



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

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

10 February 2016

Work Order: 1602055

Price: \$1,160.00

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



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

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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:
02/10/2016

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
Nature Area SC	1602055-01	Air	02/06/2016	02/08/2016	
AHLF 6 Mile	1602055-02	Air	02/06/2016	02/08/2016	

Notes and Definitions

- Y11 Unidentified peaks present in sample.
- T Reported value is less than the reporting limit (RL). Result is estimated.
- A05 Result and reporting limit are estimated due to low continuing calibration standard criteria failure.
- ND Indicates compound analyzed for but not detected
- RL Reporting Limit
- NA Not Applicable



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TEL: (517) 335-9800
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Client ID: Nature Area SC

Lab ID: 1602055-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
									See note Y11
71-55-6	1,1,1-Trichloroethane	ND	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/m3	1	02/09/16	B6B0912	TO-15	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.2	ug/m3	1	02/09/16	B6B0912	TO-15	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	
75-34-3	1,1-Dichloroethane	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
75-35-4	1,1-Dichloroethylene	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	ug/m3	1	02/09/16	B6B0912	TO-15	
95-63-6	1,2,4-Trimethylbenzene	ND	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	
106-93-4	1,2-Dibromoethane	ND	2.2	ug/m3	1	02/09/16	B6B0912	TO-15	
76-14-2	1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.0	ug/m3	1	02/09/16	B6B0912	TO-15	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	
107-06-2	1,2-Dichloroethane	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
78-87-5	1,2-Dichloropropane	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
108-67-8	1,3,5-Trimethylbenzene	ND	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	
106-99-0	1,3-Butadiene	ND	0.64	ug/m3	1	02/09/16	B6B0912	TO-15	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	
540-84-1	2,2,4-Trimethylpentane	0.71	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	T
78-93-3	2-Butanone (MEK)	22	14	ug/m3	1	02/09/16	B6B0912	TO-15	
126-99-8	2-Chloro-1,3-butadiene	ND	1.1	ug/m3	1	02/09/16	B6B0912	TO-15	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.1	4.0	ug/m3	1	02/09/16	B6B0912	TO-15	T
75-05-8	Acetonitrile	ND	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	
107-13-1	Acrylonitrile	ND	1.1	ug/m3	1	02/09/16	B6B0912	TO-15	
71-43-2	Benzene	1.3	0.93	ug/m3	1	02/09/16	B6B0912	TO-15	
75-27-4	Bromodichloromethane	ND	2.0	ug/m3	1	02/09/16	B6B0912	TO-15	
75-25-2	Bromoform	ND	3.0	ug/m3	1	02/09/16	B6B0912	TO-15	
74-83-9	Bromomethane	ND	1.1	ug/m3	1	02/09/16	B6B0912	TO-15	
56-23-5	Carbon tetrachloride	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	
108-90-7	Chlorobenzene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
75-00-3	Chloroethane	ND	0.77	ug/m3	1	02/09/16	B6B0912	TO-15	
67-66-3	Chloroform	ND	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	
74-87-3	Chloromethane	1.2	0.60	ug/m3	1	02/09/16	B6B0912	TO-15	
156-59-2	cis-1,2-Dichloroethylene	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
124-48-1	Dibromochloromethane	ND	2.5	ug/m3	1	02/09/16	B6B0912	TO-15	
75-71-8	Dichlorodifluoromethane	2.0	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	
100-41-4	Ethylbenzene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
87-68-3	Hexachlorobutadiene	ND	3.1	ug/m3	1	02/09/16	B6B0912	TO-15	
110-54-3	Hexane	0.87	3.4	ug/m3	1	02/09/16	B6B0912	TO-15	T
1330-20-7	m & p - Xylene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	



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Client ID: Nature Area SC

Lab ID: 1602055-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-09-2	Methylene chloride	0.74	1.0	ug/m3	1	02/09/16	B6B0912	TO-15	T
1634-04-4	Methyltertiarybutylether	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	A05
95-47-6	o-Xylene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
100-42-5	Styrene	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
127-18-4	Tetrachloroethylene	ND	2.0	ug/m3	1	02/09/16	B6B0912	TO-15	
108-88-3	Toluene	1.6	1.1	ug/m3	1	02/09/16	B6B0912	TO-15	
156-60-5	trans-1,2-Dichloroethylene	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
79-01-6	Trichloroethylene	ND	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	
75-69-4	Trichlorofluoromethane	1.6	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	
75-01-4	Vinyl chloride	ND	0.74	ug/m3	1	02/09/16	B6B0912	TO-15	
Organics-Methane									
74-84-0	Ethane	ND	20	ppmv	1	02/08/16	B6B0907	8015	
74-85-1	Ethylene	ND	20	ppmv	1	02/08/16	B6B0907	8015	
74-82-8	Methane	ND	20	ppmv	1	02/08/16	B6B0907	8015	

See note Y11



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Client ID: AHLF 6 Mile
Lab ID: 1602055-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
									See note Y11
71-55-6	1,1,1-Trichloroethane	ND	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/m3	1	02/09/16	B6B0912	TO-15	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.2	ug/m3	1	02/09/16	B6B0912	TO-15	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	
75-34-3	1,1-Dichloroethane	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
75-35-4	1,1-Dichloroethylene	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	ug/m3	1	02/09/16	B6B0912	TO-15	
95-63-6	1,2,4-Trimethylbenzene	ND	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	
106-93-4	1,2-Dibromoethane	ND	2.2	ug/m3	1	02/09/16	B6B0912	TO-15	
76-14-2	1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.0	ug/m3	1	02/09/16	B6B0912	TO-15	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	
107-06-2	1,2-Dichloroethane	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
78-87-5	1,2-Dichloropropane	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
108-67-8	1,3,5-Trimethylbenzene	ND	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	
106-99-0	1,3-Butadiene	ND	0.64	ug/m3	1	02/09/16	B6B0912	TO-15	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	
540-84-1	2,2,4-Trimethylpentane	0.47	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	T
78-93-3	2-Butanone (MEK)	5.0	14	ug/m3	1	02/09/16	B6B0912	TO-15	T
126-99-8	2-Chloro-1,3-butadiene	ND	1.1	ug/m3	1	02/09/16	B6B0912	TO-15	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.0	ug/m3	1	02/09/16	B6B0912	TO-15	
75-05-8	Acetonitrile	0.74	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	T
107-13-1	Acrylonitrile	ND	1.1	ug/m3	1	02/09/16	B6B0912	TO-15	
71-43-2	Benzene	0.77	0.93	ug/m3	1	02/09/16	B6B0912	TO-15	T
75-27-4	Bromodichloromethane	ND	2.0	ug/m3	1	02/09/16	B6B0912	TO-15	
75-25-2	Bromoform	ND	3.0	ug/m3	1	02/09/16	B6B0912	TO-15	
74-83-9	Bromomethane	ND	1.1	ug/m3	1	02/09/16	B6B0912	TO-15	
56-23-5	Carbon tetrachloride	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	
108-90-7	Chlorobenzene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
75-00-3	Chloroethane	ND	0.77	ug/m3	1	02/09/16	B6B0912	TO-15	
67-66-3	Chloroform	ND	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	
74-87-3	Chloromethane	1.3	0.60	ug/m3	1	02/09/16	B6B0912	TO-15	
156-59-2	cis-1,2-Dichloroethylene	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
124-48-1	Dibromochloromethane	ND	2.5	ug/m3	1	02/09/16	B6B0912	TO-15	
75-71-8	Dichlorodifluoromethane	2.7	1.4	ug/m3	1	02/09/16	B6B0912	TO-15	
100-41-4	Ethylbenzene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
87-68-3	Hexachlorobutadiene	ND	3.1	ug/m3	1	02/09/16	B6B0912	TO-15	
110-54-3	Hexane	2.5	3.4	ug/m3	1	02/09/16	B6B0912	TO-15	T
1330-20-7	m & p - Xylene	0.78	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	



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**Client ID: AHLF 6 Mile
Lab ID: 1602055-02**

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									See note Y11
75-09-2	Methylene chloride	1.4	1.0	ug/m3	1	02/09/16	B6B0912	TO-15	
1634-04-4	Methyltertiarybutylether	ND	1.8	ug/m3	1	02/09/16	B6B0912	TO-15	A05
95-47-6	o-Xylene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
100-42-5	Styrene	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
127-18-4	Tetrachloroethylene	ND	2.0	ug/m3	1	02/09/16	B6B0912	TO-15	
108-88-3	Toluene	3.0	1.1	ug/m3	1	02/09/16	B6B0912	TO-15	
156-60-5	trans-1,2-Dichloroethylene	ND	1.2	ug/m3	1	02/09/16	B6B0912	TO-15	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.3	ug/m3	1	02/09/16	B6B0912	TO-15	
79-01-6	Trichloroethylene	ND	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	
75-69-4	Trichlorofluoromethane	3.7	1.6	ug/m3	1	02/09/16	B6B0912	TO-15	
75-01-4	Vinyl chloride	ND	0.74	ug/m3	1	02/09/16	B6B0912	TO-15	
Organics-Methane									
74-84-0	Ethane	ND	20	ppmv	1	02/08/16	B6B0907	8015	
74-85-1	Ethylene	ND	20	ppmv	1	02/08/16	B6B0907	8015	
74-82-8	Methane	19	20	ppmv	1	02/08/16	B6B0907	8015	T



Analysis Request Sheet

Lab Work Order Number 1602055	Project Name ARBOR HILLS LF	Matrix AIR
Site Code/Project Number DEC-400-Jackson	AY 41110	CC Email 1 kavanaugh.d@michigan.gov
Dept-Division-District DEC-400-Jackson	Index 41110	CC Email 2 kavanaugh.d@michigan.gov
State Project Manager Diane Kavanaugh-Vetort	PCA 36503	CC Email 3 _____
State Project Manager Email kavanaugh.d@michigan.gov	Project _____	Overflow Lab Choice 1 _____
State Project Manager Phone 517-780-7864	Phase _____	Overflow Lab Choice 2 _____
		Project TAT Days _____
		Project Due Date _____
		Sample Collector D. Kavanaugh Vetort
		Sample Collector Phone 517 780 7864
		Contract Firm _____
		Contract Firm Primary Contact _____
		Primary Contact Phone _____
		Accept Analysis hold time codes _____

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments	140-tag Regulator ID	Canister/Bottle Vac Number
01	Nature Area SC	2-6-16	6:13PM		Grab	312-0081	2999
02	AHLF 6 mile	2-6-16	6:39PM		Grab	312-0082	3005
3							
4							
5							
6							
7							
8							
9							
10							

ORGANIC CHEMISTRY VOA - Volatile Organic Analysis Bottlevac 1 2 3 4 5 6 7 8 9 10 Canister - AOD 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 if possible		TO-15 List	
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Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. Diane Kavanaugh Vetort Signature: <i>[Signature]</i>	Alex Whitow	2/8/2016, 12:15pm
	Print Name & Org. Alex Whitow MDEQ Signature: <i>[Signature]</i>	Susan Kilmer <i>[Signature]</i>	2-8-2016 1:30 pm
Print Name & Org. Susan Kilmer MDEQ Signature: <i>[Signature]</i>	Melissa Smith <i>[Signature]</i>	2/8/16 1:04	



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22 February 2016

Work Order: 1602099

Price: \$1,160.00

Scott Miller
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: Scott Miller

Reported:
02/22/2016

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
49.401404723/-83.550181733	1602099-01	Air	02/17/2016	02/18/2016	

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

Case Narrative

Priority Samples



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 ENVIRONMENTAL LABORATORY

P.O. Box 30270
 Lansing, MI 48909
 TEL: (517) 335-9800
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Client ID: 49.401404723/-83.550181733

Lab ID: 1602099-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
71-55-6	1,1,1-Trichloroethane	ND	1.6	ug/m3	1	02/19/16	B6B2205	TO-15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/m3	1	02/19/16	B6B2205	TO-15	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.3	ug/m3	1	02/19/16	B6B2205	TO-15	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ug/m3	1	02/19/16	B6B2205	TO-15	
75-34-3	1,1-Dichloroethane	ND	1.2	ug/m3	1	02/19/16	B6B2205	TO-15	
75-35-4	1,1-Dichloroethylene	ND	1.2	ug/m3	1	02/19/16	B6B2205	TO-15	
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	ug/m3	1	02/19/16	B6B2205	TO-15	
95-63-6	1,2,4-Trimethylbenzene	ND	1.5	ug/m3	1	02/19/16	B6B2205	TO-15	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/m3	1	02/19/16	B6B2205	TO-15	
76-14-2	1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.1	ug/m3	1	02/19/16	B6B2205	TO-15	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ug/m3	1	02/19/16	B6B2205	TO-15	
107-06-2	1,2-Dichloroethane	ND	1.2	ug/m3	1	02/19/16	B6B2205	TO-15	
78-87-5	1,2-Dichloropropane	ND	1.4	ug/m3	1	02/19/16	B6B2205	TO-15	
108-67-8	1,3,5-Trimethylbenzene	ND	1.5	ug/m3	1	02/19/16	B6B2205	TO-15	
106-99-0	1,3-Butadiene	ND	0.65	ug/m3	1	02/19/16	B6B2205	TO-15	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ug/m3	1	02/19/16	B6B2205	TO-15	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ug/m3	1	02/19/16	B6B2205	TO-15	
540-84-1	2,2,4-Trimethylpentane	ND	1.4	ug/m3	1	02/19/16	B6B2205	TO-15	
78-93-3	2-Butanone (MEK)	2.4	15	ug/m3	1	02/19/16	B6B2205	TO-15	T
126-99-8	2-Chloro-1,3-butadiene	ND	1.1	ug/m3	1	02/19/16	B6B2205	TO-15	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.0	ug/m3	1	02/19/16	B6B2205	TO-15	
75-05-8	Acetonitrile	ND	1.7	ug/m3	1	02/19/16	B6B2205	TO-15	
107-13-1	Acrylonitrile	ND	1.1	ug/m3	1	02/19/16	B6B2205	TO-15	
71-43-2	Benzene	1.1	0.94	ug/m3	1	02/19/16	B6B2205	TO-15	
75-27-4	Bromodichloromethane	ND	2.0	ug/m3	1	02/19/16	B6B2205	TO-15	
75-25-2	Bromoform	ND	3.1	ug/m3	1	02/19/16	B6B2205	TO-15	
74-83-9	Bromomethane	ND	1.1	ug/m3	1	02/19/16	B6B2205	TO-15	
56-23-5	Carbon tetrachloride	ND	1.9	ug/m3	1	02/19/16	B6B2205	TO-15	
108-90-7	Chlorobenzene	ND	1.4	ug/m3	1	02/19/16	B6B2205	TO-15	
75-00-3	Chloroethane	ND	0.78	ug/m3	1	02/19/16	B6B2205	TO-15	
67-66-3	Chloroform	ND	1.4	ug/m3	1	02/19/16	B6B2205	TO-15	
74-87-3	Chloromethane	1.7	0.61	ug/m3	1	02/19/16	B6B2205	TO-15	
156-59-2	cis-1,2-Dichloroethylene	ND	1.2	ug/m3	1	02/19/16	B6B2205	TO-15	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.3	ug/m3	1	02/19/16	B6B2205	TO-15	
124-48-1	Dibromochloromethane	ND	2.5	ug/m3	1	02/19/16	B6B2205	TO-15	
75-71-8	Dichlorodifluoromethane	2.7	1.5	ug/m3	1	02/19/16	B6B2205	TO-15	
100-41-4	Ethylbenzene	0.99	1.3	ug/m3	1	02/19/16	B6B2205	TO-15	T
87-68-3	Hexachlorobutadiene	ND	3.2	ug/m3	1	02/19/16	B6B2205	TO-15	
110-54-3	Hexane	2.1	3.5	ug/m3	1	02/19/16	B6B2205	TO-15	T
1330-20-7	m & p - Xylene	2.3	1.3	ug/m3	1	02/19/16	B6B2205	TO-15	



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY**

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

Client ID: 49.401404723/-83.550181733

Lab ID: 1602099-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
75-09-2	Methylene chloride	1.6	1.0	ug/m3	1	02/19/16	B6B2205	TO-15	
1634-04-4	Methyltertiarybutylether	ND	1.8	ug/m3	1	02/19/16	B6B2205	TO-15	
95-47-6	o-Xylene	0.75	1.3	ug/m3	1	02/19/16	B6B2205	TO-15	T
100-42-5	Styrene	ND	1.3	ug/m3	1	02/19/16	B6B2205	TO-15	
127-18-4	Tetrachloroethylene	ND	2.0	ug/m3	1	02/19/16	B6B2205	TO-15	
108-88-3	Toluene	5.6	1.1	ug/m3	1	02/19/16	B6B2205	TO-15	
156-60-5	trans-1,2-Dichloroethylene	ND	1.2	ug/m3	1	02/19/16	B6B2205	TO-15	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.3	ug/m3	1	02/19/16	B6B2205	TO-15	
79-01-6	Trichloroethylene	ND	1.6	ug/m3	1	02/19/16	B6B2205	TO-15	
75-69-4	Trichlorofluoromethane	2.0	1.7	ug/m3	1	02/19/16	B6B2205	TO-15	
75-01-4	Vinyl chloride	ND	0.76	ug/m3	1	02/19/16	B6B2205	TO-15	
Organics-Methane									
74-84-0	Ethane	ND	20	ppmv	1	02/18/16	B6B1912	8015	
74-85-1	Ethylene	ND	20	ppmv	1	02/18/16	B6B1912	8015	
74-82-8	Methane	38	20	ppmv	1	02/18/16	B6B1912	8015	



Analysis Request Sheet

Lab Work Order Number: 1602099 Project Name: Arbor Hills Matrix: AIR

Site Code/Project Number: DEQ-ARD-Jackson AY: 41110 CC Email 1: 36503 Project TAT Days: Sample Collector: Scott Hamilton
 Dept-Division-District: DEQ-ARD-Jackson Index: 41110 CC Email 2: Project Due Date: Sample Collector Phone: 219-794-5125
 State Project Manager: Scott Miller PCA: 36503 CC Email 3: Contract Firm:
 State Project Manager Email: MillerS@Michigan Project: Overflow Lab Choice 1: Accept Analysis hold time codes: Contract Firm Primary Contact:
 State Project Manager Phone: 517-780-7481 Phase: Overflow Lab Choice 2: Primary Contact Phone:

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments	Regulator ID	Canister/Bottle Vac Number
01	49.401404723/-83.550181733	2/17/16	07:36		Grab sample		3638
2							
3							
4							
5							
6							
7							
8							
9							
10							

ORGANIC CHEMISTRY
 VOA - Volatile Organic Analysis
 Bottlevac 1 2 3 4 5 6 7 8 9 10
 Canister - AQD 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

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org: <u>Scott Hamilton USEPA</u> Signature: <u>[Signature]</u>	<u>Scott Miller</u>	<u>2/17/2016 9:55 AM EST</u>
	Print Name & Org: <u>Scott Miller - AQD</u> Signature: <u>[Signature]</u>	<u>Susan Kilmer - AQD</u>	<u>2-18-2016 8:20 AM</u>
	Print Name & Org: <u>Susan Kilmer AQD</u> Signature: <u>[Signature]</u>	<u>Bill Nelson</u>	<u>2-18-16 9:54</u>



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY**

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

02 March 2016

Work Order: 1602153

Price: \$1,160.00

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



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

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

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:
03/02/2016

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
S.Glacier Rd (subdivision)	1602153-01	Air	02/26/2016	02/26/2016	

Notes and Definitions

- Y11 Unidentified peaks present in sample.
- 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

Case Narrative

Priority Samples



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 ENVIRONMENTAL LABORATORY

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

Client ID: S.Glacier Rd (subdivision)
 Lab ID: 1602153-01

CAS #	Analyte	Result	RL	Units	MDL	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
									See note Y11
71-55-6	1,1,1-Trichloroethane	ND	1.6	ug/m3	0.21	03/01/2016	B6C0104	TO-15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/m3	0.32	03/01/2016	B6C0104	TO-15	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.3	ug/m3	0.22	03/01/2016	B6C0104	TO-15	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ug/m3	0.097	03/01/2016	B6C0104	TO-15	
75-34-3	1,1-Dichloroethane	ND	1.2	ug/m3	0.17	03/01/2016	B6C0104	TO-15	
75-35-4	1,1-Dichloroethylene	ND	1.2	ug/m3	0.15	03/01/2016	B6C0104	TO-15	
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	ug/m3	1.4	03/01/2016	B6C0104	TO-15	
95-63-6	1,2,4-Trimethylbenzene	ND	1.5	ug/m3	0.30	03/01/2016	B6C0104	TO-15	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/m3	0.30	03/01/2016	B6C0104	TO-15	
76-14-2	1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.1	ug/m3	0.34	03/01/2016	B6C0104	TO-15	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ug/m3	0.37	03/01/2016	B6C0104	TO-15	
107-06-2	1,2-Dichloroethane	ND	1.2	ug/m3	0.19	03/01/2016	B6C0104	TO-15	
78-87-5	1,2-Dichloropropane	ND	1.4	ug/m3	1.1	03/01/2016	B6C0104	TO-15	
108-67-8	1,3,5-Trimethylbenzene	ND	1.5	ug/m3	0.24	03/01/2016	B6C0104	TO-15	
106-99-0	1,3-Butadiene	ND	0.66	ug/m3	0.12	03/01/2016	B6C0104	TO-15	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ug/m3	0.28	03/01/2016	B6C0104	TO-15	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ug/m3	0.38	03/01/2016	B6C0104	TO-15	
540-84-1	2,2,4-Trimethylpentane	ND	1.4	ug/m3	0.15	03/01/2016	B6C0104	TO-15	
78-93-3	2-Butanone (MEK)	1.7	15	ug/m3	1.1	03/01/2016	B6C0104	TO-15	T
126-99-8	2-Chloro-1,3-butadiene	ND	1.1	ug/m3	0.11	03/01/2016	B6C0104	TO-15	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.1	ug/m3	0.86	03/01/2016	B6C0104	TO-15	
75-05-8	Acetonitrile	ND	1.7	ug/m3	0.50	03/01/2016	B6C0104	TO-15	
107-13-1	Acrylonitrile	ND	1.1	ug/m3	0.79	03/01/2016	B6C0104	TO-15	
71-43-2	Benzene	0.69	0.95	ug/m3	0.095	03/01/2016	B6C0104	TO-15	T
75-27-4	Bromodichloromethane	ND	2.0	ug/m3	0.15	03/01/2016	B6C0104	TO-15	
75-25-2	Bromoform	ND	3.1	ug/m3	0.35	03/01/2016	B6C0104	TO-15	
74-83-9	Bromomethane	ND	1.2	ug/m3	0.22	03/01/2016	B6C0104	TO-15	
56-23-5	Carbon tetrachloride	ND	1.9	ug/m3	0.23	03/01/2016	B6C0104	TO-15	
108-90-7	Chlorobenzene	ND	1.4	ug/m3	0.21	03/01/2016	B6C0104	TO-15	
75-00-3	Chloroethane	ND	0.78	ug/m3	0.12	03/01/2016	B6C0104	TO-15	
67-66-3	Chloroform	ND	1.4	ug/m3	0.12	03/01/2016	B6C0104	TO-15	
74-87-3	Chloromethane	1.6	0.61	ug/m3	0.16	03/01/2016	B6C0104	TO-15	
156-59-2	cis-1,2-Dichloroethylene	ND	1.2	ug/m3	0.12	03/01/2016	B6C0104	TO-15	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.3	ug/m3	0.13	03/01/2016	B6C0104	TO-15	
124-48-1	Dibromochloromethane	ND	2.5	ug/m3	0.29	03/01/2016	B6C0104	TO-15	



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 ENVIRONMENTAL LABORATORY

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

Client ID: S.Glacier Rd (subdivision)
 Lab ID: 1602153-01

CAS #	Analyte	Result	RL	Units	MDL	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									See note Y11
75-71-8	Dichlorodifluoromethane	2.1	1.5	ug/m3	0.25	03/01/2016	B6C0104	TO-15	
100-41-4	Ethylbenzene	0.54	1.3	ug/m3	0.29	03/01/2016	B6C0104	TO-15	T
87-68-3	Hexachlorobutadiene	ND	3.2	ug/m3	0.89	03/01/2016	B6C0104	TO-15	
110-54-3	Hexane	0.47	3.5	ug/m3	0.086	03/01/2016	B6C0104	TO-15	T
1330-20-7	m & p - Xylene	1.2	1.3	ug/m3	0.73	03/01/2016	B6C0104	TO-15	T
75-09-2	Methylene chloride	0.70	1.0	ug/m3	0.34	03/01/2016	B6C0104	TO-15	T
1634-04-4	Methyltertiarybutylether	ND	1.8	ug/m3	0.19	03/01/2016	B6C0104	TO-15	
95-47-6	o-Xylene	ND	1.3	ug/m3	0.33	03/01/2016	B6C0104	TO-15	
100-42-5	Styrene	ND	1.3	ug/m3	0.76	03/01/2016	B6C0104	TO-15	
127-18-4	Tetrachloroethylene	ND	2.0	ug/m3	0.23	03/01/2016	B6C0104	TO-15	
108-88-3	Toluene	3.2	1.1	ug/m3	0.44	03/01/2016	B6C0104	TO-15	
156-60-5	trans-1,2-Dichloroethylene	ND	1.2	ug/m3	0.15	03/01/2016	B6C0104	TO-15	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.3	ug/m3	0.089	03/01/2016	B6C0104	TO-15	
79-01-6	Trichloroethylene	ND	1.6	ug/m3	0.17	03/01/2016	B6C0104	TO-15	
75-69-4	Trichlorofluoromethane	1.5	1.7	ug/m3	0.23	03/01/2016	B6C0104	TO-15	T
75-01-4	Vinyl chloride	ND	0.76	ug/m3	0.13	03/01/2016	B6C0104	TO-15	
Organics-Methane									
74-84-0	Ethane	ND	20	ppmv	18	03/01/2016	B6C0105	8015	
74-85-1	Ethylene	ND	20	ppmv	18	03/01/2016	B6C0105	8015	
74-82-8	Methane	ND	20	ppmv	18	03/01/2016	B6C0105	8015	



Analysis Request Sheet

Lab Work Order Number

Project Name

Matrix

11602153

ARBOR HILLS LF

AIR

Site Code/Project Number

AY

CC Email 1

Project TAT Days

Sample Collector

D. Kavanaugh Vefort

Dept-Division-District

Index

CC Email 2

Project Due Date

Sample Collector Phone

DEQ-ARD-Jackson

41110

KavanaughL@michigan.gov

517 780-7864

State Project Manager

PCA

CC Email 3

Accept Analysis hold time codes

Contract Firm

Diane Kavanaugh Vefort

State Project Manager Email

Project

Overflow Lab Choice 1

Contract Firm Primary Contact

KavanaughL@michigan.gov

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	S. Glacier Rd (Subdivision)	2-26/16	8:23AM		TAG Anderson No. 03614	NA	3614
2							
3							
4							
5							
6							
7							
8							
9							
10							

ORGANIC CHEMISTRY

VOA - Volatile Organic Analysis

Bottlevac 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

Grab Sample

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. <i>Diane Kavanaugh Vefort</i>	<i>Alex Whitehead</i>	<i>2/26/16</i>
	Signature: <i>Diane Kavanaugh Vefort</i>	<i>Alex Whitehead</i>	
	Print Name & Org. <i>Alex Whitehead DEQ, DWHRP</i>	<i>Susan Kilmer</i>	<i>2/26/16</i>
Signature: <i>Alex Whitehead</i>	<i>Susan Kilmer</i>	<i>3:30</i>	
Print Name & Org. <i>Susan Kilmer DEQ-AQD</i>	<i>Melissa Smith</i>	<i>2/26/16 11:10</i>	
Signature: <i>Susan Kilmer</i>	<i>Melissa Smith</i>		



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



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

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

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



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 ENVIRONMENTAL LABORATORY

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

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	



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 ENVIRONMENTAL LABORATORY

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

Client ID: AHLF 6 Mile
 Lab ID: 1603054-01


CAS #	Analyte	Result	RL	Units	MDL	Analyzed Date	QC Batch	Method	Qualifier
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 1603051	Project Name ARBOR HILLS LANDFILL	Matrix AIR
Site Code/Project Number DEQ-AQD-Jackson	AY 41110	CC Email 1 36503
Dept-Division-District DEQ-AQD-Jackson	Index 41110	CC Email 2 36503
State Project Manager Diane Kavanaugh Vektor	PCA 36503	CC Email 3 36503
State Project Manager Email Kavanaughd@Michigan.gov	Project 36503	Overflow Lab Choice 1 36503
State Project Manager Phone 517 780 7864	Phase 36503	Overflow Lab Choice 2 36503
		Project TAT Days 36503
		Project Due Date 36503
		Accept Analysis hold time codes 36503
		Sample Collector Diane Kavanaugh Vektor
		Sample Collector Phone 517 780 7864
		Contract Firm 36503
		Contract Firm Primary Contact 36503
		Primary Contact Phone 36503

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	500ft so. of Entrance TRUCK crossing	03602	3602
2							
3							
4							
5							
6							
7							
8							
9							
10							

ORGANIC CHEMISTRY VOA - Volatile Organic Analysis Bottlevac 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 	<p>To-15 list</p>
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Chain of Custody	Relinquished by Print Name & Org. Diane Kavanaugh Vektor - DEQ-AQD Signature: <i>Diane Kavanaugh Vektor</i>	Received By Scott Miller - AQD Signature: <i>Scott Miller</i>	Date / Time 3/8/16 4:00 PM
	Print Name & Org. Scott Miller - OCA AQD Signature: <i>Scott Miller</i>	Susan Kilmer - AQD Signature: <i>Susan Kilmer</i>	3-10-2016 8:30 AM
	Print Name & Org. Susan Kilmer - DEQ-AQD Signature: <i>Susan Kilmer</i>	Melissa Smith Signature: <i>Melissa Smith</i>	3/10/16 9:00