

## ANALYTICAL REPORT

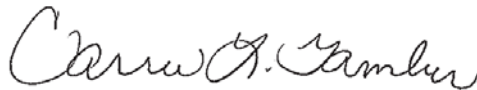
Job Number: 180-59544-1

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  
10/21/2016 12:41 PM

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10/21/2016

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**TestAmerica Laboratories, Inc.**

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# Definitions/Glossary

Client: Groundwater Sciences Corporation  
Project/Site: Harley Davidson

TestAmerica Job ID: 180-59544-1

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## Qualifiers

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### 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.

### 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.

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## Glossary

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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: 180-59544-1

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

**Client Sample ID: HD-GM-1D-0/1-0**

**Date Collected: 10/06/16 10:18**

**Date Received: 10/07/16 09:00**

**Lab Sample ID: 180-59544-5**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U ^c	1.0	0.23	ug/L			10/12/16 13:03	1
Vinyl chloride	1.0	U ^c	1.0	0.32	ug/L			10/12/16 13:03	1
Bromomethane	1.0	U	1.0	0.36	ug/L			10/12/16 13:03	1
Chloroethane	1.0	U	1.0	0.26	ug/L			10/12/16 13:03	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/12/16 13:03	1
<b>Acetone</b>	<b>2.5</b>	<b>J ^c</b>	5.0	2.5	ug/L			10/12/16 13:03	1
Carbon disulfide	1.0	U	1.0	0.18	ug/L			10/12/16 13:03	1
Methylene Chloride	1.0	U	1.0	0.36	ug/L			10/12/16 13:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/12/16 13:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.24	ug/L			10/12/16 13:03	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/12/16 13:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/12/16 13:03	1
Bromochloromethane	1.0	U	1.0	0.38	ug/L			10/12/16 13:03	1
2-Butanone (MEK)	5.0	U ^c	5.0	1.2	ug/L			10/12/16 13:03	1
Chloroform	1.0	U	1.0	0.27	ug/L			10/12/16 13:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			10/12/16 13:03	1
Carbon tetrachloride	1.0	U	1.0	0.24	ug/L			10/12/16 13:03	1
Benzene	1.0	U	1.0	0.26	ug/L			10/12/16 13:03	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/12/16 13:03	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			10/12/16 13:03	1
1,2-Dichloropropane	1.0	U	1.0	0.23	ug/L			10/12/16 13:03	1
Bromodichloromethane	1.0	U	1.0	0.23	ug/L			10/12/16 13:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			10/12/16 13:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.59	ug/L			10/12/16 13:03	1
Toluene	1.0	U	1.0	0.28	ug/L			10/12/16 13:03	1
trans-1,3-Dichloropropene	1.0	U ^c	1.0	0.24	ug/L			10/12/16 13:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			10/12/16 13:03	1
<b>Tetrachloroethene</b>	<b>2.5</b>		1.0	0.27	ug/L			10/12/16 13:03	1
2-Hexanone	5.0	U	5.0	0.74	ug/L			10/12/16 13:03	1
Dibromochloromethane	1.0	U	1.0	0.40	ug/L			10/12/16 13:03	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.29	ug/L			10/12/16 13:03	1
Chlorobenzene	1.0	U	1.0	0.31	ug/L			10/12/16 13:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/12/16 13:03	1
Ethylbenzene	1.0	U	1.0	0.27	ug/L			10/12/16 13:03	1
Xylenes, Total	2.0	U	2.0	0.48	ug/L			10/12/16 13:03	1
Styrene	1.0	U	1.0	0.26	ug/L			10/12/16 13:03	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/12/16 13:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.35	ug/L			10/12/16 13:03	1
Acrylonitrile	20	U ^c	20	2.8	ug/L			10/12/16 13:03	1
1,4-Dioxane	200	U	200	7.5	ug/L			10/12/16 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		72 - 134		10/12/16 13:03	1
Toluene-d8 (Surr)	107		80 - 120		10/12/16 13:03	1
4-Bromofluorobenzene (Surr)	117		72 - 120		10/12/16 13:03	1
Dibromofluoromethane (Surr)	99		77 - 127		10/12/16 13:03	1

Client Contact

Groundwater Sciences Corporation  
 2601 Market Place St. Suite 310  
 Harrisburg, PA 17110  
 (717) 901-8180 Phone  
 (717) 657-1611 FAX  
 Project Name: 2016 Comprehensive Event  
 Site: Harley-Davidson, York PA  
 Quote # 18000557

Project Manager: Christopher D. O'neil

Tel/Fax: 717-901-8176 / (717) 657-1611

Analysis Turnaround Time

Calendar (C) or Work Days (W)  
 LAL if different from below. Standard  
 2 weeks  
 1 week  
 5 days  
 1 day

Sample Identification

HD-Cole D - 0/1-0

Sample Date: 10/6/16  
 Sample Time: 1507  
 Sample Type: GW  
 Matrix: W  
 # of Cont.: 3

COC No: TAP2016 100602

Date Submitted: 10/6/16  
 Carrier: FEDEX  
 2 of 2 COCs

Job No. 10012.30

Container No. 1

SDG No.

Sample Specific Notes:

Site Contact: Jennifer Reese COB

Lab Contact: Carrie Gamber

Select List Total Metals by ICP MS (SW846 6020/SW846 7470A)  
 Select List Dissolved Metals by ICP MS (SW846 6020/SW846 7470A)  
 1,4-Dioxane (SW846 8270D LL)

VOCs (8260C) X

Number of Containers

Field Filter

3 1 1 2  
 2 1 1 1  
 N N Y N

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

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

Return To Client  Disposal By Lab  Months

Possible Hazard Identification

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments: CLP Like Deliverables

Relinquished by: [Signature]

Company: GSC

Date/Time: 10/6/16 1615

Received by: [Signature]

Date/Time: 10-7-16

Relinquished by: [Signature]

Company:

Date/Time:

Received by:

Date/Time: 9:00

Relinquished by:

Company:

Date/Time:

Received by:

Date/Time: