

## ANALYTICAL REPORT

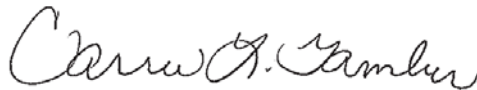
Job Number: 180-60202-1

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  
11/2/2016 1:13 PM

---

Carrie L Gamber, Senior Project Manager  
301 Alpha Drive, Pittsburgh, PA, 15238  
(412)963-2428  
carrie.gamber@testamericainc.com  
11/02/2016

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager or designee who has signed this report.

**TestAmerica Laboratories, Inc.**

TestAmerica Pittsburgh 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238  
Tel (412) 963-7058 Fax (412) 963-2468 [www.testamericainc.com](http://www.testamericainc.com)



# Definitions/Glossary

Client: Groundwater Sciences Corporation  
Project/Site: Harley Davidson

TestAmerica Job ID: 180-60202-1

---

## 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.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

### GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

---

## 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: 180-60202-1

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

**Client Sample ID: HD-CW-17-0/1-0**

**Date Collected: 10/26/16 07:05**

**Date Received: 10/27/16 09:00**

**Lab Sample ID: 180-60202-11**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.0	U	2.0	0.46	ug/L			10/31/16 11:44	2
Vinyl chloride	2.0	U	2.0	0.63	ug/L			10/31/16 11:44	2
Bromomethane	2.0	U	2.0	0.72	ug/L			10/31/16 11:44	2
Chloroethane	2.0	U	2.0	0.52	ug/L			10/31/16 11:44	2
<b>1,1-Dichloroethene</b>	<b>3.7</b>		2.0	0.57	ug/L			10/31/16 11:44	2
Acetone	10	U	10	5.0	ug/L			10/31/16 11:44	2
Carbon disulfide	2.0	U	2.0	0.37	ug/L			10/31/16 11:44	2
Methylene Chloride	2.0	U	2.0	0.72	ug/L			10/31/16 11:44	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.57	ug/L			10/31/16 11:44	2
Methyl tert-butyl ether	2.0	U	2.0	0.49	ug/L			10/31/16 11:44	2
<b>1,1-Dichloroethane</b>	<b>2.5</b>		2.0	0.47	ug/L			10/31/16 11:44	2
<b>cis-1,2-Dichloroethene</b>	<b>55 F1</b>		2.0	0.57	ug/L			10/31/16 11:44	2
Bromochloromethane	2.0	U	2.0	0.75	ug/L			10/31/16 11:44	2
2-Butanone (MEK)	10	U	10	2.3	ug/L			10/31/16 11:44	2
Chloroform	2.0	U	2.0	0.55	ug/L			10/31/16 11:44	2
<b>1,1,1-Trichloroethane</b>	<b>4.9</b>		2.0	0.44	ug/L			10/31/16 11:44	2
Carbon tetrachloride	2.0	U	2.0	0.49	ug/L			10/31/16 11:44	2
Benzene	2.0	U	2.0	0.51	ug/L			10/31/16 11:44	2
1,2-Dichloroethane	2.0	U	2.0	0.49	ug/L			10/31/16 11:44	2
<b>Trichloroethene</b>	<b>37 F1</b>		2.0	0.52	ug/L			10/31/16 11:44	2
1,2-Dichloropropane	2.0	U	2.0	0.45	ug/L			10/31/16 11:44	2
Bromodichloromethane	2.0	U	2.0	0.47	ug/L			10/31/16 11:44	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.41	ug/L			10/31/16 11:44	2
4-Methyl-2-pentanone (MIBK)	10	U	10	1.2	ug/L			10/31/16 11:44	2
Toluene	2.0	U	2.0	0.56	ug/L			10/31/16 11:44	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.48	ug/L			10/31/16 11:44	2
1,1,2-Trichloroethane	2.0	U	2.0	0.70	ug/L			10/31/16 11:44	2
<b>Tetrachloroethene</b>	<b>20</b>		2.0	0.54	ug/L			10/31/16 11:44	2
2-Hexanone	10	U	10	1.5	ug/L			10/31/16 11:44	2
Dibromochloromethane	2.0	U	2.0	0.79	ug/L			10/31/16 11:44	2
1,2-Dibromoethane (EDB)	2.0	U	2.0	0.58	ug/L			10/31/16 11:44	2
Chlorobenzene	2.0	U	2.0	0.63	ug/L			10/31/16 11:44	2
1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.39	ug/L			10/31/16 11:44	2
Ethylbenzene	2.0	U	2.0	0.55	ug/L			10/31/16 11:44	2
Xylenes, Total	4.0	U	4.0	0.97	ug/L			10/31/16 11:44	2
Styrene	2.0	U	2.0	0.53	ug/L			10/31/16 11:44	2
Bromoform	2.0	U	2.0	0.59	ug/L			10/31/16 11:44	2
1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.69	ug/L			10/31/16 11:44	2
Acrylonitrile	40	U	40	5.5	ug/L			10/31/16 11:44	2
1,4-Dioxane	400	U ^c	400	15	ug/L			10/31/16 11:44	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		72 - 134		10/31/16 11:44	2
Toluene-d8 (Surr)	98		80 - 120		10/31/16 11:44	2
4-Bromofluorobenzene (Surr)	100		72 - 120		10/31/16 11:44	2
Dibromofluoromethane (Surr)	96		77 - 127		10/31/16 11:44	2

Chain of Custody Record