

From: Cull, Whitney <Whitney.Cull@stantec.com>
Sent: Friday, April 26, 2024 9:15 AM
To: Beggs, Tauren R - DNR
Cc: Byers, Harris
Subject: RE: Soil Characterization for River Point - US-10 Eastbound
Attachments: 20240418 Soil Characterization - US-10E ROW_.pdf

Good morning Tauren,

For record continuity, attached is our letter report on the soil characterization of the US-10 Eastbound material described below for use at the River Point District.

Thank you, and have a great weekend!

Whitney Cull

Stantec
Geological Engineer in Training
Mobile: (262) 219 - 4740

From: Cull, Whitney
Sent: Thursday, April 18, 2024 12:11 PM
To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Cc: Byers, Harris <Harris.Byers@stantec.com>
Subject: RE: Soil Characterization for River Point - US-10 Eastbound

Appreciate the feedback, Tauren. Thank you!

Whitney Cull

Stantec
Geological Engineer in Training
Mobile: (262) 219 - 4740

From: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Sent: Thursday, April 18, 2024 11:39 AM
To: Cull, Whitney <Whitney.Cull@stantec.com>
Cc: Byers, Harris <Harris.Byers@stantec.com>
Subject: RE: Soil Characterization for River Point - US-10 Eastbound

Hi Whitney,

Based on your waste generator determination and soil results, your approach outlined below seems acceptable.

Regards,
Tauren

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Tauren R. Beggs

Phone: (920) 510-3472

Tauren.Beggs@wisconsin.gov

From: Cull, Whitney <Whitney.Cull@stantec.com>
Sent: Tuesday, April 16, 2024 5:23 PM
To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Cc: Byers, Harris <Harris.Byers@stantec.com>
Subject: Soil Characterization for River Point - US-10 Eastbound

Good afternoon Tauren,

Another week, another beautiful day to talk about River Point! We have another opportunity to import some additional fill needed for raising the grade at River Point from a road project along US-10 in Manitowoc County. We collected (12) samples along approximately 5,000 feet of the alignment (sample density ~ 1 per 417 CY) in rural farmland, of native silty clay that would be disturbed as part of the construction of an east-bound passing lane. Stantec is of the opinion that this sample density is appropriate given the rural historical and current nature of US-10, the lack of observed visual/olfactory impacts, the quality of the material, and the lack of environmental cases in this area (only on BRRTS case in the area, several hundred feet from the alignment and with no offsite impacts).

Analytical results indicate that this material is suitable for use anywhere within the River Point District. High level summary:

- No VOCs at quantifiable concentrations greater than NR 720 standards (J- and/or B-flagged chloroform and methylene chloride only, which are laboratory artifacts),
- No PAHs above NR 720 standards, and
- No RCRA metals at quantifiable concentrations greater than their respective BTVs/RCLs (a single J-flagged detection each of selenium and silver above the groundwater pathway).

For additional reference and context, attached are:

- Figure 1 – US-10 sample locations,
- Table 1 – Qualitative soil observations, and
- Table 2 – Detected constituents in soil.

Our goal for this material is to give it flexibility to be imported to wherever it is next needed as part of raising or finishing grades at the River Point District. To accomplish this, our hope is to not have to “lock in” a designated location on River Point for it to be placed, as the best/most efficient placement may shift based on construction sequencing and pending development. Would you agree that this material is suitable to import to River Point in this manner? Final/actual placement would, of course, be documented as part of future reporting.

Let me know if you would like to discuss, happy to chat if needed 😊 A letter report will also be forthcoming.

Thank you!

Whitney Cull

Geological Engineer in Training

Mobile: (262) 219 - 4740



We've moved, but just across the street! Please note our new address, effective 5/23/2022:

Stantec
12080 Corporate Parkway Suite 200
Mequon WI 53092-2649

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Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.



Stantec Consulting Services Inc.
12080 Corporate Parkway, Suite 200 Mequon WI 53092

April 18, 2024
File: 193710442

Attention: Mr. John Streu & Mr. Troy Schmidt
Vinton Construction Co. Vinton Construction Co.
jstreu@vintonwis.com tschmidt@vintonwis.com

Dear Mr. Streu and Mr. Schmidt,

Reference: Characterization of Soil in the US-10 Eastbound Right of Way (Grove Road to Steinberg Lane); Manitowoc County, Wisconsin

Stantec Consulting Services Inc. (Stantec) has prepared this letter report following collection and laboratory analysis of soil samples collected along the US-10 Eastbound right of way (ROW) between Grove Road and Steinberg Lane in Manitowoc County, Wisconsin. The purpose of this sampling was to characterize representative soil targeted for use as potential fill at the River Point District (outlined in yellow on **Figure 1**). The location of the US-10 Eastbound ROW project area is illustrated on **Figure 2**.

BACKGROUND

Vinton Construction Company (Vinton) will be constructing a passing lane for the US-10 Eastbound right of way in a rural area of Manitowoc County from approximately Grove Road to Steinberg Lane. The project is expected to generate approximately 5,000 cubic yards of soil that Vinton has offered to the City of Manitowoc as fill for the River Point District. The River Point District is undergoing investigation under chapter NR 700 of the Wisconsin Administrative Code (WAC); at the recommendation of the Wisconsin Department of Natural Resources (WDNR), sampling of representative soil prior to placement at the River Point District was warranted.

METHODS

On April 1, 2024, Stantec met Vinton onsite and collected 11 discrete soil samples and one field duplicate sample for characterization as potential fill for the River Point District property. Soil samples were collected via test pits advanced by Vinton using a mini excavator along the southern shoulder of the US-10 Eastbound ROW and were extended to approximately 1.5 feet below ground surface (ft bgs), the maximum proposed cut depth for the project.

- Gravel road base materials along the shoulder accounted for the upper foot of the surface and are proposed to be reused by Vinton as part of US-10 passing lane construction.
- The soil beneath the road base (approximately 1 – 1.5 ft bgs) was sampled to identify suitability for use at the River Point District and is characterized in this report.

Sample locations are illustrated on **Figure 2**, and qualitative observations of soils encountered are illustrated on **Table 1**. A photographic log depicting subsurface lithology is provided in **Attachment A**.

Stantec field personnel screened each soil sample using a portable photoionization detector (PID), calibrated to a 100 parts per million isobutylene standard, to screen the soil samples for volatile organic compounds (VOCs). Soil was sampled from representative soil units and submitted to Eurofins TestAmerica (Chicago, Illinois) under chain-of-custody procedures for analysis of Resource Conservation and Recovery Act (RCRA)

April 18, 2024

Mr. John Streu & Mr. Troy Schmidt

Page 2 of 3

Reference: Characterization of Soil in the US-10 Eastbound Right of Way (Grove Road to Steinberg Lane); Manitowoc County, Wisconsin

metals, polycyclic aromatic hydrocarbons (PAHs), and VOCs. Laboratory analytical results are provided in **Attachment B** and detected constituents are compared to ch. NR 720 WAC health-based residual contaminant levels (RCLs) and background threshold values (BTVs) on **Table 2**.

RESULTS

The existing soils at a depth of approximately 1 to 1.5 bgs beneath the gravel shoulder of the US-10 Eastbound ROW consisted of apparent native silty clays (**Table 1**). All PID measurements were below two instrument units; no waste materials, odors or evidence of staining was observed in any sample.

VOCs. As summarized on **Table 2**, the concentrations of chloroform and methylene chloride were greater than the soil to groundwater RCL. However, these detections are not considered representative as the values are all qualified with a "J" flag, suggesting the detections are approximated values. Chloroform was additionally detected in the laboratory blank and qualified with a "B" flag, suggesting the apparent detections in soil are a laboratory artifact. No other VOC constituents were detected in any samples collected along the US-10 Eastbound ROW. As such, VOCs do not appear to limit the potential to reuse this material as fill at the River Point District.

RCRA Metals. As summarized on **Table 2**, a single detection of selenium and silver was present at a concentration greater than the soil to groundwater RCL. However, these detections are not considered representative as both values are qualified with a "J" flag, suggesting the detections are approximated values. The concentrations of all remaining metals in soil were less than applicable health based RCLs and/or BTVs. As such, RCRA metals do not appear to limit the potential to reuse the US-10 Eastbound ROW soils material as fill at the River Point District.

PAHs. As summarized on **Table 2**, the concentrations of PAHs in soil are all less than the most restrictive health-based soil quality standards. As such, PAHs do not appear to limit the potential to reuse this material as fill at the River Point District.

CONCLUSIONS

The approximate 5,000 total cubic yards of silty clay soil to be generated as part of the construction of the US-10 Eastbound passing lane are suitable for use as fill material at the River Point District (as general fill to achieve target grades, and/or as surface/capping material).

If soils with apparent impacts (unusual odor, color, staining, or evidence of waste materials) not observed during the Stantec April 2024 soil characterization sampling are encountered during the US-10 Eastbound ROW construction work, it shall not be placed at the River Point District and should instead be managed for landfill disposal.

Stantec recommends submitting this letter to WDNR for concurrence with our conclusions prior to placement of excavation spoil from the US-10 Eastbound ROW at the River Point District.

April 18, 2024

Mr. John Streu & Mr. Troy Schmidt

Page 3 of 3

Reference: Characterization of Soil in the US-10 Eastbound Right of Way (Grove Road to Steinberg Lane); Manitowoc County, Wisconsin

Regards,

Stantec Consulting Services, Inc.



Whitney Cull, EIT
Project Manager
whitney.cull@stantec.com



Stu Gross, P.G.,
Practice Lead/Senior Project Manager
stu.gross@stantec.com

Enclosures

Figures

Tables

Attachments:

Attachment A: Photographic Log

Attachment B: Laboratory Report

LIMITATIONS

The conclusions in this letter are Stantec's professional opinion, as of the time of the letter, and concerning the scope described in the letter. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. This letter relates solely to the specific project for which Stantec was retained and the stated purpose for which the letter was prepared. This letter is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

Stantec has assumed all information received from third parties in the preparation of this letter to be correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein.

This letter is intended solely for use by Vinton in accordance with Stantec's contract with Vinton. While this letter may be provided to applicable authorities having jurisdiction and others for whom Vinton is responsible, Stantec does not warrant the services to any third party. This letter may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec's discretion.

FIGURES



Figure No.

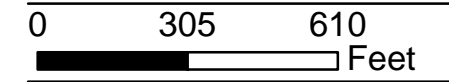
1

Title

**River Point District
Location**

Client/Project
River Point District
City of Manitowoc

Prepared by HLB on 2/1/2022



Legend

 River Point District



Notes

1. Coordinate System: NAD 1983 HARN WISCRS Manitowoc County Feet
2. Orthophotograph: Manitowoc County, 2020



Figure No.

2

Title

**US-10 Eastbound ROW
Sample Locations**

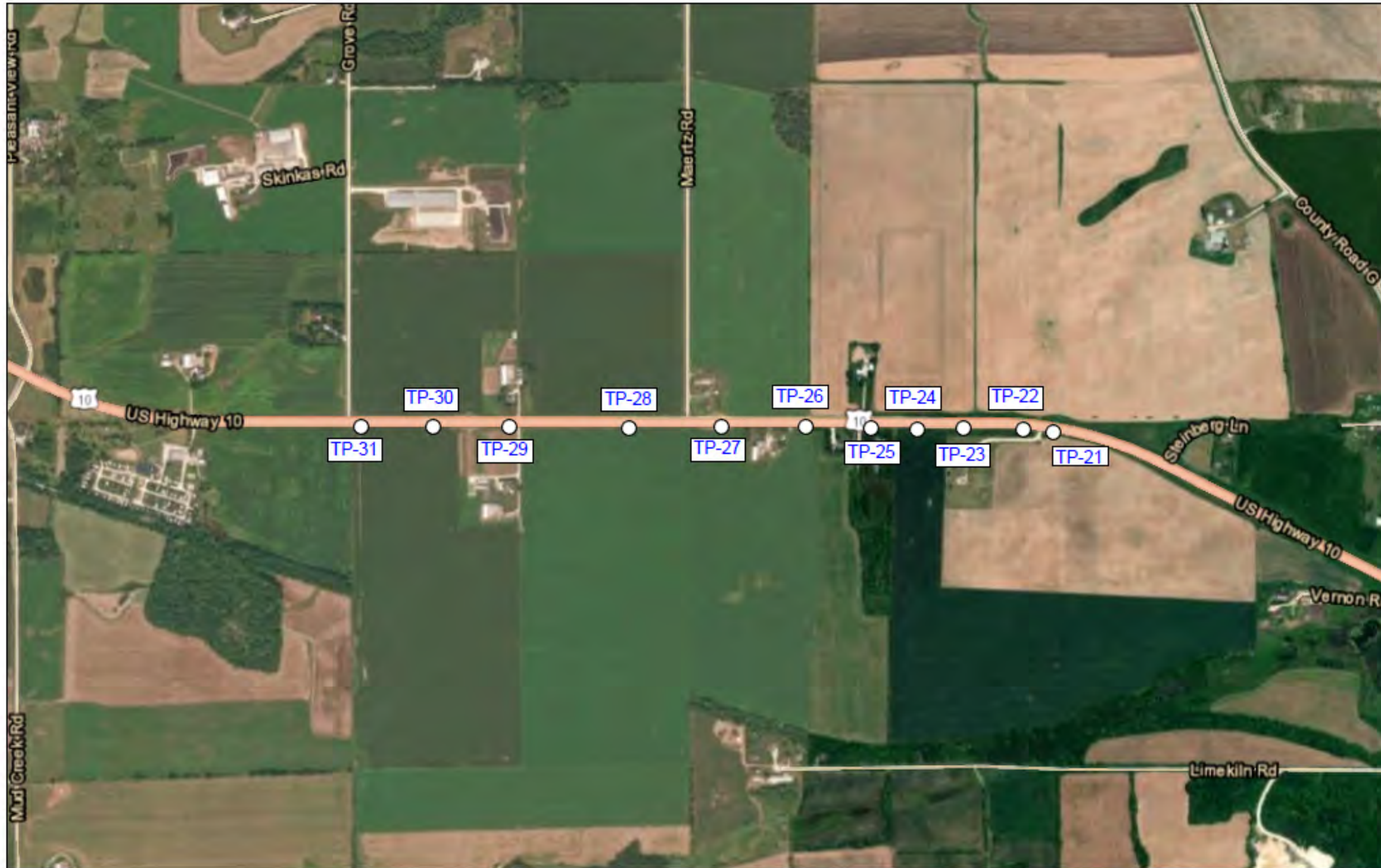
Client/Project

River Point Fill Characterization
US-10 Eastbound ROW
City of Manitowoc

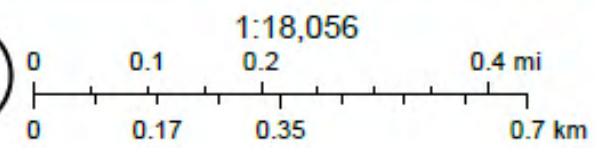
Legend



US-10 Eastbound Sample Location



4/16/2024



Notes

1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet



TABLES

Table 1 - Qualitative Soil Observations
 US-10 Eastbound
 Manitowoc, Wisconsin

ID	Depth (ft bgs)	PID	Odor	Soil Description
TP-21	1.5	1.2	None	Red-brown silty clay, moderately plastic, soft, moist
TP-22	1.5	0.8	None	
TP-23	1.5	1.4	None	Red-brown silty clay, moderately plastic, soft, moist, with ~20% gravel
TP-24	1.5	0.5	None	
TP-25	1.5	0.8	None	
TP-26	1.5	0.9	None	
TP-27	1.5	1.1	None	
TP-28	1.5	0.9	None	
TP-29	1.5	1.4	None	Dark brown silty clay, moderately plastic, soft, moist, with ~20% gravel
TP-30	1.5	0.7	None	Red-brown silty clay, moderately plastic, soft, moist, with ~20% gravel
TP-31	1.5	0.8	None	

Notes:

- ft bgs Feet below ground surface
- PID Photoionization detector reading

Table 2 - Detected Constituents in Soil
US-10 Eastbound
Manitowoc, Wisconsin

Analyte	Industrial Direct Contact RCL	Non-Industrial Direct Contact RCL	Soil to Groundwater RCL	Wisconsin BTV	Laboratory ID; Sample ID; Sample Date												
					500-248349-1	500-248349-2	500-248349-3	500-248349-4	500-248349-5	500-248349-6	500-248349-7	500-248349-8	500-248349-9	500-248349-12	500-248349-10	500-248349-11	500-248349-13
					TP-21	TP-22	TP-23	TP-24	TP-25	TP-26	TP-27	TP-28	TP-29	TP-29 (Dup-1)	TP-30	TP-31	Trip Blank
Detected Volatile Organic Compounds (µg/kg)																	
Chloroform	1,980	454	3.3	n/v	39 J B *+	35 J B *+	34 J B *+	37 J B *+	44 J B *+	41 J B *+	41 J B *+	39 J B *+	41 J B *+	<26 *+	45 J B *+	<25 *+	<19 *+
Methylene Chloride	1,150,000	61,800	2.6	n/v	<100	<90	<100	<100	<110	<120	<110	<120	110 J	<110	<110	<110	<82
Detected Polycyclic Aromatic Hydrocarbons (µg/kg)																	
Benzo[a]anthracene	20,800	1,140	n/v	n/v	<7.7	<16	<7.9	<7.7	<7.7	<8.3	<8.0	<8.4	<8.3	-	14 J	<8.1	-
Chrysene	2,110,000	115,000	144	n/v	<9.6	<19	<9.8	<9.5	<9.6	<10	<10	<10	<10	-	12 J	<10	-
Fluoranthene	30,100,000	2,390,000	88,877	n/v	25 J	<17	11 J	9.5 J	14 J	<9.1	<8.8	<9.2	15 J	-	24 J	<8.8	-
Phenanthrene	n/v	n/v	n/v	n/v	18 J	<16	<8.1	<7.9	9.1 J	<8.5	<8.2	<8.6	<8.5	-	21 J	<8.3	-
Pyrene	22,600,000	1,790,000	54,545	n/v	19 J	<20	<10	<9.9	14 J	<11	<10	<11	14 J	-	25 J	<10	-
Detected Resource Conservation and Recovery Act Metals (mg/kg)																	
Arsenic	8.3* [3]	8.3* [0.677]	8.3* [0.584]	8.3	3.6 F1	3.3	2.4	2.7	3.3	3.8	4.2	4.1	3.6	-	2.7	4.2	-
Barium	100,000	15,300	364* [164.8]	364	67 F1	52	43	47	63	76	62	82	64	-	53	62	-
Cadmium	985	71	1* [0.752]	1	0.21	0.24	0.19	0.22	0.19 J	0.18 J	0.18 J	0.21 J	0.21 J	-	0.27	0.19 J	-
Chromium	n/v	n/v	360,000	44	22 F1	19	14	16	22	26	22	29	21	-	17	20	-
Lead	800	400	51.6* [27]	51.6	13 F1	12	7.6	12	9.8	8.4	8.6	9.3	11	-	17	7.4	-
Selenium	5,840	391	0.52	n/v	<0.58 F1	<0.57	<0.56	<0.58	<0.66	<0.61	<0.66	0.71 J	<0.66	-	<0.67	<0.66	-
Silver	5,840	391	0.849	n/v	<0.64	<0.63	0.89 J	<0.64	<0.72	<0.67	<0.73	<0.75	<0.72	-	<0.74	<0.73	-
Mercury	3.13	3.13	0.208	n/v	0.036	0.025	0.026	0.023	0.036	0.031	0.031	0.032	0.030	-	0.030	0.014 J	-

- Notes:**
- µg/kg Micrograms per kilogram
 - mg/kg Milligrams per kilogram
 - BTV Background threshold value
 - NR 720 ch. NR 720 Wisconsin Administrative Code
 - RCL Residual contaminant level
 - n/v No value/standard
 - Parameter not analyzed
 - Constituent exceeds the ch. NR 720 soil to groundwater RCL
 - < Analyte not detected at a concentration greater than the laboratory reporting limit.
 - *+ Laboratory control sample/duplicate is outside acceptance limits, high biased.
 - B Compound was found in the laboratory method blank and sample.
 - J Reported concentration is an approximate value.
 - F1 Matrix spike/duplicate recovery exceeds control limits.
 - XX* [XXX] Standard in bold is the SBTV being used for the purpose of evaluation under ch. NR700 WAC. The established WAC RCL is noted in brackets.

ATTACHMENT A
Photographic Log

Client:	Vinton Construction Co.	Project:	193710442
Site Name:	US-10 Eastbound Soil Characterization	Site Location:	US-10, Wisconsin

Photograph ID: 1	
Photo Location: TP-22 (east end)	
Direction: Looking north	
Survey Date: 4/1/2024	
Comments: Performing TP-22	

Photograph ID: 2	
Photo Location: TP-23 (east end)	
Direction:	
Survey Date: 4/1/2024	
Comments: Soil from TP-23	

Client:	Vinton Construction Co.	Project:	193710442
Site Name:	US-10 Eastbound Soil Characterization	Site Location:	US-10, Wisconsin

Photograph ID: 3	
Photo Location: TP-28 (west end)	
Direction: Looking northeast	
Survey Date: 4/1/2024	
Comments: Performing TP-28	

Photograph ID: 4	
Photo Location: TP-29 (west end)	
Direction: Looking north	
Survey Date: 4/1/2024	
Comments: Soil from TP-29	

ATTACHMENT B
Laboratory Report



ANALYTICAL REPORT

PREPARED FOR

Attn: Whitney Cull
Stantec Consulting Corporation
12080 Corporate Parkway, Suite 200
Mequon, Wisconsin 53092

Generated 4/16/2024 1:48:12 PM

JOB DESCRIPTION

Manitowoc ROWs - 193710442

JOB NUMBER

500-248349-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits

- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



Generated
4/16/2024 1:48:12 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	8
Sample Summary	9
Client Sample Results	10
Definitions	47
QC Association	48
Surrogate Summary	52
QC Sample Results	54
Chronicle	70
Certification Summary	76
Chain of Custody	77
Receipt Checklists	80

Case Narrative

Client: Stantec Consulting Corporation
Project: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Job ID: 500-248349-1

Eurofins Chicago

Job Narrative 500-248349-1

Receipt

The samples were received on 4/2/2024 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method 8260D: Surrogate recovery for the following samples were outside the upper control limit: TP-21 (500-248349-1), TP-22 (500-248349-2), TP-23 (500-248349-3), TP-24 (500-248349-4), TP-25 (500-248349-5), TP-26 (500-248349-6), TP-27 (500-248349-7), TP-28 (500-248349-8), TP-29 (500-248349-9), TP-30 (500-248349-10) and (LB3 500-761178/14-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-761178, 500-761178, 500-761178, 500-761178, 500-761178, 500-761178, 500-761178, 500-761178 and 500-761178 and analytical batch 500-761969 recovered outside control limits for the following analytes: Carbon Tetrachloride and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The method blank for preparation batch 500-761178, 500-761178, 500-761178, 500-761178, 500-761178, 500-761178, 500-761178, 500-761178, 500-761178 and 500-761178 and analytical batch 500-761969 contained Chloroform above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-761178 and analytical batch 500-761969 were outside control limits for one or more analytes.

Method 8260D: The laboratory control sample (LCS) for 761178 recovered outside control limits for several analytes. This is a prepped 5035 LCS. All daily instrument LCS were acceptable, and the data have been reported.(LCS 500-761178/15-A)

Method 8260D: The matrix spike/ matrix spike duplicate (MS/MSD) for the following sample was analyzed outside the 12 hour tune window. No further action was taken.(500-248349-A-10-A MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270E: The following sample was diluted due to the nature of the sample matrix: TP-22 (500-248349-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The following samples were diluted due to the abundance of non-target analytes: TP-21 (500-248349-1), TP-22 (500-248349-2), TP-24 (500-248349-4), TP-25 (500-248349-5), TP-26 (500-248349-6), TP-27 (500-248349-7), TP-28 (500-248349-8), TP-29 (500-248349-9), TP-30 (500-248349-10) and TP-31 (500-248349-11). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Eurofins Chicago

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-21

Lab Sample ID: 500-248349-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	39	J B **	120	23	ug/Kg	50	✳	8260D	Total/NA
Fluoranthene	25	J	36	8.5	ug/Kg	1	✳	8270E	Total/NA
Phenanthrene	18	J	36	7.9	ug/Kg	1	✳	8270E	Total/NA
Pyrene	19	J	36	10	ug/Kg	1	✳	8270E	Total/NA
Arsenic	3.6	F1	0.99	0.34	mg/Kg	1	✳	6010D	Total/NA
Barium	67	F1	0.99	0.11	mg/Kg	1	✳	6010D	Total/NA
Cadmium	0.21		0.20	0.035	mg/Kg	1	✳	6010D	Total/NA
Chromium	22	F1	0.99	0.49	mg/Kg	1	✳	6010D	Total/NA
Lead	13	F1	0.49	0.23	mg/Kg	1	✳	6010D	Total/NA
Mercury	0.036		0.017	0.0068	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: TP-22

Lab Sample ID: 500-248349-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	35	J B **	110	20	ug/Kg	50	✳	8260D	Total/NA
Arsenic	3.3		0.97	0.33	mg/Kg	1	✳	6010D	Total/NA
Barium	52		0.97	0.11	mg/Kg	1	✳	6010D	Total/NA
Cadmium	0.24		0.19	0.035	mg/Kg	1	✳	6010D	Total/NA
Chromium	19		0.97	0.48	mg/Kg	1	✳	6010D	Total/NA
Lead	12		0.49	0.22	mg/Kg	1	✳	6010D	Total/NA
Mercury	0.025		0.018	0.0073	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: TP-23

Lab Sample ID: 500-248349-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	34	J B **	120	23	ug/Kg	50	✳	8260D	Total/NA
Fluoranthene	11	J	37	8.6	ug/Kg	1	✳	8270E	Total/NA
Arsenic	2.4		0.96	0.33	mg/Kg	1	✳	6010D	Total/NA
Barium	43		0.96	0.11	mg/Kg	1	✳	6010D	Total/NA
Cadmium	0.19		0.19	0.034	mg/Kg	1	✳	6010D	Total/NA
Chromium	14		0.96	0.47	mg/Kg	1	✳	6010D	Total/NA
Lead	7.6		0.48	0.22	mg/Kg	1	✳	6010D	Total/NA
Silver	0.89	J	2.4	0.62	mg/Kg	5	✳	6010D	Total/NA
Mercury	0.026		0.016	0.0067	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: TP-24

Lab Sample ID: 500-248349-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	37	J B **	130	24	ug/Kg	50	✳	8260D	Total/NA
Fluoranthene	9.5	J	36	8.4	ug/Kg	1	✳	8270E	Total/NA
Arsenic	2.7		0.99	0.34	mg/Kg	1	✳	6010D	Total/NA
Barium	47		0.99	0.11	mg/Kg	1	✳	6010D	Total/NA
Cadmium	0.22		0.20	0.035	mg/Kg	1	✳	6010D	Total/NA
Chromium	16		0.99	0.49	mg/Kg	1	✳	6010D	Total/NA
Lead	12		0.49	0.23	mg/Kg	1	✳	6010D	Total/NA
Mercury	0.023		0.017	0.0072	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: TP-25

Lab Sample ID: 500-248349-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	44	J B **	130	25	ug/Kg	50	✳	8260D	Total/NA
Fluoranthene	14	J	36	8.5	ug/Kg	1	✳	8270E	Total/NA
Phenanthrene	9.1	J	36	7.9	ug/Kg	1	✳	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Stantec Consulting Corporation
Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-25 (Continued)

Lab Sample ID: 500-248349-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	14	J	36	9.9	ug/Kg	1	☒	8270E	Total/NA
Arsenic	3.3		1.1	0.38	mg/Kg	1	☒	6010D	Total/NA
Barium	63		1.1	0.13	mg/Kg	1	☒	6010D	Total/NA
Cadmium	0.19	J	0.22	0.040	mg/Kg	1	☒	6010D	Total/NA
Chromium	22		1.1	0.55	mg/Kg	1	☒	6010D	Total/NA
Lead	9.8		0.56	0.26	mg/Kg	1	☒	6010D	Total/NA
Mercury	0.036		0.017	0.0072	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: TP-26

Lab Sample ID: 500-248349-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	41	J B **	140	26	ug/Kg	50	☒	8260D	Total/NA
Arsenic	3.8		1.0	0.36	mg/Kg	1	☒	6010D	Total/NA
Barium	76		1.0	0.12	mg/Kg	1	☒	6010D	Total/NA
Cadmium	0.18	J	0.21	0.038	mg/Kg	1	☒	6010D	Total/NA
Chromium	26		1.0	0.52	mg/Kg	1	☒	6010D	Total/NA
Lead	8.4		0.52	0.24	mg/Kg	1	☒	6010D	Total/NA
Mercury	0.031		0.018	0.0076	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: TP-27

Lab Sample ID: 500-248349-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	41	J B **	140	26	ug/Kg	50	☒	8260D	Total/NA
Arsenic	4.2		1.1	0.38	mg/Kg	1	☒	6010D	Total/NA
Barium	62		1.1	0.13	mg/Kg	1	☒	6010D	Total/NA
Cadmium	0.18	J	0.22	0.040	mg/Kg	1	☒	6010D	Total/NA
Chromium	22		1.1	0.56	mg/Kg	1	☒	6010D	Total/NA
Lead	8.6		0.56	0.26	mg/Kg	1	☒	6010D	Total/NA
Mercury	0.031		0.018	0.0074	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: TP-28

Lab Sample ID: 500-248349-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	39	J B **	140	27	ug/Kg	50	☒	8260D	Total/NA
Arsenic	4.1		1.2	0.40	mg/Kg	1	☒	6010D	Total/NA
Barium	82		1.2	0.13	mg/Kg	1	☒	6010D	Total/NA
Cadmium	0.21	J	0.23	0.042	mg/Kg	1	☒	6010D	Total/NA
Chromium	29		1.2	0.58	mg/Kg	1	☒	6010D	Total/NA
Lead	9.3		0.58	0.27	mg/Kg	1	☒	6010D	Total/NA
Selenium	0.71	J	1.2	0.68	mg/Kg	1	☒	6010D	Total/NA
Mercury	0.032		0.019	0.0077	mg/Kg	1	☒	7471B	Total/NA

Client Sample ID: TP-29

Lab Sample ID: 500-248349-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	41	J B **	140	26	ug/Kg	50	☒	8260D	Total/NA
Methylene Chloride	110	J	350	110	ug/Kg	50	☒	8260D	Total/NA
Fluoranthene	15	J	39	9.0	ug/Kg	1	☒	8270E	Total/NA
Pyrene	14	J	39	11	ug/Kg	1	☒	8270E	Total/NA
Arsenic	3.6		1.1	0.38	mg/Kg	1	☒	6010D	Total/NA
Barium	64		1.1	0.13	mg/Kg	1	☒	6010D	Total/NA
Cadmium	0.21	J	0.22	0.040	mg/Kg	1	☒	6010D	Total/NA
Chromium	21		1.1	0.55	mg/Kg	1	☒	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Stantec Consulting Corporation
Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-29 (Continued)

Lab Sample ID: 500-248349-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.56	0.26	mg/Kg	1	✳	6010D	Total/NA
Mercury	0.030		0.019	0.0080	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: TP-30

Lab Sample ID: 500-248349-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	45	J B **	140	26	ug/Kg	50	✳	8260D	Total/NA
Benzo[a]anthracene	14	J	38	8.1	ug/Kg	1	✳	8270E	Total/NA
Chrysene	12	J	38	10	ug/Kg	1	✳	8270E	Total/NA
Fluoranthene	24	J	38	8.9	ug/Kg	1	✳	8270E	Total/NA
Phenanthrene	21	J	38	8.3	ug/Kg	1	✳	8270E	Total/NA
Pyrene	25	J	38	10	ug/Kg	1	✳	8270E	Total/NA
Arsenic	2.7		1.1	0.39	mg/Kg	1	✳	6010D	Total/NA
Barium	53		1.1	0.13	mg/Kg	1	✳	6010D	Total/NA
Cadmium	0.27		0.23	0.041	mg/Kg	1	✳	6010D	Total/NA
Chromium	17		1.1	0.57	mg/Kg	1	✳	6010D	Total/NA
Lead	17		0.57	0.26	mg/Kg	1	✳	6010D	Total/NA
Mercury	0.030		0.018	0.0076	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: TP-31

Lab Sample ID: 500-248349-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		1.1	0.39	mg/Kg	1	✳	6010D	Total/NA
Barium	62		1.1	0.13	mg/Kg	1	✳	6010D	Total/NA
Cadmium	0.19	J	0.23	0.041	mg/Kg	1	✳	6010D	Total/NA
Chromium	20		1.1	0.56	mg/Kg	1	✳	6010D	Total/NA
Lead	7.4		0.56	0.26	mg/Kg	1	✳	6010D	Total/NA
Mercury	0.014	J	0.018	0.0073	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: Dup-1

Lab Sample ID: 500-248349-12

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 500-248349-13

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Stantec Consulting Corporation
Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corporation
Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-248349-1	TP-21	Solid	04/01/24 08:35	04/02/24 09:50
500-248349-2	TP-22	Solid	04/01/24 08:45	04/02/24 09:50
500-248349-3	TP-23	Solid	04/01/24 08:55	04/02/24 09:50
500-248349-4	TP-24	Solid	04/01/24 09:45	04/02/24 09:50
500-248349-5	TP-25	Solid	04/01/24 09:55	04/02/24 09:50
500-248349-6	TP-26	Solid	04/01/24 10:00	04/02/24 09:50
500-248349-7	TP-27	Solid	04/01/24 10:06	04/02/24 09:50
500-248349-8	TP-28	Solid	04/01/24 10:15	04/02/24 09:50
500-248349-9	TP-29	Solid	04/01/24 10:22	04/02/24 09:50
500-248349-10	TP-30	Solid	04/01/24 10:30	04/02/24 09:50
500-248349-11	TP-31	Solid	04/01/24 10:35	04/02/24 09:50
500-248349-12	Dup-1	Solid	04/01/24 10:23	04/02/24 09:50
500-248349-13	Trip Blank	Solid	04/01/24 00:00	04/02/24 09:50



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-21

Lab Sample ID: 500-248349-1

Date Collected: 04/01/24 08:35

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 89.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28	++	61	28	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,1,1-Trichloroethane	<23	++	61	23	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,1,2-Trichloroethane	<22		61	22	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,1-Dichloroethane	<25		61	25	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,1-Dichloroethene	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,1-Dichloropropene	<18		61	18	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,2-Dichloroethane	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,2-Dichloropropane	<26		61	26	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,3-Dichloropropane	<22		61	22	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
2,2-Dichloropropane	<27		310	27	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
2-Chlorotoluene	<19		61	19	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
4-Chlorotoluene	<21		61	21	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
4-Isopropyltoluene	<22		61	22	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Benzene	<8.9		15	8.9	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Bromobenzene	<22	++	61	22	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Bromoform	<30		61	30	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Bromomethane	<49	++	180	49	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Carbon tetrachloride	<23	++	61	23	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Chlorobenzene	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Chlorobromomethane	<26	++	61	26	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Chlorodibromomethane	<30	++	61	30	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Chloroethane	<31		310	31	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Chloroform	39	J B ++	120	23	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Chloromethane	<20	*-	310	20	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
cis-1,2-Dichloroethene	<25		61	25	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Dibromomethane	<16	++	61	16	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Dichlorobromomethane	<23		61	23	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Ethylbenzene	<11		15	11	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Ethylene Dibromide	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Hexachlorobutadiene	<27		61	27	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Isopropyl ether	<17		61	17	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Isopropylbenzene	<23		61	23	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Methylene Chloride	<100		310	100	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Naphthalene	<20		61	20	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
n-Butylbenzene	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
N-Propylbenzene	<25		61	25	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-21

Lab Sample ID: 500-248349-1

Date Collected: 04/01/24 08:35

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 89.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Styrene	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
tert-Butylbenzene	<24		61	24	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Tetrachloroethene	<23	+	61	23	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Toluene	<9.0		15	9.0	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
trans-1,2-Dichloroethene	<21		61	21	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Trichloroethene	<10	+	31	10	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Trichlorofluoromethane	<26	+	61	26	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Vinyl chloride	<16	-	61	16	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50
Xylenes, Total	<13		31	13	ug/Kg	☼	04/01/24 08:35	04/08/24 17:13	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	04/01/24 08:35	04/08/24 17:13	50
4-Bromofluorobenzene (Surr)	88		72 - 124	04/01/24 08:35	04/08/24 17:13	50
Dibromofluoromethane (Surr)	129	S1+	75 - 120	04/01/24 08:35	04/08/24 17:13	50
Toluene-d8 (Surr)	92		75 - 120	04/01/24 08:35	04/08/24 17:13	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.5		74	6.5	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
2-Methylnaphthalene	<7.3		74	7.3	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Acenaphthene	<7.4		36	7.4	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Acenaphthylene	<6.2		36	6.2	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Anthracene	<7.5		36	7.5	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Benzo[a]anthracene	<7.7		36	7.7	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Benzo[a]pyrene	<35		36	35	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Benzo[b]fluoranthene	<35		36	35	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Benzo[g,h,i]perylene	<7.9		36	7.9	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Benzo[k]fluoranthene	<14		36	14	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Chrysene	<9.6		36	9.6	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Dibenz(a,h)anthracene	<36		36	36	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Fluoranthene	25	J	36	8.5	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Fluorene	<11		36	11	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Indeno[1,2,3-cd]pyrene	<36		36	36	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Naphthalene	<6.6		36	6.6	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Phenanthrene	18	J	36	7.9	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1
Pyrene	19	J	36	10	ug/Kg	☼	04/05/24 14:56	04/08/24 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	66		37 - 147	04/05/24 14:56	04/08/24 15:18	1
2-Fluorobiphenyl (Surr)	68		43 - 145	04/05/24 14:56	04/08/24 15:18	1
Terphenyl-d14 (Surr)	76		42 - 157	04/05/24 14:56	04/08/24 15:18	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6	F1	0.99	0.34	mg/Kg	☼	04/05/24 09:34	04/09/24 23:13	1
Barium	67	F1	0.99	0.11	mg/Kg	☼	04/05/24 09:34	04/09/24 23:13	1
Cadmium	0.21		0.20	0.035	mg/Kg	☼	04/05/24 09:34	04/09/24 23:13	1
Chromium	22	F1	0.99	0.49	mg/Kg	☼	04/05/24 09:34	04/09/24 23:13	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-21

Lab Sample ID: 500-248349-1

Date Collected: 04/01/24 08:35

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 89.8

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13	F1	0.49	0.23	mg/Kg	☼	04/05/24 09:34	04/09/24 23:13	1
Selenium	<0.58	F1	0.99	0.58	mg/Kg	☼	04/05/24 09:34	04/09/24 23:13	1
Silver	<0.64		2.5	0.64	mg/Kg	☼	04/05/24 09:34	04/10/24 16:07	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.017	0.0068	mg/Kg	☼	04/12/24 13:50	04/15/24 11:27	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-22

Lab Sample ID: 500-248349-2

Date Collected: 04/01/24 08:45

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 87.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25	++	55	25	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,1,1-Trichloroethane	<21	++	55	21	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,1,2,2-Tetrachloroethane	<22		55	22	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,1,2-Trichloroethane	<19		55	19	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,1-Dichloroethane	<23		55	23	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,1-Dichloroethene	<22		55	22	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,1-Dichloropropene	<16		55	16	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,2,3-Trichlorobenzene	<25		55	25	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,2,3-Trichloropropane	<23		110	23	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,2,4-Trichlorobenzene	<19		55	19	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,2,4-Trimethylbenzene	<20		55	20	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,2-Dibromo-3-Chloropropane	<110		280	110	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,2-Dichlorobenzene	<18		55	18	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,2-Dichloroethane	<22		55	22	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,2-Dichloropropane	<24		55	24	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,3,5-Trimethylbenzene	<21		55	21	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,3-Dichlorobenzene	<22		55	22	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,3-Dichloropropane	<20		55	20	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
1,4-Dichlorobenzene	<20		55	20	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
2,2-Dichloropropane	<24		280	24	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
2-Chlorotoluene	<17		55	17	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
4-Chlorotoluene	<19		55	19	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
4-Isopropyltoluene	<20		55	20	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Benzene	<8.1		14	8.1	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Bromobenzene	<20	++	55	20	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Bromoform	<27		55	27	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Bromomethane	<44	++	170	44	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Carbon tetrachloride	<21	++	55	21	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Chlorobenzene	<21		55	21	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Chlorobromomethane	<24	++	55	24	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Chlorodibromomethane	<27	++	55	27	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Chloroethane	<28		280	28	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Chloroform	35	J B ++	110	20	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Chloromethane	<18	*-	280	18	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
cis-1,2-Dichloroethene	<23		55	23	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
cis-1,3-Dichloropropene	<23		55	23	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Dibromomethane	<15	++	55	15	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Dichlorobromomethane	<21		55	21	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Dichlorodifluoromethane	<37		170	37	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Ethylbenzene	<10		14	10	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Ethylene Dibromide	<21		55	21	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Hexachlorobutadiene	<25		55	25	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Isopropyl ether	<15		55	15	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Isopropylbenzene	<21		55	21	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Methyl tert-butyl ether	<22		55	22	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Methylene Chloride	<90		280	90	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Naphthalene	<18		55	18	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
n-Butylbenzene	<21		55	21	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
N-Propylbenzene	<23		55	23	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-22

Lab Sample ID: 500-248349-2

Date Collected: 04/01/24 08:45

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 87.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<22		55	22	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Styrene	<21		55	21	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
tert-Butylbenzene	<22		55	22	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Tetrachloroethene	<20	+	55	20	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Toluene	<8.1		14	8.1	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
trans-1,2-Dichloroethene	<19		55	19	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
trans-1,3-Dichloropropene	<20		55	20	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Trichloroethene	<9.0	+	28	9.0	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Trichlorofluoromethane	<24	+	55	24	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Vinyl chloride	<14	-	55	14	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50
Xylenes, Total	<12		28	12	ug/Kg	☼	04/01/24 08:45	04/08/24 17:37	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	04/01/24 08:45	04/08/24 17:37	50
4-Bromofluorobenzene (Surr)	87		72 - 124	04/01/24 08:45	04/08/24 17:37	50
Dibromofluoromethane (Surr)	129	S1+	75 - 120	04/01/24 08:45	04/08/24 17:37	50
Toluene-d8 (Surr)	94		75 - 120	04/01/24 08:45	04/08/24 17:37	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<13		150	13	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
2-Methylnaphthalene	<15		150	15	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Acenaphthene	<15		73	15	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Acenaphthylene	<12		73	12	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Anthracene	<15		73	15	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Benzo[a]anthracene	<16		73	16	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Benzo[a]pyrene	<71		73	71	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Benzo[b]fluoranthene	<70		73	70	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Benzo[g,h,i]perylene	<16		73	16	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Benzo[k]fluoranthene	<28		73	28	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Chrysene	<19		73	19	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Dibenz(a,h)anthracene	<73		73	73	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Fluoranthene	<17		73	17	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Fluorene	<22		73	22	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Indeno[1,2,3-cd]pyrene	<71		73	71	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Naphthalene	<13		73	13	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Phenanthrene	<16		73	16	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2
Pyrene	<20		73	20	ug/Kg	☼	04/05/24 14:56	04/08/24 19:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	84		37 - 147	04/05/24 14:56	04/08/24 19:40	2
2-Fluorobiphenyl (Surr)	86		43 - 145	04/05/24 14:56	04/08/24 19:40	2
Terphenyl-d14 (Surr)	88		42 - 157	04/05/24 14:56	04/08/24 19:40	2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		0.97	0.33	mg/Kg	☼	04/05/24 09:34	04/09/24 23:38	1
Barium	52		0.97	0.11	mg/Kg	☼	04/05/24 09:34	04/09/24 23:38	1
Cadmium	0.24		0.19	0.035	mg/Kg	☼	04/05/24 09:34	04/09/24 23:38	1
Chromium	19		0.97	0.48	mg/Kg	☼	04/05/24 09:34	04/09/24 23:38	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-22

Lab Sample ID: 500-248349-2

Date Collected: 04/01/24 08:45

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 87.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		0.49	0.22	mg/Kg	✱	04/05/24 09:34	04/09/24 23:38	1
Selenium	<0.57		0.97	0.57	mg/Kg	✱	04/05/24 09:34	04/09/24 23:38	1
Silver	<0.63		2.4	0.63	mg/Kg	✱	04/05/24 09:34	04/10/24 16:31	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0073	mg/Kg	✱	04/12/24 13:50	04/15/24 11:29	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-23

Lab Sample ID: 500-248349-3

Date Collected: 04/01/24 08:55

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28	++	62	28	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,1,1-Trichloroethane	<23	++	62	23	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,1,2,2-Tetrachloroethane	<24		62	24	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,1-Dichloroethane	<25		62	25	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,1-Dichloroethene	<24		62	24	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,1-Dichloropropene	<18		62	18	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,2,3-Trichlorobenzene	<28		62	28	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,2-Dichloroethane	<24		62	24	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,2-Dichloropropane	<26		62	26	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,3,5-Trimethylbenzene	<23		62	23	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,3-Dichloropropane	<22		62	22	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
1,4-Dichlorobenzene	<22		62	22	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
2,2-Dichloropropane	<27		310	27	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
2-Chlorotoluene	<19		62	19	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
4-Chlorotoluene	<22		62	22	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
4-Isopropyltoluene	<22		62	22	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Benzene	<9.0		15	9.0	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Bromobenzene	<22	++	62	22	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Bromoform	<30		62	30	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Bromomethane	<49	++	180	49	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Carbon tetrachloride	<24	++	62	24	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Chlorobenzene	<24		62	24	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Chlorobromomethane	<26	++	62	26	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Chlorodibromomethane	<30	++	62	30	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Chloroethane	<31		310	31	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Chloroform	34	J B ++	120	23	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Chloromethane	<20	*-	310	20	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Dibromomethane	<17	++	62	17	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Dichlorobromomethane	<23		62	23	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Ethylbenzene	<11		15	11	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Ethylene Dibromide	<24		62	24	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Hexachlorobutadiene	<27		62	27	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Isopropyl ether	<17		62	17	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Isopropylbenzene	<24		62	24	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Methyl tert-butyl ether	<24		62	24	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Methylene Chloride	<100		310	100	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
Naphthalene	<21		62	21	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
n-Butylbenzene	<24		62	24	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50
N-Propylbenzene	<25		62	25	ug/Kg	✱	04/01/24 08:55	04/08/24 18:01	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-23

Lab Sample ID: 500-248349-3

Date Collected: 04/01/24 08:55

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 89.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<24		62	24	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
Styrene	<24		62	24	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
tert-Butylbenzene	<24		62	24	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
Tetrachloroethene	<23	+	62	23	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
Toluene	<9.0		15	9.0	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
trans-1,3-Dichloropropene	<22		62	22	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
Trichloroethene	<10	+	31	10	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
Trichlorofluoromethane	<26	+	62	26	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
Vinyl chloride	<16	-	62	16	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50
Xylenes, Total	<14		31	14	ug/Kg	☼	04/01/24 08:55	04/08/24 18:01	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 126	04/01/24 08:55	04/08/24 18:01	50
4-Bromofluorobenzene (Surr)	89		72 - 124	04/01/24 08:55	04/08/24 18:01	50
Dibromofluoromethane (Surr)	130	S1+	75 - 120	04/01/24 08:55	04/08/24 18:01	50
Toluene-d8 (Surr)	93		75 - 120	04/01/24 08:55	04/08/24 18:01	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.6		75	6.6	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
2-Methylnaphthalene	<7.5		75	7.5	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Acenaphthene	<7.6		37	7.6	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Acenaphthylene	<6.3		37	6.3	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Anthracene	<7.6		37	7.6	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Benzo[a]anthracene	<7.9		37	7.9	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Benzo[a]pyrene	<36		37	36	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Benzo[b]fluoranthene	<35		37	35	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Benzo[g,h,i]perylene	<8.1		37	8.1	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Benzo[k]fluoranthene	<14		37	14	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Chrysene	<9.8		37	9.8	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Dibenz(a,h)anthracene	<37		37	37	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Fluoranthene	11	J	37	8.6	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Fluorene	<11		37	11	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Indeno[1,2,3-cd]pyrene	<36		37	36	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Naphthalene	<6.7		37	6.7	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Phenanthrene	<8.1		37	8.1	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1
Pyrene	<10		37	10	ug/Kg	☼	04/05/24 14:56	04/08/24 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		37 - 147	04/05/24 14:56	04/08/24 14:54	1
2-Fluorobiphenyl (Surr)	75		43 - 145	04/05/24 14:56	04/08/24 14:54	1
Terphenyl-d14 (Surr)	86		42 - 157	04/05/24 14:56	04/08/24 14:54	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		0.96	0.33	mg/Kg	☼	04/05/24 09:34	04/09/24 23:42	1
Barium	43		0.96	0.11	mg/Kg	☼	04/05/24 09:34	04/09/24 23:42	1
Cadmium	0.19		0.19	0.034	mg/Kg	☼	04/05/24 09:34	04/09/24 23:42	1
Chromium	14		0.96	0.47	mg/Kg	☼	04/05/24 09:34	04/09/24 23:42	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-23

Lab Sample ID: 500-248349-3

Date Collected: 04/01/24 08:55

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 89.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.6		0.48	0.22	mg/Kg	☼	04/05/24 09:34	04/09/24 23:42	1
Selenium	<0.56		0.96	0.56	mg/Kg	☼	04/05/24 09:34	04/09/24 23:42	1
Silver	0.89	J	2.4	0.62	mg/Kg	☼	04/05/24 09:34	04/10/24 16:35	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.016	0.0067	mg/Kg	☼	04/12/24 13:50	04/15/24 11:34	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-24

Lab Sample ID: 500-248349-4

Date Collected: 04/01/24 09:45

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 88.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29	++	64	29	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,1,1-Trichloroethane	<24	++	64	24	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,1,2,2-Tetrachloroethane	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,1,2-Trichloroethane	<22		64	22	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,1-Dichloroethane	<26		64	26	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,1-Dichloroethene	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,1-Dichloropropene	<19		64	19	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,2,3-Trichloropropane	<26		130	26	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,2-Dichloroethane	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,2-Dichloropropane	<27		64	27	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,3-Dichlorobenzene	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
2,2-Dichloropropane	<28		320	28	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
4-Chlorotoluene	<22		64	22	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
4-Isopropyltoluene	<23		64	23	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Benzene	<9.3		16	9.3	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Bromobenzene	<23	++	64	23	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Bromoform	<31		64	31	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Bromomethane	<51	++	190	51	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Carbon tetrachloride	<24	++	64	24	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Chlorobenzene	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Chlorobromomethane	<27	++	64	27	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Chlorodibromomethane	<31	++	64	31	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Chloroethane	<32		320	32	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Chloroform	37	J B ++	130	24	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Chloromethane	<20	*-	320	20	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
cis-1,3-Dichloropropene	<26		64	26	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Dibromomethane	<17	++	64	17	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Dichlorobromomethane	<24		64	24	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Dichlorodifluoromethane	<43		190	43	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Ethylbenzene	<12		16	12	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Ethylene Dibromide	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Hexachlorobutadiene	<28		64	28	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Isopropyl ether	<18		64	18	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Isopropylbenzene	<24		64	24	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Methylene Chloride	<100		320	100	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Naphthalene	<21		64	21	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
n-Butylbenzene	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
N-Propylbenzene	<26		64	26	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-24

Lab Sample ID: 500-248349-4

Date Collected: 04/01/24 09:45

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 88.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Styrene	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
tert-Butylbenzene	<25		64	25	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Tetrachloroethene	<24	*+	64	24	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Toluene	<9.4		16	9.4	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
trans-1,2-Dichloroethene	<22		64	22	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Trichloroethene	<10	*+	32	10	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Trichlorofluoromethane	<27	*+	64	27	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Vinyl chloride	<17	*-	64	17	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50
Xylenes, Total	<14		32	14	ug/Kg	☼	04/01/24 09:45	04/08/24 18:24	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	04/01/24 09:45	04/08/24 18:24	50
4-Bromofluorobenzene (Surr)	86		72 - 124	04/01/24 09:45	04/08/24 18:24	50
Dibromofluoromethane (Surr)	128	S1+	75 - 120	04/01/24 09:45	04/08/24 18:24	50
Toluene-d8 (Surr)	93		75 - 120	04/01/24 09:45	04/08/24 18:24	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.5		73	6.5	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
2-Methylnaphthalene	<7.2		73	7.2	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Acenaphthene	<7.3		36	7.3	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Acenaphthylene	<6.1		36	6.1	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Anthracene	<7.4		36	7.4	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Benzo[a]anthracene	<7.7		36	7.7	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Benzo[a]pyrene	<35		36	35	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Benzo[b]fluoranthene	<34		36	34	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Benzo[g,h,i]perylene	<7.8		36	7.8	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Benzo[k]fluoranthene	<14		36	14	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Chrysene	<9.5		36	9.5	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Dibenz(a,h)anthracene	<36		36	36	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Fluoranthene	9.5	J	36	8.4	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Fluorene	<11		36	11	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Indeno[1,2,3-cd]pyrene	<35		36	35	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Naphthalene	<6.5		36	6.5	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Phenanthrene	<7.9		36	7.9	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1
Pyrene	<9.9		36	9.9	ug/Kg	☼	04/05/24 14:56	04/08/24 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	65		37 - 147	04/05/24 14:56	04/08/24 19:16	1
2-Fluorobiphenyl (Surr)	67		43 - 145	04/05/24 14:56	04/08/24 19:16	1
Terphenyl-d14 (Surr)	82		42 - 157	04/05/24 14:56	04/08/24 19:16	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.99	0.34	mg/Kg	☼	04/05/24 09:34	04/09/24 23:45	1
Barium	47		0.99	0.11	mg/Kg	☼	04/05/24 09:34	04/09/24 23:45	1
Cadmium	0.22		0.20	0.035	mg/Kg	☼	04/05/24 09:34	04/09/24 23:45	1
Chromium	16		0.99	0.49	mg/Kg	☼	04/05/24 09:34	04/09/24 23:45	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-24

Lab Sample ID: 500-248349-4

Date Collected: 04/01/24 09:45

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 88.1

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		0.49	0.23	mg/Kg	✱	04/05/24 09:34	04/09/24 23:45	1
Selenium	<0.58		0.99	0.58	mg/Kg	✱	04/05/24 09:34	04/09/24 23:45	1
Silver	<0.64		2.5	0.64	mg/Kg	✱	04/05/24 09:34	04/10/24 16:38	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0072	mg/Kg	✱	04/12/24 13:50	04/15/24 11:36	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-25

Lab Sample ID: 500-248349-5

Date Collected: 04/01/24 09:55

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 86.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31	++	67	31	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,1,1-Trichloroethane	<26	++	67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,1-Dichloroethane	<28		67	28	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,1-Dichloroethene	<26		67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,2-Dibromo-3-Chloropropane	<130		340	130	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,3,5-Trimethylbenzene	<26		67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
2,2-Dichloropropane	<30		340	30	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
4-Chlorotoluene	<24		67	24	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
4-Isopropyltoluene	<24		67	24	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Benzene	<9.8		17	9.8	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Bromobenzene	<24	++	67	24	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Bromoform	<33		67	33	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Bromomethane	<54	++	200	54	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Carbon tetrachloride	<26	++	67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Chlorobenzene	<26		67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Chlorobromomethane	<29	++	67	29	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Chlorodibromomethane	<33	++	67	33	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Chloroethane	<34		340	34	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Chloroform	44	J B ++	130	25	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Chloromethane	<22	*-	340	22	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Dibromomethane	<18	++	67	18	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Dichlorobromomethane	<25		67	25	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Ethylbenzene	<12		17	12	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Ethylene Dibromide	<26		67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Isopropyl ether	<19		67	19	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Methylene Chloride	<110		340	110	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Naphthalene	<22		67	22	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
n-Butylbenzene	<26		67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-25

Lab Sample ID: 500-248349-5

Date Collected: 04/01/24 09:55

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 86.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		67	27	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Styrene	<26		67	26	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Tetrachloroethene	<25	+	67	25	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Toluene	<9.9		17	9.9	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
trans-1,2-Dichloroethene	<24		67	24	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Trichloroethene	<11	+	34	11	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Trichlorofluoromethane	<29	+	67	29	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Vinyl chloride	<18	-	67	18	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Xylenes, Total	<15		34	15	ug/Kg	☼	04/01/24 09:55	04/08/24 18:49	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 126				04/01/24 09:55	04/08/24 18:49	50
4-Bromofluorobenzene (Surr)	89		72 - 124				04/01/24 09:55	04/08/24 18:49	50
Dibromofluoromethane (Surr)	132	S1+	75 - 120				04/01/24 09:55	04/08/24 18:49	50
Toluene-d8 (Surr)	94		75 - 120				04/01/24 09:55	04/08/24 18:49	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.5		74	6.5	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
2-Methylnaphthalene	<7.3		74	7.3	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Acenaphthene	<7.4		36	7.4	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Acenaphthylene	<6.2		36	6.2	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Anthracene	<7.4		36	7.4	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Benzo[a]anthracene	<7.7		36	7.7	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Benzo[a]pyrene	<35		36	35	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Benzo[b]fluoranthene	<35		36	35	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Benzo[g,h,i]perylene	<7.9		36	7.9	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Benzo[k]fluoranthene	<14		36	14	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Chrysene	<9.6		36	9.6	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Dibenz(a,h)anthracene	<36		36	36	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Fluoranthene	14	J	36	8.5	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Fluorene	<11		36	11	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Indeno[1,2,3-cd]pyrene	<35		36	35	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Naphthalene	<6.6		36	6.6	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Phenanthrene	9.1	J	36	7.9	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Pyrene	14	J	36	9.9	ug/Kg	☼	04/05/24 14:56	04/08/24 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	77		37 - 147				04/05/24 14:56	04/08/24 16:53	1
2-Fluorobiphenyl (Surr)	81		43 - 145				04/05/24 14:56	04/08/24 16:53	1
Terphenyl-d14 (Surr)	95		42 - 157				04/05/24 14:56	04/08/24 16:53	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.1	0.38	mg/Kg	☼	04/05/24 09:34	04/09/24 23:49	1
Barium	63		1.1	0.13	mg/Kg	☼	04/05/24 09:34	04/09/24 23:49	1
Cadmium	0.19	J	0.22	0.040	mg/Kg	☼	04/05/24 09:34	04/09/24 23:49	1
Chromium	22		1.1	0.55	mg/Kg	☼	04/05/24 09:34	04/09/24 23:49	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-25

Lab Sample ID: 500-248349-5

Date Collected: 04/01/24 09:55

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 86.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.8		0.56	0.26	mg/Kg	☼	04/05/24 09:34	04/09/24 23:49	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	04/05/24 09:34	04/09/24 23:49	1
Silver	<0.72		2.8	0.72	mg/Kg	☼	04/05/24 09:34	04/10/24 16:42	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.017	0.0072	mg/Kg	☼	04/12/24 13:50	04/15/24 11:38	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-26

Lab Sample ID: 500-248349-6

Date Collected: 04/01/24 10:00

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 82.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33	++	71	33	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,1,1-Trichloroethane	<27	++	71	27	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,1,2,2-Tetrachloroethane	<28		71	28	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,1,2-Trichloroethane	<25		71	25	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,1-Dichloroethane	<29		71	29	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,1-Dichloroethene	<28		71	28	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,1-Dichloropropene	<21		71	21	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,2,3-Trichlorobenzene	<33		71	33	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,2,4-Trichlorobenzene	<24		71	24	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,2,4-Trimethylbenzene	<25		71	25	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,2-Dichlorobenzene	<24		71	24	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,2-Dichloroethane	<28		71	28	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,2-Dichloropropane	<30		71	30	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,3,5-Trimethylbenzene	<27		71	27	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,3-Dichlorobenzene	<28		71	28	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,3-Dichloropropane	<26		71	26	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
1,4-Dichlorobenzene	<26		71	26	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
2,2-Dichloropropane	<32		360	32	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
2-Chlorotoluene	<22		71	22	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
4-Chlorotoluene	<25		71	25	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
4-Isopropyltoluene	<26		71	26	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Benzene	<10		18	10	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Bromobenzene	<25	++	71	25	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Bromoform	<34		71	34	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Bromomethane	<57	++	210	57	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Carbon tetrachloride	<27	++	71	27	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Chlorobenzene	<27		71	27	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Chlorobromomethane	<30	++	71	30	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Chlorodibromomethane	<35	++	71	35	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Chloroethane	<36		360	36	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Chloroform	41	J B ++	140	26	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Chloromethane	<23	*-	360	23	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
cis-1,2-Dichloroethene	<29		71	29	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
cis-1,3-Dichloropropene	<30		71	30	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Dibromomethane	<19	++	71	19	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Dichlorobromomethane	<26		71	26	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Dichlorodifluoromethane	<48		210	48	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Ethylbenzene	<13		18	13	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Ethylene Dibromide	<27		71	27	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Hexachlorobutadiene	<32		71	32	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Isopropyl ether	<20		71	20	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Isopropylbenzene	<27		71	27	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Methyl tert-butyl ether	<28		71	28	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Methylene Chloride	<120		360	120	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Naphthalene	<24		71	24	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
n-Butylbenzene	<28		71	28	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
N-Propylbenzene	<29		71	29	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-26

Lab Sample ID: 500-248349-6

Date Collected: 04/01/24 10:00

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 82.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<28		71	28	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Styrene	<27		71	27	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
tert-Butylbenzene	<28		71	28	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Tetrachloroethene	<26	+	71	26	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Toluene	<10		18	10	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
trans-1,2-Dichloroethene	<25		71	25	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
trans-1,3-Dichloropropene	<26		71	26	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Trichloroethene	<12	+	36	12	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Trichlorofluoromethane	<30	+	71	30	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Vinyl chloride	<19	-	71	19	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50
Xylenes, Total	<16		36	16	ug/Kg	☼	04/01/24 10:00	04/08/24 19:13	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	04/01/24 10:00	04/08/24 19:13	50
4-Bromofluorobenzene (Surr)	89		72 - 124	04/01/24 10:00	04/08/24 19:13	50
Dibromofluoromethane (Surr)	126	S1+	75 - 120	04/01/24 10:00	04/08/24 19:13	50
Toluene-d8 (Surr)	91		75 - 120	04/01/24 10:00	04/08/24 19:13	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<7.0		79	7.0	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
2-Methylnaphthalene	<7.8		79	7.8	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Acenaphthene	<7.9		39	7.9	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Acenaphthylene	<6.6		39	6.6	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Anthracene	<8.0		39	8.0	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Benzo[a]anthracene	<8.3		39	8.3	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Benzo[a]pyrene	<38		39	38	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Benzo[b]fluoranthene	<37		39	37	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Benzo[g,h,i]perylene	<8.5		39	8.5	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Benzo[k]fluoranthene	<15		39	15	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Chrysene	<10		39	10	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Dibenz(a,h)anthracene	<39		39	39	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Fluoranthene	<9.1		39	9.1	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Fluorene	<12		39	12	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Indeno[1,2,3-cd]pyrene	<38		39	38	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Naphthalene	<7.1		39	7.1	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Phenanthrene	<8.5		39	8.5	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1
Pyrene	<11		39	11	ug/Kg	☼	04/05/24 14:56	04/08/24 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	67		37 - 147	04/05/24 14:56	04/08/24 16:29	1
2-Fluorobiphenyl (Surr)	72		43 - 145	04/05/24 14:56	04/08/24 16:29	1
Terphenyl-d14 (Surr)	90		42 - 157	04/05/24 14:56	04/08/24 16:29	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.0	0.36	mg/Kg	☼	04/05/24 09:34	04/09/24 23:53	1
Barium	76		1.0	0.12	mg/Kg	☼	04/05/24 09:34	04/09/24 23:53	1
Cadmium	0.18	J	0.21	0.038	mg/Kg	☼	04/05/24 09:34	04/09/24 23:53	1
Chromium	26		1.0	0.52	mg/Kg	☼	04/05/24 09:34	04/09/24 23:53	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-26

Lab Sample ID: 500-248349-6

Date Collected: 04/01/24 10:00

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 82.3

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.4		0.52	0.24	mg/Kg	☼	04/05/24 09:34	04/09/24 23:53	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	04/05/24 09:34	04/09/24 23:53	1
Silver	<0.67		2.6	0.67	mg/Kg	☼	04/05/24 09:34	04/10/24 16:45	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0076	mg/Kg	☼	04/12/24 13:50	04/15/24 11:39	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-27

Lab Sample ID: 500-248349-7

Date Collected: 04/01/24 10:06

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 84.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32	++	69	32	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,1,1-Trichloroethane	<26	++	69	26	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,1-Dichloroethane	<28		69	28	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,1-Dichloropropene	<21		69	21	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,2,3-Trichlorobenzene	<32		69	32	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,2-Dichloroethane	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,2-Dichloropropane	<30		69	30	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,3-Dichlorobenzene	<28		69	28	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
2,2-Dichloropropane	<31		350	31	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
4-Chlorotoluene	<24		69	24	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
4-Isopropyltoluene	<25		69	25	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Benzene	<10		17	10	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Bromobenzene	<25	++	69	25	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Bromoform	<33		69	33	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Bromomethane	<55	++	210	55	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Carbon tetrachloride	<27	++	69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Chlorobenzene	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Chlorobromomethane	<30	++	69	30	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Chlorodibromomethane	<34	++	69	34	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Chloroethane	<35		350	35	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Chloroform	41	J B ++	140	26	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Chloromethane	<22	*-	350	22	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Dibromomethane	<19	++	69	19	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Dichlorobromomethane	<26		69	26	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Ethylbenzene	<13		17	13	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Ethylene Dibromide	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Isopropyl ether	<19		69	19	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Isopropylbenzene	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Methylene Chloride	<110		350	110	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Naphthalene	<23		69	23	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
N-Propylbenzene	<29		69	29	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-27

Lab Sample ID: 500-248349-7

Date Collected: 04/01/24 10:06

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 84.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Styrene	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
tert-Butylbenzene	<27		69	27	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Tetrachloroethene	<26	+	69	26	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Toluene	<10		17	10	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Trichloroethene	<11	+	35	11	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Trichlorofluoromethane	<30	+	69	30	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Vinyl chloride	<18	-	69	18	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50
Xylenes, Total	<15		35	15	ug/Kg	☼	04/01/24 10:06	04/08/24 19:37	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 126	04/01/24 10:06	04/08/24 19:37	50
4-Bromofluorobenzene (Surr)	88		72 - 124	04/01/24 10:06	04/08/24 19:37	50
Dibromofluoromethane (Surr)	129	S1+	75 - 120	04/01/24 10:06	04/08/24 19:37	50
Toluene-d8 (Surr)	94		75 - 120	04/01/24 10:06	04/08/24 19:37	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.8		76	6.8	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
2-Methylnaphthalene	<7.6		76	7.6	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Acenaphthene	<7.7		38	7.7	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Acenaphthylene	<6.4		38	6.4	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Anthracene	<7.7		38	7.7	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Benzo[a]anthracene	<8.0		38	8.0	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Benzo[a]pyrene	<36		38	36	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Benzo[b]fluoranthene	<36		38	36	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Benzo[g,h,i]perylene	<8.2		38	8.2	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Benzo[k]fluoranthene	<14		38	14	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Chrysene	<10		38	10	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Dibenz(a,h)anthracene	<38		38	38	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Fluoranthene	<8.8		38	8.8	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Fluorene	<11		38	11	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Indeno[1,2,3-cd]pyrene	<37		38	37	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Naphthalene	<6.8		38	6.8	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Phenanthrene	<8.2		38	8.2	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1
Pyrene	<10		38	10	ug/Kg	☼	04/05/24 14:56	04/08/24 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	73		37 - 147	04/05/24 14:56	04/08/24 12:07	1
2-Fluorobiphenyl (Surr)	80		43 - 145	04/05/24 14:56	04/08/24 12:07	1
Terphenyl-d14 (Surr)	90		42 - 157	04/05/24 14:56	04/08/24 12:07	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		1.1	0.38	mg/Kg	☼	04/05/24 09:34	04/09/24 23:56	1
Barium	62		1.1	0.13	mg/Kg	☼	04/05/24 09:34	04/09/24 23:56	1
Cadmium	0.18	J	0.22	0.040	mg/Kg	☼	04/05/24 09:34	04/09/24 23:56	1
Chromium	22		1.1	0.56	mg/Kg	☼	04/05/24 09:34	04/09/24 23:56	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-27

Lab Sample ID: 500-248349-7

Date Collected: 04/01/24 10:06

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 84.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.6		0.56	0.26	mg/Kg	✱	04/05/24 09:34	04/09/24 23:56	1
Selenium	<0.66		1.1	0.66	mg/Kg	✱	04/05/24 09:34	04/09/24 23:56	1
Silver	<0.73		2.8	0.73	mg/Kg	✱	04/05/24 09:34	04/10/24 16:48	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0074	mg/Kg	✱	04/12/24 13:50	04/15/24 11:41	1

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-28

Lab Sample ID: 500-248349-8

Date Collected: 04/01/24 10:15

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 81.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33	++	72	33	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,1,1-Trichloroethane	<27	++	72	27	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,1-Dichloroethane	<30		72	30	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,1-Dichloroethene	<28		72	28	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,1-Dichloropropene	<22		72	22	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,2,3-Trichloropropane	<30		140	30	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,2-Dichloroethane	<28		72	28	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,2-Dichloropropane	<31		72	31	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,3-Dichloropropane	<26		72	26	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
2,2-Dichloropropane	<32		360	32	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
2-Chlorotoluene	<23		72	23	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
4-Chlorotoluene	<25		72	25	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
4-Isopropyltoluene	<26		72	26	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Benzene	<11		18	11	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Bromobenzene	<26	++	72	26	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Bromoform	<35		72	35	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Bromomethane	<58	++	220	58	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Carbon tetrachloride	<28	++	72	28	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Chlorobenzene	<28		72	28	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Chlorobromomethane	<31	++	72	31	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Chlorodibromomethane	<35	++	72	35	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Chloroethane	<36		360	36	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Chloroform	39	J B ++	140	27	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Chloromethane	<23	*-	360	23	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
cis-1,2-Dichloroethene	<29		72	29	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Dibromomethane	<20	++	72	20	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Dichlorobromomethane	<27		72	27	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Dichlorodifluoromethane	<49		220	49	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Ethylbenzene	<13		18	13	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Ethylene Dibromide	<28		72	28	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Hexachlorobutadiene	<32		72	32	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Isopropyl ether	<20		72	20	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Isopropylbenzene	<28		72	28	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Methylene Chloride	<120		360	120	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Naphthalene	<24		72	24	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
n-Butylbenzene	<28		72	28	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
N-Propylbenzene	<30		72	30	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-28

Lab Sample ID: 500-248349-8

Date Collected: 04/01/24 10:15

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 81.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<29		72	29	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Styrene	<28		72	28	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
tert-Butylbenzene	<29		72	29	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Tetrachloroethene	<27	*+	72	27	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Toluene	<11		18	11	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Trichloroethene	<12	*+	36	12	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Trichlorofluoromethane	<31	*+	72	31	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Vinyl chloride	<19	*-	72	19	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Xylenes, Total	<16		36	16	ug/Kg	☼	04/01/24 10:15	04/08/24 20:01	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 126				04/01/24 10:15	04/08/24 20:01	50
4-Bromofluorobenzene (Surr)	89		72 - 124				04/01/24 10:15	04/08/24 20:01	50
Dibromofluoromethane (Surr)	124	S1+	75 - 120				04/01/24 10:15	04/08/24 20:01	50
Toluene-d8 (Surr)	96		75 - 120				04/01/24 10:15	04/08/24 20:01	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<7.1		80	7.1	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
2-Methylnaphthalene	<8.0		80	8.0	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Acenaphthene	<8.1		39	8.1	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Acenaphthylene	<6.7		39	6.7	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Anthracene	<8.1		39	8.1	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Benzo[a]anthracene	<8.4		39	8.4	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Benzo[a]pyrene	<38		39	38	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Benzo[b]fluoranthene	<38		39	38	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Benzo[g,h,i]perylene	<8.6		39	8.6	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Benzo[k]fluoranthene	<15		39	15	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Chrysene	<10		39	10	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Dibenz(a,h)anthracene	<39		39	39	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Fluoranthene	<9.2		39	9.2	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Fluorene	<12		39	12	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Indeno[1,2,3-cd]pyrene	<39		39	39	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Naphthalene	<7.2		39	7.2	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Phenanthrene	<8.6		39	8.6	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Pyrene	<11		39	11	ug/Kg	☼	04/05/24 14:56	04/08/24 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		37 - 147				04/05/24 14:56	04/08/24 15:42	1
2-Fluorobiphenyl (Surr)	70		43 - 145				04/05/24 14:56	04/08/24 15:42	1
Terphenyl-d14 (Surr)	86		42 - 157				04/05/24 14:56	04/08/24 15:42	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		1.2	0.40	mg/Kg	☼	04/05/24 09:34	04/10/24 00:00	1
Barium	82		1.2	0.13	mg/Kg	☼	04/05/24 09:34	04/10/24 00:00	1
Cadmium	0.21	J	0.23	0.042	mg/Kg	☼	04/05/24 09:34	04/10/24 00:00	1
Chromium	29		1.2	0.58	mg/Kg	☼	04/05/24 09:34	04/10/24 00:00	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-28

Lab Sample ID: 500-248349-8

Date Collected: 04/01/24 10:15

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 81.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.3		0.58	0.27	mg/Kg	☼	04/05/24 09:34	04/10/24 00:00	1
Selenium	0.71	J	1.2	0.68	mg/Kg	☼	04/05/24 09:34	04/10/24 00:00	1
Silver	<0.75		2.9	0.75	mg/Kg	☼	04/05/24 09:34	04/10/24 16:52	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0077	mg/Kg	☼	04/12/24 13:50	04/15/24 11:43	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-29

Lab Sample ID: 500-248349-9

Date Collected: 04/01/24 10:22

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 83.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32	++	70	32	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,1,1-Trichloroethane	<26	++	70	26	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,1,1,2,2-Tetrachloroethane	<28		70	28	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,1,1,2-Trichloroethane	<25		70	25	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,1-Dichloroethane	<29		70	29	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,1-Dichloroethene	<27		70	27	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,1-Dichloropropene	<21		70	21	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,2,3-Trichlorobenzene	<32		70	32	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,2,4-Trichlorobenzene	<24		70	24	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,2,4-Trimethylbenzene	<25		70	25	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,2-Dichlorobenzene	<23		70	23	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,2-Dichloroethane	<27		70	27	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,2-Dichloropropane	<30		70	30	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,3,5-Trimethylbenzene	<26		70	26	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,3-Dichlorobenzene	<28		70	28	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,3-Dichloropropane	<25		70	25	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
1,4-Dichlorobenzene	<25		70	25	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
2,2-Dichloropropane	<31		350	31	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
2-Chlorotoluene	<22		70	22	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
4-Chlorotoluene	<24		70	24	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
4-Isopropyltoluene	<25		70	25	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Benzene	<10		17	10	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Bromobenzene	<25	++	70	25	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Bromoform	<34		70	34	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Bromomethane	<55	++	210	55	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Carbon tetrachloride	<27	++	70	27	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Chlorobenzene	<27		70	27	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Chlorobromomethane	<30	++	70	30	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Chlorodibromomethane	<34	++	70	34	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Chloroethane	<35		350	35	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Chloroform	41	J B ++	140	26	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Chloromethane	<22	*-	350	22	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
cis-1,2-Dichloroethene	<28		70	28	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
cis-1,3-Dichloropropene	<29		70	29	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Dibromomethane	<19	++	70	19	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Dichlorobromomethane	<26		70	26	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Ethylbenzene	<13		17	13	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Ethylene Dibromide	<27		70	27	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Hexachlorobutadiene	<31		70	31	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Isopropyl ether	<19		70	19	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Isopropylbenzene	<27		70	27	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Methyl tert-butyl ether	<27		70	27	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Methylene Chloride	110	J	350	110	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
Naphthalene	<23		70	23	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
n-Butylbenzene	<27		70	27	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50
N-Propylbenzene	<29		70	29	ug/Kg	*	04/01/24 10:22	04/08/24 20:25	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-29

Lab Sample ID: 500-248349-9

Date Collected: 04/01/24 10:22

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 83.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<28		70	28	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
Styrene	<27		70	27	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
tert-Butylbenzene	<28		70	28	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
Tetrachloroethene	<26	+	70	26	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
Toluene	<10		17	10	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
trans-1,2-Dichloroethene	<24		70	24	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
trans-1,3-Dichloropropene	<25		70	25	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
Trichloroethene	<11	+	35	11	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
Trichlorofluoromethane	<30	+	70	30	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
Vinyl chloride	<18	-	70	18	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50
Xylenes, Total	<15		35	15	ug/Kg	☼	04/01/24 10:22	04/08/24 20:25	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 126	04/01/24 10:22	04/08/24 20:25	50
4-Bromofluorobenzene (Surr)	86		72 - 124	04/01/24 10:22	04/08/24 20:25	50
Dibromofluoromethane (Surr)	127	S1+	75 - 120	04/01/24 10:22	04/08/24 20:25	50
Toluene-d8 (Surr)	91		75 - 120	04/01/24 10:22	04/08/24 20:25	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<7.0		79	7.0	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
2-Methylnaphthalene	<7.8		79	7.8	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Acenaphthene	<7.9		39	7.9	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Acenaphthylene	<6.6		39	6.6	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Anthracene	<8.0		39	8.0	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Benzo[a]anthracene	<8.3		39	8.3	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Benzo[a]pyrene	<38		39	38	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Benzo[b]fluoranthene	<37		39	37	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Benzo[g,h,i]perylene	<8.4		39	8.4	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Benzo[k]fluoranthene	<15		39	15	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Chrysene	<10		39	10	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Dibenz(a,h)anthracene	<39		39	39	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Fluoranthene	15	J	39	9.0	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Fluorene	<12		39	12	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Indeno[1,2,3-cd]pyrene	<38		39	38	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Naphthalene	<7.0		39	7.0	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Phenanthrene	<8.5		39	8.5	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1
Pyrene	14	J	39	11	ug/Kg	☼	04/05/24 14:56	04/08/24 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	56		37 - 147	04/05/24 14:56	04/08/24 17:17	1
2-Fluorobiphenyl (Surr)	65		43 - 145	04/05/24 14:56	04/08/24 17:17	1
Terphenyl-d14 (Surr)	77		42 - 157	04/05/24 14:56	04/08/24 17:17	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		1.1	0.38	mg/Kg	☼	04/05/24 09:34	04/10/24 00:03	1
Barium	64		1.1	0.13	mg/Kg	☼	04/05/24 09:34	04/10/24 00:03	1
Cadmium	0.21	J	0.22	0.040	mg/Kg	☼	04/05/24 09:34	04/10/24 00:03	1
Chromium	21		1.1	0.55	mg/Kg	☼	04/05/24 09:34	04/10/24 00:03	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-29

Lab Sample ID: 500-248349-9

Date Collected: 04/01/24 10:22

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 83.1

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.56	0.26	mg/Kg	✱	04/05/24 09:34	04/10/24 00:03	1
Selenium	<0.66		1.1	0.66	mg/Kg	✱	04/05/24 09:34	04/10/24 00:03	1
Silver	<0.72		2.8	0.72	mg/Kg	✱	04/05/24 09:34	04/10/24 16:55	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0080	mg/Kg	✱	04/12/24 13:50	04/15/24 11:45	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-30

Lab Sample ID: 500-248349-10

Date Collected: 04/01/24 10:30

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 84.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32	++	70	32	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,1,1-Trichloroethane	<27	++	70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,1,2,2-Tetrachloroethane	<28		70	28	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,1,2-Trichloroethane	<25		70	25	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,1-Dichloroethane	<29		70	29	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,1-Dichloroethene	<27		70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,1-Dichloropropene	<21		70	21	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,2,3-Trichlorobenzene	<32		70	32	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,2,4-Trichlorobenzene	<24		70	24	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,2,4-Trimethylbenzene	<25		70	25	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,2-Dichlorobenzene	<23		70	23	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,2-Dichloroethane	<27		70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,2-Dichloropropane	<30		70	30	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,3,5-Trimethylbenzene	<27		70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,3-Dichlorobenzene	<28		70	28	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,3-Dichloropropane	<25		70	25	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
1,4-Dichlorobenzene	<25		70	25	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
2,2-Dichloropropane	<31		350	31	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
2-Chlorotoluene	<22		70	22	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
4-Chlorotoluene	<24		70	24	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
4-Isopropyltoluene	<25		70	25	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Benzene	<10		17	10	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Bromobenzene	<25	++	70	25	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Bromoform	<34		70	34	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Bromomethane	<56	++	210	56	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Carbon tetrachloride	<27	F1 ++	70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Chlorobenzene	<27		70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Chlorobromomethane	<30	F1 ++	70	30	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Chlorodibromomethane	<34	++	70	34	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Chloroethane	<35		350	35	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Chloroform	45	J B ++	140	26	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Chloromethane	<22	F1 *-	350	22	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
cis-1,2-Dichloroethene	<28		70	28	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
cis-1,3-Dichloropropene	<29		70	29	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Dibromomethane	<19	++	70	19	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Dichlorobromomethane	<26		70	26	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Ethylbenzene	<13		17	13	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Ethylene Dibromide	<27		70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Hexachlorobutadiene	<31		70	31	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Isopropyl ether	<19		70	19	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Isopropylbenzene	<27		70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Methyl tert-butyl ether	<28		70	28	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Methylene Chloride	<110		350	110	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Naphthalene	<23		70	23	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
n-Butylbenzene	<27		70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
N-Propylbenzene	<29		70	29	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-30

Lab Sample ID: 500-248349-10

Date Collected: 04/01/24 10:30

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 84.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<28		70	28	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Styrene	<27		70	27	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
tert-Butylbenzene	<28		70	28	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Tetrachloroethene	<26	*+	70	26	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Toluene	<10		17	10	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
trans-1,2-Dichloroethene	<24		70	24	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
trans-1,3-Dichloropropene	<25		70	25	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Trichloroethene	<11	F1 *+	35	11	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Trichlorofluoromethane	<30	F1 *+	70	30	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Vinyl chloride	<18	F1 *-	70	18	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Xylenes, Total	<15		35	15	ug/Kg	☼	04/01/24 10:30	04/08/24 20:49	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 126				04/01/24 10:30	04/08/24 20:49	50
4-Bromofluorobenzene (Surr)	90		72 - 124				04/01/24 10:30	04/08/24 20:49	50
Dibromofluoromethane (Surr)	130	S1+	75 - 120				04/01/24 10:30	04/08/24 20:49	50
Toluene-d8 (Surr)	92		75 - 120				04/01/24 10:30	04/08/24 20:49	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.8		77	6.8	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
2-Methylnaphthalene	<7.7		77	7.7	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Acenaphthene	<7.8		38	7.8	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Acenaphthylene	<6.5		38	6.5	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Anthracene	<7.8		38	7.8	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Benzo[a]anthracene	14	J	38	8.1	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Benzo[a]pyrene	<37		38	37	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Benzo[b]fluoranthene	<36		38	36	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Benzo[g,h,i]perylene	<8.3		38	8.3	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Benzo[k]fluoranthene	<15		38	15	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Chrysene	12	J	38	10	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Dibenz(a,h)anthracene	<38		38	38	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Fluoranthene	24	J	38	8.9	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Fluorene	<11		38	11	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Indeno[1,2,3-cd]pyrene	<37		38	37	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Naphthalene	<6.9		38	6.9	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Phenanthrene	21	J	38	8.3	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Pyrene	25	J	38	10	ug/Kg	☼	04/05/24 14:56	04/08/24 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	69		37 - 147				04/05/24 14:56	04/08/24 18:53	1
2-Fluorobiphenyl (Surr)	74		43 - 145				04/05/24 14:56	04/08/24 18:53	1
Terphenyl-d14 (Surr)	84		42 - 157				04/05/24 14:56	04/08/24 18:53	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		1.1	0.39	mg/Kg	☼	04/05/24 09:34	04/10/24 00:14	1
Barium	53		1.1	0.13	mg/Kg	☼	04/05/24 09:34	04/10/24 00:14	1
Cadmium	0.27		0.23	0.041	mg/Kg	☼	04/05/24 09:34	04/10/24 00:14	1
Chromium	17		1.1	0.57	mg/Kg	☼	04/05/24 09:34	04/10/24 00:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-30

Lab Sample ID: 500-248349-10

Date Collected: 04/01/24 10:30

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 84.1

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		0.57	0.26	mg/Kg	✱	04/05/24 09:34	04/10/24 00:14	1
Selenium	<0.67		1.1	0.67	mg/Kg	✱	04/05/24 09:34	04/10/24 00:14	1
Silver	<0.74		2.9	0.74	mg/Kg	✱	04/05/24 09:34	04/10/24 17:06	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0076	mg/Kg	✱	04/12/24 13:50	04/15/24 11:46	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-31

Lab Sample ID: 500-248349-11

Date Collected: 04/01/24 10:35

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 84.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32	+	69	32	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,1,1-Trichloroethane	<26	+	69	26	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,1-Dichloroethane	<28		69	28	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,1-Dichloroethene	<27		69	27	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,1-Dichloropropene	<21		69	21	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,2,3-Trichlorobenzene	<32		69	32	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,2-Dichloroethane	<27		69	27	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,2-Dichloropropane	<29		69	29	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,3-Dichlorobenzene	<28		69	28	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,3-Dichloropropane	<25		69	25	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
2,2-Dichloropropane	<31		340	31	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
2-Chlorotoluene	<22		69	22	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
4-Chlorotoluene	<24		69	24	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
4-Isopropyltoluene	<25		69	25	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Benzene	<10		17	10	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Bromobenzene	<25	+	69	25	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Bromoform	<33		69	33	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Bromomethane	<55	+	210	55	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Carbon tetrachloride	<26	+	69	26	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Chlorobenzene	<27		69	27	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Chlorobromomethane	<29	+	69	29	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Chlorodibromomethane	<34	+	69	34	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Chloroethane	<35		340	35	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Chloroform	<25	+	140	25	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Chloromethane	<22	*	340	22	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Dibromomethane	<19	+	69	19	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Dichlorobromomethane	<26		69	26	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Dichlorodifluoromethane	<46		210	46	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Ethylbenzene	<13		17	13	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Ethylene Dibromide	<27		69	27	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Hexachlorobutadiene	<31		69	31	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Isopropyl ether	<19		69	19	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Isopropylbenzene	<26		69	26	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Methylene Chloride	<110		340	110	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
Naphthalene	<23		69	23	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
n-Butylbenzene	<27		69	27	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50
N-Propylbenzene	<29		69	29	ug/Kg	*	04/01/24 10:35	04/12/24 18:05	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-31

Lab Sample ID: 500-248349-11

Date Collected: 04/01/24 10:35

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 84.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		69	27	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
Styrene	<27		69	27	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
tert-Butylbenzene	<27		69	27	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
Tetrachloroethene	<25	+	69	25	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
Toluene	<10		17	10	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
Trichloroethene	<11	+	34	11	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
Trichlorofluoromethane	<29	+	69	29	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
Vinyl chloride	<18	-	69	18	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50
Xylenes, Total	<15		34	15	ug/Kg	☼	04/01/24 10:35	04/12/24 18:05	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126	04/01/24 10:35	04/12/24 18:05	50
4-Bromofluorobenzene (Surr)	91		72 - 124	04/01/24 10:35	04/12/24 18:05	50
Dibromofluoromethane (Surr)	104		75 - 120	04/01/24 10:35	04/12/24 18:05	50
Toluene-d8 (Surr)	98		75 - 120	04/01/24 10:35	04/12/24 18:05	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<6.8		77	6.8	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
2-Methylnaphthalene	<7.6		77	7.6	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Acenaphthene	<7.7		38	7.7	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Acenaphthylene	<6.4		38	6.4	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Anthracene	<7.8		38	7.8	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Benzo[a]anthracene	<8.1		38	8.1	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Benzo[a]pyrene	<37		38	37	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Benzo[b]fluoranthene	<36		38	36	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Benzo[g,h,i]perylene	<8.2		38	8.2	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Benzo[k]fluoranthene	<14		38	14	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Chrysene	<10		38	10	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Dibenz(a,h)anthracene	<38		38	38	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Fluoranthene	<8.8		38	8.8	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Fluorene	<11		38	11	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Indeno[1,2,3-cd]pyrene	<37		38	37	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Naphthalene	<6.9		38	6.9	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Phenanthrene	<8.3		38	8.3	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1
Pyrene	<10		38	10	ug/Kg	☼	04/05/24 14:56	04/08/24 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	82		37 - 147	04/05/24 14:56	04/08/24 16:06	1
2-Fluorobiphenyl (Surr)	81		43 - 145	04/05/24 14:56	04/08/24 16:06	1
Terphenyl-d14 (Surr)	86		42 - 157	04/05/24 14:56	04/08/24 16:06	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		1.1	0.39	mg/Kg	☼	04/05/24 09:34	04/10/24 00:17	1
Barium	62		1.1	0.13	mg/Kg	☼	04/05/24 09:34	04/10/24 00:17	1
Cadmium	0.19	J	0.23	0.041	mg/Kg	☼	04/05/24 09:34	04/10/24 00:17	1
Chromium	20		1.1	0.56	mg/Kg	☼	04/05/24 09:34	04/10/24 00:17	1

Eurofins Chicago

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-31

Lab Sample ID: 500-248349-11

Date Collected: 04/01/24 10:35

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 84.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.4		0.56	0.26	mg/Kg	✱	04/05/24 09:34	04/10/24 00:17	1
Selenium	<0.66		1.1	0.66	mg/Kg	✱	04/05/24 09:34	04/10/24 00:17	1
Silver	<0.73		2.8	0.73	mg/Kg	✱	04/05/24 09:34	04/10/24 17:09	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0073	mg/Kg	✱	04/12/24 13:50	04/15/24 11:57	1



Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: Dup-1

Lab Sample ID: 500-248349-12

Date Collected: 04/01/24 10:23

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 83.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32	+	70	32	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,1,1-Trichloroethane	<26	+	70	26	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,1,2,2-Tetrachloroethane	<28		70	28	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,1,2-Trichloroethane	<25		70	25	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,1-Dichloroethane	<29		70	29	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,1-Dichloroethene	<27		70	27	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,1-Dichloropropene	<21		70	21	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,2,3-Trichlorobenzene	<32		70	32	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,2,4-Trichlorobenzene	<24		70	24	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,2,4-Trimethylbenzene	<25		70	25	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,2-Dichlorobenzene	<23		70	23	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,2-Dichloroethane	<27		70	27	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,2-Dichloropropane	<30		70	30	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,3,5-Trimethylbenzene	<26		70	26	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,3-Dichlorobenzene	<28		70	28	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,3-Dichloropropane	<25		70	25	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
1,4-Dichlorobenzene	<25		70	25	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
2,2-Dichloropropane	<31		350	31	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
2-Chlorotoluene	<22		70	22	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
4-Chlorotoluene	<24		70	24	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
4-Isopropyltoluene	<25		70	25	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Benzene	<10		17	10	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Bromobenzene	<25	+	70	25	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Bromoform	<34		70	34	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Bromomethane	<55	+	210	55	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Carbon tetrachloride	<27	+	70	27	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Chlorobenzene	<27		70	27	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Chlorobromomethane	<30	+	70	30	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Chlorodibromomethane	<34	+	70	34	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Chloroethane	<35		350	35	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Chloroform	<26	+	140	26	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Chloromethane	<22	*	350	22	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
cis-1,2-Dichloroethene	<28		70	28	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
cis-1,3-Dichloropropene	<29		70	29	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Dibromomethane	<19	+	70	19	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Dichlorobromomethane	<26		70	26	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Ethylbenzene	<13		17	13	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Ethylene Dibromide	<27		70	27	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Hexachlorobutadiene	<31		70	31	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Isopropyl ether	<19		70	19	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Isopropylbenzene	<27		70	27	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Methyl tert-butyl ether	<27		70	27	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Methylene Chloride	<110		350	110	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
Naphthalene	<23		70	23	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
n-Butylbenzene	<27		70	27	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50
N-Propylbenzene	<29		70	29	ug/Kg	*	04/01/24 12:03	04/12/24 18:29	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: Dup-1

Lab Sample ID: 500-248349-12

Date Collected: 04/01/24 10:23

Matrix: Solid

Date Received: 04/02/24 09:50

Percent Solids: 83.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<28		70	28	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
Styrene	<27		70	27	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
tert-Butylbenzene	<28		70	28	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
Tetrachloroethene	<26	*+	70	26	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
Toluene	<10		17	10	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
trans-1,2-Dichloroethene	<24		70	24	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
trans-1,3-Dichloropropene	<25		70	25	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
Trichloroethene	<11	*+	35	11	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
Trichlorofluoromethane	<30	*+	70	30	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
Vinyl chloride	<18	*-	70	18	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50
Xylenes, Total	<15		35	15	ug/Kg	☼	04/01/24 12:03	04/12/24 18:29	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126	04/01/24 12:03	04/12/24 18:29	50
4-Bromofluorobenzene (Surr)	89		72 - 124	04/01/24 12:03	04/12/24 18:29	50
Dibromofluoromethane (Surr)	107		75 - 120	04/01/24 12:03	04/12/24 18:29	50
Toluene-d8 (Surr)	98		75 - 120	04/01/24 12:03	04/12/24 18:29	50

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-248349-13

Date Collected: 04/01/24 00:00

Matrix: Solid

Date Received: 04/02/24 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23	++	50	23	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,1,1-Trichloroethane	<19	++	50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,1-Dichloroethane	<21		50	21	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,1-Dichloroethene	<20		50	20	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,1-Dichloropropene	<15		50	15	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,2-Dichloroethane	<20		50	20	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,2-Dichloropropane	<21		50	21	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,3-Dichloropropane	<18		50	18	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
2,2-Dichloropropane	<22		250	22	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
2-Chlorotoluene	<16		50	16	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
4-Chlorotoluene	<18		50	18	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
4-Isopropyltoluene	<18		50	18	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Benzene	<7.3		13	7.3	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Bromobenzene	<18	++	50	18	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Bromoform	<24		50	24	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Bromomethane	<40	++	150	40	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Carbon tetrachloride	<19	++	50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Chlorobenzene	<19		50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Chlorobromomethane	<21	++	50	21	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Chlorodibromomethane	<24	++	50	24	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Chloroethane	<25		250	25	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Chloroform	<19	++	100	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Chloromethane	<16	*-	250	16	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Dibromomethane	<14	++	50	14	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Dichlorobromomethane	<19		50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Ethylene Dibromide	<19		50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Hexachlorobutadiene	<22		50	22	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Isopropyl ether	<14		50	14	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Isopropylbenzene	<19		50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Methylene Chloride	<82		250	82	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Naphthalene	<17		50	17	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
n-Butylbenzene	<19		50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
N-Propylbenzene	<21		50	21	ug/Kg		04/01/24 00:00	04/12/24 17:41	50

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-248349-13

Date Collected: 04/01/24 00:00

Matrix: Solid

Date Received: 04/02/24 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Styrene	<19		50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
tert-Butylbenzene	<20		50	20	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Tetrachloroethene	<19	*+	50	19	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Toluene	<7.4		13	7.4	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Trichloroethene	<8.2	*+	25	8.2	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Trichlorofluoromethane	<21	*+	50	21	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Vinyl chloride	<13	*-	50	13	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Xylenes, Total	<11		25	11	ug/Kg		04/01/24 00:00	04/12/24 17:41	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 126				04/01/24 00:00	04/12/24 17:41	50
4-Bromofluorobenzene (Surr)	91		72 - 124				04/01/24 00:00	04/12/24 17:41	50
Dibromofluoromethane (Surr)	106		75 - 120				04/01/24 00:00	04/12/24 17:41	50
Toluene-d8 (Surr)	99		75 - 120				04/01/24 00:00	04/12/24 17:41	50

Definitions/Glossary

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

GC/MS VOA

Prep Batch: 761178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	5035	
500-248349-2	TP-22	Total/NA	Solid	5035	
500-248349-3	TP-23	Total/NA	Solid	5035	
500-248349-4	TP-24	Total/NA	Solid	5035	
500-248349-5	TP-25	Total/NA	Solid	5035	
500-248349-6	TP-26	Total/NA	Solid	5035	
500-248349-7	TP-27	Total/NA	Solid	5035	
500-248349-8	TP-28	Total/NA	Solid	5035	
500-248349-9	TP-29	Total/NA	Solid	5035	
500-248349-10	TP-30	Total/NA	Solid	5035	
500-248349-11	TP-31	Total/NA	Solid	5035	
500-248349-12	Dup-1	Total/NA	Solid	5035	
500-248349-13	Trip Blank	Total/NA	Solid	5035	
LB3 500-761178/14-A	Method Blank	Total/NA	Solid	5035	
LCS 500-761178/15-A	Lab Control Sample	Total/NA	Solid	5035	
500-248349-10 MS	TP-30	Total/NA	Solid	5035	
500-248349-10 MSD	TP-30	Total/NA	Solid	5035	

Analysis Batch: 761969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	8260D	761178
500-248349-2	TP-22	Total/NA	Solid	8260D	761178
500-248349-3	TP-23	Total/NA	Solid	8260D	761178
500-248349-4	TP-24	Total/NA	Solid	8260D	761178
500-248349-5	TP-25	Total/NA	Solid	8260D	761178
500-248349-6	TP-26	Total/NA	Solid	8260D	761178
500-248349-7	TP-27	Total/NA	Solid	8260D	761178
500-248349-8	TP-28	Total/NA	Solid	8260D	761178
500-248349-9	TP-29	Total/NA	Solid	8260D	761178
500-248349-10	TP-30	Total/NA	Solid	8260D	761178
LB3 500-761178/14-A	Method Blank	Total/NA	Solid	8260D	761178
MB 500-761969/33	Method Blank	Total/NA	Solid	8260D	
LCS 500-761178/15-A	Lab Control Sample	Total/NA	Solid	8260D	761178
LCS 500-761969/5	Lab Control Sample	Total/NA	Solid	8260D	
500-248349-10 MS	TP-30	Total/NA	Solid	8260D	761178
500-248349-10 MSD	TP-30	Total/NA	Solid	8260D	761178

Analysis Batch: 762799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-11	TP-31	Total/NA	Solid	8260D	761178
500-248349-12	Dup-1	Total/NA	Solid	8260D	761178
500-248349-13	Trip Blank	Total/NA	Solid	8260D	761178
MB 500-762799/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-762799/4	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 761820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	3546	
500-248349-2	TP-22	Total/NA	Solid	3546	

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QC Association Summary

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

GC/MS Semi VOA (Continued)

Prep Batch: 761820 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-3	TP-23	Total/NA	Solid	3546	
500-248349-4	TP-24	Total/NA	Solid	3546	
500-248349-5	TP-25	Total/NA	Solid	3546	
500-248349-6	TP-26	Total/NA	Solid	3546	
500-248349-7	TP-27	Total/NA	Solid	3546	
500-248349-8	TP-28	Total/NA	Solid	3546	
500-248349-9	TP-29	Total/NA	Solid	3546	
500-248349-10	TP-30	Total/NA	Solid	3546	
500-248349-11	TP-31	Total/NA	Solid	3546	
MB 500-761820/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-761820/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 762030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	8270E	761820
500-248349-2	TP-22	Total/NA	Solid	8270E	761820
500-248349-3	TP-23	Total/NA	Solid	8270E	761820
500-248349-4	TP-24	Total/NA	Solid	8270E	761820
500-248349-5	TP-25	Total/NA	Solid	8270E	761820
500-248349-6	TP-26	Total/NA	Solid	8270E	761820
500-248349-7	TP-27	Total/NA	Solid	8270E	761820
500-248349-8	TP-28	Total/NA	Solid	8270E	761820
500-248349-9	TP-29	Total/NA	Solid	8270E	761820
500-248349-10	TP-30	Total/NA	Solid	8270E	761820
500-248349-11	TP-31	Total/NA	Solid	8270E	761820
MB 500-761820/1-A	Method Blank	Total/NA	Solid	8270E	761820
LCS 500-761820/2-A	Lab Control Sample	Total/NA	Solid	8270E	761820

Metals

Prep Batch: 761757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	3050B	
500-248349-2	TP-22	Total/NA	Solid	3050B	
500-248349-3	TP-23	Total/NA	Solid	3050B	
500-248349-4	TP-24	Total/NA	Solid	3050B	
500-248349-5	TP-25	Total/NA	Solid	3050B	
500-248349-6	TP-26	Total/NA	Solid	3050B	
500-248349-7	TP-27	Total/NA	Solid	3050B	
500-248349-8	TP-28	Total/NA	Solid	3050B	
500-248349-9	TP-29	Total/NA	Solid	3050B	
500-248349-10	TP-30	Total/NA	Solid	3050B	
500-248349-11	TP-31	Total/NA	Solid	3050B	
MB 500-761757/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-761757/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCS 500-761757/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
500-248349-1 MS	TP-21	Total/NA	Solid	3050B	
500-248349-1 MSD	TP-21	Total/NA	Solid	3050B	
500-248349-1 DU	TP-21	Total/NA	Solid	3050B	

QC Association Summary

Client: Stantec Consulting Corporation
Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Metals

Analysis Batch: 762411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	6010D	761757
500-248349-2	TP-22	Total/NA	Solid	6010D	761757
500-248349-3	TP-23	Total/NA	Solid	6010D	761757
500-248349-4	TP-24	Total/NA	Solid	6010D	761757
500-248349-5	TP-25	Total/NA	Solid	6010D	761757
500-248349-6	TP-26	Total/NA	Solid	6010D	761757
500-248349-7	TP-27	Total/NA	Solid	6010D	761757
500-248349-8	TP-28	Total/NA	Solid	6010D	761757
500-248349-9	TP-29	Total/NA	Solid	6010D	761757
500-248349-10	TP-30	Total/NA	Solid	6010D	761757
500-248349-11	TP-31	Total/NA	Solid	6010D	761757
MB 500-761757/1-A	Method Blank	Total/NA	Solid	6010D	761757
LCS 500-761757/2-A	Lab Control Sample	Total/NA	Solid	6010D	761757
500-248349-1 MS	TP-21	Total/NA	Solid	6010D	761757
500-248349-1 MSD	TP-21	Total/NA	Solid	6010D	761757
500-248349-1 DU	TP-21	Total/NA	Solid	6010D	761757

Analysis Batch: 762610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	6010D	761757
500-248349-2	TP-22	Total/NA	Solid	6010D	761757
500-248349-3	TP-23	Total/NA	Solid	6010D	761757
500-248349-4	TP-24	Total/NA	Solid	6010D	761757
500-248349-5	TP-25	Total/NA	Solid	6010D	761757
500-248349-6	TP-26	Total/NA	Solid	6010D	761757
500-248349-7	TP-27	Total/NA	Solid	6010D	761757
500-248349-8	TP-28	Total/NA	Solid	6010D	761757
500-248349-9	TP-29	Total/NA	Solid	6010D	761757
500-248349-10	TP-30	Total/NA	Solid	6010D	761757
500-248349-11	TP-31	Total/NA	Solid	6010D	761757
MB 500-761757/1-A	Method Blank	Total/NA	Solid	6010D	761757
LCS 500-761757/2-A ^2	Lab Control Sample	Total/NA	Solid	6010D	761757
500-248349-1 MS	TP-21	Total/NA	Solid	6010D	761757
500-248349-1 MSD	TP-21	Total/NA	Solid	6010D	761757
500-248349-1 DU	TP-21	Total/NA	Solid	6010D	761757

Prep Batch: 762829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	7471B	
500-248349-2	TP-22	Total/NA	Solid	7471B	
500-248349-3	TP-23	Total/NA	Solid	7471B	
500-248349-4	TP-24	Total/NA	Solid	7471B	
500-248349-5	TP-25	Total/NA	Solid	7471B	
500-248349-6	TP-26	Total/NA	Solid	7471B	
500-248349-7	TP-27	Total/NA	Solid	7471B	
500-248349-8	TP-28	Total/NA	Solid	7471B	
500-248349-9	TP-29	Total/NA	Solid	7471B	
500-248349-10	TP-30	Total/NA	Solid	7471B	
500-248349-11	TP-31	Total/NA	Solid	7471B	
MB 500-762829/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-762829/13-A	Lab Control Sample	Total/NA	Solid	7471B	

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QC Association Summary

Client: Stantec Consulting Corporation
Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Metals (Continued)

Prep Batch: 762829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-10 MS	TP-30	Total/NA	Solid	7471B	
500-248349-10 MSD	TP-30	Total/NA	Solid	7471B	
500-248349-10 DU	TP-30	Total/NA	Solid	7471B	

Analysis Batch: 763202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	7471B	762829
500-248349-2	TP-22	Total/NA	Solid	7471B	762829
500-248349-3	TP-23	Total/NA	Solid	7471B	762829
500-248349-4	TP-24	Total/NA	Solid	7471B	762829
500-248349-5	TP-25	Total/NA	Solid	7471B	762829
500-248349-6	TP-26	Total/NA	Solid	7471B	762829
500-248349-7	TP-27	Total/NA	Solid	7471B	762829
500-248349-8	TP-28	Total/NA	Solid	7471B	762829
500-248349-9	TP-29	Total/NA	Solid	7471B	762829
500-248349-10	TP-30	Total/NA	Solid	7471B	762829
500-248349-11	TP-31	Total/NA	Solid	7471B	762829
MB 500-762829/12-A	Method Blank	Total/NA	Solid	7471B	762829
LCS 500-762829/13-A	Lab Control Sample	Total/NA	Solid	7471B	762829
500-248349-10 MS	TP-30	Total/NA	Solid	7471B	762829
500-248349-10 MSD	TP-30	Total/NA	Solid	7471B	762829
500-248349-10 DU	TP-30	Total/NA	Solid	7471B	762829

General Chemistry

Analysis Batch: 761345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-248349-1	TP-21	Total/NA	Solid	Moisture	
500-248349-2	TP-22	Total/NA	Solid	Moisture	
500-248349-3	TP-23	Total/NA	Solid	Moisture	
500-248349-4	TP-24	Total/NA	Solid	Moisture	
500-248349-5	TP-25	Total/NA	Solid	Moisture	
500-248349-6	TP-26	Total/NA	Solid	Moisture	
500-248349-7	TP-27	Total/NA	Solid	Moisture	
500-248349-8	TP-28	Total/NA	Solid	Moisture	
500-248349-9	TP-29	Total/NA	Solid	Moisture	
500-248349-10	TP-30	Total/NA	Solid	Moisture	
500-248349-11	TP-31	Total/NA	Solid	Moisture	
500-248349-12	Dup-1	Total/NA	Solid	Moisture	
500-248349-1 DU	TP-21	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-248349-1	TP-21	114	88	129 S1+	92
500-248349-2	TP-22	114	87	129 S1+	94
500-248349-3	TP-23	111	89	130 S1+	93
500-248349-4	TP-24	114	86	128 S1+	93
500-248349-5	TP-25	114	89	132 S1+	94
500-248349-6	TP-26	114	89	126 S1+	91
500-248349-7	TP-27	111	88	129 S1+	94
500-248349-8	TP-28	107	89	124 S1+	96
500-248349-9	TP-29	111	86	127 S1+	91
500-248349-10	TP-30	110	90	130 S1+	92
500-248349-10 MS	TP-30	104	86	124 S1+	94
500-248349-10 MSD	TP-30	103	86	121 S1+	93
500-248349-11	TP-31	96	91	104	98
500-248349-12	Dup-1	97	89	107	98
500-248349-13	Trip Blank	99	91	106	99
LB3 500-761178/14-A	Method Blank	108	90	122 S1+	96
LCS 500-761178/15-A	Lab Control Sample	102	86	123 S1+	95
LCS 500-761969/5	Lab Control Sample	112	91	117	97
LCS 500-762799/4	Lab Control Sample	86	88	97	105
MB 500-761969/33	Method Blank	111	88	120	94
MB 500-762799/7	Method Blank	92	91	101	101

Surrogate Legend

- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (37-147)	FBP (43-145)	TPHL (42-157)
500-248349-1	TP-21	66	68	76
500-248349-2	TP-22	84	86	88
500-248349-3	TP-23	76	75	86
500-248349-4	TP-24	65	67	82
500-248349-5	TP-25	77	81	95
500-248349-6	TP-26	67	72	90
500-248349-7	TP-27	73	80	90
500-248349-8	TP-28	71	70	86
500-248349-9	TP-29	56	65	77
500-248349-10	TP-30	69	74	84
500-248349-11	TP-31	82	81	86
LCS 500-761820/2-A	Lab Control Sample	91	88	92
MB 500-761820/1-A	Method Blank	89	85	91

Surrogate Legend

- NBZ = Nitrobenzene-d5 (Surr)
- FBP = 2-Fluorobiphenyl (Surr)

Surrogate Summary

Client: Stantec Consulting Corporation
Project/Site: Manitowoc ROWs - 193710442
TPHL = Terphenyl-d14 (Surr)

Job ID: 500-248349-1

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 500-761178/14-A
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 761178

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,1-Dichloroethane	<21		50	21	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,1-Dichloroethene	<20		50	20	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,1-Dichloropropene	<15		50	15	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,2-Dichloroethane	<20		50	20	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,2-Dichloropropane	<21		50	21	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,3-Dichloropropane	<18		50	18	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
2,2-Dichloropropane	<22		250	22	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
2-Chlorotoluene	<16		50	16	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
4-Chlorotoluene	<18		50	18	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
4-Isopropyltoluene	<18		50	18	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Benzene	<7.3		13	7.3	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Bromobenzene	<18		50	18	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Bromoform	<24		50	24	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Bromomethane	<40		150	40	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Carbon tetrachloride	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Chlorobenzene	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Chlorobromomethane	<21		50	21	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Chlorodibromomethane	<24		50	24	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Chloroethane	<25		250	25	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Chloroform	25.8	J	100	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Chloromethane	<16		250	16	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Dibromomethane	<14		50	14	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Dichlorobromomethane	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Ethylene Dibromide	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Hexachlorobutadiene	<22		50	22	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Isopropyl ether	<14		50	14	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Isopropylbenzene	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Methylene Chloride	<82		250	82	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Naphthalene	<17		50	17	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
n-Butylbenzene	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 500-761178/14-A
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 761178

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<21		50	21	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
sec-Butylbenzene	<20		50	20	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Styrene	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
tert-Butylbenzene	<20		50	20	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Tetrachloroethene	<19		50	19	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Toluene	<7.4		13	7.4	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Trichloroethene	<8.2		25	8.2	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Trichlorofluoromethane	<21		50	21	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Vinyl chloride	<13		50	13	ug/Kg		04/02/24 21:28	04/08/24 13:35	50
Xylenes, Total	<11		25	11	ug/Kg		04/02/24 21:28	04/08/24 13:35	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 126	04/02/24 21:28	04/08/24 13:35	50
4-Bromofluorobenzene (Surr)	90		72 - 124	04/02/24 21:28	04/08/24 13:35	50
Dibromofluoromethane (Surr)	122	S1+	75 - 120	04/02/24 21:28	04/08/24 13:35	50
Toluene-d8 (Surr)	96		75 - 120	04/02/24 21:28	04/08/24 13:35	50

Lab Sample ID: LCS 500-761178/15-A
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 761178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	2500	3290	*+	ug/Kg		132	70 - 125
1,1,1-Trichloroethane	2500	3500	*+	ug/Kg		140	70 - 125
1,1,1,2,2-Tetrachloroethane	2500	1960		ug/Kg		78	62 - 140
1,1,2-Trichloroethane	2500	2460		ug/Kg		99	71 - 130
1,1-Dichloroethane	2500	2410		ug/Kg		97	70 - 125
1,1-Dichloroethene	2500	3020		ug/Kg		121	67 - 122
1,1-Dichloropropene	2500	2690		ug/Kg		108	70 - 121
1,2,3-Trichlorobenzene	2500	2880		ug/Kg		115	51 - 145
1,2,3-Trichloropropane	2500	2410		ug/Kg		96	50 - 133
1,2,4-Trichlorobenzene	2500	2630		ug/Kg		105	57 - 137
1,2,4-Trimethylbenzene	2500	2710		ug/Kg		108	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2270		ug/Kg		91	56 - 123
1,2-Dichlorobenzene	2500	3030		ug/Kg		121	70 - 125
1,2-Dichloroethane	2500	2930		ug/Kg		117	68 - 127
1,2-Dichloropropane	2500	2130		ug/Kg		85	67 - 130
1,3,5-Trimethylbenzene	2500	2790		ug/Kg		112	70 - 123
1,3-Dichlorobenzene	2500	2940		ug/Kg		118	70 - 125
1,3-Dichloropropane	2500	2270		ug/Kg		91	62 - 136
1,4-Dichlorobenzene	2500	3000		ug/Kg		120	70 - 120
2,2-Dichloropropane	2500	2590		ug/Kg		104	58 - 139
2-Chlorotoluene	2500	2470		ug/Kg		99	70 - 125
4-Chlorotoluene	2500	2520		ug/Kg		101	68 - 124
4-Isopropyltoluene	2500	3030		ug/Kg		121	70 - 125
Benzene	2500	2490		ug/Kg		100	70 - 120

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-761178/15-A
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 761178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	2500	3070	*+	ug/Kg		123	70 - 122
Bromoform	2500	2900		ug/Kg		116	56 - 132
Bromomethane	2500	4000	*+	ug/Kg		160	40 - 152
Carbon tetrachloride	2500	4030	*+	ug/Kg		161	59 - 133
Chlorobenzene	2500	2930		ug/Kg		117	70 - 120
Chlorobromomethane	2500	3660	*+	ug/Kg		146	65 - 122
Chlorodibromomethane	2500	3140	*+	ug/Kg		126	68 - 125
Chloroethane	2500	2260		ug/Kg		91	48 - 136
Chloroform	2500	3040	*+	ug/Kg		122	70 - 120
Chloromethane	2500	1230	*-	ug/Kg		49	56 - 152
cis-1,2-Dichloroethene	2500	2850		ug/Kg		114	70 - 125
cis-1,3-Dichloropropene	2500	2190		ug/Kg		88	64 - 127
Dibromomethane	2500	3020	*+	ug/Kg		121	70 - 120
Dichlorobromomethane	2500	2930		ug/Kg		117	69 - 120
Dichlorodifluoromethane	2500	1230		ug/Kg		49	40 - 159
Ethylbenzene	2500	2820		ug/Kg		113	70 - 123
Ethylene Dibromide	2500	2690		ug/Kg		108	70 - 125
Hexachlorobutadiene	2500	3050		ug/Kg		122	51 - 150
Isopropylbenzene	2500	2790		ug/Kg		112	70 - 126
Methyl tert-butyl ether	2500	2090		ug/Kg		84	55 - 123
Methylene Chloride	2500	2590		ug/Kg		103	69 - 125
Naphthalene	2500	2640		ug/Kg		106	53 - 144
n-Butylbenzene	2500	2550		ug/Kg		102	68 - 125
N-Propylbenzene	2500	2580		ug/Kg		103	69 - 127
sec-Butylbenzene	2500	2730		ug/Kg		109	70 - 123
Styrene	2500	2760		ug/Kg		110	70 - 120
tert-Butylbenzene	2500	3020		ug/Kg		121	70 - 121
Tetrachloroethene	2500	3270	*+	ug/Kg		131	70 - 128
Toluene	2500	2420		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	2500	3040		ug/Kg		122	70 - 125
trans-1,3-Dichloropropene	2500	2150		ug/Kg		86	62 - 128
Trichloroethene	2500	3660	*+	ug/Kg		146	70 - 125
Trichlorofluoromethane	2500	3960	*+	ug/Kg		159	55 - 128
Vinyl chloride	2500	1420	*-	ug/Kg		57	64 - 126
Xylenes, Total	5000	5020		ug/Kg		100	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 126
4-Bromofluorobenzene (Surr)	86		72 - 124
Dibromofluoromethane (Surr)	123	S1+	75 - 120
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: 500-248349-10 MS
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: TP-30
Prep Type: Total/NA
Prep Batch: 761178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<32	*+	3490	3890		ug/Kg	☆	112	70 - 125

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-248349-10 MS

Matrix: Solid

Analysis Batch: 761969

Client Sample ID: TP-30

Prep Type: Total/NA

Prep Batch: 761178

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1-Trichloroethane	<27	*+	3490	4070		ug/Kg	☼	116	70 - 125
1,1,2,2-Tetrachloroethane	<28		3490	2380		ug/Kg	☼	68	62 - 140
1,1,2-Trichloroethane	<25		3490	2920		ug/Kg	☼	84	71 - 130
1,1-Dichloroethane	<29		3490	2830		ug/Kg	☼	81	70 - 125
1,1-Dichloroethene	<27		3490	3930		ug/Kg	☼	113	67 - 122
1,1-Dichloropropene	<21		3490	3250		ug/Kg	☼	93	70 - 121
1,2,3-Trichlorobenzene	<32		3490	3420		ug/Kg	☼	98	51 - 145
1,2,3-Trichloropropane	<29		3490	2910		ug/Kg	☼	83	50 - 133
1,2,4-Trichlorobenzene	<24		3490	3100		ug/Kg	☼	89	57 - 137
1,2,4-Trimethylbenzene	<25		3490	3180		ug/Kg	☼	91	70 - 123
1,2-Dibromo-3-Chloropropane	<140		3490	2830		ug/Kg	☼	81	56 - 123
1,2-Dichlorobenzene	<23		3490	3620		ug/Kg	☼	104	70 - 125
1,2-Dichloroethane	<27		3490	3520		ug/Kg	☼	101	68 - 127
1,2-Dichloropropane	<30		3490	2570		ug/Kg	☼	74	67 - 130
1,3,5-Trimethylbenzene	<27		3490	3290		ug/Kg	☼	94	70 - 123
1,3-Dichlorobenzene	<28		3490	3520		ug/Kg	☼	101	70 - 125
1,3-Dichloropropane	<25		3490	2700		ug/Kg	☼	77	62 - 136
1,4-Dichlorobenzene	<25		3490	3520		ug/Kg	☼	101	70 - 120
2,2-Dichloropropane	<31		3490	2990		ug/Kg	☼	86	58 - 139
2-Chlorotoluene	<22		3490	2940		ug/Kg	☼	84	70 - 125
4-Chlorotoluene	<24		3490	2990		ug/Kg	☼	86	68 - 124
4-Isopropyltoluene	<25		3490	3550		ug/Kg	☼	102	70 - 125
Benzene	<10		3490	2990		ug/Kg	☼	86	70 - 120
Bromobenzene	<25	*+	3490	3650		ug/Kg	☼	104	70 - 122
Bromoform	<34		3490	3360		ug/Kg	☼	96	56 - 132
Bromomethane	<56	*+	3490	4650		ug/Kg	☼	133	40 - 152
Carbon tetrachloride	<27	F1 *+	3490	4830	F1	ug/Kg	☼	138	59 - 133
Chlorobenzene	<27		3490	3450		ug/Kg	☼	99	70 - 120
Chlorobromomethane	<30	F1 *+	3490	4420	F1	ug/Kg	☼	127	65 - 122
Chlorodibromomethane	<34	*+	3490	3740		ug/Kg	☼	107	68 - 125
Chloroethane	<35		3490	2850		ug/Kg	☼	82	48 - 136
Chloroform	45	J B *+	3490	3620		ug/Kg	☼	102	70 - 120
Chloromethane	<22	F1 *-	3490	1700	F1	ug/Kg	☼	49	56 - 152
cis-1,2-Dichloroethene	<28		3490	3440		ug/Kg	☼	98	70 - 125
cis-1,3-Dichloropropene	<29		3490	2560		ug/Kg	☼	73	64 - 127
Dibromomethane	<19	*+	3490	3650		ug/Kg	☼	105	70 - 120
Dichlorobromomethane	<26		3490	3590		ug/Kg	☼	103	69 - 120
Dichlorodifluoromethane	<47		3490	2100		ug/Kg	☼	60	40 - 159
Ethylbenzene	<13		3490	3280		ug/Kg	☼	94	70 - 123
Ethylene Dibromide	<27		3490	3160		ug/Kg	☼	91	70 - 125
Hexachlorobutadiene	<31		3490	3720		ug/Kg	☼	107	51 - 150
Isopropylbenzene	<27		3490	3280		ug/Kg	☼	94	70 - 126
Methyl tert-butyl ether	<28		3490	2450		ug/Kg	☼	70	55 - 123
Methylene Chloride	<110		3490	3090		ug/Kg	☼	89	69 - 125
Naphthalene	<23		3490	3160		ug/Kg	☼	91	53 - 144
n-Butylbenzene	<27		3490	2960		ug/Kg	☼	85	68 - 125
N-Propylbenzene	<29		3490	3030		ug/Kg	☼	87	69 - 127
sec-Butylbenzene	<28		3490	3230		ug/Kg	☼	93	70 - 123
Styrene	<27		3490	3270		ug/Kg	☼	94	70 - 120

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-248349-10 MS

Matrix: Solid

Analysis Batch: 761969

Client Sample ID: TP-30

Prep Type: Total/NA

Prep Batch: 761178

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier						
tert-Butylbenzene	<28		3490	3530		ug/Kg	☼	101	70 - 121		
Tetrachloroethene	<26	*+	3490	3840		ug/Kg	☼	110	70 - 128		
Toluene	<10		3490	2800		ug/Kg	☼	80	70 - 125		
trans-1,2-Dichloroethene	<24		3490	3710		ug/Kg	☼	106	70 - 125		
trans-1,3-Dichloropropene	<25		3490	2600		ug/Kg	☼	74	62 - 128		
Trichloroethene	<11	F1 *+	3490	4300		ug/Kg	☼	123	70 - 125		
Trichlorofluoromethane	<30	F1 *+	3490	3800		ug/Kg	☼	109	55 - 128		
Vinyl chloride	<18	F1 *-	3490	1570	F1	ug/Kg	☼	45	64 - 126		
Xylenes, Total	<15		6980	5900		ug/Kg	☼	85	70 - 125		
MS MS											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	104		75 - 126								
4-Bromofluorobenzene (Surr)	86		72 - 124								
Dibromofluoromethane (Surr)	124	S1+	75 - 120								
Toluene-d8 (Surr)	94		75 - 120								

Lab Sample ID: 500-248349-10 MSD

Matrix: Solid

Analysis Batch: 761969

Client Sample ID: TP-30

Prep Type: Total/NA

Prep Batch: 761178

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
1,1,1,2-Tetrachloroethane	<32	*+	3490	4010		ug/Kg	☼	115	70 - 125	3	30	
1,1,1-Trichloroethane	<27	*+	3490	4290		ug/Kg	☼	123	70 - 125	5	30	
1,1,1,2,2-Tetrachloroethane	<28		3490	2500		ug/Kg	☼	72	62 - 140	5	30	
1,1,2-Trichloroethane	<25		3490	2960		ug/Kg	☼	85	71 - 130	1	30	
1,1-Dichloroethane	<29		3490	2910		ug/Kg	☼	83	70 - 125	3	30	
1,1-Dichloroethene	<27		3490	3970		ug/Kg	☼	114	67 - 122	1	30	
1,1-Dichloropropene	<21		3490	3290		ug/Kg	☼	94	70 - 121	1	30	
1,2,3-Trichlorobenzene	<32		3490	3670		ug/Kg	☼	105	51 - 145	7	30	
1,2,3-Trichloropropane	<29		3490	3150		ug/Kg	☼	90	50 - 133	8	30	
1,2,4-Trichlorobenzene	<24		3490	3420		ug/Kg	☼	98	57 - 137	10	30	
1,2,4-Trimethylbenzene	<25		3490	3290		ug/Kg	☼	94	70 - 123	4	30	
1,2-Dibromo-3-Chloropropane	<140		3490	2680		ug/Kg	☼	77	56 - 123	6	30	
1,2-Dichlorobenzene	<23		3490	3730		ug/Kg	☼	107	70 - 125	3	30	
1,2-Dichloroethane	<27		3490	3550		ug/Kg	☼	102	68 - 127	1	30	
1,2-Dichloropropane	<30		3490	2590		ug/Kg	☼	74	67 - 130	1	30	
1,3,5-Trimethylbenzene	<27		3490	3390		ug/Kg	☼	97	70 - 123	3	30	
1,3-Dichlorobenzene	<28		3490	3680		ug/Kg	☼	106	70 - 125	5	30	
1,3-Dichloropropane	<25		3490	2750		ug/Kg	☼	79	62 - 136	2	30	
1,4-Dichlorobenzene	<25		3490	3690		ug/Kg	☼	106	70 - 120	5	30	
2,2-Dichloropropane	<31		3490	3220		ug/Kg	☼	92	58 - 139	7	30	
2-Chlorotoluene	<22		3490	3070		ug/Kg	☼	88	70 - 125	4	30	
4-Chlorotoluene	<24		3490	3120		ug/Kg	☼	90	68 - 124	5	30	
4-Isopropyltoluene	<25		3490	3650		ug/Kg	☼	105	70 - 125	3	30	
Benzene	<10		3490	3020		ug/Kg	☼	86	70 - 120	1	30	
Bromobenzene	<25	*+	3490	3700		ug/Kg	☼	106	70 - 122	1	30	
Bromoform	<34		3490	3540		ug/Kg	☼	101	56 - 132	5	30	
Bromomethane	<56	*+	3490	4810		ug/Kg	☼	138	40 - 152	3	30	

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-248349-10 MSD
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: TP-30
Prep Type: Total/NA
Prep Batch: 761178

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Carbon tetrachloride	<27	F1 *+	3490	4960	F1	ug/Kg	☼	142	59 - 133	3	30
Chlorobenzene	<27		3490	3540		ug/Kg	☼	101	70 - 120	3	30
Chlorobromomethane	<30	F1 *+	3490	4590	F1	ug/Kg	☼	131	65 - 122	4	30
Chlorodibromomethane	<34	*+	3490	3830		ug/Kg	☼	110	68 - 125	2	30
Chloroethane	<35		3490	2860		ug/Kg	☼	82	48 - 136	1	30
Chloroform	45	J B **	3490	3780		ug/Kg	☼	107	70 - 120	4	30
Chloromethane	<22	F1 *-	3490	1700	F1	ug/Kg	☼	49	56 - 152	0	30
cis-1,2-Dichloroethene	<28		3490	3490		ug/Kg	☼	100	70 - 125	2	30
cis-1,3-Dichloropropene	<29		3490	2590		ug/Kg	☼	74	64 - 127	1	30
Dibromomethane	<19	*+	3490	3630		ug/Kg	☼	104	70 - 120	1	30
Dichlorobromomethane	<26		3490	3550		ug/Kg	☼	102	69 - 120	1	30
Dichlorodifluoromethane	<47		3490	2040		ug/Kg	☼	58	40 - 159	3	30
Ethylbenzene	<13		3490	3380		ug/Kg	☼	97	70 - 123	3	30
Ethylene Dibromide	<27		3490	3340		ug/Kg	☼	96	70 - 125	6	30
Hexachlorobutadiene	<31		3490	3880		ug/Kg	☼	111	51 - 150	4	30
Isopropylbenzene	<27		3490	3360		ug/Kg	☼	96	70 - 126	3	30
Methyl tert-butyl ether	<28		3490	2630		ug/Kg	☼	75	55 - 123	7	30
Methylene Chloride	<110		3490	3170		ug/Kg	☼	91	69 - 125	3	30
Naphthalene	<23		3490	3310		ug/Kg	☼	95	53 - 144	5	30
n-Butylbenzene	<27		3490	3120		ug/Kg	☼	89	68 - 125	5	30
N-Propylbenzene	<29		3490	3130		ug/Kg	☼	90	69 - 127	3	30
sec-Butylbenzene	<28		3490	3350		ug/Kg	☼	96	70 - 123	4	30
Styrene	<27		3490	3400		ug/Kg	☼	98	70 - 120	4	30
tert-Butylbenzene	<28		3490	3670		ug/Kg	☼	105	70 - 121	4	30
Tetrachloroethene	<26	*+	3490	3980		ug/Kg	☼	114	70 - 128	3	30
Toluene	<10		3490	2890		ug/Kg	☼	83	70 - 125	3	30
trans-1,2-Dichloroethene	<24		3490	3820		ug/Kg	☼	110	70 - 125	3	30
trans-1,3-Dichloropropene	<25		3490	2650		ug/Kg	☼	76	62 - 128	2	30
Trichloroethene	<11	F1 *+	3490	4440	F1	ug/Kg	☼	127	70 - 125	3	30
Trichlorofluoromethane	<30	F1 *+	3490	4760	F1	ug/Kg	☼	136	55 - 128	23	30
Vinyl chloride	<18	F1 *-	3490	1880	F1	ug/Kg	☼	54	64 - 126	18	30
Xylenes, Total	<15		6980	6150		ug/Kg	☼	88	70 - 125	4	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		75 - 126
4-Bromofluorobenzene (Surr)	86		72 - 124
Dibromofluoromethane (Surr)	121	S1+	75 - 120
Toluene-d8 (Surr)	93		75 - 120

Lab Sample ID: MB 500-761969/33
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			04/08/24 13:59	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			04/08/24 13:59	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			04/08/24 13:59	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			04/08/24 13:59	1

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-761969/33
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			04/08/24 13:59	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			04/08/24 13:59	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			04/08/24 13:59	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			04/08/24 13:59	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			04/08/24 13:59	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			04/08/24 13:59	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			04/08/24 13:59	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			04/08/24 13:59	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			04/08/24 13:59	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			04/08/24 13:59	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			04/08/24 13:59	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			04/08/24 13:59	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			04/08/24 13:59	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			04/08/24 13:59	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			04/08/24 13:59	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			04/08/24 13:59	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			04/08/24 13:59	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			04/08/24 13:59	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			04/08/24 13:59	1
Benzene	<0.15		0.25	0.15	ug/Kg			04/08/24 13:59	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			04/08/24 13:59	1
Bromoform	<0.48		1.0	0.48	ug/Kg			04/08/24 13:59	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			04/08/24 13:59	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			04/08/24 13:59	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			04/08/24 13:59	1
Chlorobromomethane	<0.43		1.0	0.43	ug/Kg			04/08/24 13:59	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/Kg			04/08/24 13:59	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			04/08/24 13:59	1
Chloroform	0.896	J	2.0	0.37	ug/Kg			04/08/24 13:59	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			04/08/24 13:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			04/08/24 13:59	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			04/08/24 13:59	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			04/08/24 13:59	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/Kg			04/08/24 13:59	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			04/08/24 13:59	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			04/08/24 13:59	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/Kg			04/08/24 13:59	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			04/08/24 13:59	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			04/08/24 13:59	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			04/08/24 13:59	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			04/08/24 13:59	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			04/08/24 13:59	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			04/08/24 13:59	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			04/08/24 13:59	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			04/08/24 13:59	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			04/08/24 13:59	1
Styrene	<0.39		1.0	0.39	ug/Kg			04/08/24 13:59	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			04/08/24 13:59	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			04/08/24 13:59	1

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-761969/33
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Toluene	<0.15		0.25	0.15	ug/Kg			04/08/24 13:59	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			04/08/24 13:59	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			04/08/24 13:59	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			04/08/24 13:59	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			04/08/24 13:59	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			04/08/24 13:59	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			04/08/24 13:59	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	111		75 - 126		04/08/24 13:59	1
4-Bromofluorobenzene (Surr)	88		72 - 124		04/08/24 13:59	1
Dibromofluoromethane (Surr)	120		75 - 120		04/08/24 13:59	1
Toluene-d8 (Surr)	94		75 - 120		04/08/24 13:59	1

Lab Sample ID: LCS 500-761969/5
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	59.6		ug/Kg		119	70 - 125
1,1,1,2-Tetrachloroethane	50.0	36.4		ug/Kg		73	62 - 140
1,1,2-Trichloroethane	50.0	40.1		ug/Kg		80	71 - 130
1,1-Dichloroethane	50.0	43.9		ug/Kg		88	70 - 125
1,1-Dichloroethene	50.0	50.0		ug/Kg		100	67 - 122
1,1-Dichloropropene	50.0	48.9		ug/Kg		98	70 - 121
1,2,3-Trichlorobenzene	50.0	49.3		ug/Kg		99	51 - 145
1,2,3-Trichloropropane	50.0	42.2		ug/Kg		84	50 - 133
1,2,4-Trichlorobenzene	50.0	47.4		ug/Kg		95	57 - 137
1,2,4-Trimethylbenzene	50.0	48.1		ug/Kg		96	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.9		ug/Kg		76	56 - 123
1,2-Dichlorobenzene	50.0	50.8		ug/Kg		102	70 - 125
1,2-Dichloroethane	50.0	51.8		ug/Kg		104	68 - 127
1,2-Dichloropropane	50.0	39.6		ug/Kg		79	67 - 130
1,3,5-Trimethylbenzene	50.0	48.7		ug/Kg		97	70 - 123
1,3-Dichlorobenzene	50.0	49.9		ug/Kg		100	70 - 125
1,3-Dichloropropane	50.0	41.0		ug/Kg		82	62 - 136
1,4-Dichlorobenzene	50.0	49.8		ug/Kg		100	70 - 120
2,2-Dichloropropane	50.0	51.7		ug/Kg		103	58 - 139
2-Chlorotoluene	50.0	45.0		ug/Kg		90	70 - 125
4-Chlorotoluene	50.0	45.9		ug/Kg		92	68 - 124
4-Isopropyltoluene	50.0	52.9		ug/Kg		106	70 - 125
Benzene	50.0	43.2		ug/Kg		86	70 - 120
Bromobenzene	50.0	50.0		ug/Kg		100	70 - 122
Bromoform	50.0	48.3		ug/Kg		97	56 - 132
Bromomethane	50.0	63.3		ug/Kg		127	40 - 152
Carbon tetrachloride	50.0	68.7	*+	ug/Kg		137	59 - 133
Chlorobenzene	50.0	49.0		ug/Kg		98	70 - 120

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-761969/5
Matrix: Solid
Analysis Batch: 761969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobromomethane	50.0	56.3		ug/Kg		113	65 - 122
Chlorodibromomethane	50.0	51.4		ug/Kg		103	68 - 125
Chloroethane	50.0	47.4		ug/Kg		95	48 - 136
Chloroform	50.0	52.2		ug/Kg		104	70 - 120
Chloromethane	50.0	30.0		ug/Kg		60	56 - 152
cis-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	70 - 125
cis-1,3-Dichloropropene	50.0	39.2		ug/Kg		78	64 - 127
Dibromomethane	50.0	50.5		ug/Kg		101	70 - 120
Dichlorobromomethane	50.0	51.0		ug/Kg		102	69 - 120
Dichlorodifluoromethane	50.0	38.3		ug/Kg		77	40 - 159
Ethylbenzene	50.0	48.2		ug/Kg		96	70 - 123
Ethylene Dibromide	50.0	44.6		ug/Kg		89	70 - 125
Hexachlorobutadiene	50.0	54.8		ug/Kg		110	51 - 150
Isopropylbenzene	50.0	48.6		ug/Kg		97	70 - 126
Methyl tert-butyl ether	50.0	37.1		ug/Kg		74	55 - 123
Methylene Chloride	50.0	43.5		ug/Kg		87	69 - 125
Naphthalene	50.0	43.6		ug/Kg		87	53 - 144
n-Butylbenzene	50.0	48.8		ug/Kg		98	68 - 125
N-Propylbenzene	50.0	47.2		ug/Kg		94	69 - 127
sec-Butylbenzene	50.0	49.0		ug/Kg		98	70 - 123
Styrene	50.0	46.8		ug/Kg		94	70 - 120
tert-Butylbenzene	50.0	52.0		ug/Kg		104	70 - 121
Tetrachloroethene	50.0	54.3		ug/Kg		109	70 - 128
Toluene	50.0	40.5		ug/Kg		81	70 - 125
trans-1,2-Dichloroethene	50.0	50.1		ug/Kg		100	70 - 125
trans-1,3-Dichloropropene	50.0	39.9		ug/Kg		80	62 - 128
Trichloroethene	50.0	56.6		ug/Kg		113	70 - 125
Trichlorofluoromethane	50.0	69.0	*+	ug/Kg		138	55 - 128
Vinyl chloride	50.0	33.2		ug/Kg		66	64 - 126
Xylenes, Total	100	89.2		ug/Kg		89	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		75 - 126
4-Bromofluorobenzene (Surr)	91		72 - 124
Dibromofluoromethane (Surr)	117		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Lab Sample ID: MB 500-762799/7
Matrix: Solid
Analysis Batch: 762799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			04/12/24 10:44	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			04/12/24 10:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			04/12/24 10:44	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			04/12/24 10:44	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			04/12/24 10:44	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			04/12/24 10:44	1

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-762799/7
Matrix: Solid
Analysis Batch: 762799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			04/12/24 10:44	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			04/12/24 10:44	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			04/12/24 10:44	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			04/12/24 10:44	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			04/12/24 10:44	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			04/12/24 10:44	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			04/12/24 10:44	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			04/12/24 10:44	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			04/12/24 10:44	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			04/12/24 10:44	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			04/12/24 10:44	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			04/12/24 10:44	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			04/12/24 10:44	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			04/12/24 10:44	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			04/12/24 10:44	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			04/12/24 10:44	1
4-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			04/12/24 10:44	1
Benzene	<0.15		0.25	0.15	ug/Kg			04/12/24 10:44	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			04/12/24 10:44	1
Bromoform	<0.48		1.0	0.48	ug/Kg			04/12/24 10:44	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			04/12/24 10:44	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			04/12/24 10:44	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			04/12/24 10:44	1
Chlorobromomethane	<0.43		1.0	0.43	ug/Kg			04/12/24 10:44	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/Kg			04/12/24 10:44	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			04/12/24 10:44	1
Chloroform	<0.37		2.0	0.37	ug/Kg			04/12/24 10:44	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			04/12/24 10:44	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			04/12/24 10:44	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			04/12/24 10:44	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			04/12/24 10:44	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/Kg			04/12/24 10:44	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			04/12/24 10:44	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			04/12/24 10:44	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/Kg			04/12/24 10:44	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			04/12/24 10:44	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			04/12/24 10:44	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			04/12/24 10:44	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			04/12/24 10:44	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			04/12/24 10:44	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			04/12/24 10:44	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			04/12/24 10:44	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			04/12/24 10:44	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			04/12/24 10:44	1
Styrene	<0.39		1.0	0.39	ug/Kg			04/12/24 10:44	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			04/12/24 10:44	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			04/12/24 10:44	1
Toluene	<0.15		0.25	0.15	ug/Kg			04/12/24 10:44	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			04/12/24 10:44	1

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-762799/7
Matrix: Solid
Analysis Batch: 762799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			04/12/24 10:44	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			04/12/24 10:44	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			04/12/24 10:44	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			04/12/24 10:44	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			04/12/24 10:44	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	92		75 - 126		04/12/24 10:44	1
4-Bromofluorobenzene (Surr)	91		72 - 124		04/12/24 10:44	1
Dibromofluoromethane (Surr)	101		75 - 120		04/12/24 10:44	1
Toluene-d8 (Surr)	101		75 - 120		04/12/24 10:44	1

Lab Sample ID: LCS 500-762799/4
Matrix: Solid
Analysis Batch: 762799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	49.6		ug/Kg		99	70 - 125
1,1,1-Trichloroethane	50.0	47.6		ug/Kg		95	70 - 125
1,1,1,2-Tetrachloroethane	50.0	45.7		ug/Kg		91	62 - 140
1,1,2-Trichloroethane	50.0	50.9		ug/Kg		102	71 - 130
1,1-Dichloroethane	50.0	44.5		ug/Kg		89	70 - 125
1,1-Dichloroethene	50.0	46.1		ug/Kg		92	67 - 122
1,1-Dichloropropene	50.0	47.6		ug/Kg		95	70 - 121
1,2,3-Trichlorobenzene	50.0	43.2		ug/Kg		86	51 - 145
1,2,3-Trichloropropane	50.0	43.1		ug/Kg		86	50 - 133
1,2,4-Trichlorobenzene	50.0	44.8		ug/Kg		90	57 - 137
1,2,4-Trimethylbenzene	50.0	47.6		ug/Kg		95	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	36.4		ug/Kg		73	56 - 123
1,2-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	41.5		ug/Kg		83	68 - 127
1,2-Dichloropropane	50.0	44.6		ug/Kg		89	67 - 130
1,3,5-Trimethylbenzene	50.0	46.8		ug/Kg		94	70 - 123
1,3-Dichlorobenzene	50.0	48.3		ug/Kg		97	70 - 125
1,3-Dichloropropane	50.0	47.1		ug/Kg		94	62 - 136
1,4-Dichlorobenzene	50.0	47.1		ug/Kg		94	70 - 120
2,2-Dichloropropane	50.0	38.6		ug/Kg		77	58 - 139
2-Chlorotoluene	50.0	46.6		ug/Kg		93	70 - 125
4-Chlorotoluene	50.0	45.7		ug/Kg		91	68 - 124
4-Isopropyltoluene	50.0	49.8		ug/Kg		100	70 - 125
Benzene	50.0	49.9		ug/Kg		100	70 - 120
Bromobenzene	50.0	47.2		ug/Kg		94	70 - 122
Bromoform	50.0	50.2		ug/Kg		100	56 - 132
Bromomethane	50.0	61.5		ug/Kg		123	40 - 152
Carbon tetrachloride	50.0	48.8		ug/Kg		98	59 - 133
Chlorobenzene	50.0	49.9		ug/Kg		100	70 - 120
Chlorobromomethane	50.0	47.5		ug/Kg		95	65 - 122
Chlorodibromomethane	50.0	49.9		ug/Kg		100	68 - 125

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-762799/4
Matrix: Solid
Analysis Batch: 762799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	45.7		ug/Kg		91	48 - 136
Chloroform	50.0	46.0		ug/Kg		92	70 - 120
Chloromethane	50.0	49.5		ug/Kg		99	56 - 152
cis-1,2-Dichloroethene	50.0	46.3		ug/Kg		93	70 - 125
cis-1,3-Dichloropropene	50.0	43.6		ug/Kg		87	64 - 127
Dibromomethane	50.0	44.6		ug/Kg		89	70 - 120
Dichlorobromomethane	50.0	44.6		ug/Kg		89	69 - 120
Dichlorodifluoromethane	50.0	51.8		ug/Kg		104	40 - 159
Ethylbenzene	50.0	49.3		ug/Kg		99	70 - 123
Ethylene Dibromide	50.0	47.4		ug/Kg		95	70 - 125
Hexachlorobutadiene	50.0	50.0		ug/Kg		100	51 - 150
Isopropylbenzene	50.0	49.3		ug/Kg		99	70 - 126
Methyl tert-butyl ether	50.0	39.2		ug/Kg		78	55 - 123
Methylene Chloride	50.0	44.3		ug/Kg		89	69 - 125
Naphthalene	50.0	38.7		ug/Kg		77	53 - 144
n-Butylbenzene	50.0	47.6		ug/Kg		95	68 - 125
N-Propylbenzene	50.0	47.3		ug/Kg		95	69 - 127
sec-Butylbenzene	50.0	49.3		ug/Kg		99	70 - 123
Styrene	50.0	50.4		ug/Kg		101	70 - 120
tert-Butylbenzene	50.0	48.4		ug/Kg		97	70 - 121
Tetrachloroethene	50.0	53.7		ug/Kg		107	70 - 128
Toluene	50.0	46.5		ug/Kg		93	70 - 125
trans-1,2-Dichloroethene	50.0	49.4		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	50.0	42.5		ug/Kg		85	62 - 128
Trichloroethene	50.0	48.9		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	51.5		ug/Kg		103	55 - 128
Vinyl chloride	50.0	51.9		ug/Kg		104	64 - 126
Xylenes, Total	100	95.2		ug/Kg		95	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		75 - 126
4-Bromofluorobenzene (Surr)	88		72 - 124
Dibromofluoromethane (Surr)	97		75 - 120
Toluene-d8 (Surr)	105		75 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-761820/1-A
Matrix: Solid
Analysis Batch: 762030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 761820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<5.9		67	5.9	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
2-Methylnaphthalene	<6.7		67	6.7	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Acenaphthene	<6.8		33	6.8	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Acenaphthylene	<5.6		33	5.6	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Anthracene	<6.8		33	6.8	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Benzo[a]anthracene	<7.0		33	7.0	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Benzo[a]pyrene	<32		33	32	ug/Kg		04/05/24 14:56	04/08/24 11:20	1

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-761820/1-A
Matrix: Solid
Analysis Batch: 762030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 761820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<32		33	32	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Benzo[g,h,i]perylene	<7.2		33	7.2	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Benzo[k]fluoranthene	<13		33	13	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Chrysene	<8.8		33	8.8	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Dibenz(a,h)anthracene	<33		33	33	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Fluoranthene	<7.7		33	7.7	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Fluorene	<9.8		33	9.8	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Indeno[1,2,3-cd]pyrene	<32		33	32	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Naphthalene	<6.0		33	6.0	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Phenanthrene	<7.2		33	7.2	ug/Kg		04/05/24 14:56	04/08/24 11:20	1
Pyrene	<9.1		33	9.1	ug/Kg		04/05/24 14:56	04/08/24 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	89		37 - 147	04/05/24 14:56	04/08/24 11:20	1
2-Fluorobiphenyl (Surr)	85		43 - 145	04/05/24 14:56	04/08/24 11:20	1
Terphenyl-d14 (Surr)	91		42 - 157	04/05/24 14:56	04/08/24 11:20	1

Lab Sample ID: LCS 500-761820/2-A
Matrix: Solid
Analysis Batch: 762030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 761820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	3330	2990		ug/Kg		90	58 - 101
2-Methylnaphthalene	3330	3040		ug/Kg		91	58 - 103
Acenaphthene	3330	2950		ug/Kg		88	63 - 109
Acenaphthylene	3330	3000		ug/Kg		90	61 - 115
Anthracene	3330	3030		ug/Kg		91	68 - 120
Benzo[a]anthracene	3330	2990		ug/Kg		90	70 - 121
Benzo[a]pyrene	3330	3250		ug/Kg		98	73 - 132
Benzo[b]fluoranthene	3330	3280		ug/Kg		99	68 - 123
Benzo[g,h,i]perylene	3330	3280		ug/Kg		98	65 - 126
Benzo[k]fluoranthene	3330	3250		ug/Kg		97	64 - 128
Chrysene	3330	3040		ug/Kg		91	70 - 123
Dibenz(a,h)anthracene	3330	3310		ug/Kg		99	66 - 125
Fluoranthene	3330	3160		ug/Kg		95	66 - 123
Fluorene	3330	3070		ug/Kg		92	62 - 113
Indeno[1,2,3-cd]pyrene	3330	3550		ug/Kg		106	66 - 131
Naphthalene	3330	2920		ug/Kg		88	54 - 98
Phenanthrene	3330	3020		ug/Kg		91	65 - 115
Pyrene	3330	3170		ug/Kg		95	71 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	91		37 - 147
2-Fluorobiphenyl (Surr)	88		43 - 145
Terphenyl-d14 (Surr)	92		42 - 157

QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-761757/1-A
Matrix: Solid
Analysis Batch: 762411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 761757

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.34		1.0	0.34	mg/Kg		04/05/24 09:34	04/09/24 23:06	1
Barium	<0.11		1.0	0.11	mg/Kg		04/05/24 09:34	04/09/24 23:06	1
Cadmium	<0.036		0.20	0.036	mg/Kg		04/05/24 09:34	04/09/24 23:06	1
Chromium	<0.50		1.0	0.50	mg/Kg		04/05/24 09:34	04/09/24 23:06	1
Lead	<0.23		0.50	0.23	mg/Kg		04/05/24 09:34	04/09/24 23:06	1
Selenium	<0.59		1.0	0.59	mg/Kg		04/05/24 09:34	04/09/24 23:06	1

Lab Sample ID: MB 500-761757/1-A
Matrix: Solid
Analysis Batch: 762610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 761757

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	<0.13		0.50	0.13	mg/Kg		04/05/24 09:34	04/10/24 16:00	1

Lab Sample ID: LCS 500-761757/2-A
Matrix: Solid
Analysis Batch: 762411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 761757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	200	179		mg/Kg		89	80 - 120
Cadmium	5.00	4.45		mg/Kg		89	80 - 120
Chromium	20.0	17.9		mg/Kg		89	80 - 120
Lead	10.0	9.14		mg/Kg		91	80 - 120
Selenium	10.0	8.61		mg/Kg		86	80 - 120

Lab Sample ID: LCS 500-761757/2-A ^2
Matrix: Solid
Analysis Batch: 762610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 761757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: 500-248349-1 MS
Matrix: Solid
Analysis Batch: 762411

Client Sample ID: TP-21
Prep Type: Total/NA
Prep Batch: 761757

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	3.6	F1	9.38	10.4	F1	mg/Kg	☼	72	75 - 125
Barium	67	F1	188	204	F1	mg/Kg	☼	73	75 - 125
Cadmium	0.21		4.69	3.92		mg/Kg	☼	79	75 - 125
Chromium	22	F1	18.8	33.4	F1	mg/Kg	☼	63	75 - 125
Lead	13	F1	9.38	26.7	F1	mg/Kg	☼	143	75 - 125
Selenium	<0.58	F1	9.38	6.56	F1	mg/Kg	☼	70	75 - 125

QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-248349-1 MS
Matrix: Solid
Analysis Batch: 762610

Client Sample ID: TP-21
Prep Type: Total/NA
Prep Batch: 761757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	<0.64		4.69	4.77		mg/Kg	⊛	102	75 - 125

Lab Sample ID: 500-248349-1 MSD
Matrix: Solid
Analysis Batch: 762411

Client Sample ID: TP-21
Prep Type: Total/NA
Prep Batch: 761757

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.6	F1	10.9	11.3	F1	mg/Kg	⊛	71	75 - 125	9	20
Barium	67	F1	218	229	F1	mg/Kg	⊛	74	75 - 125	11	20
Cadmium	0.21		5.45	4.40		mg/Kg	⊛	77	75 - 125	12	20
Chromium	22	F1	21.8	37.0	F1	mg/Kg	⊛	71	75 - 125	10	20
Lead	13	F1	10.9	23.2		mg/Kg	⊛	91	75 - 125	14	20
Selenium	<0.58	F1	10.9	7.91	F1	mg/Kg	⊛	73	75 - 125	19	20

Lab Sample ID: 500-248349-1 MSD
Matrix: Solid
Analysis Batch: 762610

Client Sample ID: TP-21
Prep Type: Total/NA
Prep Batch: 761757

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	<0.64		5.45	5.11		mg/Kg	⊛	94	75 - 125	7	20

Lab Sample ID: 500-248349-1 DU
Matrix: Solid
Analysis Batch: 762411

Client Sample ID: TP-21
Prep Type: Total/NA
Prep Batch: 761757

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	3.6	F1	3.30		mg/Kg	⊛	9	20
Barium	67	F1	62.1		mg/Kg	⊛	8	20
Cadmium	0.21		0.202		mg/Kg	⊛	1	20
Chromium	22	F1	19.5		mg/Kg	⊛	10	20
Lead	13	F1	11.7		mg/Kg	⊛	13	20
Selenium	<0.58	F1	<0.59		mg/Kg	⊛	NC	20

Lab Sample ID: 500-248349-1 DU
Matrix: Solid
Analysis Batch: 762610

Client Sample ID: TP-21
Prep Type: Total/NA
Prep Batch: 761757

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	<0.64		<0.65		mg/Kg	⊛	NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-762829/12-A
Matrix: Solid
Analysis Batch: 763202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 762829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		04/12/24 13:50	04/15/24 11:23	1

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-762829/13-A
Matrix: Solid
Analysis Batch: 763202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 762829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.177		mg/Kg		106	80 - 120

Lab Sample ID: 500-248349-10 MS
Matrix: Solid
Analysis Batch: 763202

Client Sample ID: TP-30
Prep Type: Total/NA
Prep Batch: 762829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.030		0.0919	0.126		mg/Kg	✱	104	75 - 125

Lab Sample ID: 500-248349-10 MSD
Matrix: Solid
Analysis Batch: 763202

Client Sample ID: TP-30
Prep Type: Total/NA
Prep Batch: 762829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.030		0.0913	0.144		mg/Kg	✱	125	75 - 125	14	20

Lab Sample ID: 500-248349-10 DU
Matrix: Solid
Analysis Batch: 763202

Client Sample ID: TP-30
Prep Type: Total/NA
Prep Batch: 762829

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.030		0.0223	F5	mg/Kg	✱	30	20

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-21
Date Collected: 04/01/24 08:35
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-21
Date Collected: 04/01/24 08:35
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-1
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 08:35
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 17:13
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 15:18
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/09/24 23:13
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 16:07
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:27

Client Sample ID: TP-22
Date Collected: 04/01/24 08:45
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-22
Date Collected: 04/01/24 08:45
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-2
Matrix: Solid
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 08:45
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 17:37
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		2	762030	H7CM	EET CHI	04/08/24 19:40
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/09/24 23:38
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 16:31
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:29

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-23
Date Collected: 04/01/24 08:55
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-23
Date Collected: 04/01/24 08:55
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-3
Matrix: Solid
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 08:55
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 18:01
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 14:54
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/09/24 23:42
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 16:35
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:34

Client Sample ID: TP-24
Date Collected: 04/01/24 09:45
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-24
Date Collected: 04/01/24 09:45
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-4
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 09:45
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 18:24
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 19:16
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/09/24 23:45
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 16:38
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:36

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-25
Date Collected: 04/01/24 09:55
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-25
Date Collected: 04/01/24 09:55
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-5
Matrix: Solid
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 09:55
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 18:49
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 16:53
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/09/24 23:49
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 16:42
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:38

Client Sample ID: TP-26
Date Collected: 04/01/24 10:00
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-26
Date Collected: 04/01/24 10:00
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-6
Matrix: Solid
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 10:00
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 19:13
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 16:29
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/09/24 23:53
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 16:45
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:39

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-27
Date Collected: 04/01/24 10:06
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-27
Date Collected: 04/01/24 10:06
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-7
Matrix: Solid
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 10:06
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 19:37
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 12:07
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/09/24 23:56
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 16:48
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:41

Client Sample ID: TP-28
Date Collected: 04/01/24 10:15
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-28
Date Collected: 04/01/24 10:15
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-8
Matrix: Solid
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 10:15
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 20:01
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 15:42
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/10/24 00:00
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 16:52
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:43

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-29
Date Collected: 04/01/24 10:22
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-29
Date Collected: 04/01/24 10:22
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-9
Matrix: Solid
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 10:22
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 20:25
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 17:17
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/10/24 00:03
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 16:55
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:45

Client Sample ID: TP-30
Date Collected: 04/01/24 10:30
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-30
Date Collected: 04/01/24 10:30
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-10
Matrix: Solid
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 10:30
Total/NA	Analysis	8260D		50	761969	W1T	EET CHI	04/08/24 20:49
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 18:53
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/10/24 00:14
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 17:06
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:46

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Client Sample ID: TP-31
Date Collected: 04/01/24 10:35
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: TP-31
Date Collected: 04/01/24 10:35
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-11
Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 10:35
Total/NA	Analysis	8260D		50	762799	EA	EET CHI	04/12/24 18:05
Total/NA	Prep	3546			761820	NC	EET CHI	04/05/24 14:56
Total/NA	Analysis	8270E		1	762030	H7CM	EET CHI	04/08/24 16:06
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		1	762411	SJ	EET CHI	04/10/24 00:17
Total/NA	Prep	3050B			761757	BDE	EET CHI	04/05/24 09:34 - 04/05/24 15:34 ¹
Total/NA	Analysis	6010D		5	762610	SJ	EET CHI	04/10/24 17:09
Total/NA	Prep	7471B			762829	MJG	EET CHI	04/12/24 13:50
Total/NA	Analysis	7471B		1	763202	MJG	EET CHI	04/15/24 11:57

Client Sample ID: Dup-1
Date Collected: 04/01/24 10:23
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	761345	ER	EET CHI	04/03/24 11:43

Client Sample ID: Dup-1
Date Collected: 04/01/24 10:23
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-12
Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 12:03
Total/NA	Analysis	8260D		50	762799	EA	EET CHI	04/12/24 18:29

Client Sample ID: Trip Blank
Date Collected: 04/01/24 00:00
Date Received: 04/02/24 09:50

Lab Sample ID: 500-248349-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			761178	WRE	EET CHI	04/01/24 00:00
Total/NA	Analysis	8260D		50	762799	EA	EET CHI	04/12/24 17:41

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corporation
Project/Site: Manitowoc ROWs - 193710442

Job ID: 500-248349-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Eurofins Chicago

2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

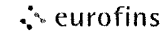


Client Information		Sampler <i>J. Hantami</i>		Lab PM Fredrick Sandie		Carrier Tracking No(s)		COC No 500-122747-49379 1					
Client Contact Whitney Cull		Phone <i>262-278-9154</i>		E-Mail Sandra.Fredrick@et.eurofins.com		State of Origin <i>WI</i>		Page Page 1					
Company Stantec Consulting Corporation				PWSID		Analysis Requested							
Address 12080 Corporate Parkway Suite 200		Due Date Requested						Job # <i>500-248349</i>					
City Mequon		TAT Requested (days) <i>10</i>						Preservation Codes					
State Zip WI 53092		Compliance Project <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)					
Phone		PO # PN 193710442		WO #				Other:					
Email whitney.cull@stantec.com		Project # 500065665		SSOW#									
Project Name Manitowoc ROWs - 193710442													
Site Manitowoc WI													
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs	PAH	RCRA Metals	Total Number of containers	Special Instructions/Note	
				Preservation Code									
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		<i>TP-21</i>	<i>4/1/24</i>	<i>0835</i>	<i>G</i>	<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
		<i>TP-22</i>		<i>0845</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
		<i>TP-23</i>		<i>0855</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
		<i>TP-24</i>		<i>0945</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
		<i>TP-25</i>		<i>0955</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
		<i>TP-26</i>		<i>1000</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>V</i>	<i>X</i>		
		<i>TP-27</i>		<i>1006</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
		<i>TP-28</i>		<i>1015</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
		<i>TP-29</i>		<i>1022</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
		<i>TP-30</i>		<i>1030</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
		<i>TP-31</i>		<i>1035</i>		<i>Soil</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested I, II, III, IV Other (specify)						Special Instructions/QC Requirements							
Empty Kit Relinquished by:				Date		Time		Method of Shipment					
Relinquished by <i>J. Ad...</i>				Date/Time <i>4/1/24, 1508</i>		Company <i>Stantec</i>		Received by <i>Shirley...</i>		Date/Time <i>4/2/24 0950</i>		Company <i>EEPA</i>	
Relinquished by				Date/Time		Company		Received by		Date/Time		Company	
Relinquished by				Date/Time		Company		Received by		Date/Time		Company	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks		<i>4.1 → 3.6</i>							

Eurofins Chicago

2417 Bond Street
 University Park, IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



Client Information		Sampler J. Hatami		Lab PM Fredrick, Sandie		Carrier Tracking No(s)		COC No 500-122747-49379 1															
Client Contact Whitney Cull		Phone 262-278-9154		E-Mail: Sandra.Fredrick@et.eurofinsus.com		State of Origin WI		Page Page 1															
Company Stantec Consulting Corporation		PWSID#		Analysis Requested						Job # 500-248349													
Address 12080 Corporate Parkway, Suite 200		Due Date Requested		Field Filtered Sample (Yes or No)		Perform: MS/MSD (Yes or No)		VOCs		PAH		RCRA Metals		Total Number of containers		Preservation Codes A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D Nitric Acid P - Na2O4S E NaHSO4 Q - Na2SO3 F MeOH R - Na2S2O3 G Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K EDTA W - pH 4-5 L - EDA Y - Trizma Z other (specify) Other:							
City Mequon		TAT Requested (days) 10																					
State Zip WI 53092		Compliance Project Δ Yes Δ No																					
Phone		PO # PN 193710442																					
Email whitney.cull@stantec.com		WO #		Project # 50006565		Project Name Manitowoc ROWs - 193710442		Site Manitowoc, WI		SSOW#		Special Instructions/Note											
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastelol, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform: MS/MSD (Yes or No)		VOCs		PAH		RCRA Metals		Total Number of containers		Special Instructions/Note	
12 13 Dupl Trip Blank		4/1/24 4/1/24		1023 —		S —		Soil Soil		N N		X X											
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input checked="" type="checkbox"/> Unknown		<input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Deliverable Requested I II, III, IV, Other (specify)														<input type="checkbox"/> Return To Client		<input checked="" type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date		Time		Method of Shipment:																	
Relinquished by J. Hatami		Date/Time: 4/1/24, 1508		Company: Stantec		Received by Shirley Smith		Date/Time: 4/1/24 0950		Company: EB&A													
Relinquished by		Date/Time		Company		Received by		Date/Time		Company													
Relinquished by		Date/Time		Company		Received by		Date/Time		Company													
Custody Seals Intact. Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks.																			





500-248349 Waybi

WHITNEY CULL
STANTEC CONSULTING CORP.
12080 CORPORATE PARKWAY
#200
MEQUON, WI 53092
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3755

Part
10469 434 JTT EXP 10/24

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

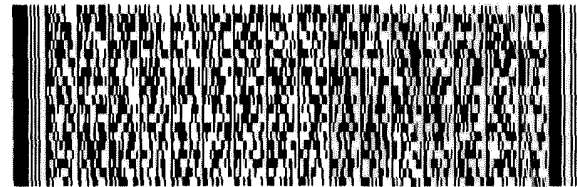
UNIVERSITY PARK IL 60484

(708) 634-6200
INV#
PO:

REF:

DEPT:

RMA: ||| ||| ||| |||



FedEx
Express



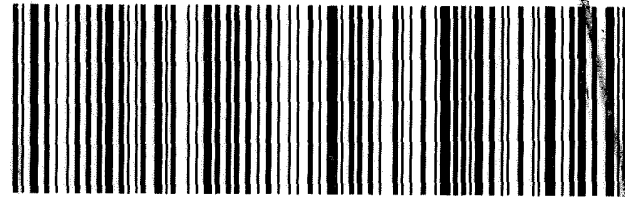
101201530520020221

FedEx
TRK#
0221 7338 9115 3380

79 JOTA

RETURN TO MON 04T
TUE - 02 APR AA 1T
PRIORITY OVERNIGHT

60484 14
IL-US
ORD



730145 01Apr2024 HKFA 58164/5080/C080



Login Sample Receipt Checklist

Client: Stantec Consulting Corporation

Job Number: 500-248349-1

Login Number: 248349

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

