

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-9800 FAX: (517) 335-9600

27 March 2017 Work Order: 1703070

Price: \$390.00

Dan Hamel MDEQ-RRD-JACKSON 301 E. Louis Glick Highway Jackson, MI 49201-1556

RE: GELMAN SCIENCES, INC

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

Sincerely,

Kirby Shane Laboratory Director



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MDEQ-RRD-JACKSON Project: GELMAN SCIENCES, INC

301 E. Louis Glick Highway Site Code: 81000018

Jackson MI, 49201-1556

Project Manager: Dan Hamel

Reported: 03/27/2017

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received Qualifier
MW-76s	1703070-01	Water	03/09/2017	03/10/2017
MW-76i	1703070-02	Water	03/09/2017	03/10/2017
MW-84s	1703070-03	Water	03/09/2017	03/10/2017

Notes and Definitions

A03 Result(s) and reporting limit(s) are estimated due to low matrix spike recovery.

ND Indicates compound analyzed for but not detected

RL Reporting Limit
NA Not Applicable



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Client ID: MW-76s Lab ID: 1703070-01

CAS#	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dio	xane								
123-91-1	1,4-dioxane	250	10	ug/L	10	03/15/17	B7C1706	8260 Modified	



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Client ID: MW-76i Lab ID: 1703070-02

CAS#	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Diox	ane								
123-91-1	1,4-dioxane	96	5.0	ug/L	5	03/15/17	B7C1706	8260 Modified	



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Client ID: MW-84s Lab ID: 1703070-03

CAS#	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Dio	kane								
123-91-1	1,4-dioxane	600	20	ug/L	20	03/15/17	B7C1706	8260 Modified	



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Organics-Dioxane - Quality Control

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Analyzed	Oualifier
Analyte	Result	KL	Units	Levei	Resuit	/0KEC	Lillits	KFD	Limit	Anaryzeu	Quanner
Batch B7C1706 - Method: 5030				Prepare	d: 03/15/20	17					
Blank (B7C1706-BLK1)											
1,4-dioxane	ND	1.0	ug/L							03/15/2017	
LCS (B7C1706-BS1)											
1,4-dioxane	8.94	1.0	ug/L	10.00		89.4	70-130			03/15/2017	
Matrix Spike (B7C1706-MS1)	Source	: 1703070	0-01								
1,4-dioxane	338	10	ug/L	100.0	254	84.1	70-130			03/15/2017	
Matrix Spike Dup (B7C1706-MSD1) Source: 1703070-01											
1,4-dioxane	322	10	ug/L	100.0	254	67.9	70-130	4.92	30	03/16/2017	A0:



Michigan Department of Environmental Quality Laboratory Services Section

Lab Work Order		ame	Ge	lma	n So	ciences	S			WATER	
Site Code/Projec		17	adelmanm(@mic	higan.	gov			Sample Collector Dan Hamel		
DEQ-RRD		44410	CC Email 2	higan	i dad		Project Due Date		A45-6595		
State Project Ma		PCA	CC Email 3]	Contract F		
Dan Ham	4.5	30740 Project	Overflow Lab Choice	1				Accept Analysis hold time codes	Contract F	irm Primary Contact	
hameld@	michigan.gov	451586						Industrie codes	CONTRACT	In Amary Contact	
State Project Ma 517-745-0	300 00 00 00 00 00 00	Phase 00	Overflow Lab Choice	2	i wisanike u				Primary Co	ontact Phone	
Lab Use Only	Field Sample Identification		Paracete and the second		llection Date	Collection	Container Count C	comments.			
1	MW-76s			3/	1/17	1200	3	PLEASE I	Nous	REPORTS	
2 02	MW-76i			3/9	107	1057	3	WITH LAB	BATE	A REPORT	
3 03	MW-84s			3/9	117	1259	3		1		
4				1					V	V	
5											
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7											
8		, <u>""""""""""""""""""""""""""""""""""""</u>									
9				.,				According to		and the second s	
Volatiles - Full BTEX/MTBE/TI Chlorinated or GRO 1,A Dioxane METH - Metha Methane, Etha ON - Pesticides only PCBs only Toxaphene Chlordane BNA - Base Ne BNAs Benzidines PNAs only Acids only Acids only Organic Specia Library search Library search Finger Print DRO / ORO MET/ OpMemo 2 - Ti OpMemo 2 - Ti OpMemo 2 - Di (Sp.As,Ba,Be,C.d., Michiganio - Li Michiganio - C	MB only 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 1	10 Diss - Arsenic- 10 Diss - Boron - I 10 Diss - Boron - I 10 Diss - Borium 110 Diss - Berlylim 120 Diss - Cadmiur 131 Diss - Cadmiur 140 Diss - Cobalt - 151 Diss - Copper - 152 Diss - Copper - 153 Diss - Copper - 154 Diss - Marcury 155 Diss - Mercury 155 Diss - Mercury 156 Diss - Mercury 157 Diss - Molybde 157 Diss - Molybde 158 Diss - Molybde 159 Diss - Molybde 150 Diss - Antimon 150 Diss - Strontion 155 Diss - Strontion 155 Diss - Calcium 155 Diss - Calcium 156 Diss - Magnesi 157 Diss - Calcium 158 Diss - Calcium 159 Diss - Molyme 150 Diss - Magnesi 150 Diss - Magnesi 150 Diss - Magnesi 151 Diss - Magnesi 152 Diss - Magnesi 153 Diss - Hardnes 150 Magnesi 150 150 Magnes	m-Al	6 7 8 8 6 7 8 8 6 6 7 8 8 8 8	9 10 9 10	Silver - Ag Aluminum - Al Artenic - As Boron - B Barium - Ba Beryllium - Be Cadmium - Cd Cobalt - Co Chromlum - Cr Copper - Cu Iron - Fe Mercury - Hg Lithium - Li Manganese - Mn Molybdenum - Mc Nickel - Ni Lead - Pb Antimony - Sb Selenium - Sr Tittanium - Ti Uranium - Ti Uranium - U Vanadium - V Zinc - Zin Calcium - Ca Potassium - K Magnesium - K Magnesium - Ma Bodium - V Calcium - Ca Potassium - K Magnesium - Ma Hardness - Ca, Mg LHG - Cox - Ca, Mg LHG - Cox - Ca, Mg	1 2 3 1 2 3	4 5 6 7 8 9 10 GR 4 5 6 7 8 9 10 MR 4 5 6 7 8 9 10 GR	Chloride - Cl Fluoride - F Sulfate - SO4 Chromium 6 Conductivity pH Chem Oxyg D Diss Org Cark (Field - Filter Diss Org Cark (Lab - Filtere Total Org Car Ammonia - N	ranide - CN	
	u.Pb.Hg.Se.Ag.Zn) uished by	Lab Filtration	12345		eceived	Mercury Low Level - Ha	123	4 5 6 7 8 9 10	-	Date / Time	
Print Na & Org. Signatu Print Na & Org. Signatu Signatu	Print Name DAY HAME! DEA DOD					M 1/3		3/18/17 14:03 3/18/17 1515			
Print Na & Org. Signatu			- the an item specimens,							,	

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DEQ Laboratory Services Section Phone: 517-335-9800