

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: HENKELS & MCCOY
Name:
ClientProj: 210574-0100
GTA ProjNo: 080421-14

Site Addr: MARION WINTERFIELD LATERAL 54N

Sampled By: JSL/ECT
Date Rec: 8/4/2021
Time Rec: 4:15 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	FS-5	8/4/2021	9:35 AM	SOIL
2	FS-6	8/4/2021	11:20 AM	SOIL
3	FS-7	8/4/2021	12:15 PM	SOIL
4	FS-8	8/4/2021	1:20 PM	SOIL
5	FS-9	8/4/2021	1:40 PM	SOIL
6	FS-10	8/4/2021	2:05 PM	SOIL
7	SW-6	8/4/2021	2:25 PM	SOIL

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk Chase

Kirk L. Chase/Chemist
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830 Robinwood Court
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COMPANY: HENKELS & MCCOY
PROJECT NO: 210574-0100
LOCATION: MARION WINTERFIELD LATERAL 54N
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: FS-5

GTA PROJECT NO: 080421-14
GTA SAMPLE NO: 1
DATE SAMPLED: 8/4/2021
TIME SAMPLED: 9:35 AM
DATE RECEIVED: 8/4/2021
TIME RECEIVED: 4:15 PM

SAMPLED BY: JSL/ECT

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		8/4/2021	8/5/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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COMPANY: HENKELS & MCCOY
PROJECT NO: 210574-0100
LOCATION: MARION WINTERFIELD LATERAL 54N
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: FS-6

GTA PROJECT NO: 080421-14
GTA SAMPLE NO: 2
DATE SAMPLED: 8/4/2021
TIME SAMPLED: 11:20 AM
DATE RECEIVED: 8/4/2021
TIME RECEIVED: 4:15 PM

SAMPLED BY: JSL/ECT

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EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		8/4/2021	8/4/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: HENKELS & MCCOY
PROJECT NO: 210574-0100
LOCATION: MARION WINTERFIELD LATERAL 54N
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: FS-7

GTA PROJECT NO: 080421-14
GTA SAMPLE NO: 3
DATE SAMPLED: 8/4/2021
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 8/4/2021
TIME RECEIVED: 4:15 PM

SAMPLED BY: JSL/ECT

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		8/4/2021	8/4/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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LOD = LIMIT OF DETECTION

COMPANY: HENKELS & MCCOY
PROJECT NO: 210574-0100
LOCATION: MARION WINTERFIELD LATERAL 54N
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: FS-8

GTA PROJECT NO: 080421-14
GTA SAMPLE NO: 4
DATE SAMPLED: 8/4/2021
TIME SAMPLED: 1:20 PM
DATE RECEIVED: 8/4/2021
TIME RECEIVED: 4:15 PM

SAMPLED BY: JSL/ECT

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EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		8/4/2021	8/4/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

COMPANY: HENKELS & MCCOY
PROJECT NO: 210574-0100
LOCATION: MARION WINTERFIELD LATERAL 54N
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: FS-9

GTA PROJECT NO: 080421-14
GTA SAMPLE NO: 5
DATE SAMPLED: 8/4/2021
TIME SAMPLED: 1:40 PM
DATE RECEIVED: 8/4/2021
TIME RECEIVED: 4:15 PM

SAMPLED BY: JSL/ECT

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		8/4/2021	8/4/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: HENKELS & MCCOY
PROJECT NO: 210574-0100
LOCATION: MARION WINTERFIELD LATERAL 54N
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: FS-10

GTA PROJECT NO: 080421-14
GTA SAMPLE NO: 6
DATE SAMPLED: 8/4/2021
TIME SAMPLED: 2:05 PM
DATE RECEIVED: 8/4/2021
TIME RECEIVED: 4:15 PM

SAMPLED BY: JSL/ECT

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		8/4/2021	8/4/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: HENKELS & MCCOY
PROJECT NO: 210574-0100
LOCATION: MARION WINTERFIELD LATERAL 54N
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: SW-6

GTA PROJECT NO: 080421-14
GTA SAMPLE NO: 7
DATE SAMPLED: 8/4/2021
TIME SAMPLED: 2:25 PM
DATE RECEIVED: 8/4/2021
TIME RECEIVED: 4:15 PM

SAMPLED BY: JSL/ECT

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		8/4/2021	8/4/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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COMPANY: HENKELS & MCCOY

GTA PROJECT NO: 080421-14

PROJECT NO: 210574-0100

GTA SAMPLE NO: 1

LOCATION: MARION WINTERFIELD LATERAL 54N

DATE SAMPLED: 8/4/2021

TIME SAMPLED: 9:35 AM

DATE RECEIVED: 8/4/2021

TIME RECEIVED: 4:15 PM

SAMPLED BY: MI
JSL/ECT**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
	SAMPLE ID: FS-5						
	CHLORIDE EPA 300.0	1,300	110	mg/Kg (PPM)	KC/AS	8/5/2021	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HENKELS & MCCOY

GTA PROJECT NO: 080421-14

PROJECT NO: 210574-0100

GTA SAMPLE NO: 2

LOCATION: MARION WINTERFIELD LATERAL 54N

DATE SAMPLED: 8/4/2021

TIME SAMPLED: 11:20 AM

DATE RECEIVED: 8/4/2021

TIME RECEIVED: 4:15 PM

SAMPLED BY: MI
JSL/ECT

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
	SAMPLE ID: FS-6						
	CHLORIDE EPA 300.0	160	110	mg/Kg (PPM)	KC/AS	8/5/2021	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HENKELS & MCCOY

GTA PROJECT NO: 080421-14

PROJECT NO: 210574-0100

GTA SAMPLE NO: 3

LOCATION: MARION WINTERFIELD LATERAL 54N

DATE SAMPLED: 8/4/2021

TIME SAMPLED: 12:15 PM

DATE RECEIVED: 8/4/2021

TIME RECEIVED: 4:15 PM

SAMPLED BY: MI
JSL/ECT

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
	SAMPLE ID: FS-7						
	CHLORIDE EPA 300.0	200	110	mg/Kg (PPM)	KC/AS	8/5/2021	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HENKELS & MCCOY

GTA PROJECT NO: 080421-14

PROJECT NO: 210574-0100

GTA SAMPLE NO: 4

LOCATION: MARION WINTERFIELD LATERAL 54N

DATE SAMPLED: 8/4/2021

TIME SAMPLED: 1:20 PM

DATE RECEIVED: 8/4/2021

TIME RECEIVED: 4:15 PM

SAMPLED BY: MI
JSL/ECT

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
	SAMPLE ID: FS-8						
	CHLORIDE EPA 300.0	580	110	mg/Kg (PPM)	KC/AS	8/5/2021	SOIL

ND = NOT DETECTED, RESULT < LOD

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s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HENKELS & MCCOY

GTA PROJECT NO: 080421-14

PROJECT NO: 210574-0100

GTA SAMPLE NO: 5

LOCATION: MARION WINTERFIELD LATERAL 54N

DATE SAMPLED: 8/4/2021

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 8/4/2021

TIME RECEIVED: 4:15 PM

SAMPLED BY: MI
JSL/ECT

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
	SAMPLE ID: FS-9						
	CHLORIDE EPA 300.0	1,800	110	mg/Kg (PPM)	KC/AS	8/5/2021	SOIL

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LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HENKELS & MCCOY

GTA PROJECT NO: 080421-14

PROJECT NO: 210574-0100

GTA SAMPLE NO: 6

LOCATION: MARION WINTERFIELD LATERAL 54N

DATE SAMPLED: 8/4/2021

TIME SAMPLED: 2:05 PM

DATE RECEIVED: 8/4/2021

TIME RECEIVED: 4:15 PM

SAMPLED BY: MI
JSL/ECT

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
SAMPLE ID: FS-10							
CHLORIDE EPA 300.0		400	110	mg/Kg (PPM)	KC/AS	8/5/2021	SOIL

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COMPANY: HENKELS & MCCOY
PROJECT NO: 210574-0100
LOCATION: MARION WINTERFIELD LATERAL 54N
MI
SAMPLED BY: JSL/ECT

GTA PROJECT NO: 080421-14
GTA SAMPLE NO: 7
DATE SAMPLED: 8/4/2021
TIME SAMPLED: 2:25 PM
DATE RECEIVED: 8/4/2021
TIME RECEIVED: 4:15 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
	SAMPLE ID: SW-6 CHLORIDE EPA 300.0	ND	110	mg/Kg (PPM)	KC/AS	8/5/2021	SOIL

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COMPANY: HENKELS & MCCOY

GTA PROJECT NO: 080421-

NAME:

SAMPLED BY: JSL/ECT

PROJECT NO: 210574-0100

DATE SAMPLED: 8/4/2021

TIME SAMPLED: 9:35 AM

LOCATION: MARION WINTERFIELD LATERAL 54N

SAMPLE MATRIX: SOIL

DATE RECEIVED: 8/4/2021

TIME RECEIVED: 4:15 PM

MI

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
SAMPLE ID: FS-5	% MOISTURE EPA 3550C	14	0.050	% OF SAMPLE	AS	8/4/2021
SAMPLE ID: FS-6	% MOISTURE EPA 3550C	14	0.050	% OF SAMPLE	AS	8/4/2021
SAMPLE ID: FS-7	% MOISTURE EPA 3550C	15	0.050	% OF SAMPLE	AS	8/4/2021
SAMPLE ID: FS-8	% MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	AS	8/4/2021
SAMPLE ID: FS-9	% MOISTURE EPA 3550C	15	0.050	% OF SAMPLE	AS	8/4/2021
SAMPLE ID: FS-10	% MOISTURE EPA 3550C	17	0.050	% OF SAMPLE	AS	8/4/2021
SAMPLE ID: SW-6	% MOISTURE EPA 3550C	13	0.050	% OF SAMPLE	AS	8/4/2021