

11 June 2019

Work Order: 1905292

Price: \$1,080.00

Dan Hamel
MDEQ-RRD-JACKSON
301 E. Louis Glick Highway
Jackson, MI 49201-1556
RE: GELMAN SCIENCES, INC

This is the official environmental laboratory report for testing conducted by the Michigan Department of Environment, Great Lakes, and Energy. Analyses performed by the laboratory were conducted using methods published by the U.S. Environmental Protection Agency, Standard Methods for the Examination of Water and Wastewater, ASTM, or other published or approved reference methods.

Kirby Shane
Laboratory Director



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY

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

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

Project: GELMAN SCIENCES, INC
Site Code: 81000018/Location 6130
Project Manager: Dan Hamel

Reported:
06/11/2019

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
Allen Creek/West Park SW	1905292-01	Water	05/28/2019	05/29/2019	
Allen Creek/Chapin-West Park	1905292-02	Water	05/28/2019	05/29/2019	
Allen Creek/Maple Ridge-Arborview	1905292-03	Water	05/28/2019	05/29/2019	
Allen Creek/Murray-Washington	1905292-04	Water	05/28/2019	05/29/2019	
Allen Creek/Eighth-Waterworks	1905292-05	Water	05/28/2019	05/29/2019	
Allen Creek-Maryfield-Wildwood Park	1905292-06	Water	05/28/2019	05/29/2019	

Notes and Definitions

- Y28 1,4-dioxane analysis is performed using selective ion monitoring (SIM). Results reported below 5 ug/L (aqueous) or 1000 ug/Kg (solids) are estimated.
- X Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 °C. 2-Methylnaphthalene & naphthalene have boiling points above 200 °C and are better suited to analysis by methods 8270 & 625 as semivolatile organics.
- ND Indicates compound analyzed for but not detected at or above the reporting limit (RL).
- RL Reporting Limit
- NA Not Applicable



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Client ID: Allen Creek/West Park SW

Lab ID: 1905292-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	05/30/19	B9E3008	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	



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Lab ID: 1905292-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	05/30/19	B9E3008	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	05/30/19	B9E3008	8260	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
<i>Surrogate: Bromofluorobenzene</i>			98.2 %	85-115		05/30/19	B9E3008	8260	
<i>Surrogate: Dibromofluoromethane</i>			99.3 %	82.7-115		05/30/19	B9E3008	8260	
<i>Surrogate: Toluene-d8</i>			97.8 %	85-115		05/30/19	B9E3008	8260	



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Organics-Dioxane

123-91-1	1,4-dioxane	16	1.0	ug/L	1	06/04/19	B9F0506	8260 Modified	
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Client ID: Allen Creek/Chapin-West Park

Lab ID: 1905292-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	X
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	05/30/19	B9E3008	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
71-43-2	Benzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-25-2	Bromoform	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
74-83-9	Bromomethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-00-3	Chloroethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
67-66-3	Chloroform	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
74-87-3	Chloromethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	



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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
110-54-3	Hexane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	05/30/19	B9E3008	8260	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
91-20-3	Naphthalene	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	X
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
95-47-6	o-Xylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
100-42-5	Styrene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	05/30/19	B9E3008	8260	
994-05-8	tertiaryAmylmeylether	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	05/30/19	B9E3008	8260	
108-88-3	Toluene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	05/30/19	B9E3008	8260	
<i>Surrogate: Bromofluorobenzene</i>			<i>101 %</i>	<i>85-115</i>		<i>05/30/19</i>	<i>B9E3008</i>	<i>8260</i>	
<i>Surrogate: Dibromofluoromethane</i>			<i>102 %</i>	<i>82.7-115</i>		<i>05/30/19</i>	<i>B9E3008</i>	<i>8260</i>	
<i>Surrogate: Toluene-d8</i>			<i>97.7 %</i>	<i>85-115</i>		<i>05/30/19</i>	<i>B9E3008</i>	<i>8260</i>	

