

ANALYTICAL REPORT

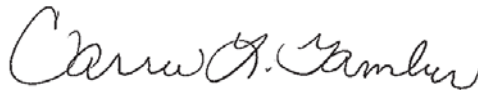
Job Number: 180-59429-1

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 7:50 AM

Carrie L Gamber, Senior Project Manager
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10/17/2016

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TestAmerica Laboratories, Inc.

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Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-59429-1

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

Metals

Qualifier	Qualifier Description
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.
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: 180-59429-1

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

Client Sample ID: HD-RW-2-0/1-0
Date Collected: 10/03/16 15:15
Date Received: 10/05/16 08:40

Lab Sample ID: 180-59429-3
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 15:49	1
Vinyl chloride	1.0	U ^c *	1.0	0.32	ug/L			10/11/16 15:49	1
Bromomethane	1.0	U	1.0	0.36	ug/L			10/11/16 15:49	1
Chloroethane	1.0	U ^c	1.0	0.26	ug/L			10/11/16 15:49	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/11/16 15:49	1
Acetone	4.5	J ^c	5.0	2.5	ug/L			10/11/16 15:49	1
Carbon disulfide	1.0	U	1.0	0.18	ug/L			10/11/16 15:49	1
Methylene Chloride	1.0	U	1.0	0.36	ug/L			10/11/16 15:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/11/16 15:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.24	ug/L			10/11/16 15:49	1
1,1-Dichloroethane	1.0	U	1.0	0.24	ug/L			10/11/16 15:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/11/16 15:49	1
Bromochloromethane	1.0	U	1.0	0.38	ug/L			10/11/16 15:49	1
2-Butanone (MEK)	5.0	U ^c	5.0	1.2	ug/L			10/11/16 15:49	1
Chloroform	1.0	U	1.0	0.27	ug/L			10/11/16 15:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			10/11/16 15:49	1
Carbon tetrachloride	1.0	U	1.0	0.24	ug/L			10/11/16 15:49	1
Benzene	1.0	U	1.0	0.26	ug/L			10/11/16 15:49	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			10/11/16 15:49	1
Trichloroethene	3.7		1.0	0.26	ug/L			10/11/16 15:49	1
1,2-Dichloropropane	1.0	U	1.0	0.23	ug/L			10/11/16 15:49	1
Bromodichloromethane	1.0	U	1.0	0.23	ug/L			10/11/16 15:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			10/11/16 15:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.59	ug/L			10/11/16 15:49	1
Toluene	1.0	U	1.0	0.28	ug/L			10/11/16 15:49	1
trans-1,3-Dichloropropene	1.0	U ^c	1.0	0.24	ug/L			10/11/16 15:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.35	ug/L			10/11/16 15:49	1
Tetrachloroethene	1.0	U	1.0	0.27	ug/L			10/11/16 15:49	1
2-Hexanone	5.0	U	5.0	0.74	ug/L			10/11/16 15:49	1
Dibromochloromethane	1.0	U	1.0	0.40	ug/L			10/11/16 15:49	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.29	ug/L			10/11/16 15:49	1
Chlorobenzene	1.0	U	1.0	0.31	ug/L			10/11/16 15:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/11/16 15:49	1
Ethylbenzene	1.0	U	1.0	0.27	ug/L			10/11/16 15:49	1
Xylenes, Total	2.0	U	2.0	0.48	ug/L			10/11/16 15:49	1
Styrene	1.0	U	1.0	0.26	ug/L			10/11/16 15:49	1
Bromoform	1.0	U	1.0	0.29	ug/L			10/11/16 15:49	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.35	ug/L			10/11/16 15:49	1
Acrylonitrile	20	U	20	2.8	ug/L			10/11/16 15:49	1
1,4-Dioxane	200	U	200	7.5	ug/L			10/11/16 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		72 - 134		10/11/16 15:49	1
Toluene-d8 (Surr)	104		80 - 120		10/11/16 15:49	1
4-Bromofluorobenzene (Surr)	112		72 - 120		10/11/16 15:49	1
Dibromofluoromethane (Surr)	106		77 - 127		10/11/16 15:49	1

Chain of Custody Record

TestAmerica Laboratories, Inc.

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 #: 180000557

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

Site Contact: Jennifer S. Reese
Lab Contact: Carrie Gamber
 (SW846 6020/SW846 7470A)
 (SW846 6020/SW846 7470A)
 Select List Dissolved Metals by ICP
 Select List Total Metals by ICP MS
 VOCs (8260C)
 1,4-Dioxane (SW846 8270D LT)

Date Submitted: 10/4/16
FEDEX
Carrier:
COC No.: TAP20161004
Job No.: 1001230
of 1 COCs

Container No.: 1
SDG No.:



e Notes:

180-55429 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Field Filter	Number of Containers	Return To Client	Disposal By Lab	Months
HD-FOLK(RW-4)-0/1-0	10/11/16	1340	GW	W	3		3	<input type="checkbox"/>	<input type="checkbox"/>	
HD-RW-5-0/1-0	10/3/16	1502	GW	W	3		1	<input type="checkbox"/>	<input type="checkbox"/>	
HD-RW-2-0/1-0	10/3/16	1515	GW	W	3		1	<input type="checkbox"/>	<input type="checkbox"/>	
HD-MW-14-0/1-0	10/4/16	1150	GW	W	5		1	<input type="checkbox"/>	<input type="checkbox"/>	
HD-MW-64D-0/1-0	10/4/16	0940	GW	W	3		1	<input type="checkbox"/>	<input type="checkbox"/>	
HD-MW-66D-0/1-0	10/4/16	1120	GW	W	5		1	<input type="checkbox"/>	<input type="checkbox"/>	
HD-MW-152(23-23.5)-0/1-0	10/4/16	1327	GW	W	3		1	<input type="checkbox"/>	<input type="checkbox"/>	
HD-MW-152(133+5-138)-0/1-0	10/4/16	1132	GW	W	3		1	<input type="checkbox"/>	<input type="checkbox"/>	
HD-QC-1-0/1-0	10/11/16	1200	TripBlank	W	2		2	<input type="checkbox"/>	<input type="checkbox"/>	

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

Special Instructions/QC Requirements & Comments: CLP Like Deliverables

Relinquished by: *[Signature]* KBF
 Date/Time: 10/4/16 1630
 Company: GSC

Relinquished by: *[Signature]* AP
 Date/Time: 10-5-16
 Company: [Blank]

Relinquished by: [Blank]
 Date/Time: [Blank]
 Company: [Blank]