1,1,2-Tetrachloroethane	5.0	U	5.0	0.98	ug/L			10/12/16 16:40	5
Ethylbenzene	5.0	U	5.0	1.4	ug/L			10/12/16 16:40	5
Xylenes, Total	10	U	10	2.4	ug/L			10/12/16 16:40	5
Styrene	5.0	U	5.0	1.3	ug/L			10/12/16 16:40	5
Bromoform	5.0	U	5.0	1.5	ug/L			10/12/16 16:40	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.7	ug/L			10/12/16 16:40	5
Acrylonitrile	100	U ^c	100	14	ug/L			10/12/16 16:40	5
1,4-Dioxane	1000	U	1000	37	ug/L			10/12/16 16:40	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		72 - 134		10/12/16 16:40	5
Toluene-d8 (Surr)	104		80 - 120		10/12/16 16:40	5
4-Bromofluorobenzene (Surr)	106		72 - 120		10/12/16 16:40	5
Dibromofluoromethane (Surr)	105		77 - 127		10/12/16 16:40	5

