

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

Brw G. Samly

carrie.gamber@testamericainc.com 11/02/2016

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Definitions/Glossary

Client: Groundwater Sciences Corporation

Project/Site: Harley Davidson

Qualifiers

GC/MS VOA

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.

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)

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Client Sample Results

Client: Groundwater Sciences Corporation Project/Site: Harley Davidson

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

Client Sample ID: HD-CW-13-0. Date Collected: 10/26/16 06:55	· = •							mple ID: 180-6 Matrix	
Date Received: 10/27/16 09:00 Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Chloromethane	20	U	20	4.6	ug/L			10/31/16 20:34	2
Vinyl chloride	20	U	20	6.3	ug/L			10/31/16 20:34	2
Bromomethane	20	U	20	7.2	ug/L			10/31/16 20:34	2
Chloroethane	20	U	20	5.2	ug/L			10/31/16 20:34	2
1,1-Dichloroethene	9.3	J	20	5.7	ug/L			10/31/16 20:34	2
Acetone	100	U	100	50	ug/L			10/31/16 20:34	2
Carbon disulfide	20	U	20	3.7	ug/L			10/31/16 20:34	2
Methylene Chloride	20	U	20	7.2	ug/L			10/31/16 20:34	2
trans-1,2-Dichloroethene	20	U	20	5.7	ug/L			10/31/16 20:34	2
Methyl tert-butyl ether	20	U	20	4.9	ug/L			10/31/16 20:34	2
1,1-Dichloroethane	5.5	J	20	4.7	ug/L			10/31/16 20:34	2
cis-1,2-Dichloroethene	320		20	5.7	ug/L			10/31/16 20:34	2
Bromochloromethane	20	U	20	7.5	ug/L			10/31/16 20:34	2
2-Butanone (MEK)	100	U	100	23	ug/L			10/31/16 20:34	2
Chloroform	20	U	20		ug/L			10/31/16 20:34	2
1,1,1-Trichloroethane	17	J	20		ug/L			10/31/16 20:34	2
Carbon tetrachloride	20	U	20		ug/L			10/31/16 20:34	2
Benzene	20	U	20		ug/L			10/31/16 20:34	2
1,2-Dichloroethane	20	U	20		ug/L			10/31/16 20:34	2
Trichloroethene	160		20		ug/L			10/31/16 20:34	2
1,2-Dichloropropane	20	U	20	4.5	ug/L			10/31/16 20:34	2
Bromodichloromethane	20	U	20	4.7	ug/L			10/31/16 20:34	2
cis-1,3-Dichloropropene	20	U	20	4.1	ug/L			10/31/16 20:34	2
4-Methyl-2-pentanone (MIBK)	100	U	100	12	ug/L			10/31/16 20:34	2
Toluene	20	U	20	5.6	ug/L			10/31/16 20:34	2
trans-1,3-Dichloropropene	20	U	20		ug/L			10/31/16 20:34	2
1,1,2-Trichloroethane	20	U	20		ug/L			10/31/16 20:34	2
Tetrachloroethene	170		20	5.4	ug/L			10/31/16 20:34	2
2-Hexanone	100	U	100	15	ug/L			10/31/16 20:34	2
Dibromochloromethane	20	U	20	7.9	ug/L			10/31/16 20:34	2
1,2-Dibromoethane (EDB)	20	U	20	5.8	ug/L			10/31/16 20:34	2
Chlorobenzene	20	U	20		ug/L			10/31/16 20:34	2
1,1,1,2-Tetrachloroethane	20	U	20	3.9	ug/L			10/31/16 20:34	2
Ethylbenzene	20	U	20	5.5	ug/L			10/31/16 20:34	2
Xylenes, Total	40	U	40		ug/L			10/31/16 20:34	2
Styrene	20	U	20		ug/L			10/31/16 20:34	2
Bromoform	20	U	20	5.9	ug/L			10/31/16 20:34	2
1,1,2,2-Tetrachloroethane	20	U	20		ug/L			10/31/16 20:34	2
Acrylonitrile	400	U	400		ug/L			10/31/16 20:34	2
1,4-Dioxane	4000	U ^c	4000		ug/L			10/31/16 20:34	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	96		72 - 134					10/31/16 20:34	2
Toluene-d8 (Surr)	99		80 - 120					10/31/16 20:34	2
4-Bromofluorobenzene (Surr)	101		72 - 120					10/31/16 20:34	2
Dibromofluoromethane (Surr)	102		77 - 127					10/31/16 20:34	2

COC No: TAP201610200 TestAmerica Laboratories, Inc. Sample Specific Notes: **TestAmerica** COCs Job No. 10012.30 Date Time (0) 20 /16 Container No. Jo Z SDG No Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Wild Company A & DateSubmitted: (Ol 16/16 FEDEX 636 e For Company: Carrier: 181 Disposal By Lab Chain of Custody Record 000 Site Contact: Jennifer S. Reese Lab Contact: Carrie Gamber Return To Client Z -(J.1 G0728 848 8270D LL) Received by (V02+2 9+8MS/0709 9+8MS) SIA Select List Dissolved Metals by ICP Select List Total Metals by ICP MS (SW846 6020/SW846 7470A) Field Filter N N Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Unpreserved 7=Zinc Acetate & NaOH 2 Number of Containers 3 AOC2 (8700C) × × > 00 126/16 1300 # of Cont. 0 Sample Type Matrix Chembern TAT if different from Below: Standard 3 3 3 3 3 Analysis Turnaround Time Project Manager: Christopher D. O'neil Tel/Fax: 717-901-8176 / (717) 657-1611 Calendar (C) or Work Days (W) Trip Blank 3 3 2 weeks l week 5 days 3 Veb I 3 Special Instructions/QC Requirements & Comments: CLP Like Deliverables Company: GSC Leichos Sample 0150 91/27/01 Time OCTO 3/125/01 10/24/16 0745 10/26/16 10-15 10 126/16 1200 Sample Company Company Date Skin Irritani 2016 Comprehensive Event Sample Identification Harley-Davidson, York PA Phone Flammable 0-44 # 003 CWTS phone 412.963,7058 fax 412.963.2470 Groundwater Sciences Corporation Client Contact 8-110-878-0HPage TestAmerica Pittsburgh 2601 Market Place St. Suite 310 0-110-5-W-0-0H Possible Hazard Identification HD- CW-4-0/1-0 inquished by (Print and Sign Harrisburg, PA 17110 Pirtsburgh, PA 15238 Quote # 18000557 Non-Hazard Project Name (717) 901-8180 (717) 657-1611 Relinquished by: 301 Alpha Drive Cmily Site 670 of 672