Post-Closure Modification with Materials Management Plan

Former Appleby's Auto Salvage W2578 Holland Lima Road Oostburg, Wisconsin BRRTS #03-60-305128

Prepared for:

Harter's Lakeside Disposal LLC W2578 Holland Lima Road Oostburg, Wisconsin 53070 920-552-5423

SCS ENGINEERS

25221142.00 | April 25, 2022

2830 Dairy Drive Madison, WI 53718-6751 608-224-2830

SCS ENGINEERS

April 25, 2022 File No. 25221142.00

Mr. Keld Lauridsen Wisconsin Department of Natural Resources 2984 Shawano Avenue Green Bay, WI 54313

Subject: Post-Closure Modification with Materials Management Plan

Former Appleby's Auto Salvage W2578 Holland Lima Road

Oostburg, WI

BRRTS Activity #03-60-305128

Dear Mr. Lauridsen:

On behalf of Harter's Lakeside Disposal LLC (Harter's), SCS Engineers (SCS) has prepared this letter to notify the Wisconsin Department of Natural Resources (WDNR) of planned redevelopment activities including building construction and expansion work at the former Appleby's Auto Salvage, which is the site of a closed leaking underground storage tank (LUST) case with continuing obligations (BRRTS #03-60-305128). Harter's is proposing to redevelop the site as a solid waste transfer station. This submittal also includes a Materials Management Plan (MMP) to appropriately address risks associated with vapor and residual groundwater and soil contamination during and after site redevelopment. If contaminated soil is encountered during redevelopment construction activities, it will be disposed at a licensed solid waste landfill; therefore, approval of the MMP is not required and is provided for reference only.

1.0 SITE ENVIRONMENTAL CONDITIONS

SCS reviewed the case closure request and case closure letter for the closed LUST case at the site. A summary of the investigation and remediation related to the petroleum LUST case follows:

- A 300-gallon leaded and unleaded gasoline UST was removed in 1992.
- Sampling completed in 1998 revealed the presence of petroleum impacts to soil and groundwater in the vicinity of the former tank.
- Following notification to WDNR of the identified impacts, additional soil sampling and
 installation of a monitoring well network with 12 monitoring wells and two piezometers
 were completed to further evaluate the release. Analytical results are presented in
 Attachment A of the case closure request. Soil impacts were delineated as depicted on
 Figure B.2.a. of the case closure request. Groundwater impacts were delineated to the
 extent shown on Figure B.3.b. of the case closure request.
- A remedial excavation was completed in 2008 to remove the source area soil with the
 most elevated petroleum hydrocarbon concentrations. Confirmation sampling after the
 excavation was completed indicated that soil with residual petroleum hydrocarbon



concentrations exceeding groundwater pathway Residual Contaminant Levels (RCLs) remains beyond the limits of the completed excavation, as shown on Figure B.2.b. of the case closure request. Soil exceeding direct contact RCLs was removed during remedial excavation.

- Groundwater monitoring continued until 2015 to document petroleum hydrocarbon concentration trends and to assess plume stability. Review of Table A.1. of the case closure request indicates that petroleum hydrocarbon concentrations have decreased significantly since groundwater monitoring began in 2005.
- Case closure was requested in 2017 after groundwater monitoring results indicated decreasing concentrations. Case closure was granted by WDNR with continuing obligations later in 2017.

1.1 CONTINUING OBLIGATIONS

The continuing obligations stipulated in the May 24, 2017, case closure letter are summarized as follows:

- Groundwater impacts are present at the site in excess of NR 140 Enforcement Standards (ESs). New water supply wells must be approved by WDNR prior to construction.
- Residual soil impacts exceeding NR 720 RCLs remain in the area of soil samples S-5, S-7, S-9, S-19, S-20, S-22, and S28. Soil in these areas must be managed appropriately if it is excavated or otherwise disturbed.
- Due to residual petroleum impacts to site soil and groundwater, vapor intrusion must be evaluated and mitigated (if warranted) if buildings are to be constructed over or near areas of impacted soil and groundwater.
- Construction-related dewatering permits should consider the potential for petroleum impacts in discharge water.
- Monitoring well MW-3 could not be located and has not been properly abandoned in accordance with NR 141. If the monitoring well is located, the current owner is responsible for filling and sealing the well and notifying WDNR.

2.0 REDEVELOPMENT SUMMARY

The former Appleby's Auto Salvage facility was recently purchased by Harter's with the intent of repurposing the site for use as a solid waste transfer station. Redevelopment will generally include expansion of the existing building near the center of the site into a new Garage and Storage Area, and potential future expansion of the existing building to the west into a new Office area. The new Office area building expansion may occur in 2023 or 2024, or may not be completed based on Harter's plans at other facilities. The redevelopment plan also includes a new Transfer Station Building and a Hoop Building on the western portion of the site, a truck scale in the west-central portion of the site, an underground septic tank, and three storm water management basins. Construction is planned to begin in April 2022. The attached **Figure 1** shows the redevelopment plan with site features relative to the locations of residual soil and groundwater impacts.

3.0 MATERIALS MANAGEMENT

The site redevelopment plan requires soil excavation for footings and foundations of buildings and a truck scale, storm water basins, utilities, and general site grading. Excavation for the southeast portion of the truck scale, western portion of the central site-building foundation, and southwest storm water basin are most likely to generate petroleum-impacted soil, based on the delineated extent of residual impacts shown on Figure B.2.b. of the case closure request.

Impacted groundwater is present beginning at depths of approximately 6 feet below ground surface (bgs). The proposed buildings do not have basements, and therefore it is unlikely that excavation will extend beyond 5 feet bgs.

Management related to impacted soil, groundwater, and vapor is summarized below.

3.1 SOIL MANAGEMENT

Two classes of soil have been identified for management during redevelopment at the site. Definitions of each material class and a description of the management approach for each are provided below. Soil classes will be determined based on the defined extents of residual soil impacts presented on Figure B.2.b. of the case closure request and based on field observations such as staining and odor.

3.1.1 Class I Soil Management

Class I soils are primarily clay and possibly remedial excavation backfill (assumed to be sand and/or gravel) in contact with impacted groundwater. Class I soils are present within the two regions shown on **Figure 1** but also include any soil excavated during redevelopment construction activities and exhibiting petroleum staining or odor that may be present beyond these areas.

Class I soil will be transported off site by a licensed hauler for disposal at a licensed landfill facility. Preliminary plans are to dispose of material at GFL's Hickory Meadows Landfill in Hilbert, WI. Stockpiling of Class I soil will be minimized to the extent possible. If temporary stockpiling is necessary, Class I soil will be placed on tarps and covered to prevent infiltration and leaching of petroleum hydrocarbons.

3.1.2 Class II Soil Management

Class II soils are similar in character to Class I soils, but are not impacted with petroleum hydrocarbons. Class II soils are located beyond the limits of the two regions of delineated residual soil impacts and do not exhibit petroleum odor or other signs of impact when screened during excavation. If structurally suitable, Class II soil will be reused on site or hauled off site with no restrictions.

3.2 GROUNDWATER MANAGEMENT

Dewatering is not anticipated based on the site soils and lack of dewatering needed during the past excavation activities at the site. If dewatering is necessary in areas of residual groundwater contamination, Harter's will obtain a general permit for Discharge of Contaminated Groundwater

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from Remedial Action Operations, or containerize and haul contaminated water to a wastewater treatment plant.

In addition to managing impacted water directly, the southwest pond bottom and sideslopes will be lined with 2 feet of compacted clay soil meeting the Type A liner specifications of WDNR's Wet Detention Pond Technical Standard 1001 for sites with high potential for groundwater contamination.

3.3 VAPOR

3.3.1 Vapor Intrusion Screening

SCS reviewed the degree and extent of residual soil and groundwater impacts along with locations of proposed structures to evaluate potential vapor intrusion risk at the site. A vapor intrusion screening was completed following the approach described in WDNR guidance document RR-800. Each criterion from RR-800 is presented below with SCS's screening determination provided in *italics* for each criterion:

- Non-aqueous Phase Liquid (NAPL): Building has less than 15-feet vertical separation or 30-feet horizontal separation from NAPL. According to the case closure request, no NAPL has been detected at the site. Vapor investigation is not recommended based on this criterion.
- Groundwater (below foundation): Building has less than 5-feet vertical separation from groundwater with benzene > 1 mg/L (1,000 µg/L). Review of Table A.1 of the case closure request indicates that the most recent analytical results for all site monitoring wells are less than 1,000 µg/L. In addition, groundwater levels are typically more than 5 feet bgs. Vapor investigation is not recommended based on this criterion.
- Groundwater (contacts foundation): Groundwater with concentrations above NR 140
 Preventive Action Limits (PALs) has entered or is in contact with the building's
 foundation. The site buildings do not and will not have basements, and thus have only
 shallow foundations. Groundwater is typically found below 5 feet bgs at the site,
 suggesting that groundwater contacting a building foundation is unlikely. Vapor
 investigation is not recommended based on this criterion.
- Soil: Building has less than 5-foot vertical and horizontal separation distance from petroleum-contaminated soil with the potential for off-gassing. Review of Table A.3. and Figure B.2.b. of the case closure request indicates that all soil samples representing residual soil impacts are located below 5 feet bgs and therefore are also located more than 5 feet horizontally. Vapor investigation is not recommended based on this criterion.
- Preferential Pathway: Petroleum vapors are present in utilities that transect a petroleum source area. The petroleum source (leaking gasoline UST) and surrounding soil have been removed. Vapor investigation is not recommended based on this criterion.

Odors: Petroleum Odors are present in building near petroleum source area. The
petroleum source (leaking gasoline UST) and surrounding soil have been removed. Vapor
investigation is not recommended based on this criterion. In the unlikely event that odors
are reported by building occupants in the future, vapor investigation should be
conducted.

3.3.2 Vapor Sampling

Although the vapor screening did not indicate the need to complete a vapor investigation, sub-slab sampling within the existing central site-building was performed as a precaution and to further evaluate potential vapor intrusion.

On March 15, 2022, two sub-slab vapor ports (SS-1 and SS-2) were installed near the residual soil and groundwater impacts, as shown on **Figure 1**. Sample ports and sampling equipment were tested for leaks prior to sampling. A sample was drawn from each port using laboratory-supplied Summa canisters. Samples were submitted with completed chain-of-custody documents to Pace Analytical laboratory in Minneapolis, Minnesota, for analysis of petroleum VOCs (PVOCs), naphthalene, and 1,2-dichloroethane (1,2-DCA). Laboratory analytical results are provided in **Attachment A**.

Laboratory analytical results (**Table 1**) were compared to Wisconsin Vapor Risk Screening Levels (VRSLs), which were calculated using the United States Environmental Protection Agency Vapor Intrusion Screening Level (VISL) calculator. No exceedances of VRSLs were reported, which is further evidence that vapor intrusion risk is low, as indicated by screening.

Based on screening and additional precautionary sampling, SCS recommends that no additional vapor sampling be completed at the site and that vapor mitigation be considered optional and not a requirement of the requested post-closure modification.

4.0 CLOSING

SCS and Harter's request written approval to proceed with the proposed building construction/expansion, which will comply with continuing obligations as defined in the May 24, 2017, case closure letter. A fee for review of this Post-Closure Modification (\$1,050) and a database fee (\$350) will be mailed to WDNR by Harter's. Harter's will follow the MMP presented in this document to manage contaminated soil encountered during construction. Upon completion of the redevelopment, a summary of materials management activities along with photographs and figures of updated site conditions will be submitted to WDNR.

Sincerely,

Jacob Krause, PG Hydrogeologist SCS Engineers Robert Langdon
Senior Project Manager
SCS Engineers

JJK/REO_Imh/REL/JO/MRH

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cc: Michael Thun - Harter's

Jared Omernik - SCS Engineers

Encl. Table 1 - Sub-Slab Vapor Analytical Results Summary

Figure 1 – Proposed Facility Site Plan with Residual Soil and Groundwater Contamination Attachment A – Sub-Slab Vapor Laboratory Report

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Table 1 Sub-Slab Vapor Analytical Results Summary

Table 1. Sub-Slab Vapor Analytical Results Summary Harter's Waste Disposal - Oostburg, WI/ SCS Engineers Project #25221142.00

(Results are in μ g/m³)

Sample	Date	Benzene	1,2- Dichloroethane (1,2-DCA)	Ethylbenzene	Methyl-tert- butyl ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3- Trimethylbenzene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	m-Xylene & p-Xylene	o-Xylene
CAS #		71-43-2	107-06-2	100-41-4	1634-04-4	91-20-3	103-65-1	108-88-3	526-73-8	95-63-6	108-67-8	179601-23-1	95-47-7
SS-1	3/15/2022	3.1	<0.33	2.5	<0.22	<3.7	1.5 J	7.9	1.4 J	3.6	1.5 J	7.0	2.7
SS-2	3/15/2022	4.5	<0.35	3.3	<0.23	5.0	1.6 J	11.9	1.4 J	3.5	1.6 J	8.5	4.6
Industrial Sub-Slab Vapor Risk Screenin	g Level	1,600	470	4,900	47,000	360	440,000	2,200,000	26,000	26,000	26,000	44,000	44,000

Abbreviations:

 μ g/m³ = micrograms per cubic meter of air CAS # = Chemical Abstracts Service Number

Notes:

- 1. Samples were collected in 6-liter summa canisters over 30-minute period and analyzed using the US EPA TO-15 analytical method.
- 2. Sub-Slab Vapor Risk Screening Levels (VRSLs) calculated using US EPA Vapor Intrusion Screening Level (VISL) calculator.

 Calculation performed March 17, 2022 assuming Commercial setting with Hazard Quotient of 1, Target Risk of 10⁻⁵, and Attenuation Factor of 0.01.
- 3. **Bold+underlined** values exceed Industrial sub-slab VRSLs.

Laboratory Notes/Qualifiers:

J = Estimated concentration at or above the LOD and below the LOQ.

 Created by:
 REL
 Date: 3/25/2022

 Last Rev by:
 REL
 Date: 3/25/2022

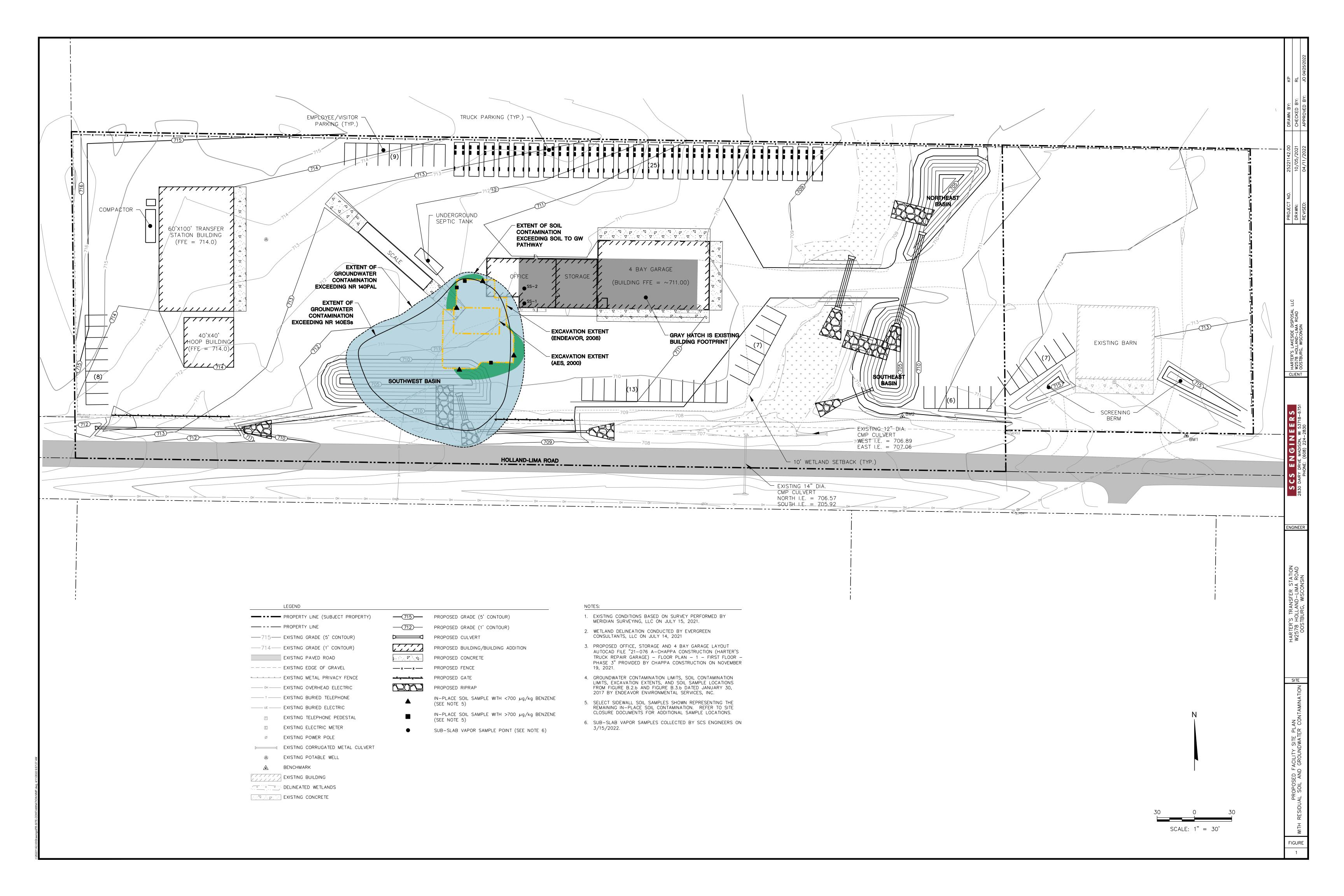
 Checked by:
 LMH
 Date: 3/29/2022

 Proj Mgr QA/QC:
 REL
 Date: 3/30/2022

I:\25221142.00\Deliverables\MMP and PCM\[Table 1_Sub-Slab_Vapor_Analytical Results Summary.xlsx]Vapor Intrusion

Figure 1

Proposed Facility Site Plan with Residual Soil and Groundwater Contamination



Attachment A Sub-Slab Vapor Laboratory Report

Pace Analytical Services, LLC 1700 Elm Street Minneapolis, MN 55414 (612)607-1700



March 25, 2022

Rob Langdon SCS Engineers 2830 Dairy Dr. Madison, WI 53718

RE: Project: 25221142.00 Harter's

Pace Project No.: 10600785

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg

Kingh Heaphof

kirsten.hogberg@pacelabs.com

(612)607-1700 Project Manager

Enclosures





CERTIFICATIONS

Project: 25221142.00 Harter's

Pace Project No.: 10600785

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air

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A2LA Certification #: 2926.01* Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014* Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137 Florida Certification #: E87605* Georgia Certification #: 959 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167 Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086* Louisiana DW Certification #: MN00064 Maine Certification #: MN00064* Maryland Certification #: 322 Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240* Mississippi Certification #: MN00064 Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

West Virginia DW Certification #: 9952 C

USDA Permit #: P330-19-00208

*Please Note: Applicable air certifications are denoted with

an asterisk (*).





SAMPLE SUMMARY

Project: 25221142.00 Harter's

Pace Project No.: 10600785

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10600785001	SS-1	Air	03/15/22 12:12	03/16/22 09:51
10600785002	SS-2	Air	03/15/22 12:35	03/16/22 09:51



SAMPLE ANALYTE COUNT

Project: 25221142.00 Harter's

Pace Project No.: 10600785

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10600785001	SS-1	TO-15	AFV	12	PASI-M
10600785002	SS-2	TO-15	AFV	12	PASI-M

PASI-M = Pace Analytical Services - Minneapolis



SUMMARY OF DETECTION

Project: 25221142.00 Harter's

Pace Project No.: 10600785

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
10600785001	SS-1						
TO-15	Benzene	3.1	ug/m3	0.56	03/24/22 15:43		
TO-15	Toluene	7.9	ug/m3	1.3	03/24/22 15:43		
TO-15	Ethylbenzene	2.5	ug/m3	1.5	03/24/22 15:43		
TO-15	m&p-Xylene	7.0	ug/m3	3.0	03/24/22 15:43		
TO-15	o-Xylene	2.7	ug/m3	1.5	03/24/22 15:43		
TO-15	1,3,5-Trimethylbenzene	1.5J	ug/m3	1.7	03/24/22 15:43		
TO-15	1,2,4-Trimethylbenzene	3.6	ug/m3	1.7	03/24/22 15:43		
TO-15	n-Propylbenzene	1.5J	ug/m3	4.3	03/24/22 15:43		
TO-15	1,2,3-Trimethylbenzene	1.4J	ug/m3	1.7	03/24/22 15:43		
10600785002	SS-2						
TO-15	Benzene	4.5	ug/m3	0.58	03/24/22 16:41		
TO-15	Toluene	11.9	ug/m3	1.4	03/24/22 16:41		
TO-15	Ethylbenzene	3.3	ug/m3	1.6	03/24/22 16:41		
TO-15	m&p-Xylene	8.5	ug/m3	3.2	03/24/22 16:41		
TO-15	o-Xylene	4.6	ug/m3	1.6	03/24/22 16:41		
TO-15	1,3,5-Trimethylbenzene	1.6J	ug/m3	1.8	03/24/22 16:41		
TO-15	1,2,4-Trimethylbenzene	3.5	ug/m3	1.8	03/24/22 16:41		
TO-15	Naphthalene	5.0	ug/m3	4.8	03/24/22 16:41		
TO-15	n-Propylbenzene	1.6J	ug/m3	4.5	03/24/22 16:41		
TO-15	1,2,3-Trimethylbenzene	1.4J	ug/m3	1.8	03/24/22 16:41		



ANALYTICAL RESULTS

Project: 25221142.00 Harter's

Pace Project No.: 10600785

Date: 03/25/2022 03:08 PM

Sample: SS-1	Lab ID:	10600785001	Collecte	d: 03/15/22	2 12:12	Received: 03	8/16/22 09:51 Ma	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15	 5						
	Pace Ana	lytical Services	- Minneapo	lis					
1,2-Dichloroethane	<0.33	ug/m3	1.4	0.33	1.71		03/24/22 15:43	107-06-2	
Benzene	3.1	ug/m3	0.56	0.19	1.71		03/24/22 15:43	71-43-2	
Toluene	7.9	ug/m3	1.3	0.42	1.71		03/24/22 15:43	108-88-3	
Ethylbenzene	2.5	ug/m3	1.5	0.53	1.71		03/24/22 15:43	100-41-4	
m&p-Xylene	7.0	ug/m3	3.0	1.1	1.71		03/24/22 15:43	179601-23-1	
o-Xylene	2.7	ug/m3	1.5	0.46	1.71		03/24/22 15:43	95-47-6	
1,3,5-Trimethylbenzene	1.5J	ug/m3	1.7	0.50	1.71		03/24/22 15:43	108-67-8	
1,2,4-Trimethylbenzene	3.6	ug/m3	1.7	0.61	1.71		03/24/22 15:43	95-63-6	
Methyl-tert-butyl ether	<0.22	ug/m3	6.3	0.22	1.71		03/24/22 15:43	1634-04-4	
Naphthalene	<3.7	ug/m3	4.5	3.7	1.71		03/24/22 15:43		
n-Propylbenzene	1.5J	ug/m3	4.3	0.62	1.71		03/24/22 15:43	103-65-1	
.17		-	1.7	0.50	1.71		03/24/22 15:43		
1,2,3-Trimethylbenzene	1.4J	ug/m3	1.7	0.50			00/2 1/22 10110	020 70 0	
		ug/m3 10600785002		d: 03/15/22		Received: 03		atrix: Air	
						Received: 03 Prepared			Qual
Sample: SS-2 Parameters	Lab ID:	10600785002	Collecte	d: 03/15/22	2 12:35		s/16/22 09:51 Ma	atrix: Air	Qual
Sample: SS-2 Parameters	Lab ID: Results Analytical	10600785002 Units	Collected	d: 03/15/2: LOD	2 12:35		s/16/22 09:51 Ma	atrix: Air	Qual
Sample: SS-2 Parameters	Lab ID: Results Analytical	Units Method: TO-15	Collected	d: 03/15/2: LOD	2 12:35		s/16/22 09:51 Ma	etrix: Air CAS No.	Qual
Sample: SS-2 Parameters TO15 MSV AIR 1,2-Dichloroethane	Lab ID: Results Analytical Pace Ana	Units Method: TO-15 lytical Services	Collected LOQ - Minneapo	d: 03/15/22 LOD	2 12:35 DF		8/16/22 09:51 Ma	CAS No. 107-06-2	Qual
Sample: SS-2 Parameters TO15 MSV AIR 1,2-Dichloroethane Benzene	Lab ID: Results Analytical Pace Ana <0.35	Units Method: TO-15 lytical Services ug/m3	Collected LOQ - Minneapo	d: 03/15/22 LOD lis	2 12:35 DF 1.79		Analyzed 03/24/22 16:41	CAS No. 107-06-2 71-43-2	Qual
Sample: SS-2 Parameters TO15 MSV AIR 1,2-Dichloroethane Benzene Toluene	Results Analytical Pace Ana <0.35 4.5	Units Method: TO-15 lytical Services ug/m3 ug/m3	Collecte LOQ - Minneapo 1.5 0.58	LOD lis 0.35 0.20	2 12:35 DF 1.79 1.79		Analyzed 03/24/22 16:41 03/24/22 16:41	CAS No. 107-06-2 71-43-2 108-88-3	Qual
Parameters TO15 MSV AIR 1,2-Dichloroethane Benzene Toluene Ethylbenzene	Results Analytical Pace Ana <0.35 4.5 11.9	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3	Collecte LOQ - Minneapo 1.5 0.58 1.4	d: 03/15/22 LOD lis 0.35 0.20 0.44	2 12:35 DF 1.79 1.79 1.79		Analyzed O3/24/22 16:41 O3/24/22 16:41 O3/24/22 16:41	CAS No. 107-06-2 71-43-2 108-88-3 100-41-4	Qual
Parameters TO15 MSV AIR 1,2-Dichloroethane Benzene Toluene Ethylbenzene m&p-Xylene	Results Analytical Pace Ana <0.35 4.5 11.9 3.3	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	Collecte LOQ - Minneapo 1.5 0.58 1.4 1.6	LOD lis 0.35 0.20 0.44 0.55	2 12:35 DF 1.79 1.79 1.79 1.79		03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41	CAS No. 107-06-2 71-43-2 108-88-3 100-41-4 179601-23-1	Qual
Parameters TO15 MSV AIR 1,2-Dichloroethane Benzene Toluene Ethylbenzene m&p-Xylene o-Xylene	Results Analytical Pace Ana <0.35 4.5 11.9 3.3 8.5	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	Collecte LOQ	LOD lis 0.35 0.20 0.44 0.55 1.1	2 12:35 DF 1.79 1.79 1.79 1.79 1.79		03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41	CAS No. 107-06-2 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Qual
Parameters TO15 MSV AIR 1,2-Dichloroethane Benzene Toluene Ethylbenzene m&p-Xylene o-Xylene 1,3,5-Trimethylbenzene	Analytical Pace Ana <0.35 4.5 11.9 3.3 8.5 4.6	Units Method: TO-15 lytical Services ug/m3	Collecte LOQ - - Minneapo 1.5 0.58 1.4 1.6 3.2 1.6	d: 03/15/22 LOD lis 0.35 0.20 0.44 0.55 1.1 0.49	2 12:35 DF 1.79 1.79 1.79 1.79 1.79 1.79		03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41	107-06-2 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 108-67-8	Qual
Parameters TO15 MSV AIR 1,2-Dichloroethane Benzene Toluene Ethylbenzene m&p-Xylene o-Xylene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene	Results Analytical Pace Ana <0.35 4.5 11.9 3.3 8.5 4.6 1.6J	Units Method: TO-15 lytical Services ug/m3	Collected LOQ - Minneapo 1.5 0.58 1.4 1.6 3.2 1.6 1.8	LOD lis 0.35 0.20 0.44 0.55 1.1 0.49 0.52 0.63	2 12:35 DF 1.79 1.79 1.79 1.79 1.79 1.79 1.79		03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41	CAS No. 107-06-2 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 108-67-8 95-63-6	Qual
Parameters TO15 MSV AIR 1,2-Dichloroethane Benzene Toluene Ethylbenzene m&p-Xylene o-Xylene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Methyl-tert-butyl ether	Lab ID: Results Analytical Pace Ana <0.35 4.5 11.9 3.3 8.5 4.6 1.6J 3.5	Units Method: TO-15 lytical Services ug/m3	Collected LOQ - Minneapo 1.5 0.58 1.4 1.6 3.2 1.6 1.8 1.8 6.6	d: 03/15/22 LOD lis 0.35 0.20 0.44 0.55 1.1 0.49 0.52	2 12:35 DF 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.7		03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41	CAS No. 107-06-2 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 108-67-8 95-63-6 1634-04-4	Qual
TO15 MSV AIR 1,2-Dichloroethane Benzene Toluene Ethylbenzene m&p-Xylene o-Xylene	Lab ID: Results Analytical Pace Ana <0.35 4.5 11.9 3.3 8.5 4.6 1.6J 3.5 <0.23	Units Method: TO-15 lytical Services ug/m3	Collecte LOQ - - Minneapo 1.5 0.58 1.4 1.6 3.2 1.6 1.8 1.8	LOD lis 0.35 0.20 0.44 0.55 1.1 0.49 0.52 0.63 0.23	2 12:35 DF 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.7		03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41 03/24/22 16:41	107-06-2 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 108-67-8 95-63-6 1634-04-4 91-20-3	Qual



QUALITY CONTROL DATA

Project: 25221142.00 Harter's

Pace Project No.: 10600785

Date: 03/25/2022 03:08 PM

QC Batch: 805473 Analysis Method: TO-15

QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10600785001, 10600785002

METHOD BLANK: 4275548 Matrix: Air

Associated Lab Samples: 10600785001, 10600785002

7,00001, 100007,00002				
	Blank			
Units	Result	Limit	Analyzed	Qualifiers
ug/m3	<0.29	1.0	03/24/22 09:46	
ug/m3	< 0.35	1.0	03/24/22 09:46	
ug/m3	<0.19	0.82	03/24/22 09:46	
ug/m3	< 0.29	1.0	03/24/22 09:46	
ug/m3	<0.11	0.32	03/24/22 09:46	
ug/m3	<0.31	0.88	03/24/22 09:46	
ug/m3	< 0.64	1.8	03/24/22 09:46	
ug/m3	<0.13	3.7	03/24/22 09:46	
ug/m3	< 0.36	2.5	03/24/22 09:46	
ug/m3	<2.2	2.7	03/24/22 09:46	
ug/m3	<0.27	0.88	03/24/22 09:46	
ug/m3	<0.24	0.77	03/24/22 09:46	
	Units ug/m3	Blank Result Units Units Color of the process of	Units Blank Result Reporting Limit ug/m3 <0.29	Units Blank Result Reporting Limit Analyzed ug/m3 <0.29

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2,3-Trimethylbenzene	ug/m3	54.2	54.8	101	70-140	
1,2,4-Trimethylbenzene	ug/m3	54	53.9	100	70-137	
1,2-Dichloroethane	ug/m3	44.4	49.0	110	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.7	53.9	100	70-131	
Benzene	ug/m3	34.8	37.3	107	70-130	
Ethylbenzene	ug/m3	47.8	54.6	114	70-133	
n&p-Xylene	ug/m3	95.4	96.6	101	70-134	
Methyl-tert-butyl ether	ug/m3	39.6	43.5	110	70-131	
n-Propylbenzene	ug/m3	54	51.8	96	70-143	
Naphthalene	ug/m3	65.2	64.9	99	70-130	
o-Xylene	ug/m3	47.6	47.9	101	70-134	
Toluene	ug/m3	41.6	41.2	99	70-136	

SAMPLE DUPLICATE: 4276606						
		10600785001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,2,3-Trimethylbenzene	ug/m3		1.4J		25	
1,2,4-Trimethylbenzene	ug/m3	3.6	3.4	6	25	
1,2-Dichloroethane	ug/m3	< 0.33	< 0.33		25	
1,3,5-Trimethylbenzene	ug/m3	1.5J	1.6J		25	
Benzene	ua/m3	3.1	3.0	3	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: 25221142.00 Harter's

Pace Project No.: 10600785

Date: 03/25/2022 03:08 PM

SAMPLE DUPLICATE: 4276606						
		10600785001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Ethylbenzene	ug/m3	2.5	2.4	1	25	
m&p-Xylene	ug/m3	7.0	6.8	3	25	
Methyl-tert-butyl ether	ug/m3	<0.22	< 0.22		25	
n-Propylbenzene	ug/m3	1.5J	1.5J		25	
Naphthalene	ug/m3	<3.7	<3.7		25	
o-Xylene	ug/m3	2.7	2.7	2	25	
Toluene	ug/m3	7.9	7.3	7	25	

SAMPLE DUPLICATE: 4276607						
		10600785002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,2,3-Trimethylbenzene	ug/m3	1.4J	1.5J		25	
1,2,4-Trimethylbenzene	ug/m3	3.5	3.5	0	25	
1,2-Dichloroethane	ug/m3	< 0.35	< 0.35		25	
1,3,5-Trimethylbenzene	ug/m3	1.6J	1.5J		25	
Benzene	ug/m3	4.5	4.5	1	25	
Ethylbenzene	ug/m3	3.3	3.4	3	25	
m&p-Xylene	ug/m3	8.5	9.2	8	25	
Methyl-tert-butyl ether	ug/m3	< 0.23	< 0.23		25	
n-Propylbenzene	ug/m3	1.6J	1.6J		25	
Naphthalene	ug/m3	5.0	5.1	1	25	
o-Xylene	ug/m3	4.6	4.7	2	25	
Toluene	ug/m3	11.9	11.4	4	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 25221142.00 Harter's

Pace Project No.: 10600785

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 03/25/2022 03:08 PM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25221142.00 Harter's

Pace Project No.: 10600785

Date: 03/25/2022 03:08 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10600785001	SS-1	TO-15	805473		
10600785002	SS-2	TO-15	805473		



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:		Section C Invoice Information:					5238	1	age: of	1
Address: 2639 Dairy TV	Copy To:	d	Attention: 5 a Company Name:	ue Ses B	ngineers		□ UST □	Progran		Clean A	Air Act
Mudipu UT 5378 mail To: Planglong Ses Rymaers con	Purchase Order No.:		Address: Pace Quote Reference:	Sau	2		Valuntary	Clean Up D	ry Clean	RCRA C	
Phone: Fax: We 212 3995 Requested Due Date/TAT:	Project Name: Harter's Project Number: 2577	4142.00	Pace Project Manager/Sa	ales Rep.			Location of Sampling by		0	n/m³_ mg/m³_ PBV PPMV_ her	
'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10 VE UN	COMPOSITE STAI	COLLECTED IRT COMPOSITE ENDIGRAB	Canister Pressure Initial Field - in Hg)	(Final Field - in Hg) Summa Can Number	Flow Control Number	Method:		Mortist Brek Mortist Brek Mortist Chomas		
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7 8 M O'Companies montained seeks agains	e so lance editor	ab sarra b		L L)#:10(50079	25				
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comments: Analyte for: VOC\$ + Naphtholene 123 Trimethy lbente	ine,	so Garage	305 41	71110	Many		2 2 114 00			N N N N N N N N N N N N N N N N N N N	N/A N/A
- propylberzene, ORIGINA	1,2 dichlor	oethan	SAMPLER NA PRINT Name of SAM SIGNATURE OF SAM	ME AND SIGNATU	ire Ingdom	DATE Signed (MM_/	on Avy	W 71729	Temp in °C	Custody Sealed Cooler	Samples Intact Y/N

Pace Analytical*

incorrect preservative, out of temp, incorrect containers).

Document Name:

Sample Condition Upon Receipt (SCUR) - Air

Document No.: ENV-FRM-MIN4-0113 Rev.01

Document Revised: 13Oct2021 Page 1 of 1

Pace Analytical Services - Minneapolis

Air Sample Condition	Client Nar	me. – – o	<u> </u>		Project	#: [MO#:	1060	0785	5
Upon Receipt Courier: FedEx Pace Tracking Number:	UF	PS DeeDee	USPS Commer	cial C	lient		PM: KNH		Date: 0	
Custody Seal on Coole			Ø ² No	 	J oce Eventuer	L		3		
Seals Intact? Yes				~				,		
Packing Material: [☐ Bubble Wra ☐ None	ap 🔲 Bubbi 🔲 Tin Ca	-	☑Foam ☑Other:	-,			nitials of Person lining Contents:	3-16	-22 M
								Comments	s:	
Chain of Custody Presen	t?		PY		0	1.				
Chain of Custody Filled C			Ū-Y			2.				
Chain of Custody Relinqu						3. 4.				
	Sampler Name and/or Signature on COC?					5.				
Samples Arrived within I Short Hold Time Analysi			<u>X</u>			6.	1,			
Rush Turn Around Time						7.				
Sufficient Volume?	nequesteu.		₩	/		8.				
Correct Containers Used	?					9.				
(Tedlar bags not acco	eptable cont	ainer for TO-	.15 ⊠ γ	es 🔲 No	o		•			
or APH)			'			l				
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Containers Intact?		_	ν Θ	es 🗆 No		10.			_	
(visual inspection/no		pressurized)			11	Individually Certi	find Caps2 V /	N Viet wh	ich samples)
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the COC? Do cans need to be press	urized?		-11			13.				
(DO NOT PRESSURIZ		л 1946!!!)	, 2 3°Y	es	<u> </u>					
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	Cani	isters					Ca	nisters		
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Nu	mber	Can ID	Flow Controller	Initial Pressure	Final Pressure
55-1	668	1902	-6.5	+5						
55-2	1495	925	-7.5	+5						
		16.5								
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Person Contacted					Date/Time:					
Comments/Resolution					-				· .	
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Project Manager Review Note: Whenever there is a d	w: / Yera	un yrog	very	camples a com	u of this form will ha	Sent t	o the North Carolin	a DEHNR Certifica	tion Office (i.e	out of hold,
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Date: 3/25/2022

Pace Analytical Services, LLC 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Lab Project Number: 10600785 SCS Engineers

Phone: 843.746.8525 Project Name: 25221142.00 Harter's

Lab Sample No: 10600785001 Date Collected: 03/15/22 12:12 ProjSampleNum: 10600785001 Date Received: 03/16/22 9:51

Client Sample ID: SS-1 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,2,3-Trimethylbenzene	0.28J	ppbv	0.34	1.71	03/24/22 15:43 AFV	526-73-8	
1,2,4-Trimethylbenzene	0.72	ppbv	0.34	1.71	03/24/22 15:43 AFV	95-63-6	
1,2-Dichloroethane	<0.08	ppbv	0.34	1.71	03/24/22 15:43 AFV	107-06-2	
1,3,5-Trimethylbenzene	0.3J	ppbv	0.34	1.71	03/24/22 15:43 AFV	108-67-8	
Benzene	0.95	ppbv	0.17	1.71	03/24/22 15:43 AFV	71-43-2	
Ethylbenzene	0.57	ppbv	0.34	1.71	03/24/22 15:43 AFV	100-41-4	
m&p-Xylene	1.6	ppbv	0.68	1.71	03/24/22 15:43 AFV	179601-23-1	
Methyl-tert-butyl ether	< 0.06	ppbv	1.7	1.71	03/24/22 15:43 AFV	1634-04-4	
Naphthalene	< 0.69	ppbv	0.84	1.71	03/24/22 15:43 AFV	91-20-3	
n-Propylbenzene	0.3J	ppbv	0.86	1.71	03/24/22 15:43 AFV	103-65-1	
o-Xylene	0.61	ppbv	0.34	1.71	03/24/22 15:43 AFV	95-47-6	
Toluene	2.1	ppbv	0.34	1.71	03/24/22 15:43 AFV	108-88-3	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Page 1 Units Conversion Request



Date: 3/25/2022

Pace Analytical Services, LLC 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers Lab Project Number: 10600785

Phone: 843.746.8525 Project Name: 25221142.00 Harter's

Lab Sample No: 10600785002 ProjSampleNum: 10600785002 Date Collected: 03/15/22 12:35

Client Sample ID: SS-2 Matrix: Air Date Received: 03/16/22 9:51

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
1,2,3-Trimethylbenzene	0.28J	ppbv	0.36	1.79	03/24/22 16:41 AFV	526-73-8	
1,2,4-Trimethylbenzene	0.7	ppbv	0.36	1.79	03/24/22 16:41 AFV	95-63-6	
1,2-Dichloroethane	< 0.085	ppbv	0.36	1.79	03/24/22 16:41 AFV	107-06-2	
1,3,5-Trimethylbenzene	0.32J	ppbv	0.36	1.79	03/24/22 16:41 AFV	108-67-8	
Benzene	1.4	ppbv	0.18	1.79	03/24/22 16:41 AFV	71-43-2	
Ethylbenzene	0.75	ppbv	0.36	1.79	03/24/22 16:41 AFV	100-41-4	
m&p-Xylene	1.9	ppbv	0.72	1.79	03/24/22 16:41 AFV	179601-23-1	
Methyl-tert-butyl ether	< 0.063	ppbv	1.8	1.79	03/24/22 16:41 AFV	1634-04-4	
Naphthalene	0.94	ppbv	0.9	1.79	03/24/22 16:41 AFV	91-20-3	
n-Propylbenzene	0.32J	ppbv	0.9	1.79	03/24/22 16:41 AFV	103-65-1	
o-Xylene	1	ppbv	0.36	1.79	03/24/22 16:41 AFV	95-47-6	
Toluene	3.1	ppbv	0.37	1.79	03/24/22 16:41 AFV	108-88-3	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request Page 2



Date: 3/25/2022

Pace Analytical Services, LLC 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers Lab Project Number: 10600785

Phone: 843.746.8525 Project Name: 25221142.00 Harter's

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT

Units Conversion Request Page 3

Page 15 of 15