

ANALYTICAL REPORT

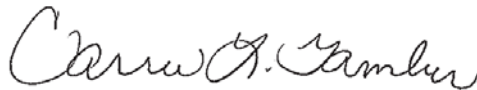
Job Number: 180-59490-1

Job Description: Harley Davidson

For:

Groundwater Sciences Corporation
2601 Market Place Street, Suite 310
Harrisburg, PA 17110-9307

Attention: Allan Miller



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

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10/17/2016

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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-151-0/1-0

Date Collected: 10/05/16 10:32

Date Received: 10/06/16 08:50

Lab Sample ID: 180-59490-3

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 19:51	1
Vinyl chloride	1.0	U ^c *	1.0	0.32	ug/L			10/11/16 19:51	1
Bromomethane	1.0	U	1.0	0.36	ug/L			10/11/16 19:51	1
Chloroethane	1.0	U ^c	1.0	0.26	ug/L			10/11/16 19:51	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/11/16 19:51	1
Acetone	3.0	J ^c	5.0	2.5	ug/L			10/11/16 19:51	1
Carbon disulfide	1.0	U	1.0	0.18	ug/L			10/11/16 19:51	1
Methylene Chloride	1.0	U	1.0	0.36	ug/L			10/11/16 19:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/11/16 19:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.24	ug/L			10/11/16 19:51	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/11/16 19:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/11/16 19:51	1
Bromochloromethane	1.0	U	1.0	0.38	ug/L			10/11/16 19:51	1
2-Butanone (MEK)	5.0	U ^c	5.0	1.2	ug/L			10/11/16 19:51	1
Chloroform	1.0	U	1.0	0.27	ug/L			10/11/16 19:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			10/11/16 19:51	1
Carbon tetrachloride	1.0	U	1.0	0.24	ug/L			10/11/16 19:51	1
Benzene	1.0	U	1.0	0.26	ug/L			10/11/16 19:51	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/11/16 19:51	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			10/11/16 19:51	1
1,2-Dichloropropane	1.0	U	1.0	0.23	ug/L			10/11/16 19:51	1
Bromodichloromethane	1.0	U	1.0	0.23	ug/L			10/11/16 19:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			10/11/16 19:51	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.59	ug/L			10/11/16 19:51	1
Toluene	1.0	U	1.0	0.28	ug/L			10/11/16 19:51	1
trans-1,3-Dichloropropene	1.0	U ^c	1.0	0.24	ug/L			10/11/16 19:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			10/11/16 19:51	1
Tetrachloroethene	2.2		1.0	0.27	ug/L			10/11/16 19:51	1
2-Hexanone	5.0	U	5.0	0.74	ug/L			10/11/16 19:51	1
Dibromochloromethane	1.0	U	1.0	0.40	ug/L			10/11/16 19:51	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.29	ug/L			10/11/16 19:51	1
Chlorobenzene	1.0	U	1.0	0.31	ug/L			10/11/16 19:51	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/11/16 19:51	1
Ethylbenzene	1.0	U	1.0	0.27	ug/L			10/11/16 19:51	1
Xylenes, Total	2.0	U	2.0	0.48	ug/L			10/11/16 19:51	1
Styrene	1.0	U	1.0	0.26	ug/L			10/11/16 19:51	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/11/16 19:51	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.35	ug/L			10/11/16 19:51	1
Acrylonitrile	20	U	20	2.8	ug/L			10/11/16 19:51	1
1,4-Dioxane	200	U	200	7.5	ug/L			10/11/16 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		72 - 134		10/11/16 19:51	1
Toluene-d8 (Surr)	105		80 - 120		10/11/16 19:51	1
4-Bromofluorobenzene (Surr)	105		72 - 120		10/11/16 19:51	1
Dibromofluoromethane (Surr)	109		77 - 127		10/11/16 19:51	1

Chain of Custody Record

Client Contact
 Groundwater Sciences Corporation
 2601 Market Place St. Suite 310
 Harrisburg, PA 17110
 Phone (717) 901-8180
 FAX (717) 657-1611
 Project Name: 2016 Comprehensive Event
 Site: Harley-Davidson, York PA
 Quote # 18000657

Project Manager: Christopher D. O'neil CD
Tel/Fax: 717-901-8176 / (717) 657-1611
Analysis Turnaround Time
 2 weeks
 1 week
 5 days
 1 day

Date Submitted: 10/5/16
Carrier: FEDEX
COC No.: TAP20161005
Job No.: 1001230
Container No.: 1
SYG No.:

Site Contact: Jennifer S. Reschke JCR
Lab Contact: Carrie Gamber
Lab Contact: Carrie Gamber
 L-4-Dioxane (SW846 8270D LL)
 MS (SW846 6020/SW846 7470A)
 Select List Dissolved Metals by ICP
 (SW846 6020/SW846 7470A)
 Select List Total Metals by ICP MS
 (SW846 6020/SW846 7470A)
 VOCs (8260)

Notes:
 180-56490 Chain of Custody



Sample Identification

Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
10/5/16	1000	GW	W	3
10/5/16	1330	GW	W	5
10/5/16	1432	GW	W	3
10/5/16	1435	GW	W	5
10/5/16	1200	top Blanks	W	2
10/5/16	1430	GW	W	3
10/5/16	1630	GW	W	3
10/5/16	1550	GW	W	3

Number of Containers

Field Filter

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Unpreserved 7= Zinc Acetate & NaOH

Possible Hazard Identification

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client
 Disposal By Lab
 A For Months

Special Instructions/QC Requirements & Comments: CLP Like Deliverables

Relinquished by (Print and Sign): *[Signature]*
 Relinquished by: *[Signature]*
 Relinquished by:

Company: GSC
 Company:

Date/Time: 10/5/16 1700
 Date/Time:

Received by: *[Signature]*
 Received by:

Company: TAP
 Company:

Date/Time: 10-6-16
 Date/Time:

Received by: *[Signature]*
 Received by:

Company: TAP
 Company:

Date/Time: 10-6-16
 Date/Time: