



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY**

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

16 March 2016

Work Order: 1603054

Price: \$580.00

Diane Kavanaugh Vetort
MDEQ-AQD-JACKSON
301 E. Louis Glick Highway
Jackson, MI 49201-1556
RE: ARBOR HILLS LF

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,

George Krisztian
Laboratory Director



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

Project: ARBOR HILLS LF
Site Code: LB041660
Project Manager: Diane Kavanaugh Vetort

Reported:
03/16/2016

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
AHLF 6 Mile	1603054-01	Air	03/04/2016	03/10/2016	

Notes and Definitions

T Reported value is less than the reporting limit (RL). Result is estimated.
ND Indicates compound analyzed for but not detected
RL Reporting Limit
NA Not Applicable



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Client ID: AHLF 6 Mile

Lab ID: 1603054-01

CAS #	Analyte	Result	RL	Units	MDL	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
71-55-6	1,1,1-Trichloroethane	ND	1.6	ug/m3	0.21	03/10/2016	B6C1009	TO-15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/m3	0.32	03/10/2016	B6C1009	TO-15	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.3	ug/m3	0.22	03/10/2016	B6C1009	TO-15	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ug/m3	0.097	03/10/2016	B6C1009	TO-15	
75-34-3	1,1-Dichloroethane	ND	1.2	ug/m3	0.17	03/10/2016	B6C1009	TO-15	
75-35-4	1,1-Dichloroethylene	ND	1.2	ug/m3	0.15	03/10/2016	B6C1009	TO-15	
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	ug/m3	1.4	03/10/2016	B6C1009	TO-15	
95-63-6	1,2,4-Trimethylbenzene	ND	1.5	ug/m3	0.30	03/10/2016	B6C1009	TO-15	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/m3	0.29	03/10/2016	B6C1009	TO-15	
76-14-2	1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.1	ug/m3	0.34	03/10/2016	B6C1009	TO-15	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ug/m3	0.36	03/10/2016	B6C1009	TO-15	
107-06-2	1,2-Dichloroethane	ND	1.2	ug/m3	0.19	03/10/2016	B6C1009	TO-15	
78-87-5	1,2-Dichloropropane	ND	1.4	ug/m3	1.1	03/10/2016	B6C1009	TO-15	
108-67-8	1,3,5-Trimethylbenzene	ND	1.5	ug/m3	0.24	03/10/2016	B6C1009	TO-15	
106-99-0	1,3-Butadiene	ND	0.65	ug/m3	0.12	03/10/2016	B6C1009	TO-15	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ug/m3	0.28	03/10/2016	B6C1009	TO-15	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ug/m3	0.38	03/10/2016	B6C1009	TO-15	
540-84-1	2,2,4-Trimethylpentane	1.1	1.4	ug/m3	0.14	03/10/2016	B6C1009	TO-15	T
78-93-3	2-Butanone (MEK)	7.2	15	ug/m3	1.1	03/10/2016	B6C1009	TO-15	T
126-99-8	2-Chloro-1,3-butadiene	ND	1.1	ug/m3	0.11	03/10/2016	B6C1009	TO-15	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.0	ug/m3	0.85	03/10/2016	B6C1009	TO-15	
75-05-8	Acetonitrile	ND	1.7	ug/m3	0.50	03/10/2016	B6C1009	TO-15	
107-13-1	Acrylonitrile	ND	1.1	ug/m3	0.79	03/10/2016	B6C1009	TO-15	
71-43-2	Benzene	1.2	0.95	ug/m3	0.094	03/10/2016	B6C1009	TO-15	
75-27-4	Bromodichloromethane	ND	2.0	ug/m3	0.15	03/10/2016	B6C1009	TO-15	
75-25-2	Bromoform	ND	3.1	ug/m3	0.34	03/10/2016	B6C1009	TO-15	
74-83-9	Bromomethane	ND	1.1	ug/m3	0.22	03/10/2016	B6C1009	TO-15	
56-23-5	Carbon tetrachloride	ND	1.9	ug/m3	0.23	03/10/2016	B6C1009	TO-15	
108-90-7	Chlorobenzene	ND	1.4	ug/m3	0.20	03/10/2016	B6C1009	TO-15	
75-00-3	Chloroethane	0.31	0.78	ug/m3	0.12	03/10/2016	B6C1009	TO-15	T
67-66-3	Chloroform	ND	1.4	ug/m3	0.12	03/10/2016	B6C1009	TO-15	
74-87-3	Chloromethane	1.5	0.61	ug/m3	0.16	03/10/2016	B6C1009	TO-15	
156-59-2	cis-1,2-Dichloroethylene	0.47	1.2	ug/m3	0.12	03/10/2016	B6C1009	TO-15	T
10061-01-5	cis-1,3-Dichloropropylene	ND	1.3	ug/m3	0.13	03/10/2016	B6C1009	TO-15	
124-48-1	Dibromochloromethane	ND	2.5	ug/m3	0.29	03/10/2016	B6C1009	TO-15	



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Lab ID: 1603054-01

CAS #	Analyte	Result	RL	Units	MDL	Analyzed Date	QC Batch	Method	Qualifier
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Organics-Volatiles

75-71-8	Dichlorodifluoromethane	3.6	1.5	ug/m3	0.25	03/10/2016	B6C1009	TO-15	
100-41-4	Ethylbenzene	2.3	1.3	ug/m3	0.29	03/10/2016	B6C1009	TO-15	
87-68-3	Hexachlorobutadiene	ND	3.2	ug/m3	0.89	03/10/2016	B6C1009	TO-15	
110-54-3	Hexane	4.8	3.5	ug/m3	0.086	03/10/2016	B6C1009	TO-15	
1330-20-7	m & p - Xylene	4.6	1.3	ug/m3	0.73	03/10/2016	B6C1009	TO-15	
75-09-2	Methylene chloride	3.7	1.0	ug/m3	0.34	03/10/2016	B6C1009	TO-15	
1634-04-4	Methyltertiarybutylether	ND	1.8	ug/m3	0.19	03/10/2016	B6C1009	TO-15	
95-47-6	o-Xylene	1.2	1.3	ug/m3	0.33	03/10/2016	B6C1009	TO-15	T
100-42-5	Styrene	ND	1.3	ug/m3	0.76	03/10/2016	B6C1009	TO-15	
127-18-4	Tetrachloroethylene	1.1	2.0	ug/m3	0.23	03/10/2016	B6C1009	TO-15	T
108-88-3	Toluene	13	1.1	ug/m3	0.44	03/10/2016	B6C1009	TO-15	
156-60-5	trans-1,2-Dichloroethylene	ND	1.2	ug/m3	0.15	03/10/2016	B6C1009	TO-15	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.3	ug/m3	0.089	03/10/2016	B6C1009	TO-15	
79-01-6	Trichloroethylene	ND	1.6	ug/m3	0.16	03/10/2016	B6C1009	TO-15	
75-69-4	Trichlorofluoromethane	6.5	1.7	ug/m3	0.23	03/10/2016	B6C1009	TO-15	
75-01-4	Vinyl chloride	0.61	0.76	ug/m3	0.13	03/10/2016	B6C1009	TO-15	T

Organics-Methane

74-84-0	Ethane	ND	20	ppmv	18	03/10/2016	B6C1008	8015	
74-85-1	Ethylene	ND	20	ppmv	18	03/10/2016	B6C1008	8015	
74-82-8	Methane	130	20	ppmv	18	03/10/2016	B6C1008	8015	



Analysis Request Sheet

Lab Work Order Number

Project Name

Matrix

1603051

ARBOR HILLS LANDFILL

AIR

Site Code/Project Number

AY

CC Email 1

Project TAT Days

Sample Collector

Diane Kavanaugh Vektor

Dept-Division-District

Index

CC Email 2

Project Due Date

Sample Collector Phone

DEQ-AQD-Jackson

41110

517 780 7864

State Project Manager

PCA

CC Email 3

Accept Analysis hold time codes

Contract Firm

Diane Kavanaugh Vektor

36503

State Project Manager Email

Project

Overflow Lab Choice 1

Contract Firm Primary Contact

KavanaughD@Michigan.gov

g0v

State Project Manager Phone

Phase

Overflow Lab Choice 2

Primary Contact Phone

517 780 7864

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments	Regulator ID	Canister/Bottle Vac Number
1	AHLF6 Mile	3/4/16	18:10	1	500 ft so. of Entrance truck crossing	03602	3602
2							
3							
4							
5							
6							
7							
8							
9							
10							

ORGANIC CHEMISTRY

VOA - Volatile Organic Analysis

Bottle Vac 1 2 3 4 5 6 7 8 9 10
Canister - AQD 1 2 3 4 5 6 7 8 9 10
Canister - RRD 1 2 3 4 5 6 7 8 9 10
Tedlar - Volatiles 1 2 3 4 5 6 7 8 9 10

METH - Methane, Ethane, Ethene

Methane, Ethane, Ethene 1 2 3 4 5 6 7 8 9 10

To-15 list

Chain of Custody

Relinquished by

Print Name & Org. Diane Kavanaugh Vektor, DEQ-AQD

Signature: Diane Kavanaugh Vektor

Print Name & Org. Scott Miller - OCA AQD

Signature: Scott Miller

Print Name & Org. Susan Ki Ima - DEQ-AQD

Signature: Susan Ki Ima

Received By

Print Name & Org. Scott Miller - AQD

Signature: Scott Miller

Print Name & Org. Susan Ki Ima - AQD

Signature: Susan Ki Ima

Print Name & Org. Melissa Smith

Signature: Melissa Smith

Date / Time

3/8/16 4:00 PM

3-10-2016 8:30 AM

3/10/16 9:00