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EXCELLENCE IN ENGINEERING

STRAND ASSOCIATES®
Strand Associates, Inc.®
910 West Wingra Drive
Madison, WI 53715
(P) 608.251.4843

September 3, 2021

Ms. Elizabeth Saunderson, P.E.
Milwaukee County Department of Transportation–Transportation Services
10320 West Watertown Plank Road, 2nd Floor
Wauwatosa, WI 53226

Re: Phase 2 Subsurface Investigation at Cypress Cleaners
West Beloit Road (CTH T), South 124th Street to South Wollmer Road
Milwaukee County, Wisconsin
Project No. WH110011

Dear Ms. Saunderson:

Enclosed is the Phase 2 Subsurface Investigation Report for the Cypress Cleaners site at 3813 South 108th Street, Greenfield, Wisconsin.

The property at 3813 South 108th Street is a retail strip mall located along the south side of West Beloit Road at the South 108th Street intersection. Cypress Cleaners is a business in the strip mall and is the northernmost tenant. Proposed improvements at the site include pavement reconditioning with excavations to approximately 1 to 2 feet. Storm sewer inlets and laterals will be replaced with excavation depths to approximately 4 to 6 feet. A strip of fee right-of-way will be acquired at the northeast corner of the site and acquisition of temporary limited easement is planned for the site's two driveways on West Beloit Road.

The Phase 2 investigation identified no soil contamination at concentrations exceeding NR720 Residual Contaminant Levels (RCLs). No further investigation is recommended.

Please refer to the enclosed Phase 1 Hazardous Materials Assessment report for specific information supporting the recommendation. If you have questions, please call me at 608-251-4843.

Sincerely,

STRAND ASSOCIATES, INC.®

Luke T. Hellermann, P.G.

Enclosure: Phase 2 Subsurface Investigation at Cypress Cleaners

c: Bhupendra Bista, P.E., Strand Associates, Inc.®
Robert Knackert, Property Owner (3813 South 108th Street)

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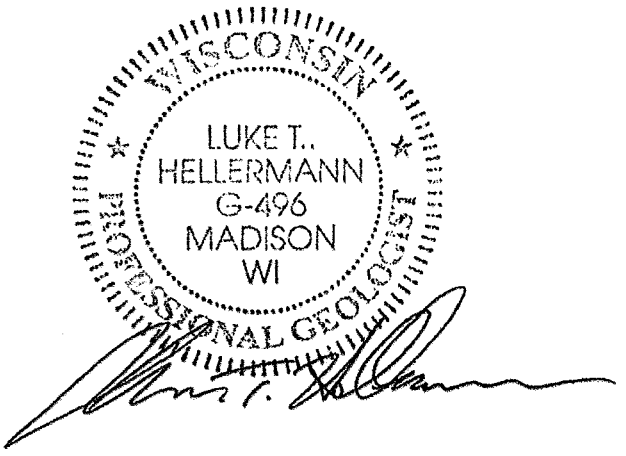
Report for
Milwaukee County Department of Transportation

West Beloit Road (CTH T),
South 124th Street to South Wollmer Road
Milwaukee County, Wisconsin
Project No. WH110011

Phase 2 Subsurface Investigation at Cypress Cleaners

9/3/2021



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126 N. Jefferson Street, Suite 350
Milwaukee, WI 53202
www.strand.com

September 2021

STRAND ASSOCIATES®

TABLE OF CONTENTS

EXECUTIVE SUMMARY

PURPOSE AND SCOPE

Milwaukee County is planning to improve the pavement, and pedestrian and bicycle accommodations along the West Beloit Road project corridor in the City of Greenfield, Milwaukee County, Wisconsin. The project limits extend from South 124th Street to South Wollmer Road.

This Phase 2 Subsurface Investigation report presents the findings of the subsurface investigation completed to determine if soil contamination might be present within the limits of planned construction near the Cypress Cleaners site at 3813 South 108th Street. Based on the reported release of contamination at the site and preliminary construction plans, the scope of this Phase 2 investigation included the sampling and abandonment of three soil borings, collection and field-screening of soil samples with a photoionization detector (PID), and laboratory analysis of soil samples for chlorinated solvent contamination.

INVESTIGATION RESULTS

No odors were observed, but elevated PID readings were recorded at borings SB-1 and SB-2. Laboratory analysis found no contaminants at concentrations exceeding the Wisconsin Administrative Code NR 720 direct contact Residual Contaminant Levels (RCLs) or NR 720 RCLs that are protective of groundwater.

CONCLUSIONS AND RECOMMENDATIONS

No soil contamination was detected in the soil samples collected from the area of proposed fee right-of-way (R/W) acquisition. No contaminant concentrations exceeding NR 720 RCLs were detected in soil samples collected along the north side of the site near the driveway entrances where easements are needed. Based on the results of the Phase 2 Investigation and the current knowledge of preliminary construction plans and project timing, no further investigation is recommended at this time.

SECTION 1
INTRODUCTION

1.01 BACKGROUND

Strand Associates, Inc.® (Strand) completed a Phase 2 Subsurface Investigation in July 2021 at Cypress Cleaners, 3813 South 108th Street, Greenfield, Milwaukee County, Wisconsin. The investigation was part of the West Beloit Road project, Project No. WH010061. Milwaukee County retained Strand to complete the Phase 2 investigation.

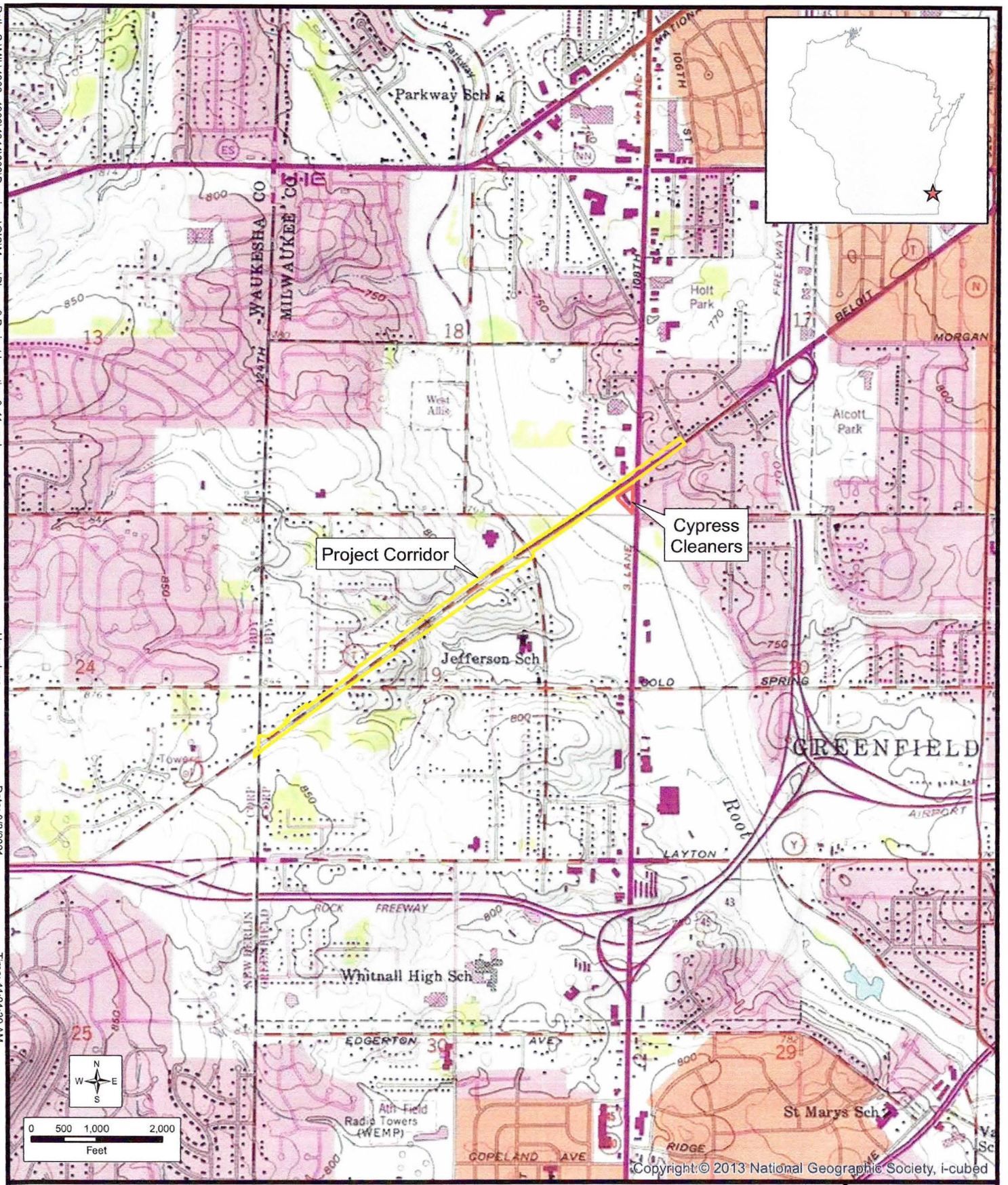
The property is a retail strip mall property along the south side of West Beloit Road at the southwest quadrant of the intersection of West Beloit Road and South 108th Street. Cypress Cleaners is an active business in the strip mall and is the northernmost tenant of the building complex constructed in the 1980s. The property is listed in the Wisconsin Department of Natural Resources (WDNR) database of contaminated sites. In the database, Cypress Cleaners is an open Environmental Repair Program (ERP) activity with a reported release of chlorinated solvents and petroleum. The release was reported August 29, 2008, but no additional details about the release have been obtained and the WDNR was unable to locate and provide any records.

The WDNR database provides the latitude and longitude location for the ERP activity, which places it at the northwest corner of the site, near the intersection and planned right-of-way (R/W) acquisition, rather than at the current location of the dry cleaner business in the existing building. Historical aerials from 1951 to 1985 appeared to show a potential automotive service facility, potential gasoline station, or remnant of farm operations in the central portion of the site, but there are no petroleum tanks registered to the site. The former building was 215 feet west of the intersection and 85 feet south of the centerline of old West Beloit Road. The strip mall was first evident in the 1990 aerial. The site visit identified no indications of soil borings or excavations. Site background data from the Phase 1 Hazardous Material Assessment and site photographs are included in Appendix B.

1.02 PURPOSE AND SCOPE

Milwaukee County is planning to improve the pavement and pedestrian and bicycle accommodations along the West Beloit Road project corridor. The existing pavement structure is in poor condition and the proposed improvements will include pavement reconditioning with subgrade improvements consisting of grading, shaping, and compacting. Other planned improvements include adding or lengthening turn lanes, signal upgrades, adding on-street bicycle accommodations, pavement marking, re-grading ditches, culvert and storm sewer upgrades, and addition of sidewalk. The proposed roadway section will provide 11- to 12-foot travel lanes with 5- to 6-foot bike lanes and sidewalk on both sides of the roadway. Some storm sewer inlets, laterals, and culverts will be replaced, and some ditches will be regraded. Figure 1.01-1 shows the project corridor and the location of Cypress Cleaners. Preliminary design plan sheets are provided as Appendix A.

This Phase 2 investigation report presents the findings of the subsurface investigation completed to determine if soil contamination might be present within the limits of planned construction near the Cypress Cleaners site at 3813 South 108th Street. Based on the reported release of contamination at the site, the lack of data related to the reported release, and preliminary construction plans, the scope of this Phase 2 investigation included the following:



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PROJECT LOCATION MAP

PHASE 2 SUBSURFACE INVESTIGATION

PROJECT NO. WH110011

CYPRESS CLEANERS

3813 S. 108TH STREET, GREENFIELD

MILWAUKEE COUNTY, WISCONSIN

STRAND ASSOCIATES

FIGURE 1.01-1

4344.003

1. Sampling and abandonment of three soil borings to depths of 9 to 10 feet.

2. Collection and field-screening of soil samples with a photoionization detector (PID).

3. Laboratory analysis of two soil samples from each boring for volatile organic compounds (VOCs).

The investigation was conducted in general accordance with the Wisconsin Department of Transportation Policy and Procedure for Contaminated Site Assessment and Remediation, Chapter 21, Section 35, Subject 10: Phase 2 Subsurface Investigation, of the Facilities Development Manual.

The findings of the Phase 2 investigation and recommendations are provided in the following sections.

1.03 DEFINITIONS

The following abbreviations and terms are used in this report:

µg/kg	micrograms per kilogram
CTH	County Trunk Highway
DRO	diesel range organics
ERP	Environmental Repair Program
GRO	gasoline range organics
mg/kg	milligram per kilogram
PID	photoionization detector
PLE	permanent limited easement
R/W	right-of-way
RCL	residual contaminant level
Strand	Strand Associates, Inc.®
TLE	temporary limited easement
VOC	volatile organic compound
WAC	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation

SECTION 2
INVESTIGATION

2.01 INVESTIGATION AND FIELD OBSERVATIONS

Boring locations were selected based on previous environmental investigation data. and the preliminary construction plans and field observations. Borings were advanced to 2 feet beyond the anticipated maximum depth of planned construction excavation, which was 9 to 10 feet at each boring. Groundwater was not encountered, and groundwater samples were not collected as part of this investigation. The boring locations are shown on Figure 2.01-1.

2.02 SOIL SCREENING AND ANALYTICAL RESULTS

Soil samples were collected continuously for field description and field screening with a PID. The PID used was equipped with an 11.7 electron-volt lamp for chlorinated solvent detection and the readings are summarized on the boring logs in Appendix C. No odors were observed, but elevated PID readings (readings greater than 10 instrument units) were recorded at borings SB-1 and SB-2. The readings at SB-1 ranged from 6.5 to 13.6 instrument units. The readings at SB-2 ranged from 12 to 23.4 instrument units.

Two soil samples, the samples with the highest PID readings, were selected from each boring for laboratory analysis. Selected soil samples were analyzed for VOCs. A waste characterization sample was also collected and analyzed for toxicity characteristic leaching procedure VOCs, pH, free liquids, and flash point. The waste characterization analyses were completed to assist in obtaining landfill approval for soil waste disposal, if warranted.

Laboratory analysis found no contaminants at concentrations exceeding the Wisconsin Administrative Code NR 720 direct contact Residual Contaminant Levels (RCLs) or NR 720 RCLs that are protective of groundwater. Soil sample analytical results are summarized in Table 2.02-1 and the laboratory report is provided as Appendix D.

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FIGURE 2.01-1
4344.003

SITE MAP AND BORING LOCATIONS
PHASE 2 SUBSURFACE INVESTIGATION
PROJECT NO. WH110011
CYPRESS CLEANERS
3813 S. 108TH STREET, GREENFIELD
MILWAUKEE COUNTY, WISCONSIN

Table 2.02-1 Soil Analytical Results

	NR 720 RCLs				Sample ID, Sample Depth (feet), Soil Type					
					SB-1	SB-1	SB-2	SB-2	SB-3	SB-3
					5 to 7 feet	8 to 10 feet	3 to 5 feet	6 to 9 feet	5 to 8 feet	8 to 10 feet
	Industrial Site Direct Contact Standard	Non-Industrial Site Direct Contact Standard	Groundwater Pathway	Backgroun d Threshold Value	Silty CLAY	Silty CLAY to CLAY	Silty CLAY	SILT	Fine SAND	Fine SAND to Silty SAND
VOCs, detected (ug/kg)										
1,2,4-Trimethylbenzene	219,000	219,000	1,378.7	--	ND	ND	67 J	ND	ND	ND
Xylenes, total	260,000	260,000	3,960	--	ND	ND	30 J	ND	ND	ND
TCLP VOCs, detected (ug/L)										
					--	--	ND	--	--	--
pH	--	--	--	--	--	--	8.2	--	--	--
Total Solids (%)	--	--	--	--	--	--	88	--	--	--
Free Liquid (pass/fail)	--	--	--	--	--	--	Pass	--	--	--
Flash Point (degrees F)	--	--	--	--	--	--	>176	--	--	--

Samples were collected July 9, 2021.

Bold/Boxed - Exceeds NR720 industrial site direct contact standard

Boxed Value - Exceeds NR720 non-industrial site direct contact standard

Underlined Value - Exceeds NR720 standard for protectionof groundwater

TCLP - Toxicity characteristic leaching procedure

VOCs - Volatile organic compounds

-- - No standard or not analyzed for this compound

mg/kg - Milligrams per kilogram

ug/kg - Micrograms per kilogram

ug/L - Micrograms per liter

ND - Not detected above laboratory detection limit

NA - Not analyzed for this parameter

J Flag - Result is less than the reporting limit but greater than the detection limit and the reported concentration is approximate.

SECTION 3
CONCLUSIONS AND RECOMMENDATIONS

3.01 CONCLUSIONS

No odors were observed, but some elevated PID readings were recorded at borings SB-1 and SB-2. Laboratory analysis found no contaminants at concentrations exceeding the Wisconsin Administrative Code NR 720 direct contact RCLs or NR 720 RCLs that are protective of groundwater. No soil contamination was detected in the soil samples collected from the area of proposed fee R/W acquisition. No contaminant concentrations exceeding NR 720 RCLs were detected in soil samples collected along the north side of the site near the driveway entrances where easements are needed.

3.02 RECOMMENDATIONS

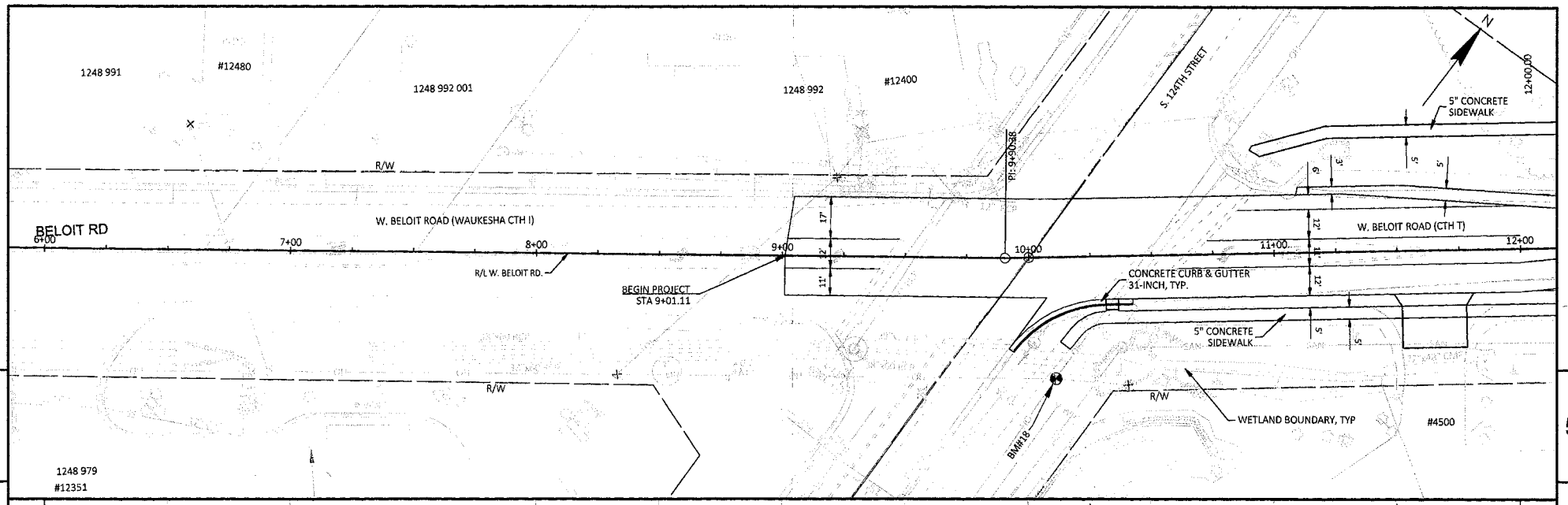
Based on the results of the Phase 2 investigation and the current knowledge of preliminary construction plans and project timing, no further investigation is recommended at this time.

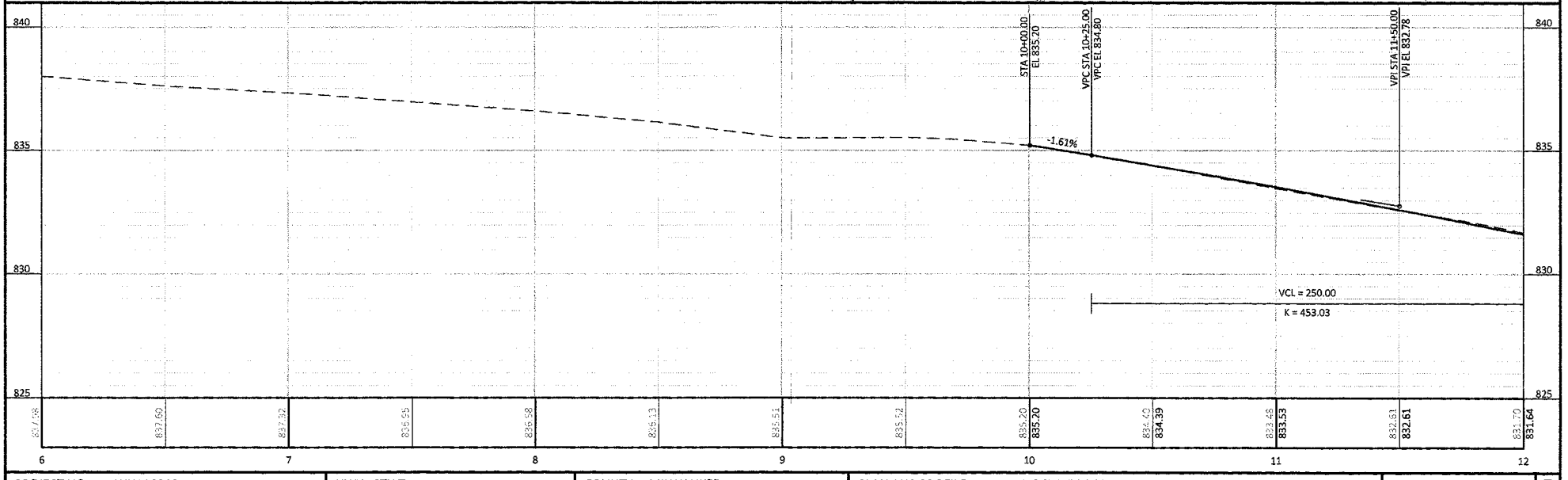
SECTION 4
LIMITATIONS

4.01 LIMITATIONS

This Phase 2 investigation was prepared by Strand for use by Milwaukee County and WisDOT and was conducted in accordance with generally accepted standards of practice. This Phase 2 investigation was conducted for assessing potential environmental concerns within the existing and proposed R/W for the West Beloit Road (CTH T), South 124th Street to South Wollmer Road project (Project No. WH110011). Any reliance on this report by a party other than Milwaukee County and WisDOT shall be at such party's sole risk. This investigation was based on limited observation and soil sampling. The information, recommendations, and conclusions provided herein apply only to the subject property as it existed during Strand's site investigation. Should land use or conditions change, information, conclusions, and recommendations herein no longer apply.

APPENDIX A
PRELIMINARY CONSTRUCTION PLANS





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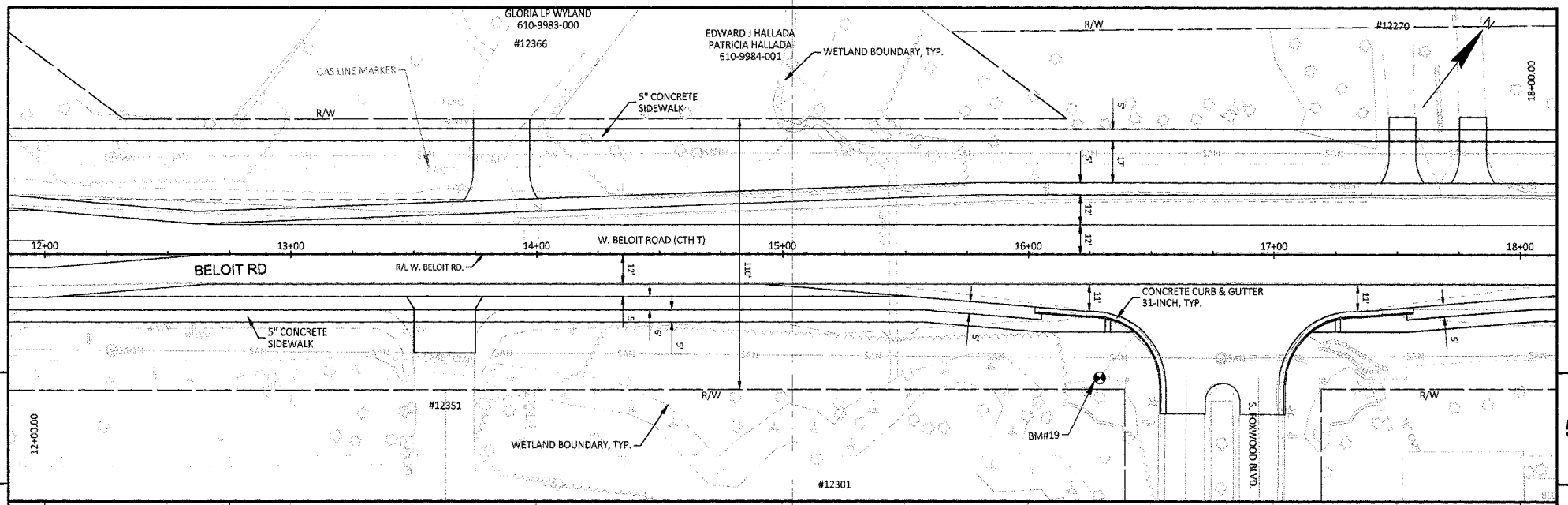

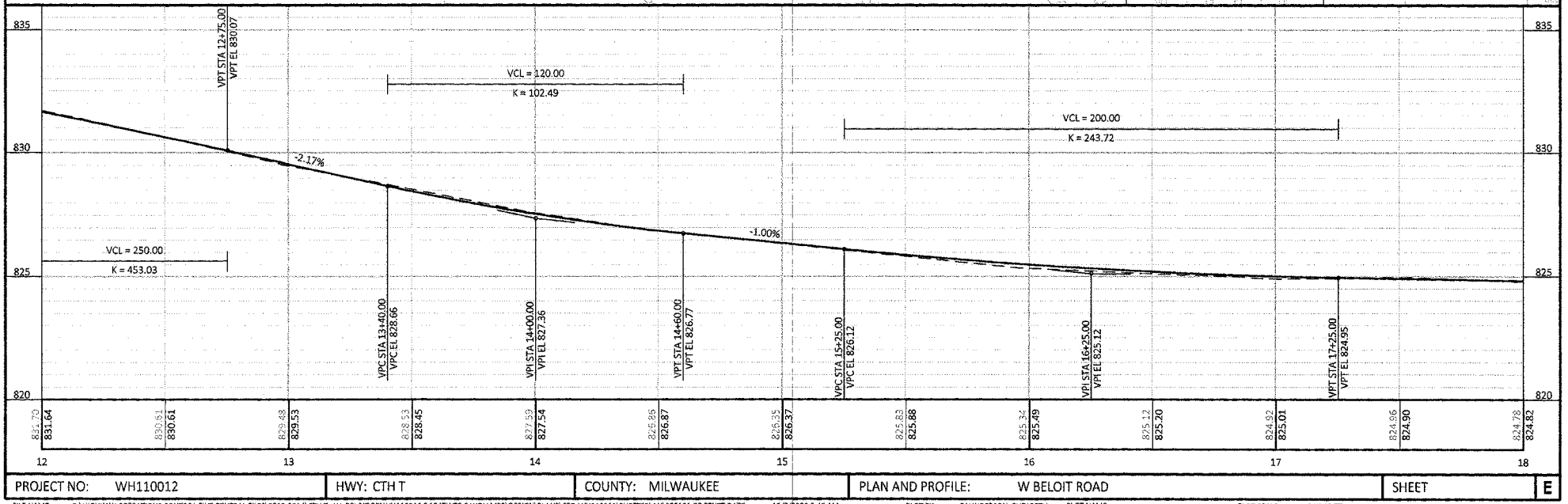

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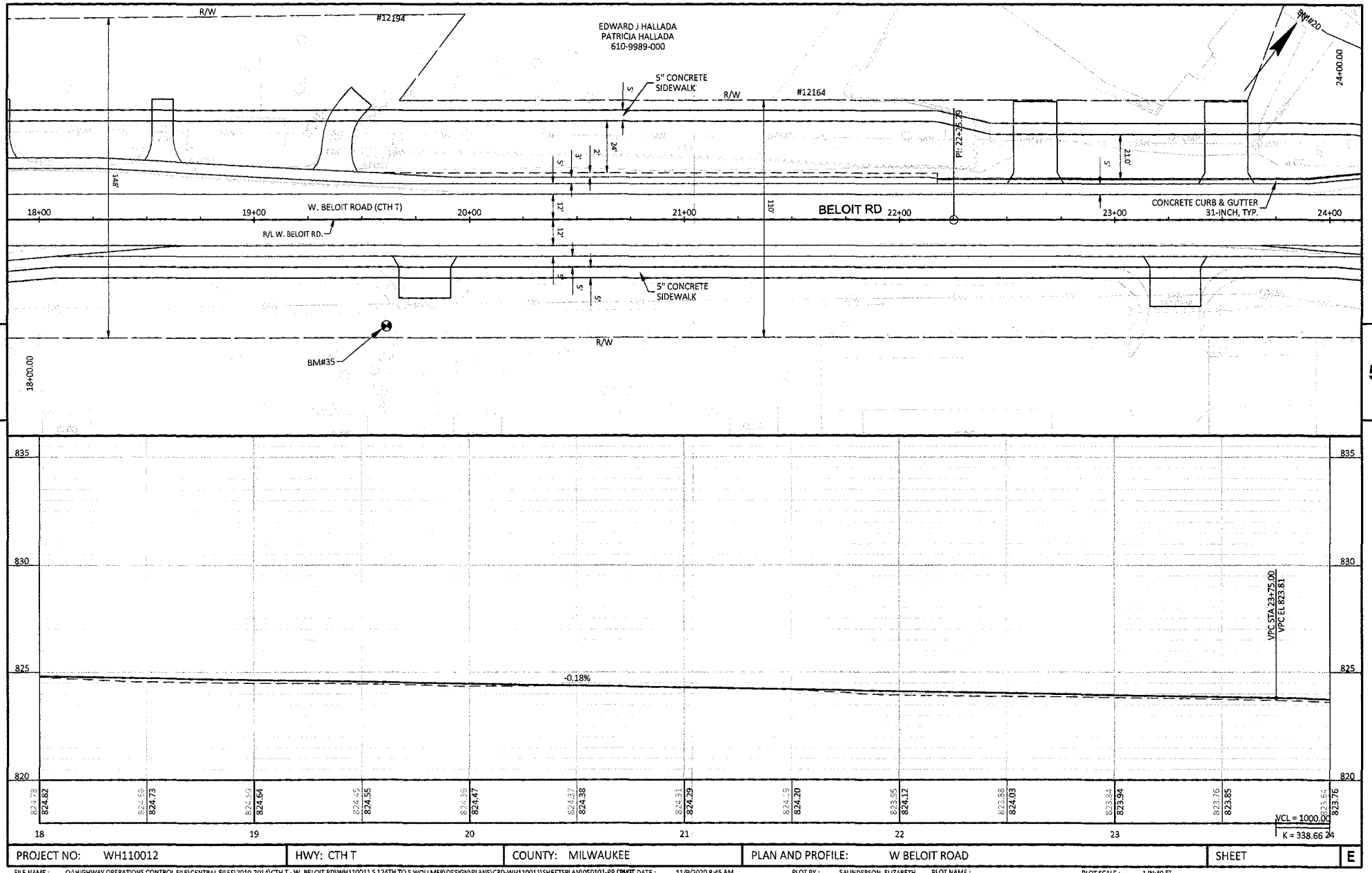

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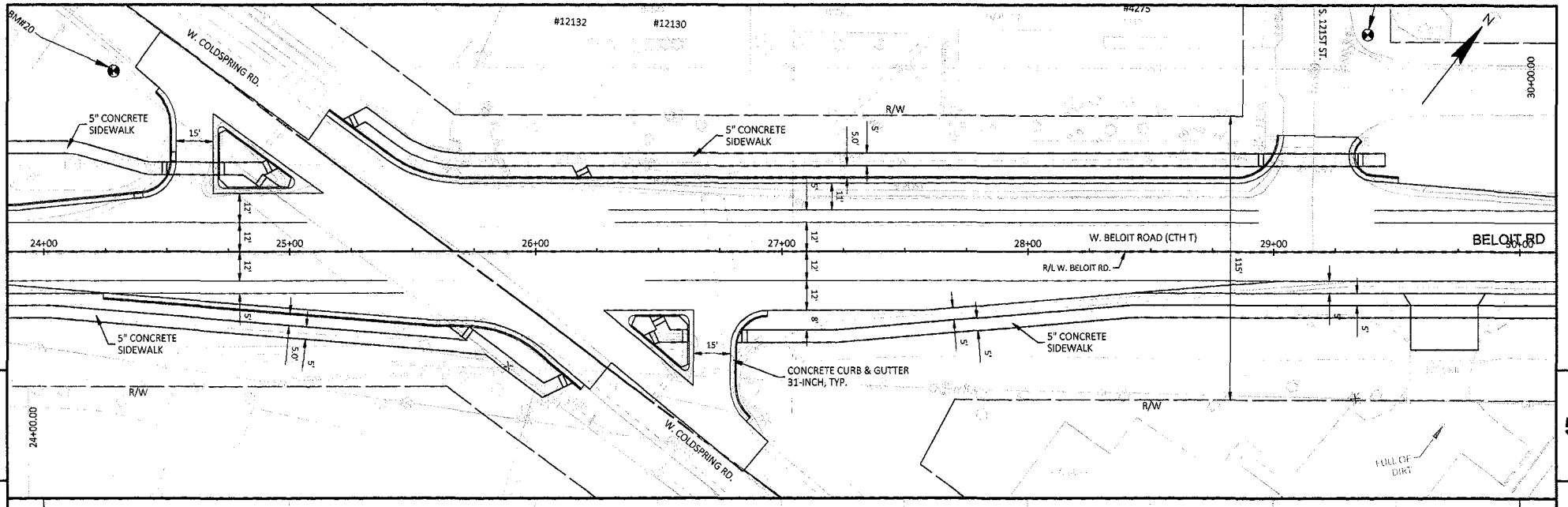

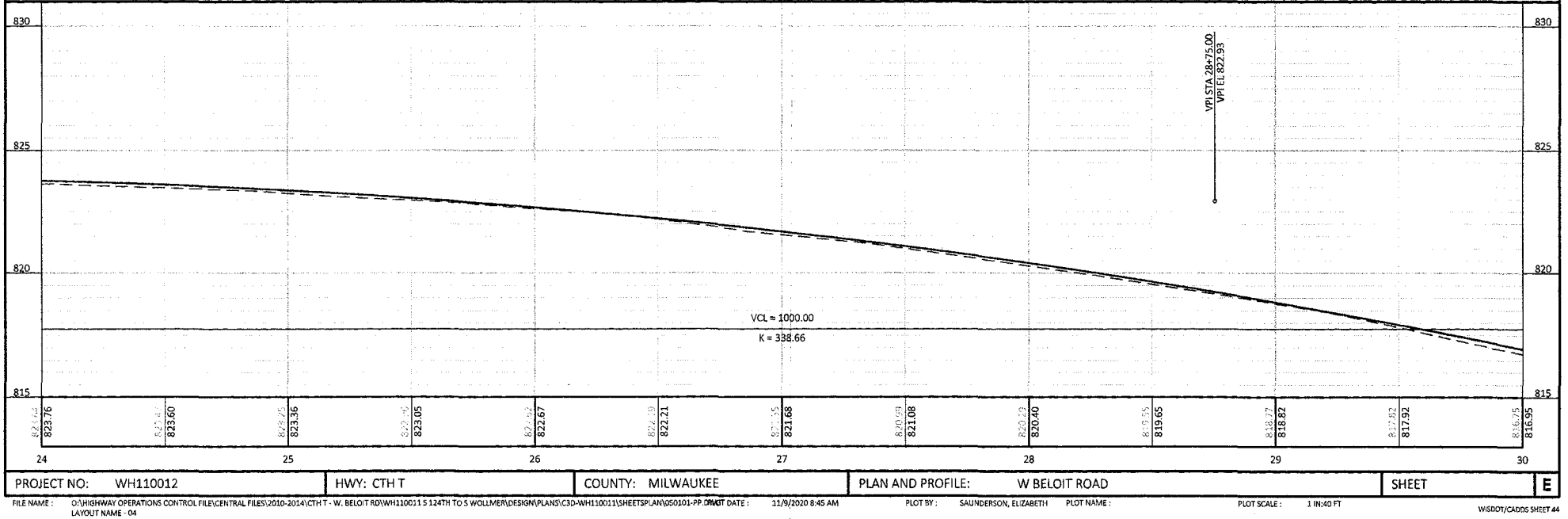

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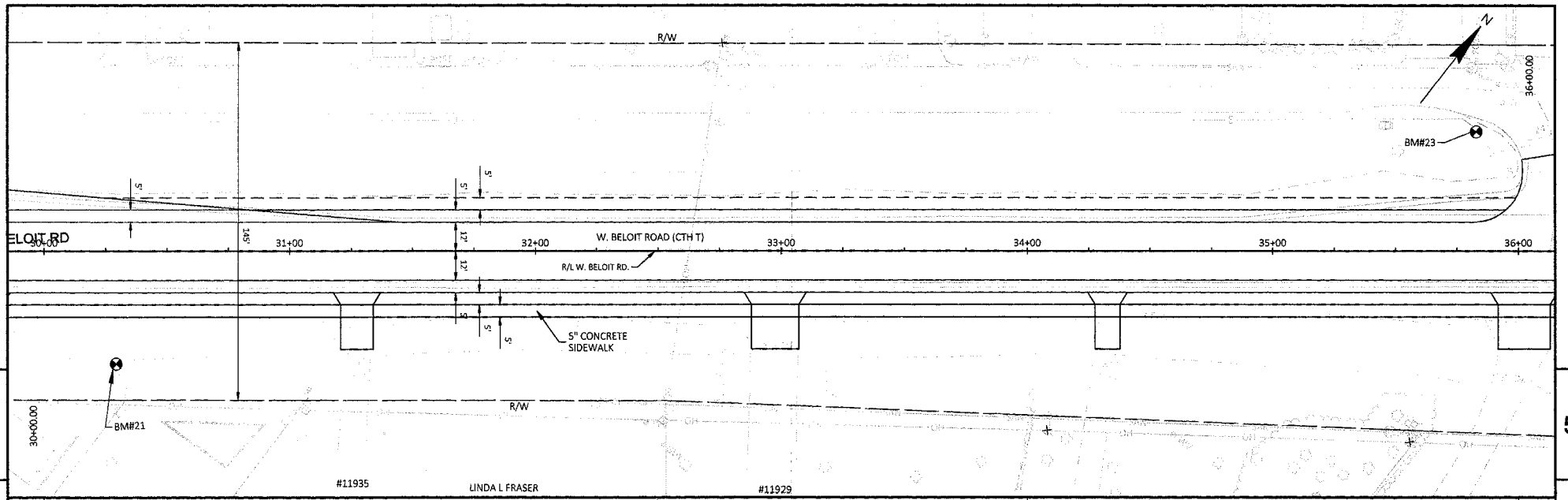

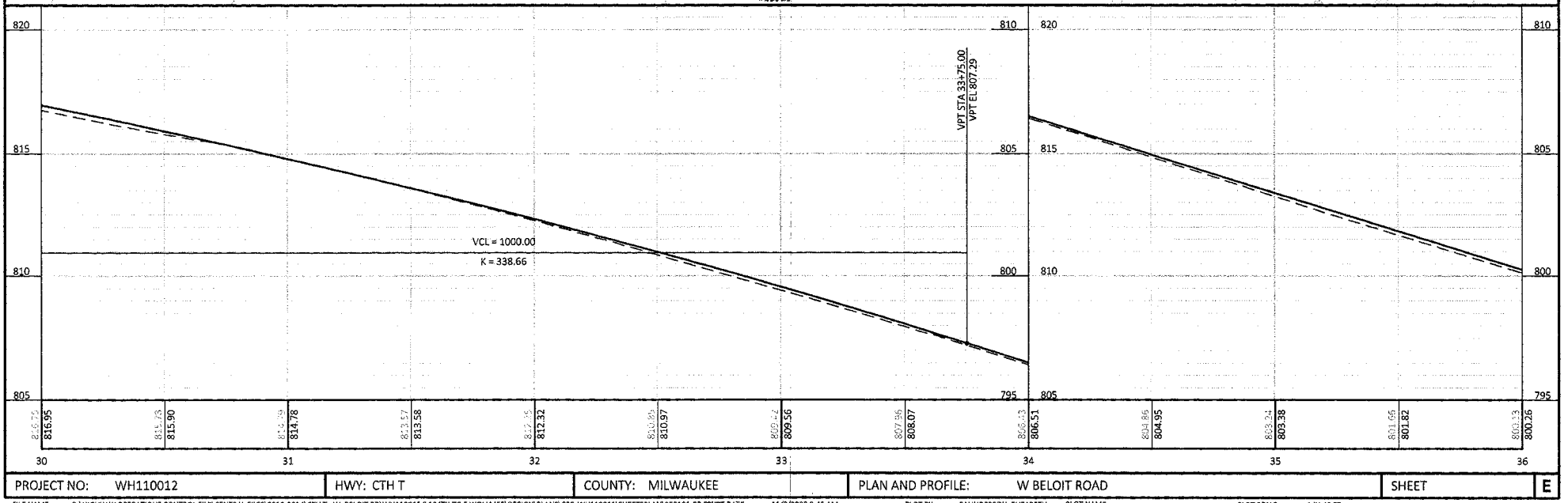

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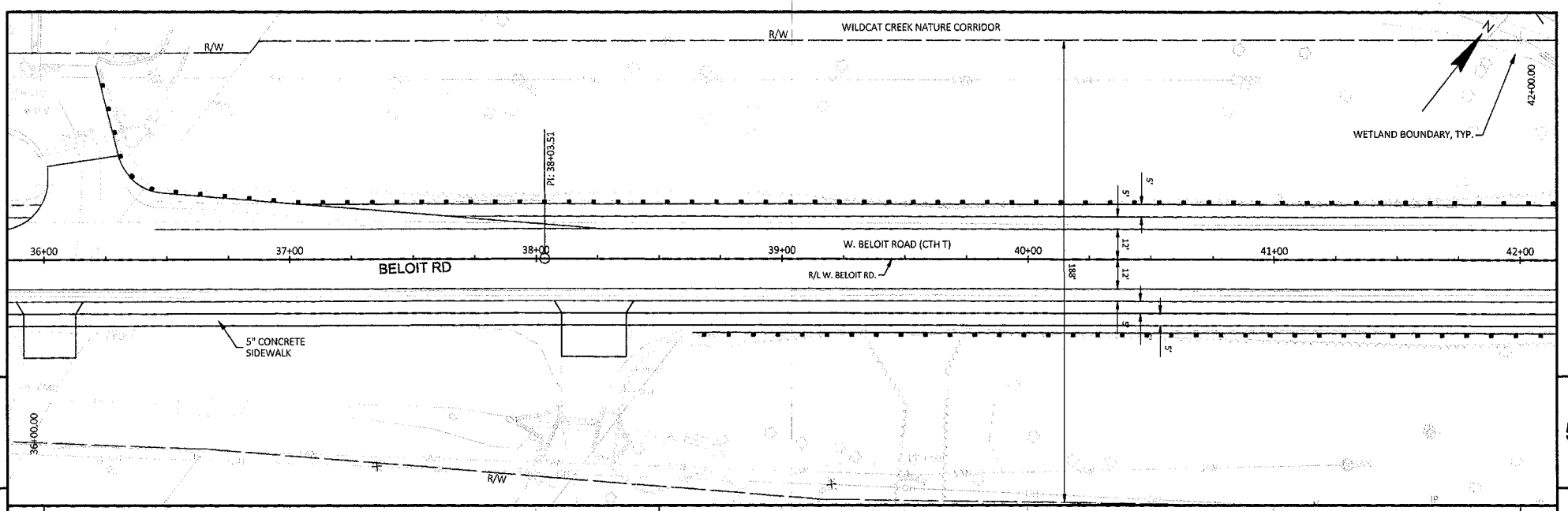

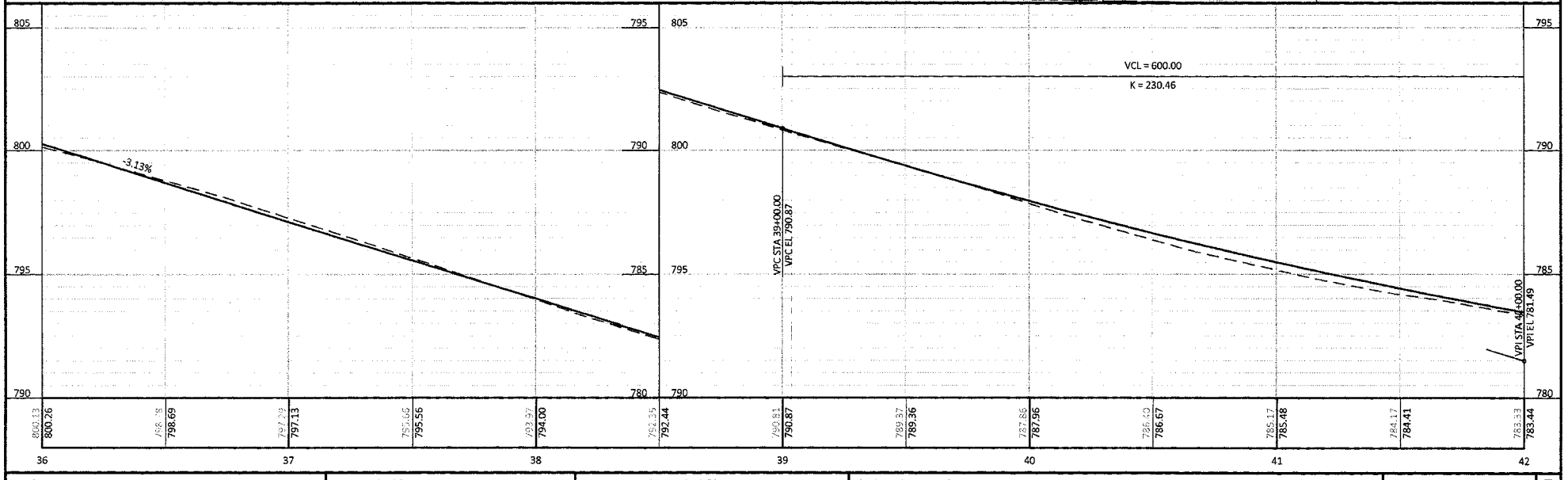

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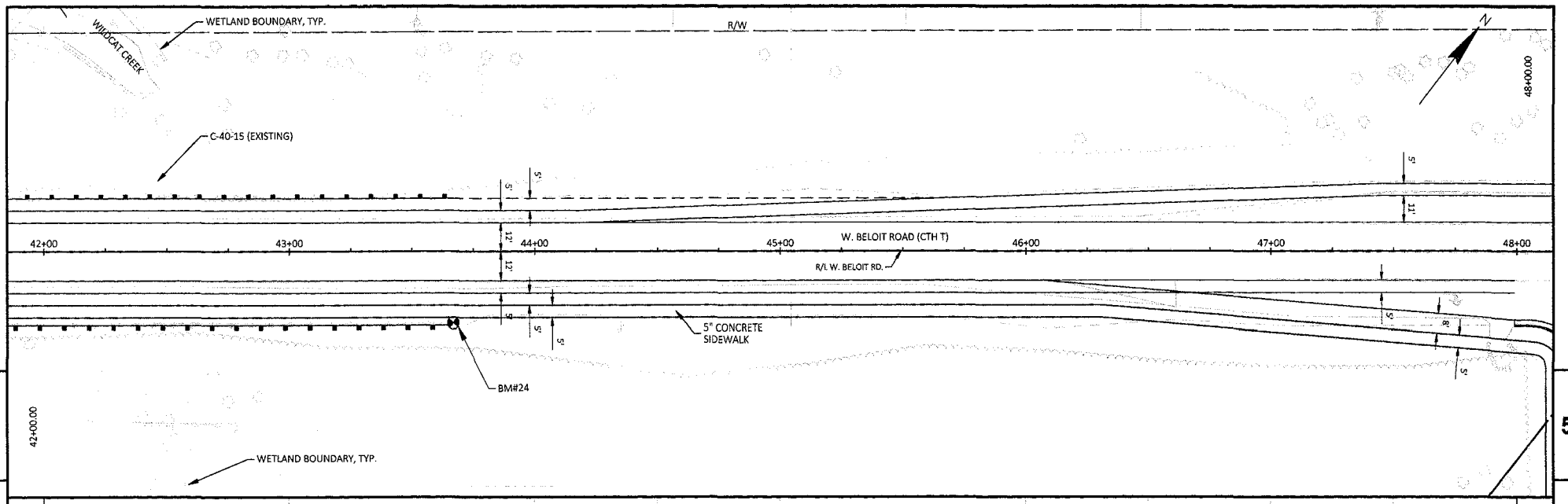

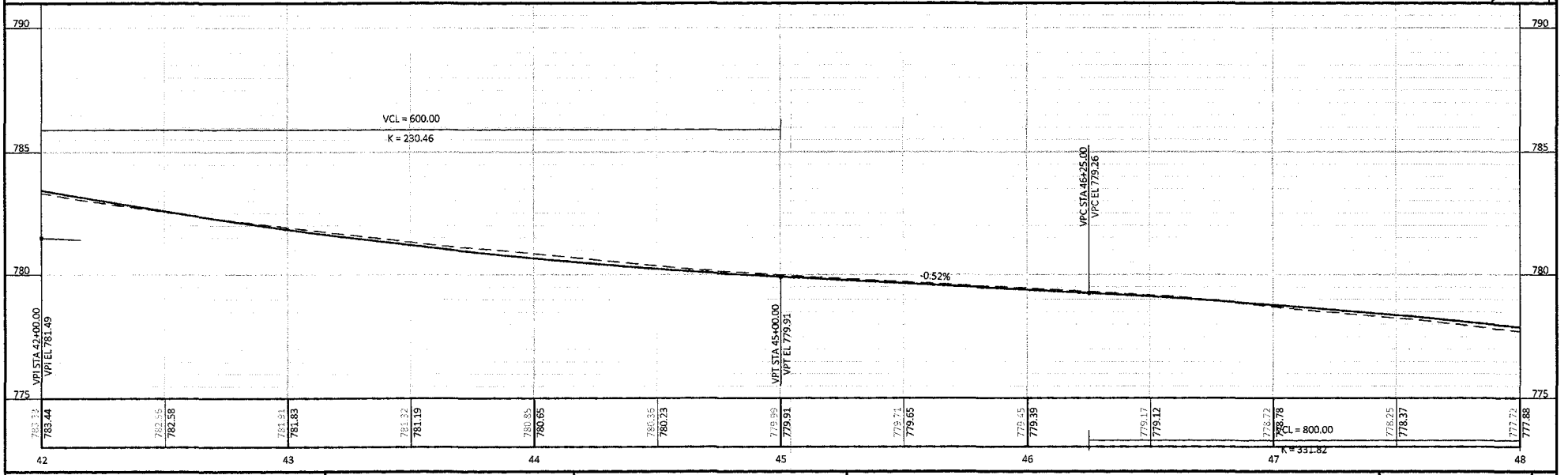

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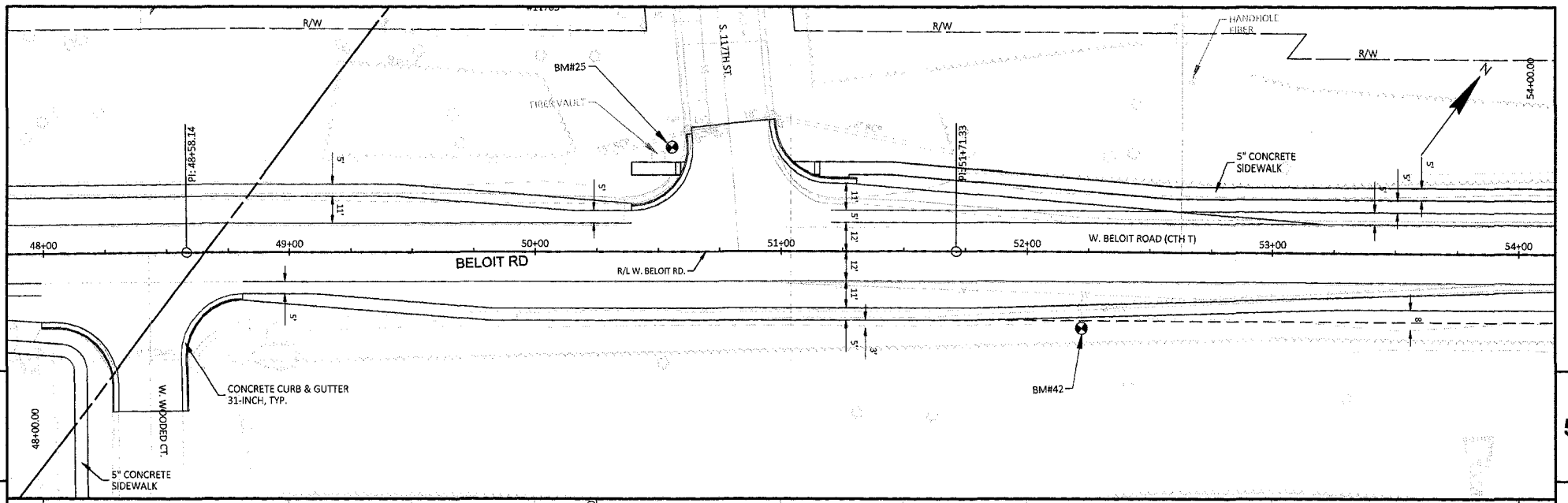

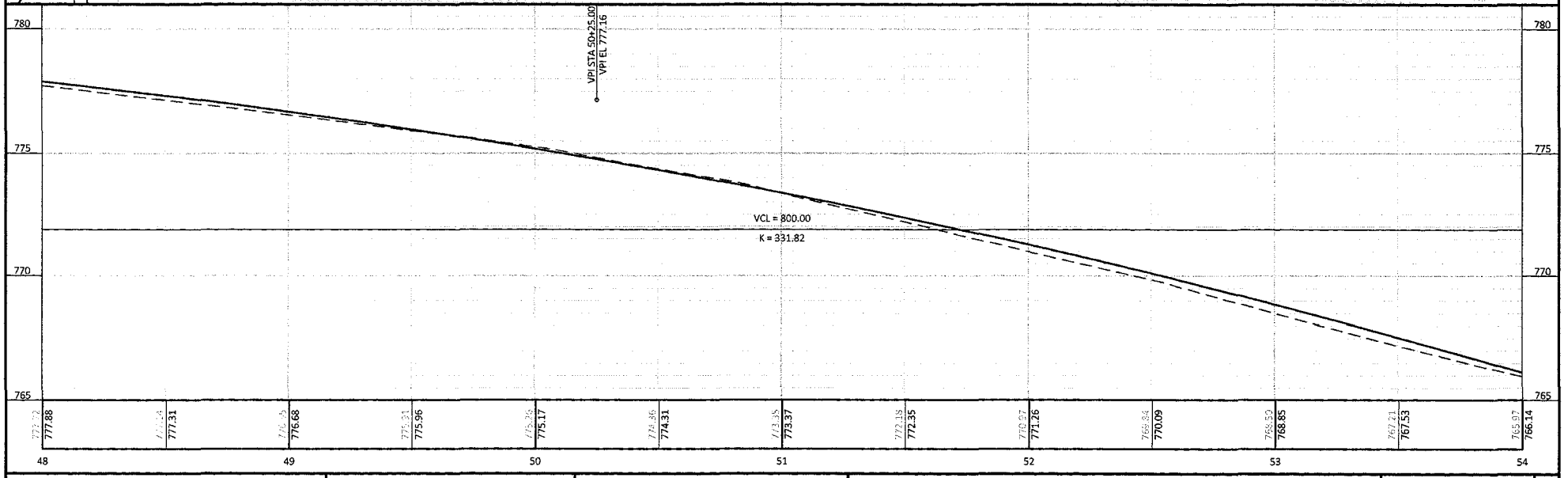

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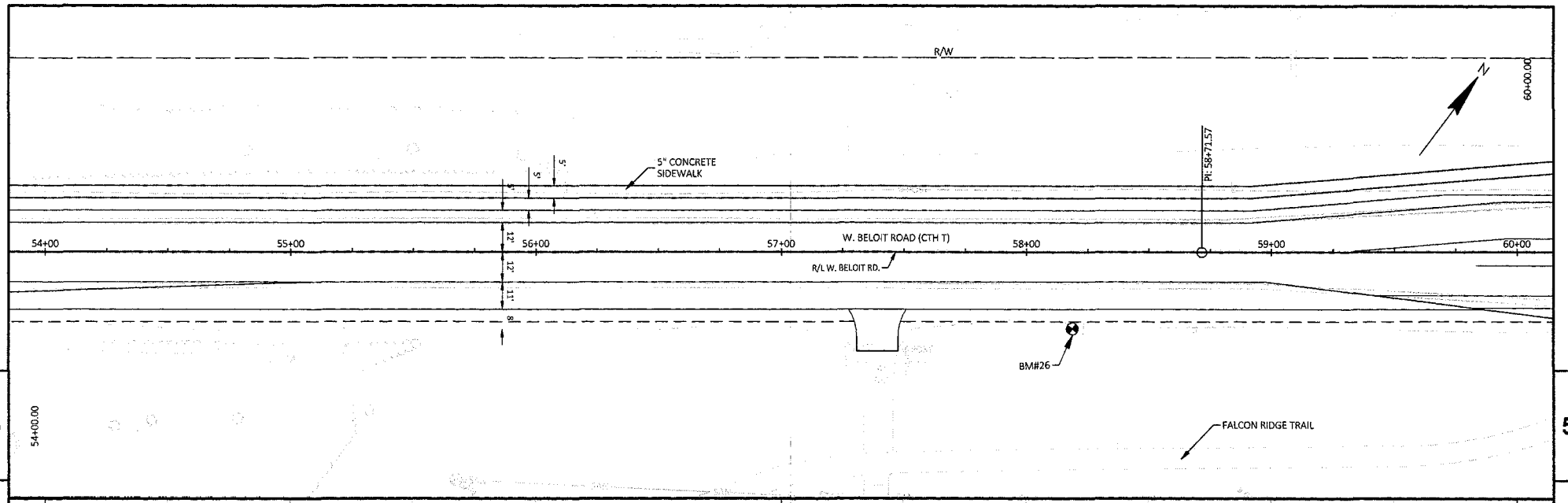

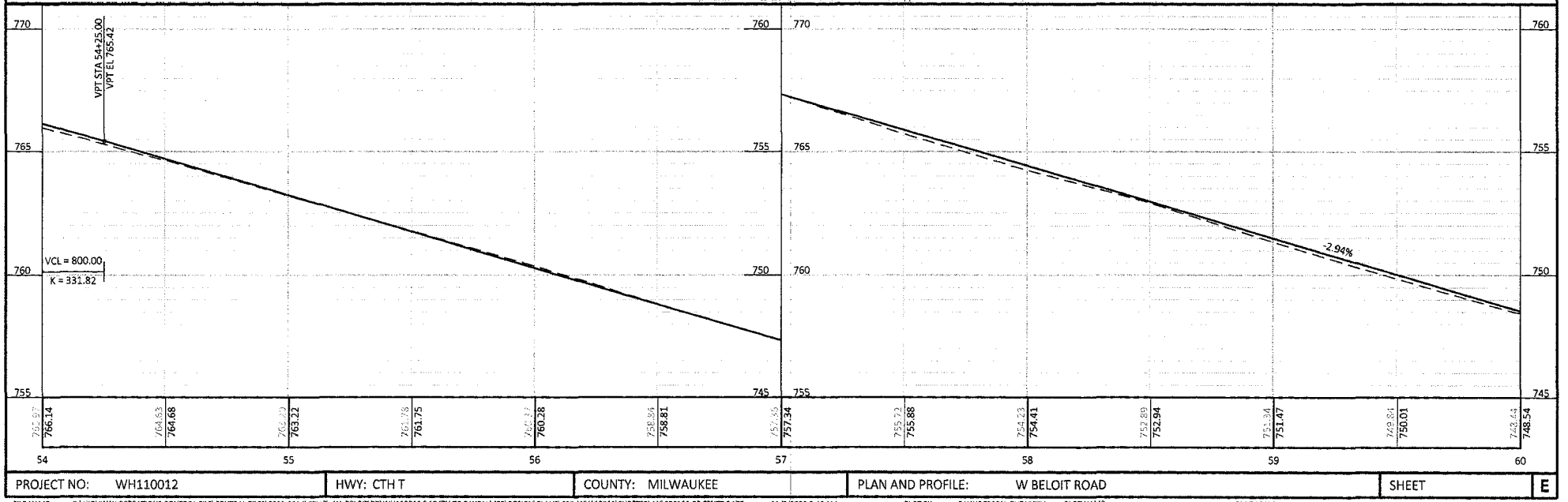

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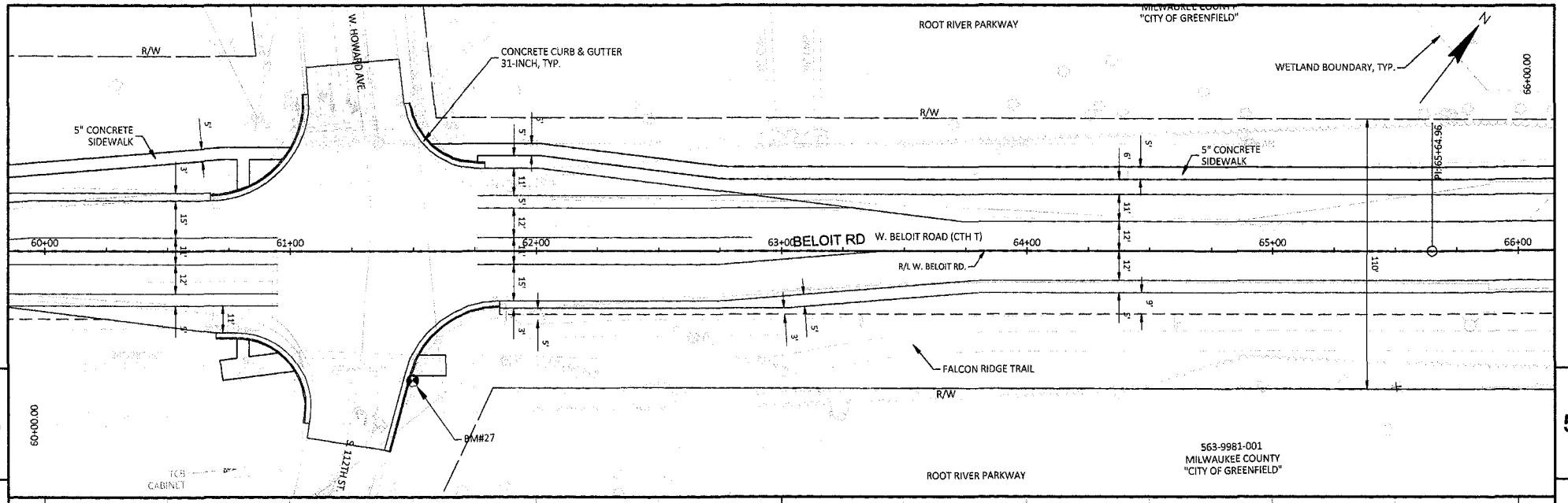

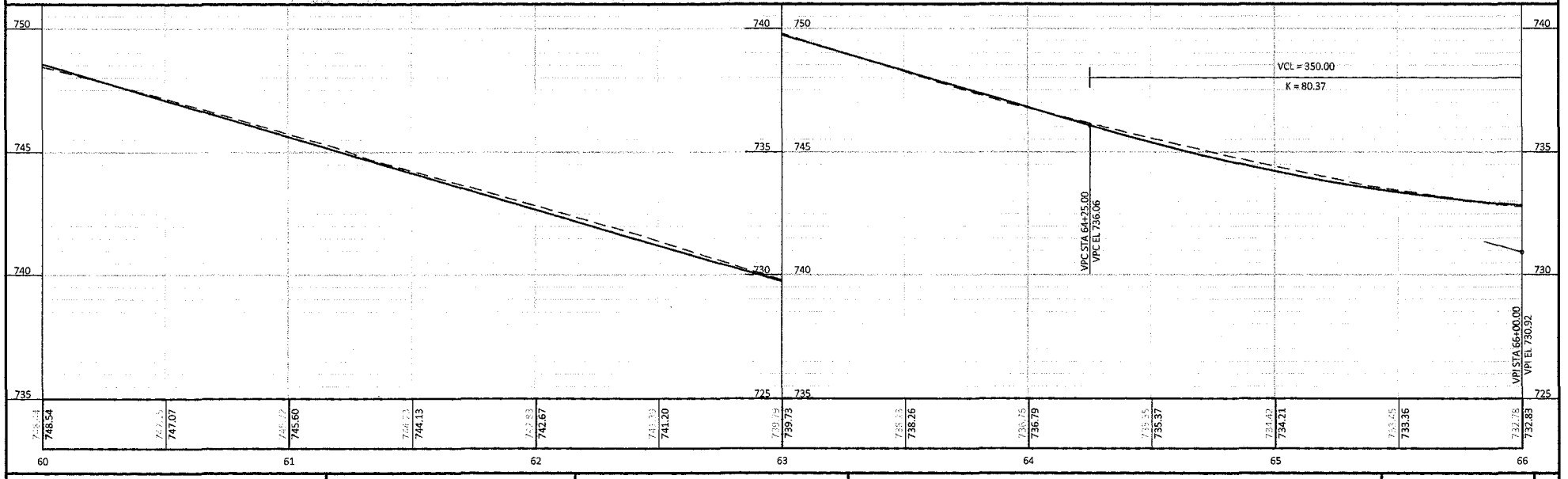

PROJECT NO: WH110012	HWY: CTH T	COUNTY: MILWAUKEE	PLAN AND PROFILE: W BELOIT ROAD	SHEET E

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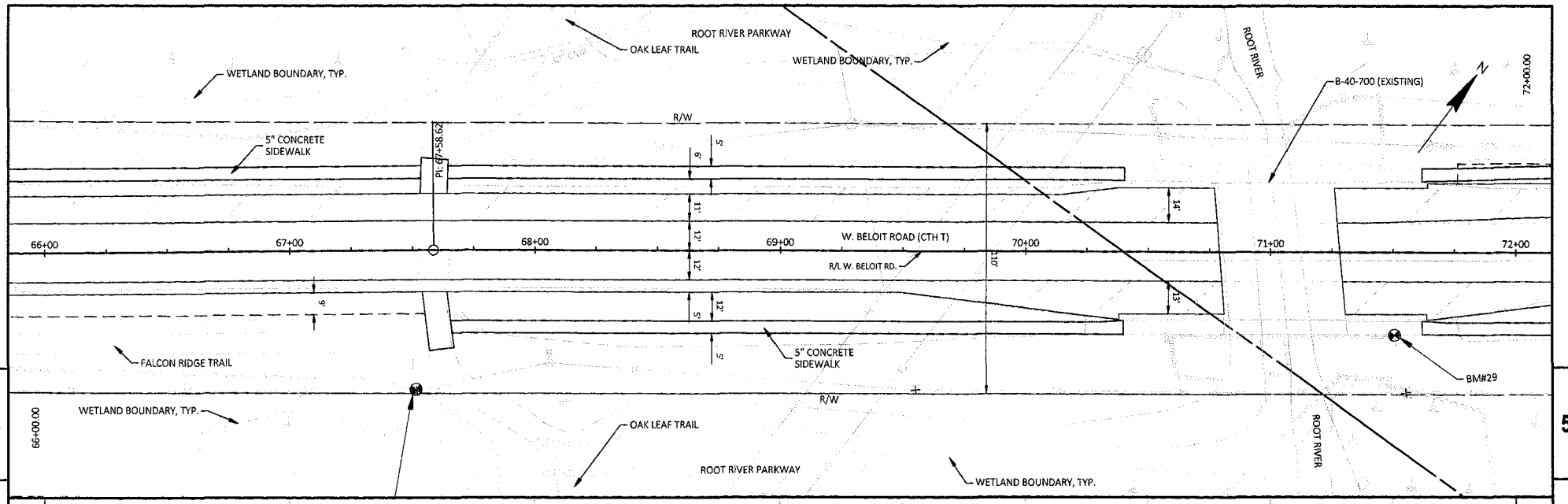
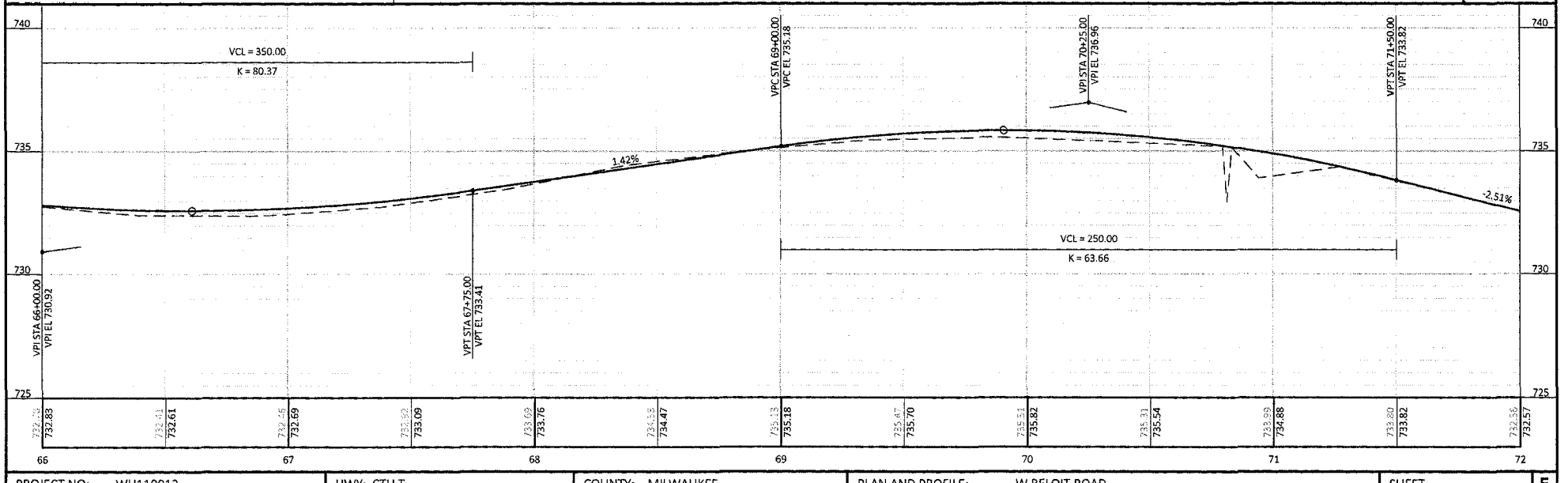
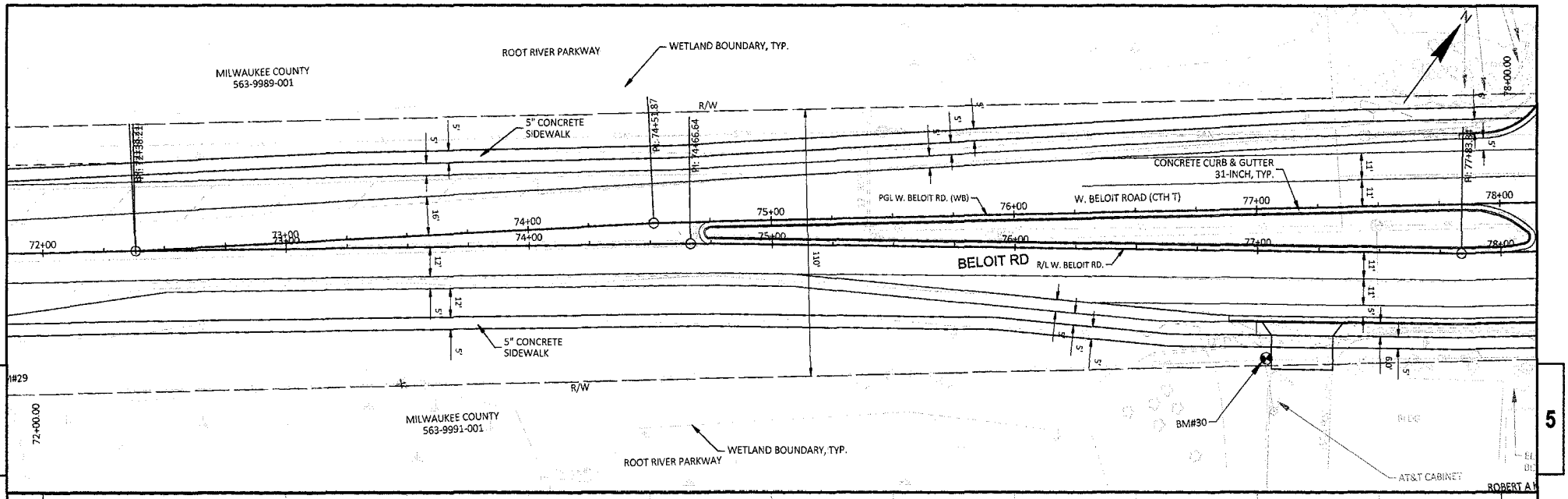
WISDOT/CADDS SHEET 44

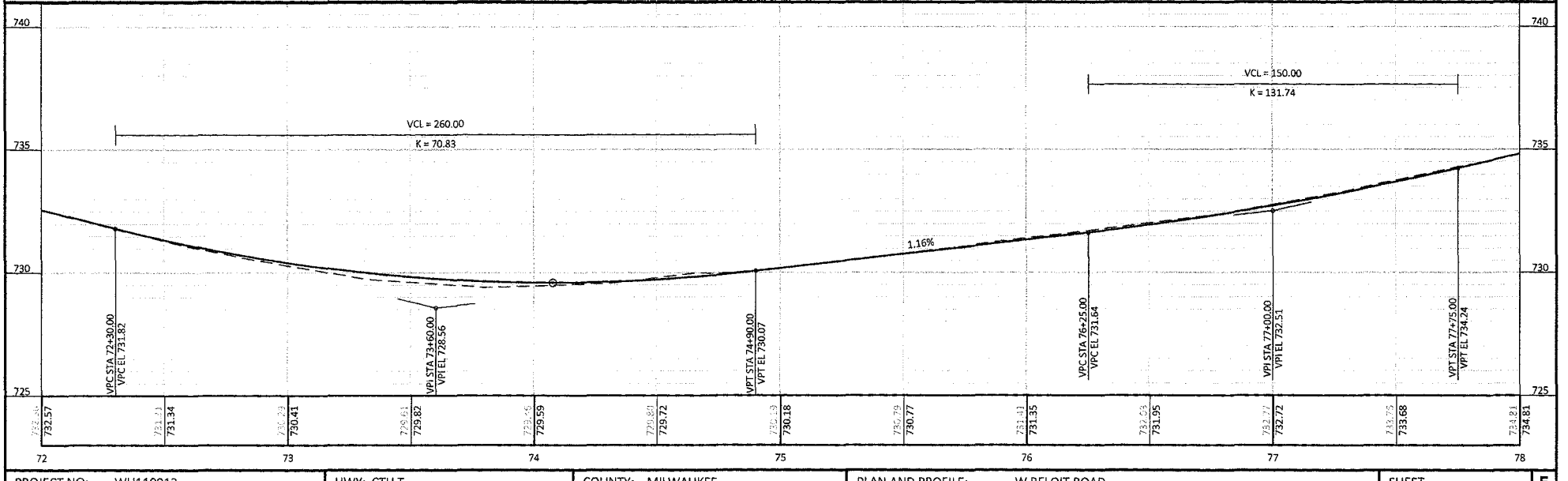




PROJECT NO: WH110012	HWY: CTH T	COUNTY: MILWAUKEE	PLAN AND PROFILE: W BELOIT ROAD	SHEET	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH T - W. BELOIT RD\WH110011 S 124TH TO S WOLLMER\DESIGN\PLANS\C3D-WH110011\SHEETSPLAN\050101-PP.DWG LAYOUT NAME - 11 PLOT DATE : 11/9/2020 8:46 AM PLOT BY : SAUNDERSON, ELIZABETH PLOT NAME : PLOT SCALE : 1 IN:40 FT



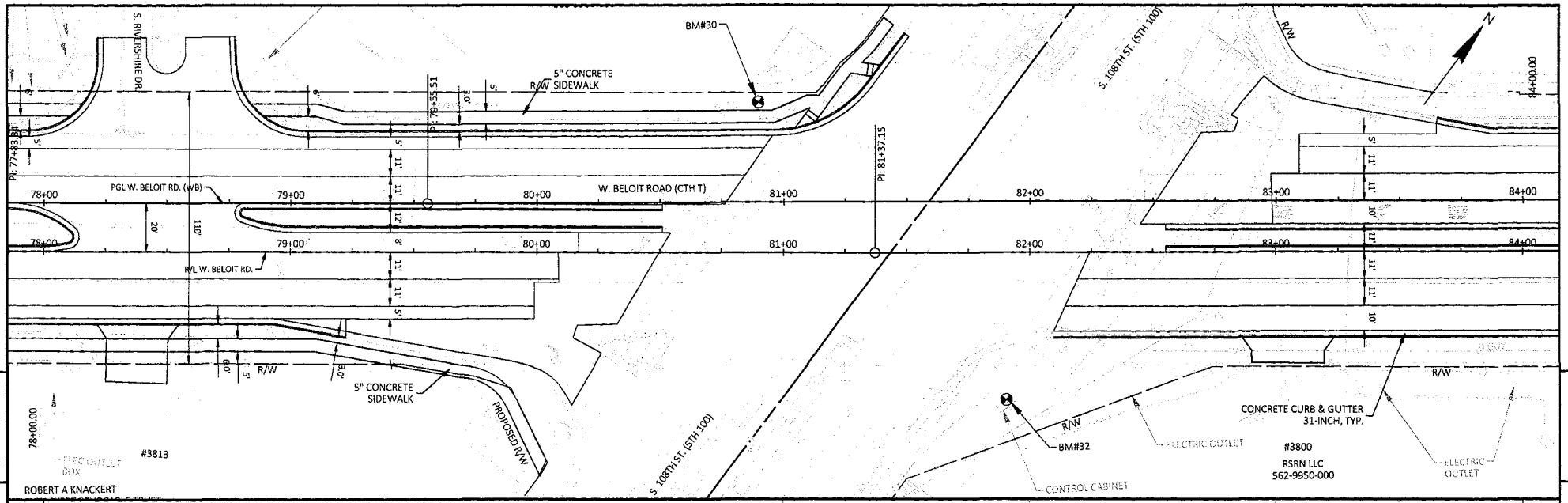


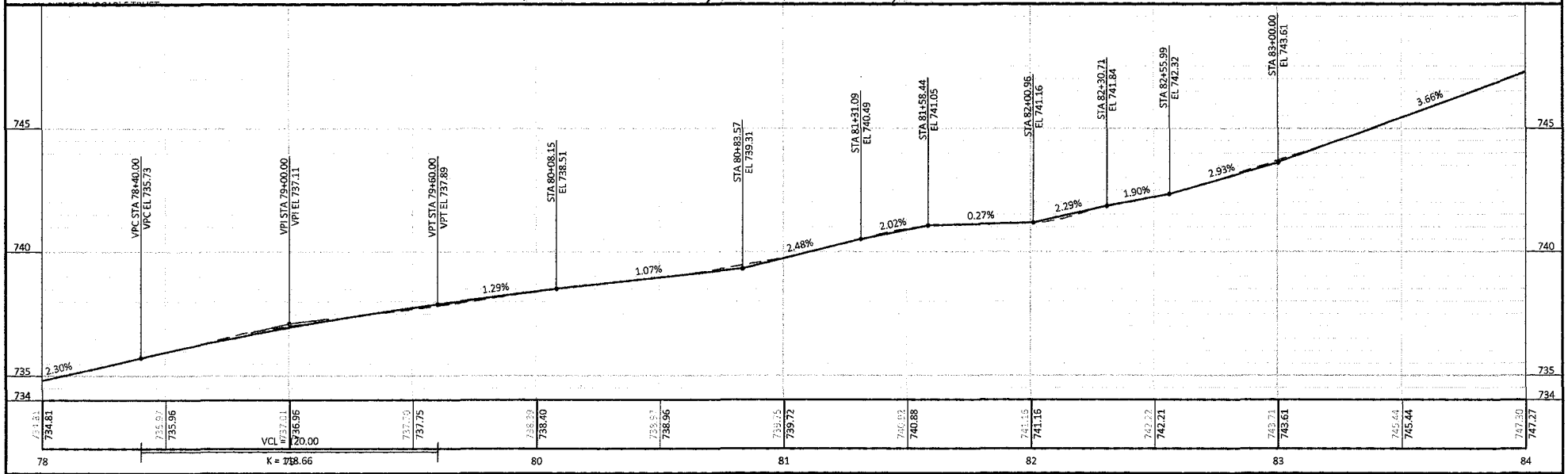
PROJECT NO: WH110012	HWY: CTH T	COUNTY: MILWAUKEE	PLAN AND PROFILE: W BELOIT ROAD	SHEET E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH T - W. BELOIT RD\WH110011 S 124TH TO S WOLLMER\DESIGN\PLANS\C3D-WH110011\SHEETSPLAN\050101-PP.DWG LAYOUT NAME - 12

PLOT DATE : 11/9/2020 8:46 AM PLOT BY : SAUNDERSON, ELIZABETH PLOT NAME : PLOT SCALE : 1 IN:40 FT

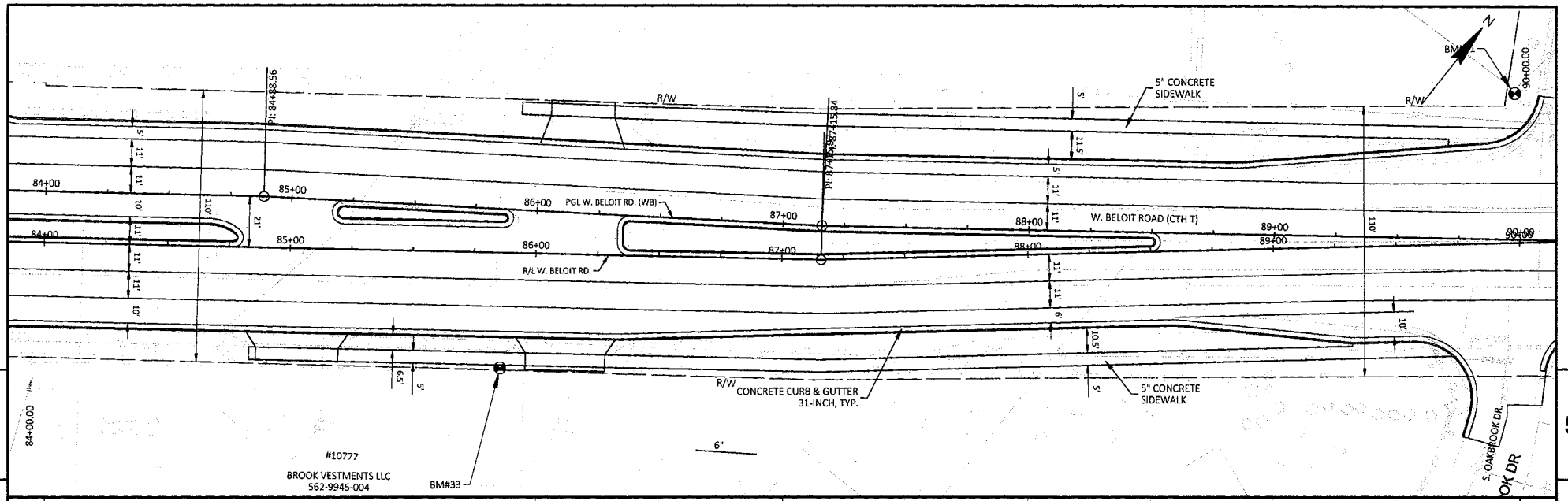
WISDOT/CADDS SHEET 44

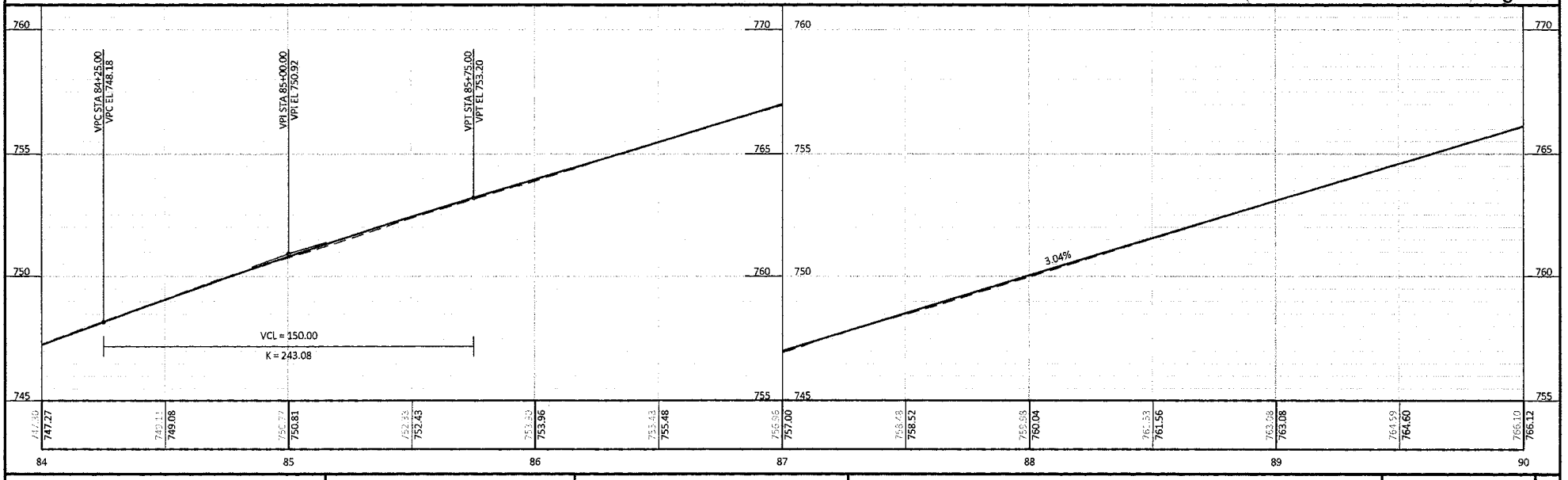




PROJECT NO: WH110012	HWY: CTH T	COUNTY: MILWAUKEE	PLAN AND PROFILE: W BELOIT ROAD	SHEET E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH T - W. BELOIT RD\WH110011 S 124TH TO S WOLLMER\DESIGN\PLANS\C3D-WH110011\SHEETSPLAN\050101-PP.DWG LAYOUT NAME - 13 PLOT DATE : 11/9/2020 8:46 AM PLOT BY : SAUNDERSON, ELIZABETH PLOT NAME : PLOT SCALE : 1 IN:40 FT

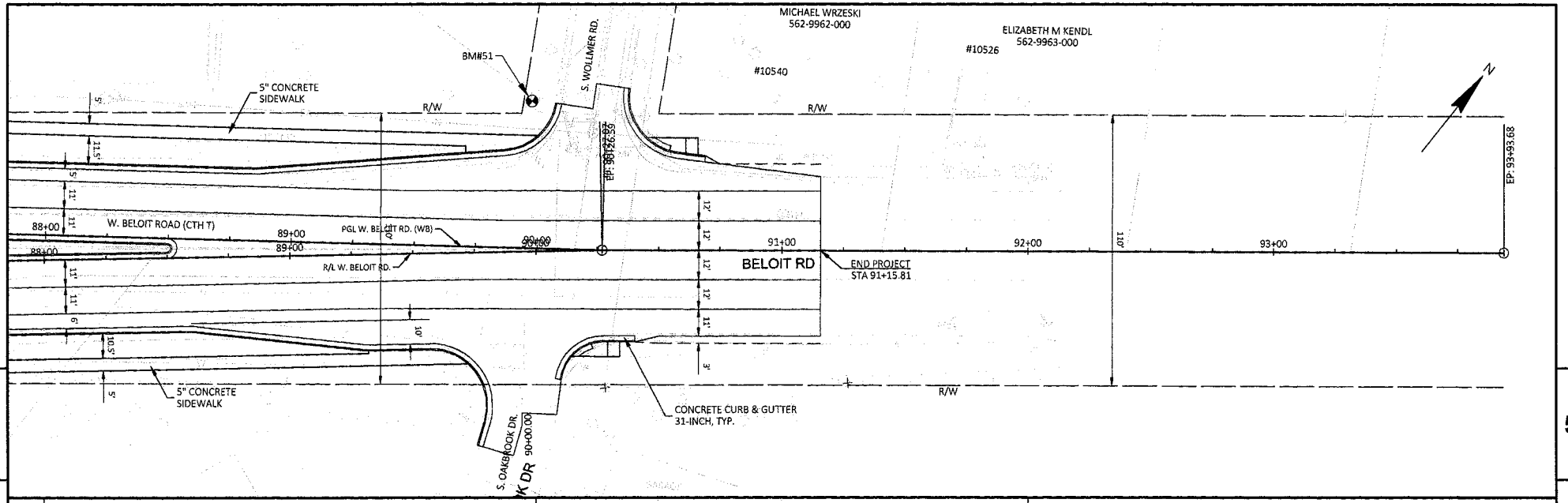


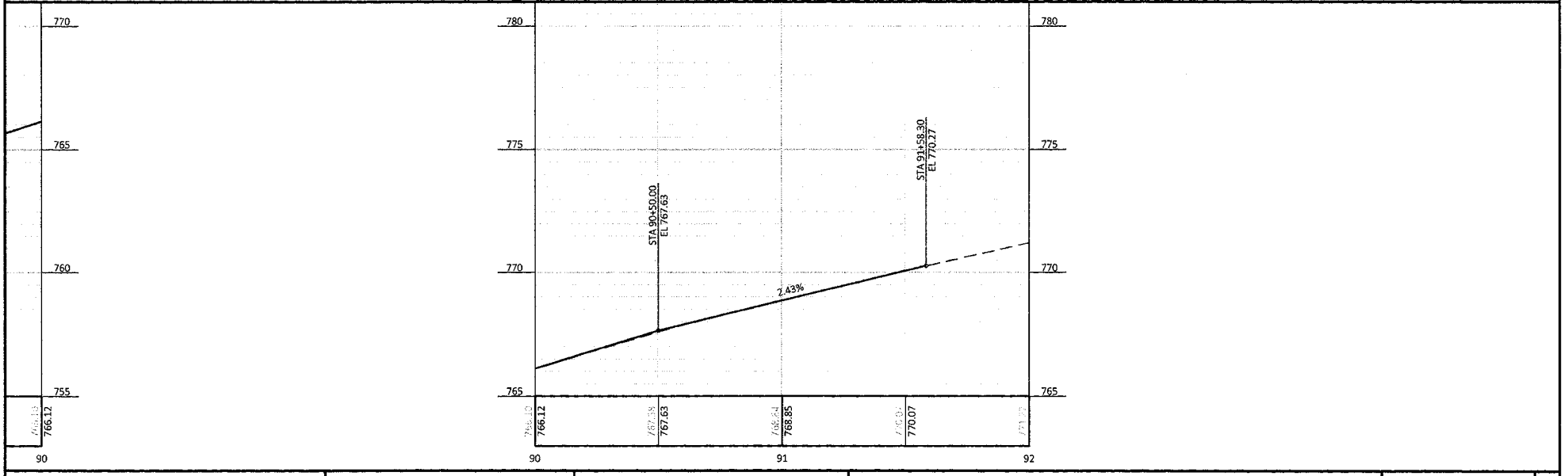


PROJECT NO: WH110012	HWY: CTH T	COUNTY: MILWAUKEE	PLAN AND PROFILE: W BELOIT ROAD	SHEET E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH T - W. BELOIT RD\WH110011 S 124TH TO S WOLLMER\DESIGN\PLANS\C3D-WH110011\SHEETSPLAN\050101-PP.DWG LAYOUT NAME - 14 PLOT DATE : 11/9/2020 8:46 AM PLOT BY : SAUNDERSON, ELIZABETH PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: WH110012	HWY: CTH T	COUNTY: MILWAUKEE	PLAN AND PROFILE: W BELOIT ROAD	SHEET E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH T - W. BELOIT RD\WH110011 S 124TH TO S WOLLMER\DESIGN\PLANS\C3D-WH110011\SHEETSPLAN\050101-PP.DWG LAYOUT NAME - 15

PLOT DATE : 11/9/2020 8:47 AM PLOT BY : SAUNDERSON, ELIZABETH PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

APPENDIX B
PHOTOGRAPHS AND SITE BACKGROUND INFORMATION

Date: July 9, 2021

Description:

Boring B-1, looking west.

Date: July 9, 2021

Description:

Boring B-1, looking north to West Beloit Road from west side of Cypress Cleaners site.

APPENDIX B

PHASE 2 INVESTIGATION - CYPRESS CLEANERS

WEST BELOIT ROAD (CTH T),
SOUTH 124TH STREET TO SOUTH WOLLMER ROAD
MILWAUKEE COUNTY, WISCONSIN
PROJECT NO. WH110011

STRAND ASSOCIATES®

Date: July 9, 2021

Description:

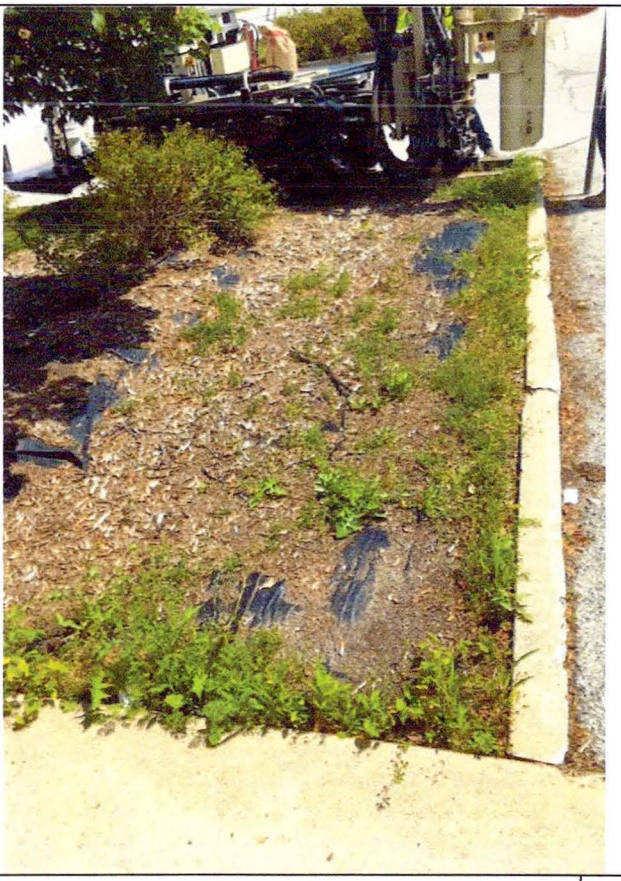
Boring B-2, looking northeast to West Beloit Road from west side of dry cleaners site entrance.

Cypress Cleaners sign is in the background.

Date: July 9, 2021

Description:

Boring B-2, looking east.



APPENDIX B

PHASE 2 INVESTIGATION - CYPRESS CLEANERS

WEST BELOIT ROAD (CTH T),
SOUTH 124TH STREET TO SOUTH WOLLMER ROAD
MILWAUKEE COUNTY, WISCONSIN
PROJECT NO. WH110011

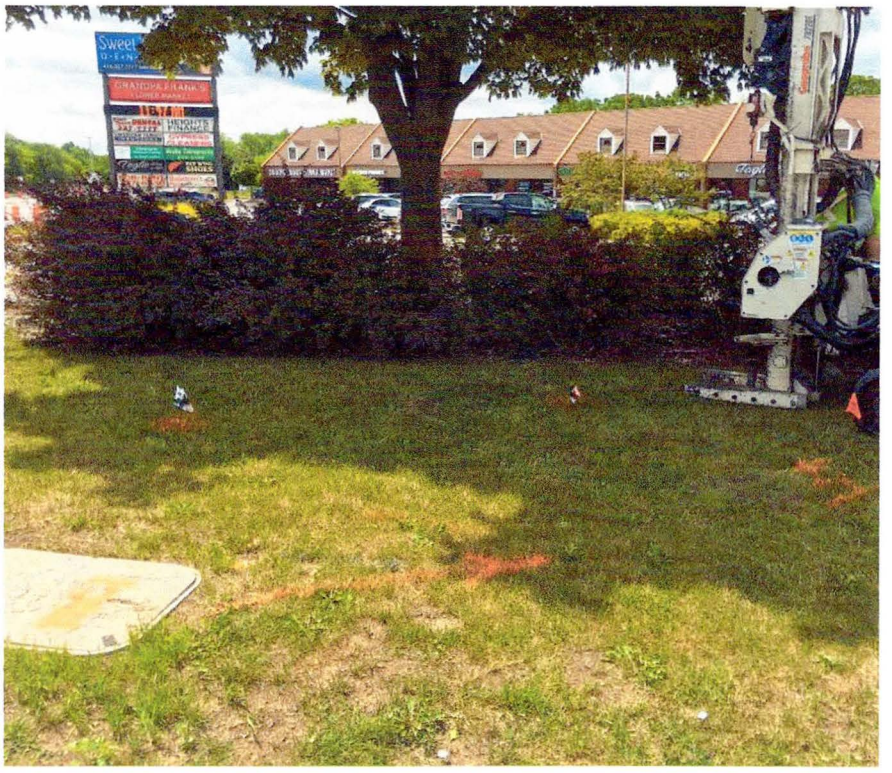
STRAND ASSOCIATES®

Date: July 9, 2021

Description:

Boring B-3, looking southwest to the full area of the retail mall.

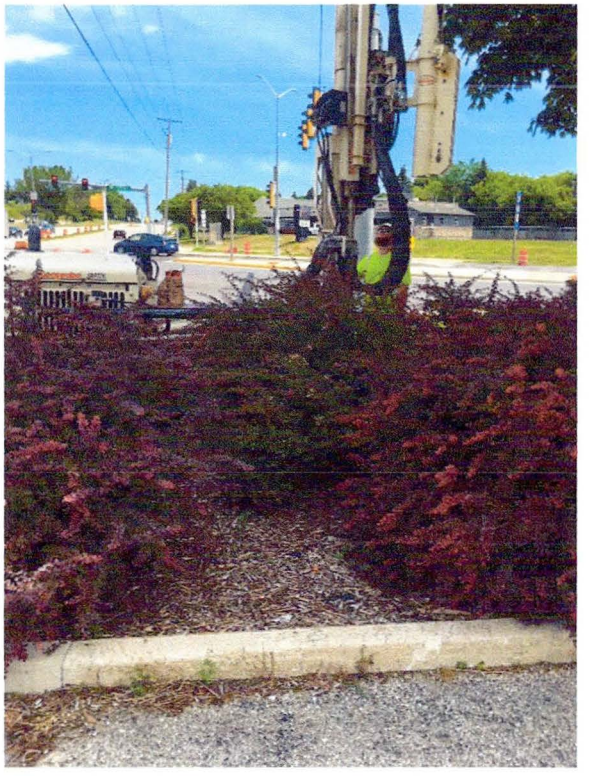
Location is the southwest corner of the West Beloit and South 108th Street.



Date: July 9, 2021

Description:

Boring B-3 looking east across South 108th Street.



APPENDIX B

PHASE 2 INVESTIGATION - CYPRESS CLEANERS

WEST BELOIT ROAD (CTH T),
SOUTH 124TH STREET TO SOUTH WOLLMER ROAD
MILWAUKEE COUNTY, WISCONSIN
PROJECT NO. WH110011

STRAND ASSOCIATES®

SITE SKETCH

West Beloit Road (CTH T), South 124th Street to South Wollmer Road
Milwaukee County
Phase 1 Hazardous Materials Assessment
Milwaukee County Project No. WH110011

Fs

APPENDIX C	**Map ID:**	**5**
	Site Name:	**CYPRESS CLEANERS**

Wisconsin Department of Natural Resources

Environmental Cleanup & Brownfields Redevelopment

BRRTS on the Web

Click the Location Name or FID below to view Location Details page for this Activity. Other Activities, if present, may be accessed from Location Details.

< Basic Search

02-41-552217 CYPRESS CLEANERS

OPEN ERP

Location Name (Click Location Name or FID to View Location Details)			County	WDNR Region
CYPRESS CLEANERS			MILWAUKEE	SOUTHEAST
Address			Municipality	
3813 S 108TH ST			GREENFIELD	
PLSS Description	Latitude	Longitude	Google Maps	RR Sites Map
SE 1/4 of the SE 1/4 of Sec 18, T06N, R21E	42.9745444	-88.0484799	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description			Size (Acres)	Facility ID
			UNKNOWN	341088220

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR			2008-08-29		2020-10-27

Characteristics

PECFA Tracked?	EPA NPL Site?	EPA Superfund?	PECFA Funds Eligible?	Above Ground Tank?	Drycleaner?	Co-Contamination?	WI DOT Site?	COs Apply?
No	No	No	No	No	Yes	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
Records related to the site are documents that were available at the time the scanned paper or electronic file was uploaded. Records withheld by the department due to confidentiality, attorney-client privilege, and other sensitive records, as well as lab data, may not be included. Additional records associated with the site may or may not be accessible through an open records request through DNR or another state agency (see jurisdiction above).			
2008-08-29	99	Miscellaneous	DERF FORM 4400-210 REC'D
2008-08-29	1	Notification of Hazardous Substance Discharge	
2008-08-29	2	Responsible Party (RP) letter sent	
2008-09-30	110	DERF - Potential Claim Form Approved	CONDITIONAL APPROVAL OF PCN RCVD 8/29. FEES DUE AT DOR, MUST BE BROUGHT UP TO DATE BEFORE REIMBURSE
2011-09-07	130	DNR Regulatory Reminder Sent	Vapor Intrusion (VI) Assessment Notification Ltr Sent
2011-09-14	200	Push Action Taken	EMAIL WITH DERP INFO SENT TO PROPERTY OWNER
2011-10-31	200	Push Action Taken	PUSH LTR SENT TO DRY CLEANER OPERATOR
2013-04-16	200	Push Action Taken	
2014-01-30	130	DNR Regulatory Reminder Sent	DERF FUNDING STATUS LTR
2014-04-01	99	Miscellaneous	SENT E-MAIL TO RP RE: UPDATE

2014-04-10	99	Miscellaneous	REC'D PHONE CALL FROM RP CONTACT-CONTACTED 6 CONSULTANTS, ONLY REC'D 2 BIDS
2020-08-17	130	DNR Regulatory Reminder Sent	EMERGING CONTAMINANTS REMINDER LETTER
For Code 130:	20200817_130_DNR_Reg_PFAS_Remind_LTR.pdf Click to Download or Open		
2020-10-27	130	DNR Regulatory Reminder Sent	DERF FUNDING STATUS LTR

Substances

Substance	Type	Est Amt Released	Units
Chlorinated Solvents	VOC		
Petroleum - Unknown Type	Petroleum		

Who

Role	Name/Address
Responsible Party	CYPRESS CLEANERS 3813 S 108TH ST GREENFIELD, WI 53228
Project Manager	MAY VANG 2300 N MARTIN LUTHER KING DR MILWAUKEE, WI 53212

BRRTS data comes from various sources, both internal and external to DNR. There may be omissions and errors in the data and delays in updating new information. Please see the disclaimers page for more information. We welcome your Feedback.

Release 2.8.11 | 07/16/2020 | Release Notes

Hellermann, Luke

From: Dorman, Jennifer S - DNR <Jennifer.Dorman@wisconsin.gov>
Sent: Friday, December 18, 2020 2:08 PM
To: Hellermann, Luke
Subject: [BULK] FW: 02-41-552217 Cypress Cleaners at 3813 S 108th Street

Importance: Low

[EXTERNAL EMAIL]: Verify sender before opening links or attachments.

Hi Luke,

I was unable to locate the file for Cypress Cleaners (BRRTS #02-41-552217) at the Milwaukee or Waukesha office. A couple documents are available on BRRTS on the Web. Let me know if you have any questions.

02-41-552217 – Cypress Cleaners
https://dnr.wi.gov/botw/GetActivityDetail.do?siteId=10356700&adn=0241552217

Thanks,

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Jennifer S. Dorman
Phone: (608) 219-2205
Jennifer.Dorman@wisconsin.gov

From: Vang, May - DNR <May.Vang@wisconsin.gov>
Sent: Thursday, November 12, 2020 9:49 AM
To: Hellermann, Luke <Luke.Hellermann@strand.com>
Cc: Dorman, Jennifer S - DNR <Jennifer.Dorman@wisconsin.gov>
Subject: Re: 02-41-552217 Cypress Cleaners at 3813 S 108th Street

Jenny Dorman is copied in this email and she can scanned the requested documents for you.

Thanks.

May

From: Hellermann, Luke <Luke.Hellermann@strand.com>
Sent: Thursday, November 12, 2020 9:17 AM
To: Vang, May - DNR <May.Vang@wisconsin.gov>
Subject: 02-41-552217 Cypress Cleaners at 3813 S 108th Street

Hi May,
Strand is preparing a Phase 1 Assessment for W. Beloit Road improvements. The project is for Milwaukee County. I would like to review the file for Cypress Cleaners or have site investigation data scanned and sent to me. Not sure what the WDNR policy currently is on file reviews. I am interested in any site investigation data that would show if contamination might impact the W. Beloit Road and road construction or utility replacement. Can you help me with this or direct me to the correct person?
Thank you,
Luke

Luke Hellermann, P.G.
Strand Associates, Inc.®
608.251.4843 ext. 1065
luke.hellermann@strand.com | www.strand.com

Excellence in Engineering Since 1946.

APPENDIX C
BORING LOGS AND ABANDONMENT FORMS

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Beloit Road	Milwaukee	SB-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Steve Gonyer Gestra	7/9/2021	7/9/2021	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet Site	Feet Site	3.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of 1/4 of Section 19, T 6 N, R 21
Lat 42° 58' 28.3" Long 88° 2' 55.9"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 48		0	TOPSOIL (12"), loam, brown, dry, loose										
			1	SILTY CLAY, brown, dry, loose										
			2	SILTY CLAY, brown and black, dry, loose				6.5						
			3					8.4						
			4											
2 GP	60 48		5	SILTY CLAY with some stones, black, dry, loose										
			6					11.4						
			7	SILTY CLAY to CLAY with roots, grey, dry, firm										
			8											
			9					13.6						
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: 414-933-7444
	GESTRA Engineering Inc. 191 E Edgerton Avenue 53207	Fax: 414-933-7844

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☒ **Verification Only of Fill and Seal**

Route to DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	GP-1	

Latitude / Longitude (see instructions)	Format Code	Method Code
42.974524 N	☒ DD	☒ GPS008
88.048851 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 3813 S. 108th ST

Well City, Village or Town	Well ZIP Code
GREENFIELD	53228

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
BOREHOLE	

2. Facility / Owner Information

Facility Name: CYPRESS CLEANERS

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/09/2021

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
3.0	10

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NONE

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☒ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
GESTRA		07/09/2021

Street or Route	Telephone Number
191 W. EDGERTON AVE	(414) 933-7444

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MILWAUKEE	WI	53207		07/14/2021

DNR Use Only

Date Received	Noted By

Comments:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Beloit Road	Milwaukee	SB-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Steve Gonyer Gestra	7/9/2021	7/9/2021	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet Site	Feet Site	3.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of 1/4 of Section 19, T 6 N, R 21
Lat 42° 58' 28.9"
Long 88° 2' 54.4"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 48		0	TOPSOIL (12"), brown, dry, loose										
			1	SILTY CLAY mixed fill and stones, brown, dry, loose to firm										
			2											
			3					12.0						
				SILTY CLAY, grey, dry, firm										
			4					23.4						
2 GP	48 36		5											
			6	SILT, brown to black, dry, loose										
			7											
			8					16.1						
			9											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	GESTRA Engineering Inc. 191 E Edgerton Avenue 53207	414-933-7444 Fax: 414-933-7844

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☒ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	GP-2	

Latitude / Longitude (see instructions): 42.974684 N, 88.048432 W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 3813 S. 108th ST
Well City, Village or Town: GREENFIELD
Well ZIP Code: 53228
Subdivision Name:
Lot #:
Reason for Removal from Service: BOREHOLE
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: CYPRESS CLEANERS
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner | State | ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/09/2021
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
3.0	9

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet): NONE

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☒ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	9		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
GESTRA		07/09/2021

Street or Route	Telephone Number
191 W. EDGERTON AVE	(414) 933-7444

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MILWAUKEE	WI	53207		07/14/2021

DNR Use Only

Date Received	Noted By
Comments	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Beloit Road	Milwaukee	SB-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Steve Gonyer Gestra	7/9/2021	7/9/2021	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet Site	Feet Site	3.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of 1/4 of Section 19, T 6 N, R 21

Lat 42° 58' 29.8"
Long 88° 2' 52.4"

Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 36		0	TOPSOIL (12"), loam, brown, loose										
			1	SILT, tan, dry, very loose										
			2											
			3	SILTY SAND, tanish yellow, dry, loose				3.5						
			4					3.5						
2 GP	60 54			fine SAND, tanish grey, dry, very loose										
			5											
			6					9.2						
			7	fine SAND some stones, tan, dry, very loose				9.5						
			8	fine SAND and SILTY SAND, some clay, tan to grey, dry, very loose				6.1						
			9											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: 414-933-7444
	GESTRA Engineering Inc. 191 E Edgerton Avenue 53207	Fax: 414-933-7844

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☒ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE	GP-3	

Latitude / Longitude (see instructions)	Format Code	Method Code
42.974935 N	☒ DD	☒ GPS008
88.047877 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 3813 S. 108th ST

Well City, Village or Town	Well ZIP Code
GREENFIELD	53228

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
BOREHOLE	

2. Facility / Owner Information

Facility Name: CYPRESS CLEANERS

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/09/2021

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
3.0	9

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	NONE

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☒ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	9		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
GESTRA		07/09/2021

Street or Route	Telephone Number
191 W. EDGERTON AVE	(414) 933-7444

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
MILWAUKEE	WI	53207		07/14/2021

DNR Use Only

Date Received	Noted By

Comments:

APPENDIX D
LABORATORY REPORT

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-202151-1
Client Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

For:
Strand Associates, Inc.
910 West Wingra Drive
Madison, Wisconsin 53715

Attn: Luke Hellermann

Sandie Fredrick

Authorized for release by:
7/30/2021 1:17:53 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Job ID: 500-202151-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-202151-1

Comments
No additional comments.

Receipt
The samples were received on 7/10/2021 11:15 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 2.4° C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).Added to COC as sample #7 and logged.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for preparation batch 500-608761 and analytical batch 500-610361 recovered outside control limits for the following analytes: 2,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for preparation batch 500-608761, 500-608761, 500-608761, 500-608761 and 500-608761 and analytical batch 500-610129 recovered outside control limits for the following analytes: 1,1,1-Trichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for batch 609467 recovered outside control limits for the following analytes: Bromoform, Dibromomethane, Ethylene Dibromide. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC VOA
Methods 5035, WI GRO: sample vial has < 8 grams of soil in 10 ml of methanol. SB-1, 5-7' (500-202151-1), SB-1, 8-10' (500-202151-2), SB-2, 6-9' (500-202151-4), SB-3, 5-8' (500-202151-5) and SB-3, 8-10' (500-202151-6)

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

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

Detection Summary

Client: Strand Associates, Inc.
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Job ID: 500-202151-1

Client Sample ID: SB-1, 5-7' — Lab Sample ID: 500-202151-1

No Detections.

Client Sample ID: SB-1, 8-10' — Lab Sample ID: 500-202151-2

No Detections.

Client Sample ID: SB-2, 3-5' — Lab Sample ID: 500-202151-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	67	J	77	27	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	30	J	38	17	ug/Kg	50	☼	8260B	Total/NA
Flashpoint	>176		99.0	99.0	Degrees F	1		1010A	Total/NA
pH	8.2	HF	0.2	0.2	SU	1		9045C	Total/NA
Free Liquid	Pass				No Unit	1		9095B	Total/NA

Client Sample ID: SB-2, 6-9' — Lab Sample ID: 500-202151-4

No Detections.

Client Sample ID: SB-3, 5-8' — Lab Sample ID: 500-202151-5

No Detections.

Client Sample ID: SB-3, 8-10' — Lab Sample ID: 500-202151-6

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 500-202151-7

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Strand Associates, Inc.
Job ID: 500-202151-1
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095B	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL 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:

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

Sample Summary

Client: Strand Associates, Inc.
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Job ID: 500-202151-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-202151-1	SB-1, 5-7'	Solid	07/09/21 10:50	07/10/21 11:15
500-202151-2	SB-1, 8-10'	Solid	07/09/21 11:00	07/10/21 11:15
500-202151-3	SB-2, 3-5'	Solid	07/09/21 11:15	07/10/21 11:15
500-202151-4	SB-2, 6-9'	Solid	07/09/21 11:20	07/10/21 11:15
500-202151-5	SB-3, 5-8'	Solid	07/09/21 11:45	07/10/21 11:15
500-202151-6	SB-3, 8-10'	Solid	07/09/21 12:00	07/10/21 11:15
500-202151-7	Trip Blank	Solid	07/09/21 00:00	07/10/21 11:15

Client Sample ID: SB-1, 5-7'
Date Collected: 07/09/21 10:50
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-1
Matrix: Solid
Percent Solids: 76.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<52		110	52	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,1,1-Trichloroethane	<43	*+	110	43	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,1,2,2-Tetrachloroethane	<45		110	45	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,1,2-Trichloroethane	<40		110	40	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,1-Dichloroethane	<47		110	47	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,1-Dichloroethene	<44		110	44	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,1-Dichloropropene	<34		110	34	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,2,3-Trichlorobenzene	<52		110	52	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,2,3-Trichloropropane	<47		230	47	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,2,4-Trichlorobenzene	<39		110	39	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,2,4-Trimethylbenzene	<41		110	41	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,2-Dibromo-3-Chloropropane	<230		570	230	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,2-Dibromoethane	<44		110	44	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,2-Dichlorobenzene	<38		110	38	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,2-Dichloroethane	<44		110	44	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,2-Dichloropropane	<49		110	49	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,3,5-Trimethylbenzene	<43		110	43	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,3-Dichlorobenzene	<45		110	45	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,3-Dichloropropane	<41		110	41	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
1,4-Dichlorobenzene	<41		110	41	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
2,2-Dichloropropane	<50		110	50	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
2-Chlorotoluene	<36		110	36	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
4-Chlorotoluene	<40		110	40	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Benzene	<17		28	17	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Bromobenzene	<40		110	40	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Bromochloromethane	<49		110	49	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Bromodichloromethane	<42		110	42	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Bromoform	<55		110	55	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Bromomethane	<90		340	90	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Carbon tetrachloride	<44		110	44	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Chlorobenzene	<44		110	44	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Chloroethane	<57		110	57	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Chloroform	<42		230	42	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Chloromethane	<36		110	36	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
cis-1,2-Dichloroethene	<46		110	46	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
cis-1,3-Dichloropropene	<47		110	47	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Dibromochloromethane	<55		110	55	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Dibromomethane	<31		110	31	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Dichlorodifluoromethane	<76		340	76	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Ethylbenzene	<21		28	21	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Hexachlorobutadiene	<51		110	51	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Isopropyl ether	<31		110	31	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Isopropylbenzene	<44		110	44	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Methyl tert-butyl ether	<45		110	45	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Methylene Chloride	<190		570	190	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Naphthalene	<38		110	38	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
n-Butylbenzene	<44		110	44	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
N-Propylbenzene	<47		110	47	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
p-Isopropyltoluene	<41		110	41	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50

Client Sample ID: SB-1, 5-7'
Date Collected: 07/09/21 10:50
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-1
Matrix: Solid
Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<45		110	45	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Styrene	<44		110	44	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
tert-Butylbenzene	<45		110	45	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Tetrachloroethene	<42		110	42	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Toluene	<17		28	17	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
trans-1,2-Dichloroethene	<40		110	40	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
trans-1,3-Dichloropropene	<41		110	41	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Trichloroethene	<19		57	19	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Trichlorofluoromethane	<49		110	49	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Vinyl chloride	<30		110	30	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50
Xylenes, Total	<25		57	25	ug/Kg	☼	07/09/21 10:50	07/20/21 17:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*	*07/09/21 10:50*	*07/20/21 17:21*	*50*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*	*07/09/21 10:50*	*07/20/21 17:21*	*50*
Dibromofluoromethane (Surr)	*102*		*75 - 120*	*07/09/21 10:50*	*07/20/21 17:21*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*07/09/21 10:50*	*07/20/21 17:21*	*50*

Client Sample ID: SB-1, 8-10'
Date Collected: 07/09/21 11:00
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-2
Matrix: Solid
Percent Solids: 75.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<54		120	54	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,1,1-Trichloroethane	<45	*+	120	45	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,1,2,2-Tetrachloroethane	<47		120	47	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,1,2-Trichloroethane	<41		120	41	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,1-Dichloroethane	<48		120	48	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,1-Dichloroethene	<46		120	46	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,1-Dichloropropene	<35		120	35	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,2,3-Trichlorobenzene	<54		120	54	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,2,3-Trichloropropane	<49		240	49	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,2,4-Trichlorobenzene	<40		120	40	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,2,4-Trimethylbenzene	<42		120	42	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,2-Dibromo-3-Chloropropane	<230		590	230	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,2-Dibromoethane	<45		120	45	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,2-Dichlorobenzene	<39		120	39	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,2-Dichloroethane	<46		120	46	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,2-Dichloropropane	<50		120	50	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,3,5-Trimethylbenzene	<45		120	45	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,3-Dichlorobenzene	<47		120	47	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,3-Dichloropropane	<43		120	43	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
1,4-Dichlorobenzene	<43		120	43	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
2,2-Dichloropropane	<52		120	52	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
2-Chlorotoluene	<37		120	37	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
4-Chlorotoluene	<41		120	41	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Benzene	<17		29	17	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Bromobenzene	<42		120	42	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Bromochloromethane	<50		120	50	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Bromodichloromethane	<44		120	44	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Bromoform	<57		120	57	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Bromomethane	<94		350	94	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Carbon tetrachloride	<45		120	45	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Chlorobenzene	<45		120	45	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Chloroethane	<59		120	59	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Chloroform	<44		240	44	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Chloromethane	<38		120	38	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
cis-1,2-Dichloroethene	<48		120	48	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
cis-1,3-Dichloropropene	<49		120	49	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Dibromochloromethane	<57		120	57	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Dibromomethane	<32		120	32	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Dichlorodifluoromethane	<79		350	79	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Ethylbenzene	<22		29	22	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Hexachlorobutadiene	<52		120	52	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Isopropyl ether	<32		120	32	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Isopropylbenzene	<45		120	45	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Methyl tert-butyl ether	<46		120	46	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Methylene Chloride	<190		590	190	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Naphthalene	<39		120	39	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
n-Butylbenzene	<46		120	46	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
N-Propylbenzene	<49		120	49	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
p-Isopropyltoluene	<43		120	43	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50

Client Sample ID: SB-1, 8-10'
Date Collected: 07/09/21 11:00
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-2
Matrix: Solid
Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<47		120	47	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Styrene	<45		120	45	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
tert-Butylbenzene	<47		120	47	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Tetrachloroethene	<44		120	44	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Toluene	<17		29	17	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
trans-1,2-Dichloroethene	<41		120	41	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
trans-1,3-Dichloropropene	<43		120	43	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Trichloroethene	<19		59	19	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Trichlorofluoromethane	<50		120	50	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Vinyl chloride	<31		120	31	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50
Xylenes, Total	<26		59	26	ug/Kg	☼	07/09/21 11:00	07/20/21 17:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*07/09/21 11:00*	*07/20/21 17:47*	*50*
4-Bromofluorobenzene (Surr)	*113*		*72 - 124*	*07/09/21 11:00*	*07/20/21 17:47*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 120*	*07/09/21 11:00*	*07/20/21 17:47*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*07/09/21 11:00*	*07/20/21 17:47*	*50*

Client Sample ID: SB-2, 3-5'
Date Collected: 07/09/21 11:15
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-3
Matrix: Solid
Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		77	35	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,1,1-Trichloroethane	<29	*+	77	29	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,1,2,2-Tetrachloroethane	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,1,2-Trichloroethane	<27		77	27	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,1-Dichloroethane	<31		77	31	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,1-Dichloroethene	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,1-Dichloropropene	<23		77	23	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,2,3-Trichlorobenzene	<35		77	35	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,2,3-Trichloropropane	<32		150	32	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,2,4-Trichlorobenzene	<26		77	26	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,2,4-Trimethylbenzene	**67**	**J**	77	27	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,2-Dibromo-3-Chloropropane	<150		380	150	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,2-Dibromoethane	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,2-Dichlorobenzene	<26		77	26	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,2-Dichloroethane	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,2-Dichloropropane	<33		77	33	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,3,5-Trimethylbenzene	<29		77	29	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,3-Dichlorobenzene	<31		77	31	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,3-Dichloropropane	<28		77	28	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
1,4-Dichlorobenzene	<28		77	28	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
2,2-Dichloropropane	<34		77	34	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
2-Chlorotoluene	<24		77	24	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
4-Chlorotoluene	<27		77	27	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Benzene	<11		19	11	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Bromobenzene	<27		77	27	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Bromochloromethane	<33		77	33	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Bromodichloromethane	<29		77	29	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Bromoform	<37		77	37	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Bromomethane	<61		230	61	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Carbon tetrachloride	<29		77	29	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Chlorobenzene	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Chloroethane	<39		77	39	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Chloroform	<28		150	28	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Chloromethane	<25		77	25	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
cis-1,2-Dichloroethene	<31		77	31	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
cis-1,3-Dichloropropene	<32		77	32	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Dibromochloromethane	<37		77	37	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Dibromomethane	<21		77	21	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Dichlorodifluoromethane	<52		230	52	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Ethylbenzene	<14		19	14	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Hexachlorobutadiene	<34		77	34	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Isopropyl ether	<21		77	21	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Isopropylbenzene	<29		77	29	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Methyl tert-butyl ether	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Methylene Chloride	<120		380	120	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Naphthalene	<26		77	26	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
n-Butylbenzene	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
N-Propylbenzene	<32		77	32	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
p-Isopropyltoluene	<28		77	28	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50

Client Sample ID: SB-2, 3-5'
Date Collected: 07/09/21 11:15
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-3
Matrix: Solid
Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Styrene	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
tert-Butylbenzene	<30		77	30	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Tetrachloroethene	<28		77	28	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Toluene	<11		19	11	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
trans-1,2-Dichloroethene	<27		77	27	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
trans-1,3-Dichloropropene	<28		77	28	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Trichloroethene	<13		38	13	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Trichlorofluoromethane	<33		77	33	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Vinyl chloride	<20		77	20	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50
Xylenes, Total	**30**	**J**	38	17	ug/Kg	☼	07/09/21 11:15	07/20/21 18:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*	*07/09/21 11:15*	*07/20/21 18:12*	*50*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*	*07/09/21 11:15*	*07/20/21 18:12*	*50*
Dibromofluoromethane (Surr)	*103*		*75 - 120*	*07/09/21 11:15*	*07/20/21 18:12*	*50*
Toluene-d8 (Surr)	*105*		*75 - 120*	*07/09/21 11:15*	*07/20/21 18:12*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			07/28/21 19:26	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			07/28/21 19:26	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			07/28/21 19:26	20
Chloroform	<0.020		0.040	0.020	mg/L			07/28/21 19:26	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			07/28/21 19:26	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			07/28/21 19:26	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			07/28/21 19:26	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			07/28/21 19:26	20
Trichloroethene	<0.010		0.020	0.010	mg/L			07/28/21 19:26	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			07/28/21 19:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*72 - 124*		*07/28/21 19:26*	*20*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*07/28/21 19:26*	*20*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 126*		*07/28/21 19:26*	*20*
Toluene-d8 (Surr)	*104*		*75 - 120*		*07/28/21 19:26*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		99.0	99.0	Degrees F			07/28/21 13:57	1
pH	**8.2**	**HF**	0.2	0.2	SU			07/26/21 15:17	1
Free Liquid	**Pass**				No Unit			07/26/21 13:38	1

Client Sample ID: SB-2, 6-9'
Date Collected: 07/09/21 11:20
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-4
Matrix: Solid
Percent Solids: 79.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<49		110	49	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,1,1-Trichloroethane	<41	*+	110	41	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,1,2,2-Tetrachloroethane	<42		110	42	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,1,2-Trichloroethane	<38		110	38	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,1-Dichloroethane	<44		110	44	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,1-Dichloroethene	<42		110	42	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,1-Dichloropropene	<32		110	32	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,2,3-Trichlorobenzene	<49		110	49	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,2,3-Trichloropropane	<44		210	44	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,2,4-Trichlorobenzene	<36		110	36	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,2,4-Trimethylbenzene	<38		110	38	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,2-Dibromo-3-Chloropropane	<210		530	210	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,2-Dibromoethane	<41		110	41	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,2-Dichlorobenzene	<36		110	36	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,2-Dichloroethane	<42		110	42	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,2-Dichloropropane	<46		110	46	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,3,5-Trimethylbenzene	<41		110	41	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,3-Dichlorobenzene	<43		110	43	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,3-Dichloropropane	<39		110	39	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
1,4-Dichlorobenzene	<39		110	39	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
2,2-Dichloropropane	<47		110	47	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
2-Chlorotoluene	<34		110	34	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
4-Chlorotoluene	<37		110	37	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Benzene	<16		27	16	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Bromobenzene	<38		110	38	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Bromochloromethane	<46		110	46	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Bromodichloromethane	<40		110	40	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Bromoform	<52		110	52	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Bromomethane	<85		320	85	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Carbon tetrachloride	<41		110	41	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Chlorobenzene	<41		110	41	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Chloroethane	<54		110	54	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Chloroform	<39		210	39	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Chloromethane	<34		110	34	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
cis-1,2-Dichloroethene	<44		110	44	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
cis-1,3-Dichloropropene	<44		110	44	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Dibromochloromethane	<52		110	52	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Dibromomethane	<29		110	29	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Dichlorodifluoromethane	<72		320	72	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Ethylbenzene	<20		27	20	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Hexachlorobutadiene	<48		110	48	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Isopropyl ether	<29		110	29	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Isopropylbenzene	<41		110	41	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Methyl tert-butyl ether	<42		110	42	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Methylene Chloride	<170		530	170	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Naphthalene	<36		110	36	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
n-Butylbenzene	<41		110	41	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
N-Propylbenzene	<44		110	44	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
p-Isopropyltoluene	<39		110	39	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50

Client Sample ID: SB-2, 6-9'
Date Collected: 07/09/21 11:20
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-4
Matrix: Solid
Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<42		110	42	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Styrene	<41		110	41	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
tert-Butylbenzene	<42		110	42	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Tetrachloroethene	<39		110	39	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Toluene	<16		27	16	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
trans-1,2-Dichloroethene	<37		110	37	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
trans-1,3-Dichloropropene	<39		110	39	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Trichloroethene	<18		53	18	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Trichlorofluoromethane	<46		110	46	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Vinyl chloride	<28		110	28	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50
Xylenes, Total	<23		53	23	ug/Kg	☼	07/09/21 11:20	07/20/21 18:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 126*	*07/09/21 11:20*	*07/20/21 18:37*	*50*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*	*07/09/21 11:20*	*07/20/21 18:37*	*50*
Dibromofluoromethane (Surr)	*103*		*75 - 120*	*07/09/21 11:20*	*07/20/21 18:37*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*07/09/21 11:20*	*07/20/21 18:37*	*50*

Client Sample ID: SB-3, 5-8'
Date Collected: 07/09/21 11:45
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-5
Matrix: Solid
Percent Solids: 97.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<44		95	44	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,1,1-Trichloroethane	<36	*+	95	36	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,1,2,2-Tetrachloroethane	<38		95	38	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,1,2-Trichloroethane	<33		95	33	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,1-Dichloroethane	<39		95	39	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,1-Dichloroethene	<37		95	37	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,1-Dichloropropene	<28		95	28	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,2,3-Trichlorobenzene	<43		95	43	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,2,3-Trichloropropane	<39		190	39	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,2,4-Trichlorobenzene	<32		95	32	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,2,4-Trimethylbenzene	<34		95	34	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,2-Dibromo-3-Chloropropane	<190		470	190	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,2-Dibromoethane	<37		95	37	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,2-Dichlorobenzene	<32		95	32	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,2-Dichloroethane	<37		95	37	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,2-Dichloropropane	<41		95	41	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,3,5-Trimethylbenzene	<36		95	36	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,3-Dichlorobenzene	<38		95	38	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,3-Dichloropropane	<34		95	34	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
1,4-Dichlorobenzene	<35		95	35	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
2,2-Dichloropropane	<42		95	42	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
2-Chlorotoluene	<30		95	30	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
4-Chlorotoluene	<33		95	33	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Benzene	<14		24	14	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Bromobenzene	<34		95	34	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Bromochloromethane	<41		95	41	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Bromodichloromethane	<35		95	35	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Bromoform	<46		95	46	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Bromomethane	<75		280	75	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Carbon tetrachloride	<36		95	36	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Chlorobenzene	<37		95	37	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Chloroethane	<48		95	48	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Chloroform	<35		190	35	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Chloromethane	<30		95	30	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
cis-1,2-Dichloroethene	<39		95	39	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
cis-1,3-Dichloropropene	<39		95	39	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Dibromochloromethane	<46		95	46	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Dibromomethane	<26		95	26	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Dichlorodifluoromethane	<64		280	64	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Ethylbenzene	<17		24	17	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Hexachlorobutadiene	<42		95	42	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Isopropyl ether	<26		95	26	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Isopropylbenzene	<36		95	36	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Methyl tert-butyl ether	<37		95	37	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Methylene Chloride	<150		470	150	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Naphthalene	<32		95	32	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
n-Butylbenzene	<37		95	37	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
N-Propylbenzene	<39		95	39	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
p-Isopropyltoluene	<34		95	34	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50

Client Sample ID: SB-3, 5-8'
Date Collected: 07/09/21 11:45
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-5
Matrix: Solid
Percent Solids: 97.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<38		95	38	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Styrene	<37		95	37	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
tert-Butylbenzene	<38		95	38	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Tetrachloroethene	<35		95	35	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Toluene	<14		24	14	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
trans-1,2-Dichloroethene	<33		95	33	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
trans-1,3-Dichloropropene	<34		95	34	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Trichloroethene	<16		47	16	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Trichlorofluoromethane	<41		95	41	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Vinyl chloride	<25		95	25	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50
Xylenes, Total	<21		47	21	ug/Kg	☼	07/09/21 11:45	07/20/21 19:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*75 - 126*	*07/09/21 11:45*	*07/20/21 19:01*	*50*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*	*07/09/21 11:45*	*07/20/21 19:01*	*50*
Dibromofluoromethane (Surr)	*107*		*75 - 120*	*07/09/21 11:45*	*07/20/21 19:01*	*50*
Toluene-d8 (Surr)	*109*		*75 - 120*	*07/09/21 11:45*	*07/20/21 19:01*	*50*

Client Sample ID: SB-3, 8-10'
Date Collected: 07/09/21 12:00
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-6
Matrix: Solid
Percent Solids: 91.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<42		90	42	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,1,1-Trichloroethane	<34		90	34	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,1,2,2-Tetrachloroethane	<36		90	36	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,1,2-Trichloroethane	<32		90	32	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,1-Dichloroethane	<37		90	37	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,1-Dichloroethene	<35		90	35	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,1-Dichloropropene	<27		90	27	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,2,3-Trichlorobenzene	<41		90	41	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,2,3-Trichloropropane	<37		180	37	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,2,4-Trichlorobenzene	<31		90	31	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,2,4-Trimethylbenzene	<32		90	32	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,2-Dibromo-3-Chloropropane	<180		450	180	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,2-Dibromoethane	<35		90	35	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,2-Dichlorobenzene	<30		90	30	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,2-Dichloroethane	<35		90	35	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,2-Dichloropropane	<39		90	39	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,3,5-Trimethylbenzene	<34		90	34	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,3-Dichlorobenzene	<36		90	36	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,3-Dichloropropane	<33		90	33	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
1,4-Dichlorobenzene	<33		90	33	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
2,2-Dichloropropane	<40	*+	90	40	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
2-Chlorotoluene	<28		90	28	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
4-Chlorotoluene	<32		90	32	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Benzene	<13		23	13	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Bromobenzene	<32		90	32	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Bromochloromethane	<39		90	39	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Bromodichloromethane	<34		90	34	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Bromoform	<44		90	44	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Bromomethane	<72		270	72	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Carbon tetrachloride	<35		90	35	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Chlorobenzene	<35		90	35	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Chloroethane	<45		90	45	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Chloroform	<33		180	33	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Chloromethane	<29		90	29	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
cis-1,2-Dichloroethene	<37		90	37	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
cis-1,3-Dichloropropene	<38		90	38	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Dibromochloromethane	<44		90	44	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Dibromomethane	<24		90	24	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Dichlorodifluoromethane	<61		270	61	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Ethylbenzene	<17		23	17	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Hexachlorobutadiene	<40		90	40	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Isopropyl ether	<25		90	25	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Isopropylbenzene	<35		90	35	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Methyl tert-butyl ether	<36		90	36	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Methylene Chloride	<150		450	150	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Naphthalene	<30		90	30	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
n-Butylbenzene	<35		90	35	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
N-Propylbenzene	<37		90	37	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
p-Isopropyltoluene	<33		90	33	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50

Client: Strand Associates, Inc.
Job ID: 500-202151-1
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Client Sample ID: SB-3, 8-10'
Date Collected: 07/09/21 12:00
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-6
Matrix: Solid
Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<36		90	36	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Styrene	<35		90	35	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
tert-Butylbenzene	<36		90	36	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Tetrachloroethene	<33		90	33	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Toluene	<13		23	13	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
trans-1,2-Dichloroethene	<32		90	32	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
trans-1,3-Dichloropropene	<33		90	33	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Trichloroethene	<15		45	15	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Trichlorofluoromethane	<39		90	39	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Vinyl chloride	<24		90	24	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50
Xylenes, Total	<20		45	20	ug/Kg	☼	07/09/21 12:00	07/21/21 12:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*	*07/09/21 12:00*	*07/21/21 12:19*	*50*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*	*07/09/21 12:00*	*07/21/21 12:19*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 120*	*07/09/21 12:00*	*07/21/21 12:19*	*50*
Toluene-d8 (Surr)	*109*		*75 - 120*	*07/09/21 12:00*	*07/21/21 12:19*	*50*

Client Sample ID: Trip Blank

Date Collected: 07/09/21 00:00
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,1-Dichloroethane	<21		50	21	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,1-Dichloroethene	<20		50	20	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,1-Dichloropropene	<15		50	15	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
2,2-Dichloropropane	<22	*+	50	22	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Benzene	<7.3		13	7.3	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Bromobenzene	<18		50	18	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Bromochloromethane	<21		50	21	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Bromodichloromethane	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Bromoform	<24		50	24	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Bromomethane	<40		150	40	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Carbon tetrachloride	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Chlorobenzene	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Chloroethane	<25		50	25	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Chloroform	<19		100	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Chloromethane	<16		50	16	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Dibromochloromethane	<24		50	24	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Dibromomethane	<14		50	14	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Isopropyl ether	<14		50	14	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Isopropylbenzene	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Methylene Chloride	<82		250	82	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Naphthalene	<17		50	17	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
n-Butylbenzene	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
N-Propylbenzene	<21		50	21	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
p-Isopropyltoluene	<18		50	18	ug/Kg		07/09/21 00:00	07/21/21 12:44	50

Client Sample ID: Trip Blank

Date Collected: 07/09/21 00:00
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Styrene	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Tetrachloroethene	<19		50	19	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Toluene	<7.4		13	7.4	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Trichloroethene	<8.2		25	8.2	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Trichlorofluoromethane	<21		50	21	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Vinyl chloride	<13		50	13	ug/Kg		07/09/21 00:00	07/21/21 12:44	50
Xylenes, Total	<11		25	11	ug/Kg		07/09/21 00:00	07/21/21 12:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*07/09/21 00:00*	*07/21/21 12:44*	*50*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*	*07/09/21 00:00*	*07/21/21 12:44*	*50*
Dibromofluoromethane (Surr)	*98*		*75 - 120*	*07/09/21 00:00*	*07/21/21 12:44*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*07/09/21 00:00*	*07/21/21 12:44*	*50*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

GC/MS VOA

Prep Batch: 608761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202151-1	SB-1, 5-7'	Total/NA	Solid	5035	
500-202151-2	SB-1, 8-10'	Total/NA	Solid	5035	
500-202151-3	SB-2, 3-5'	Total/NA	Solid	5035	
500-202151-4	SB-2, 6-9'	Total/NA	Solid	5035	
500-202151-5	SB-3, 5-8'	Total/NA	Solid	5035	
500-202151-6	SB-3, 8-10'	Total/NA	Solid	5035	
500-202151-7	Trip Blank	Total/NA	Solid	5035	
LB3 500-608761/17-A	Method Blank	Total/NA	Solid	5035	
LCS 500-608761/18-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 609467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-608761/17-A	Method Blank	Total/NA	Solid	8260B	608761
MB 500-609467/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-609467/28	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 609670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-609670/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-608761/18-A	Lab Control Sample	Total/NA	Solid	8260B	608761
LCS 500-609670/5	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 610129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202151-1	SB-1, 5-7'	Total/NA	Solid	8260B	608761
500-202151-2	SB-1, 8-10'	Total/NA	Solid	8260B	608761
500-202151-3	SB-2, 3-5'	Total/NA	Solid	8260B	608761
500-202151-4	SB-2, 6-9'	Total/NA	Solid	8260B	608761
500-202151-5	SB-3, 5-8'	Total/NA	Solid	8260B	608761
MB 500-610129/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-610129/5	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 610361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202151-6	SB-3, 8-10'	Total/NA	Solid	8260B	608761
500-202151-7	Trip Blank	Total/NA	Solid	8260B	608761
MB 500-610361/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-610361/5	Lab Control Sample	Total/NA	Solid	8260B	

Leach Batch: 610775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202151-3	SB-2, 3-5'	TCLP	Solid	1311	
LB 500-610775/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 610776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-610775/1-A	Method Blank	TCLP	Solid	8260B	610775
MB 500-610776/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-610776/5	Lab Control Sample	Total/NA	Solid	8260B	

QC Association Summary

Client: Strand Associates, Inc.
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Job ID: 500-202151-1

GC/MS VOA

Analysis Batch: 611438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202151-3	SB-2, 3-5'	TCLP	Solid	8260B	610775
MB 500-611438/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-611438/5	Lab Control Sample	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 609323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202151-1	SB-1, 5-7'	Total/NA	Solid	Moisture	
500-202151-2	SB-1, 8-10'	Total/NA	Solid	Moisture	
500-202151-3	SB-2, 3-5'	Total/NA	Solid	Moisture	
500-202151-4	SB-2, 6-9'	Total/NA	Solid	Moisture	
500-202151-5	SB-3, 5-8'	Total/NA	Solid	Moisture	
500-202151-6	SB-3, 8-10'	Total/NA	Solid	Moisture	
500-202151-3 DU	SB-2, 3-5'	Total/NA	Solid	Moisture	

Analysis Batch: 611097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202151-3	SB-2, 3-5'	Total/NA	Solid	9045C	
LCS 500-611097/5	Lab Control Sample	Total/NA	Solid	9045C	
LCSD 500-611097/6	Lab Control Sample Dup	Total/NA	Solid	9045C	
500-202151-3 DU	SB-2, 3-5'	Total/NA	Solid	9045C	

Analysis Batch: 611117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202151-3	SB-2, 3-5'	Total/NA	Solid	9095B	
500-202151-3 DU	SB-2, 3-5'	Total/NA	Solid	9095B	

Analysis Batch: 611762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202151-3	SB-2, 3-5'	Total/NA	Solid	1010A	

Surrogate Summary

Client: Strand Associates, Inc.
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Job ID: 500-202151-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-202151-1	SB-1, 5-7'	113	111	102	106
500-202151-2	SB-1, 8-10'	110	113	101	104
500-202151-3	SB-2, 3-5'	112	111	103	105
500-202151-4	SB-2, 6-9'	115	110	103	106
500-202151-5	SB-3, 5-8'	117	114	107	109
500-202151-6	SB-3, 8-10'	107	111	101	109
500-202151-7	Trip Blank	109	110	98	107
LB3 500-608761/17-A	Method Blank	101	95	106	98
LCS 500-608761/18-A	Lab Control Sample	98	98	98	111
LCS 500-609467/28	Lab Control Sample	118	93	110	97
LCS 500-609670/5	Lab Control Sample	106	103	99	110
LCS 500-610129/5	Lab Control Sample	105	109	97	114
LCS 500-610361/5	Lab Control Sample	109	101	99	113
LCS 500-610776/5	Lab Control Sample	117	103	100	106
LCS 500-611438/5	Lab Control Sample	113	121	98	104
MB 500-609467/6	Method Blank	99	96	106	98
MB 500-609670/7	Method Blank	106	117	104	107
MB 500-610129/7	Method Blank	115	121	105	108
MB 500-610361/7	Method Blank	112	119	101	109
MB 500-610776/8	Method Blank	120	103	99	105
MB 500-611438/8	Method Blank	117	121	97	104

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-202151-3	SB-2, 3-5'	116	103	123	104
LB 500-610775/1-A	Method Blank	105	99	121	109

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-608761/17-A
Matrix: Solid
Analysis Batch: 609467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608761

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1-Dichloroethane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1-Dichloropropene	<15		50	15	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,1-Dichloroethene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,4-Trichlorobenzene	19.7	J	50	17	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
2,2-Dichloropropane	<22		50	22	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Benzene	<7.3		13	7.3	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromobenzene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromochloromethane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromodichloromethane	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromoform	<24		50	24	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Bromomethane	<40		150	40	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Carbon tetrachloride	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chlorobenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chloroethane	<25		50	25	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chloroform	<19		100	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Chloromethane	<16		50	16	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Dibromochloromethane	<24		50	24	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Dibromomethane	<14		50	14	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Isopropyl ether	<14		50	14	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Isopropylbenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Methylene Chloride	<82		250	82	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Naphthalene	<17		50	17	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
n-Butylbenzene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
N-Propylbenzene	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50

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

Lab Sample ID: LB3 500-608761/17-A
Matrix: Solid
Analysis Batch: 609467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608761

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
sec-Butylbenzene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Styrene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Tetrachloroethene	<19		50	19	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Toluene	<7.4		13	7.4	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Trichloroethene	<8.2		25	8.2	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Trichlorofluoromethane	<21		50	21	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Vinyl chloride	<13		50	13	ug/Kg		07/11/21 18:50	07/15/21 11:52	50
Xylenes, Total	<11		25	11	ug/Kg		07/11/21 18:50	07/15/21 11:52	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*	*07/11/21 18:50*	*07/15/21 11:52*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/11/21 18:50*	*07/15/21 11:52*	*50*
Dibromofluoromethane (Surr)	*106*		*75 - 120*	*07/11/21 18:50*	*07/15/21 11:52*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*07/11/21 18:50*	*07/15/21 11:52*	*50*

Lab Sample ID: LCS 500-608761/18-A
Matrix: Solid
Analysis Batch: 609670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2650		ug/Kg		106	70 - 125
1,1,1-Trichloroethane	2500	2890		ug/Kg		115	70 - 125
1,1,2,2-Tetrachloroethane	2500	2050		ug/Kg		82	62 - 140
1,1,2-Trichloroethane	2500	2150		ug/Kg		86	71 - 130
1,1-Dichloroethane	2500	2530		ug/Kg		101	70 - 125
1,1-Dichloropropene	2500	2520		ug/Kg		101	70 - 121
1,2,3-Trichlorobenzene	2500	2390		ug/Kg		95	51 - 145
1,1-Dichloroethene	2500	2020		ug/Kg		81	67 - 122
1,2,3-Trichloropropane	2500	2140		ug/Kg		86	50 - 133
1,2,4-Trichlorobenzene	2500	2500		ug/Kg		100	57 - 137
1,2,4-Trimethylbenzene	2500	2340		ug/Kg		94	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2040		ug/Kg		82	56 - 123
1,2-Dibromoethane	2500	2180		ug/Kg		87	70 - 125
1,2-Dichlorobenzene	2500	2100		ug/Kg		84	70 - 125
1,2-Dichloroethane	2500	2370		ug/Kg		95	68 - 127
1,2-Dichloropropane	2500	2360		ug/Kg		94	67 - 130
1,3,5-Trimethylbenzene	2500	2380		ug/Kg		95	70 - 123
1,3-Dichlorobenzene	2500	2220		ug/Kg		89	70 - 125
1,3-Dichloropropane	2500	2260		ug/Kg		90	62 - 136
1,4-Dichlorobenzene	2500	2170		ug/Kg		87	70 - 120
2,2-Dichloropropane	2500	3160		ug/Kg		127	58 - 139
2-Chlorotoluene	2500	2360		ug/Kg		95	70 - 125
4-Chlorotoluene	2500	2340		ug/Kg		93	68 - 124
Benzene	2500	2180		ug/Kg		87	70 - 120

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

Lab Sample ID: LCS 500-608761/18-A
Matrix: Solid
Analysis Batch: 609670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2270		ug/Kg		91	70 - 122
Bromochloromethane	2500	2120		ug/Kg		85	65 - 122
Bromodichloromethane	2500	2390		ug/Kg		96	69 - 120
Bromoform	2500	2630		ug/Kg		105	56 - 132
Bromomethane	2500	2100		ug/Kg		84	40 - 152
Carbon tetrachloride	2500	2560		ug/Kg		103	59 - 133
Chlorobenzene	2500	2290		ug/Kg		92	70 - 120
Chloroethane	2500	2150		ug/Kg		86	48 - 136
Chloroform	2500	2370		ug/Kg		95	70 - 120
Chloromethane	2500	1770		ug/Kg		71	56 - 152
cis-1,2-Dichloroethene	2500	2250		ug/Kg		90	70 - 125
cis-1,3-Dichloropropene	2500	2390		ug/Kg		96	64 - 127
Dibromochloromethane	2500	2520		ug/Kg		101	68 - 125
Dibromomethane	2500	2070		ug/Kg		83	70 - 120
Dichlorodifluoromethane	2500	1060		ug/Kg		43	40 - 159
Ethylbenzene	2500	2470		ug/Kg		99	70 - 123
Hexachlorobutadiene	2500	3300		ug/Kg		132	51 - 150
Isopropylbenzene	2500	2380		ug/Kg		95	70 - 126
Methyl tert-butyl ether	2500	1890		ug/Kg		75	55 - 123
Methylene Chloride	2500	2080		ug/Kg		83	69 - 125
Naphthalene	2500	1860		ug/Kg		74	53 - 144
n-Butylbenzene	2500	2580		ug/Kg		103	68 - 125
N-Propylbenzene	2500	2410		ug/Kg		96	69 - 127
p-Isopropyltoluene	2500	2460		ug/Kg		98	70 - 125
sec-Butylbenzene	2500	2380		ug/Kg		95	70 - 123
Styrene	2500	2350		ug/Kg		94	70 - 120
tert-Butylbenzene	2500	2370		ug/Kg		95	70 - 121
Tetrachloroethene	2500	2730		ug/Kg		109	70 - 128
Toluene	2500	2450		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	2500	2320		ug/Kg		93	70 - 125
trans-1,3-Dichloropropene	2500	2350		ug/Kg		94	62 - 128
Trichloroethene	2500	2260		ug/Kg		90	70 - 125
Trichlorofluoromethane	2500	2270		ug/Kg		91	55 - 128
Vinyl chloride	2500	1930		ug/Kg		77	64 - 126
Xylenes, Total	5000	5060		ug/Kg		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 120*
Toluene-d8 (Surr)	*111*		*75 - 120*

Lab Sample ID: MB 500-609467/6
Matrix: Solid
Analysis Batch: 609467

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			07/15/21 11:25	1

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

Lab Sample ID: MB 500-609467/6
Matrix: Solid
Analysis Batch: 609467

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-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/15/21 11:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/15/21 11:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/15/21 11:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/15/21 11:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/15/21 11:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/15/21 11:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/15/21 11:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/15/21 11:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/15/21 11:25	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/15/21 11:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/15/21 11:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/15/21 11:25	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/15/21 11:25	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/15/21 11:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/15/21 11:25	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/15/21 11:25	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/15/21 11:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/15/21 11:25	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/15/21 11:25	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/15/21 11:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/15/21 11:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/15/21 11:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/15/21 11:25	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/15/21 11:25	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/15/21 11:25	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/15/21 11:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/15/21 11:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/15/21 11:25	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/15/21 11:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/15/21 11:25	1
Naphthalene	0.382	J	1.0	0.33	ug/Kg			07/15/21 11:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/15/21 11:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1

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

Lab Sample ID: MB 500-609467/6
Matrix: Solid
Analysis Batch: 609467

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/Kg			07/15/21 11:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/15/21 11:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/15/21 11:25	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/15/21 11:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/15/21 11:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/15/21 11:25	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/15/21 11:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/15/21 11:25	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/15/21 11:25	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/15/21 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*07/15/21 11:25*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*07/15/21 11:25*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 120*		*07/15/21 11:25*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*07/15/21 11:25*	*1*

Lab Sample ID: LCS 500-609467/28
Matrix: Solid
Analysis Batch: 609467

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/Kg		108	70 - 125
1,1,1-Trichloroethane	50.0	48.2		ug/Kg		96	70 - 125
1,1,2,2-Tetrachloroethane	50.0	61.3		ug/Kg		123	62 - 140
1,1,2-Trichloroethane	50.0	63.3		ug/Kg		127	71 - 130
1,1-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 125
1,1-Dichloropropene	50.0	45.0		ug/Kg		90	70 - 121
1,2,3-Trichlorobenzene	50.0	53.7		ug/Kg		107	51 - 145
1,1-Dichloroethene	50.0	49.0		ug/Kg		98	67 - 122
1,2,3-Trichloropropane	50.0	64.0		ug/Kg		128	50 - 133
1,2,4-Trichlorobenzene	50.0	50.6		ug/Kg		101	57 - 137
1,2,4-Trimethylbenzene	50.0	46.2		ug/Kg		92	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	60.3		ug/Kg		121	56 - 123
1,2-Dibromoethane	50.0	64.0	*+	ug/Kg		128	70 - 125
1,2-Dichlorobenzene	50.0	52.6		ug/Kg		105	70 - 125
1,2-Dichloroethane	50.0	58.6		ug/Kg		117	68 - 127
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	67 - 130
1,3,5-Trimethylbenzene	50.0	44.7		ug/Kg		89	70 - 123
1,3-Dichlorobenzene	50.0	49.5		ug/Kg		99	70 - 125
1,3-Dichloropropane	50.0	61.6		ug/Kg		123	62 - 136
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 120
2,2-Dichloropropane	50.0	47.0		ug/Kg		94	58 - 139
2-Chlorotoluene	50.0	45.9		ug/Kg		92	70 - 125
4-Chlorotoluene	50.0	48.1		ug/Kg		96	68 - 124
Benzene	50.0	50.9		ug/Kg		102	70 - 120
Bromobenzene	50.0	51.6		ug/Kg		103	70 - 122
Bromochloromethane	50.0	60.3		ug/Kg		121	65 - 122

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

Lab Sample ID: LCS 500-609467/28
Matrix: Solid
Analysis Batch: 609467

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	55.9		ug/Kg		112	69 - 120
Bromoform	50.0	66.6	*+	ug/Kg		133	56 - 132
Bromomethane	50.0	49.3		ug/Kg		99	40 - 152
Carbon tetrachloride	50.0	46.7		ug/Kg		93	59 - 133
Chlorobenzene	50.0	53.3		ug/Kg		107	70 - 120
Chloroethane	50.0	51.8		ug/Kg		104	48 - 136
Chloroform	50.0	53.5		ug/Kg		107	70 - 120
Chloromethane	50.0	43.5		ug/Kg		87	56 - 152
cis-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	50.0	52.7		ug/Kg		105	64 - 127
Dibromochloromethane	50.0	57.8		ug/Kg		116	68 - 125
Dibromomethane	50.0	64.8	*+	ug/Kg		130	70 - 120
Dichlorodifluoromethane	50.0	50.3		ug/Kg		101	40 - 159
Ethylbenzene	50.0	46.9		ug/Kg		94	70 - 123
Hexachlorobutadiene	50.0	48.6		ug/Kg		97	51 - 150
Isopropylbenzene	50.0	41.8		ug/Kg		84	70 - 126
Methyl tert-butyl ether	50.0	57.5		ug/Kg		115	55 - 123
Methylene Chloride	50.0	58.7		ug/Kg		117	69 - 125
Naphthalene	50.0	54.4		ug/Kg		109	53 - 144
n-Butylbenzene	50.0	43.6		ug/Kg		87	68 - 125
N-Propylbenzene	50.0	44.5		ug/Kg		89	69 - 127
p-Isopropyltoluene	50.0	42.8		ug/Kg		86	70 - 125
sec-Butylbenzene	50.0	41.9		ug/Kg		84	70 - 123
Styrene	50.0	53.0		ug/Kg		106	70 - 120
tert-Butylbenzene	50.0	40.8		ug/Kg		82	70 - 121
Tetrachloroethene	50.0	48.0		ug/Kg		96	70 - 128
Toluene	50.0	48.7		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 125
trans-1,3-Dichloropropene	50.0	54.1		ug/Kg		108	62 - 128
Trichloroethene	50.0	48.9		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	45.8		ug/Kg		92	55 - 128
Vinyl chloride	50.0	48.7		ug/Kg		97	64 - 126
Xylenes, Total	100	94.2		ug/Kg		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*75 - 126*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*
Dibromofluoromethane (Surr)	*110*		*75 - 120*
Toluene-d8 (Surr)	*97*		*75 - 120*

Lab Sample ID: MB 500-609670/7
Matrix: Solid
Analysis Batch: 609670

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			07/16/21 11:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1

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

Lab Sample ID: MB 500-609670/7
Matrix: Solid
Analysis Batch: 609670

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/16/21 11:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/16/21 11:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/16/21 11:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/16/21 11:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/16/21 11:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/16/21 11:14	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/16/21 11:14	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/16/21 11:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/16/21 11:14	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/16/21 11:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/16/21 11:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/16/21 11:14	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/16/21 11:14	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/16/21 11:14	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/16/21 11:14	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/16/21 11:14	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/16/21 11:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/16/21 11:14	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/16/21 11:14	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/16/21 11:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/16/21 11:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/16/21 11:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/16/21 11:14	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/16/21 11:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/16/21 11:14	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/16/21 11:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/16/21 11:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/16/21 11:14	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/16/21 11:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/16/21 11:14	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/16/21 11:14	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/16/21 11:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/16/21 11:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/16/21 11:14	1

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

Lab Sample ID: MB 500-609670/7
Matrix: Solid
Analysis Batch: 609670

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/16/21 11:14	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/16/21 11:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/16/21 11:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/16/21 11:14	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/16/21 11:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/16/21 11:14	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/16/21 11:14	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/16/21 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*07/16/21 11:14*	*1*
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*		*07/16/21 11:14*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*07/16/21 11:14*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*07/16/21 11:14*	*1*

Lab Sample ID: LCS 500-609670/5
Matrix: Solid
Analysis Batch: 609670

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	56.1		ug/Kg		112	70 - 125
1,1,1-Trichloroethane	50.0	60.4		ug/Kg		121	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.8		ug/Kg		88	62 - 140
1,1,2-Trichloroethane	50.0	47.1		ug/Kg		94	71 - 130
1,1-Dichloroethane	50.0	53.8		ug/Kg		108	70 - 125
1,1-Dichloropropene	50.0	51.2		ug/Kg		102	70 - 121
1,2,3-Trichlorobenzene	50.0	43.8		ug/Kg		88	51 - 145
1,1-Dichloroethene	50.0	43.9		ug/Kg		88	67 - 122
1,2,3-Trichloropropane	50.0	46.5		ug/Kg		93	50 - 133
1,2,4-Trichlorobenzene	50.0	46.3		ug/Kg		93	57 - 137
1,2,4-Trimethylbenzene	50.0	49.7		ug/Kg		99	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	45.2		ug/Kg		90	56 - 123
1,2-Dibromoethane	50.0	46.6		ug/Kg		93	70 - 125
1,2-Dichlorobenzene	50.0	45.5		ug/Kg		91	70 - 125
1,2-Dichloroethane	50.0	51.8		ug/Kg		104	68 - 127
1,2-Dichloropropane	50.0	48.1		ug/Kg		96	67 - 130
1,3,5-Trimethylbenzene	50.0	50.9		ug/Kg		102	70 - 123
1,3-Dichlorobenzene	50.0	47.4		ug/Kg		95	70 - 125
1,3-Dichloropropane	50.0	48.4		ug/Kg		97	62 - 136
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	70 - 120
2,2-Dichloropropane	50.0	68.8		ug/Kg		138	58 - 139
2-Chlorotoluene	50.0	51.1		ug/Kg		102	70 - 125
4-Chlorotoluene	50.0	49.7		ug/Kg		99	68 - 124
Benzene	50.0	45.6		ug/Kg		91	70 - 120
Bromobenzene	50.0	49.5		ug/Kg		99	70 - 122
Bromochloromethane	50.0	46.2		ug/Kg		92	65 - 122
Bromodichloromethane	50.0	50.5		ug/Kg		101	69 - 120
Bromoform	50.0	60.5		ug/Kg		121	56 - 132

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

Lab Sample ID: LCS 500-609670/5
Matrix: Solid
Analysis Batch: 609670

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	48.2		ug/Kg		96	40 - 152
Carbon tetrachloride	50.0	54.3		ug/Kg		109	59 - 133
Chlorobenzene	50.0	48.9		ug/Kg		98	70 - 120
Chloroethane	50.0	49.1		ug/Kg		98	48 - 136
Chloroform	50.0	51.0		ug/Kg		102	70 - 120
Chloromethane	50.0	46.5		ug/Kg		93	56 - 152
cis-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	70 - 125
cis-1,3-Dichloropropene	50.0	50.4		ug/Kg		101	64 - 127
Dibromochloromethane	50.0	53.2		ug/Kg		106	68 - 125
Dibromomethane	50.0	44.3		ug/Kg		89	70 - 120
Dichlorodifluoromethane	50.0	39.4		ug/Kg		79	40 - 159
Ethylbenzene	50.0	52.1		ug/Kg		104	70 - 123
Hexachlorobutadiene	50.0	62.5		ug/Kg		125	51 - 150
Isopropylbenzene	50.0	50.3		ug/Kg		101	70 - 126
Methyl tert-butyl ether	50.0	40.5		ug/Kg		81	55 - 123
Methylene Chloride	50.0	43.6		ug/Kg		87	69 - 125
Naphthalene	50.0	35.8		ug/Kg		72	53 - 144
n-Butylbenzene	50.0	53.2		ug/Kg		106	68 - 125
N-Propylbenzene	50.0	50.8		ug/Kg		102	69 - 127
p-Isopropyltoluene	50.0	51.5		ug/Kg		103	70 - 125
sec-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 123
Styrene	50.0	48.8		ug/Kg		98	70 - 120
tert-Butylbenzene	50.0	51.0		ug/Kg		102	70 - 121
Tetrachloroethene	50.0	56.5		ug/Kg		113	70 - 128
Toluene	50.0	50.8		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	50.0	47.7		ug/Kg		95	70 - 125
trans-1,3-Dichloropropene	50.0	49.1		ug/Kg		98	62 - 128
Trichloroethene	50.0	46.3		ug/Kg		93	70 - 125
Trichlorofluoromethane	50.0	48.7		ug/Kg		97	55 - 128
Vinyl chloride	50.0	47.8		ug/Kg		96	64 - 126
Xylenes, Total	100	105		ug/Kg		105	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 120*
Toluene-d8 (Surr)	*110*		*75 - 120*

Lab Sample ID: MB 500-610129/7
Matrix: Solid
Analysis Batch: 610129

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			07/20/21 13:37	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/20/21 13:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/20/21 13:37	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/20/21 13:37	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/20/21 13:37	1

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

Lab Sample ID: MB 500-610129/7
Matrix: Solid
Analysis Batch: 610129

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/20/21 13:37	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/20/21 13:37	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/20/21 13:37	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/20/21 13:37	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/20/21 13:37	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/20/21 13:37	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/20/21 13:37	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/20/21 13:37	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/20/21 13:37	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/20/21 13:37	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/20/21 13:37	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/20/21 13:37	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/20/21 13:37	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/20/21 13:37	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/20/21 13:37	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/20/21 13:37	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/20/21 13:37	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/20/21 13:37	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/20/21 13:37	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/20/21 13:37	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/20/21 13:37	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/20/21 13:37	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/20/21 13:37	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/20/21 13:37	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/20/21 13:37	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/20/21 13:37	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/20/21 13:37	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/20/21 13:37	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/20/21 13:37	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/20/21 13:37	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/20/21 13:37	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/20/21 13:37	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/20/21 13:37	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/20/21 13:37	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/20/21 13:37	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/20/21 13:37	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/20/21 13:37	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/20/21 13:37	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/20/21 13:37	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/20/21 13:37	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/20/21 13:37	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/20/21 13:37	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/20/21 13:37	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/20/21 13:37	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/20/21 13:37	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/20/21 13:37	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/20/21 13:37	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/20/21 13:37	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/20/21 13:37	1

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

Lab Sample ID: MB 500-610129/7
Matrix: Solid
Analysis Batch: 610129

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/20/21 13:37	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/20/21 13:37	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/20/21 13:37	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/20/21 13:37	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/20/21 13:37	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/20/21 13:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 126*		*07/20/21 13:37*	*1*
4-Bromofluorobenzene (Surr)	*121*		*72 - 124*		*07/20/21 13:37*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 120*		*07/20/21 13:37*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*07/20/21 13:37*	*1*

Lab Sample ID: LCS 500-610129/5
Matrix: Solid
Analysis Batch: 610129

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	59.7		ug/Kg		119	70 - 125
1,1,1-Trichloroethane	50.0	63.7	*+	ug/Kg		127	70 - 125
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	62 - 140
1,1,2-Trichloroethane	50.0	51.0		ug/Kg		102	71 - 130
1,1-Dichloroethane	50.0	54.7		ug/Kg		109	70 - 125
1,1-Dichloropropene	50.0	55.7		ug/Kg		111	70 - 121
1,2,3-Trichlorobenzene	50.0	44.4		ug/Kg		89	51 - 145
1,1-Dichloroethene	50.0	46.2		ug/Kg		92	67 - 122
1,2,3-Trichloropropane	50.0	52.1		ug/Kg		104	50 - 133
1,2,4-Trichlorobenzene	50.0	44.8		ug/Kg		90	57 - 137
1,2,4-Trimethylbenzene	50.0	53.2		ug/Kg		106	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/Kg		97	56 - 123
1,2-Dibromoethane	50.0	50.5		ug/Kg		101	70 - 125
1,2-Dichlorobenzene	50.0	48.2		ug/Kg		96	70 - 125
1,2-Dichloroethane	50.0	55.9		ug/Kg		112	68 - 127
1,2-Dichloropropane	50.0	51.3		ug/Kg		103	67 - 130
1,3,5-Trimethylbenzene	50.0	55.4		ug/Kg		111	70 - 123
1,3-Dichlorobenzene	50.0	49.9		ug/Kg		100	70 - 125
1,3-Dichloropropane	50.0	54.7		ug/Kg		109	62 - 136
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 120
2,2-Dichloropropane	50.0	69.3		ug/Kg		139	58 - 139
2-Chlorotoluene	50.0	55.8		ug/Kg		112	70 - 125
4-Chlorotoluene	50.0	55.1		ug/Kg		110	68 - 124
Benzene	50.0	48.0		ug/Kg		96	70 - 120
Bromobenzene	50.0	55.5		ug/Kg		111	70 - 122
Bromochloromethane	50.0	49.6		ug/Kg		99	65 - 122
Bromodichloromethane	50.0	54.7		ug/Kg		109	69 - 120
Bromoform	50.0	64.3		ug/Kg		129	56 - 132
Bromomethane	50.0	49.9		ug/Kg		100	40 - 152
Carbon tetrachloride	50.0	56.8		ug/Kg		114	59 - 133

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

Lab Sample ID: LCS 500-610129/5
Matrix: Solid
Analysis Batch: 610129

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	50.0	52.7		ug/Kg		105	70 - 120
Chloroethane	50.0	49.8		ug/Kg		100	48 - 136
Chloroform	50.0	52.7		ug/Kg		105	70 - 120
Chloromethane	50.0	50.2		ug/Kg		100	56 - 152
cis-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	70 - 125
cis-1,3-Dichloropropene	50.0	56.7		ug/Kg		113	64 - 127
Dibromochloromethane	50.0	60.0		ug/Kg		120	68 - 125
Dibromomethane	50.0	46.1		ug/Kg		92	70 - 120
Dichlorodifluoromethane	50.0	45.4		ug/Kg		91	40 - 159
Ethylbenzene	50.0	54.7		ug/Kg		109	70 - 123
Hexachlorobutadiene	50.0	65.8		ug/Kg		132	51 - 150
Isopropylbenzene	50.0	56.7		ug/Kg		113	70 - 126
Methyl tert-butyl ether	50.0	41.7		ug/Kg		83	55 - 123
Methylene Chloride	50.0	46.3		ug/Kg		93	69 - 125
Naphthalene	50.0	36.1		ug/Kg		72	53 - 144
n-Butylbenzene	50.0	55.0		ug/Kg		110	68 - 125
N-Propylbenzene	50.0	56.2		ug/Kg		112	69 - 127
p-Isopropyltoluene	50.0	54.6		ug/Kg		109	70 - 125
sec-Butylbenzene	50.0	54.7		ug/Kg		109	70 - 123
Styrene	50.0	52.6		ug/Kg		105	70 - 120
tert-Butylbenzene	50.0	56.0		ug/Kg		112	70 - 121
Tetrachloroethene	50.0	61.2		ug/Kg		122	70 - 128
Toluene	50.0	55.4		ug/Kg		111	70 - 125
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	70 - 125
trans-1,3-Dichloropropene	50.0	55.2		ug/Kg		110	62 - 128
Trichloroethene	50.0	49.2		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	50.6		ug/Kg		101	55 - 128
Vinyl chloride	50.0	49.3		ug/Kg		99	64 - 126
Xylenes, Total	100	114		ug/Kg		114	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
Toluene-d8 (Surr)	*114*		*75 - 120*

Lab Sample ID: MB 500-610361/7
Matrix: Solid
Analysis Batch: 610361

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			07/21/21 10:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/21/21 10:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/21/21 10:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/21/21 10:39	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/21/21 10:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/21/21 10:39	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/21/21 10:39	1

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

Lab Sample ID: MB 500-610361/7
Matrix: Solid
Analysis Batch: 610361

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/21/21 10:39	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			07/21/21 10:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/21/21 10:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/21/21 10:39	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/21/21 10:39	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/21/21 10:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/21/21 10:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/21/21 10:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/21/21 10:39	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/21/21 10:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/21/21 10:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/21/21 10:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/21/21 10:39	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/21/21 10:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/21/21 10:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/21/21 10:39	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/21/21 10:39	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/21/21 10:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/21/21 10:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/21/21 10:39	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/21/21 10:39	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			07/21/21 10:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/21/21 10:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/21/21 10:39	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/21/21 10:39	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/21/21 10:39	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/21/21 10:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/21/21 10:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/21/21 10:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/21/21 10:39	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/21/21 10:39	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			07/21/21 10:39	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/21/21 10:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/21/21 10:39	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/21/21 10:39	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/21/21 10:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/21/21 10:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/21/21 10:39	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/21/21 10:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/21/21 10:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/21/21 10:39	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/21/21 10:39	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/21/21 10:39	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/21/21 10:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/21/21 10:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/21/21 10:39	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/21/21 10:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/21/21 10:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/21/21 10:39	1

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

Lab Sample ID: MB 500-610361/7
Matrix: Solid
Analysis Batch: 610361

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/21/21 10:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/21/21 10:39	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/21/21 10:39	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/21/21 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*		*07/21/21 10:39*	*1*
4-Bromofluorobenzene (Surr)	*119*		*72 - 124*		*07/21/21 10:39*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*07/21/21 10:39*	*1*
Toluene-d8 (Surr)	*109*		*75 - 120*		*07/21/21 10:39*	*1*

Lab Sample ID: LCS 500-610361/5
Matrix: Solid
Analysis Batch: 610361

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	57.9		ug/Kg		116	70 - 125
1,1,1-Trichloroethane	50.0	61.9		ug/Kg		124	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.0		ug/Kg		86	62 - 140
1,1,2-Trichloroethane	50.0	47.6		ug/Kg		95	71 - 130
1,1-Dichloroethane	50.0	53.5		ug/Kg		107	70 - 125
1,1-Dichloropropene	50.0	52.5		ug/Kg		105	70 - 121
1,2,3-Trichlorobenzene	50.0	40.9		ug/Kg		82	51 - 145
1,1-Dichloroethene	50.0	45.1		ug/Kg		90	67 - 122
1,2,3-Trichloropropane	50.0	45.3		ug/Kg		91	50 - 133
1,2,4-Trichlorobenzene	50.0	43.2		ug/Kg		86	57 - 137
1,2,4-Trimethylbenzene	50.0	48.0		ug/Kg		96	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	43.0		ug/Kg		86	56 - 123
1,2-Dibromoethane	50.0	50.6		ug/Kg		101	70 - 125
1,2-Dichlorobenzene	50.0	43.8		ug/Kg		88	70 - 125
1,2-Dichloroethane	50.0	53.6		ug/Kg		107	68 - 127
1,2-Dichloropropane	50.0	51.0		ug/Kg		102	67 - 130
1,3,5-Trimethylbenzene	50.0	49.4		ug/Kg		99	70 - 123
1,3-Dichlorobenzene	50.0	45.7		ug/Kg		91	70 - 125
1,3-Dichloropropane	50.0	50.6		ug/Kg		101	62 - 136
1,4-Dichlorobenzene	50.0	44.3		ug/Kg		89	70 - 120
2,2-Dichloropropane	50.0	70.3	*+	ug/Kg		141	58 - 139
2-Chlorotoluene	50.0	49.6		ug/Kg		99	70 - 125
4-Chlorotoluene	50.0	48.7		ug/Kg		97	68 - 124
Benzene	50.0	46.6		ug/Kg		93	70 - 120
Bromobenzene	50.0	47.1		ug/Kg		94	70 - 122
Bromochloromethane	50.0	45.1		ug/Kg		90	65 - 122
Bromodichloromethane	50.0	52.6		ug/Kg		105	69 - 120
Bromoform	50.0	62.0		ug/Kg		124	56 - 132
Bromomethane	50.0	48.8		ug/Kg		98	40 - 152
Carbon tetrachloride	50.0	55.7		ug/Kg		111	59 - 133
Chlorobenzene	50.0	50.3		ug/Kg		101	70 - 120
Chloroethane	50.0	47.9		ug/Kg		96	48 - 136

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

Lab Sample ID: LCS 500-610361/5
Matrix: Solid
Analysis Batch: 610361

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	52.0		ug/Kg		104	70 - 120
Chloromethane	50.0	49.1		ug/Kg		98	56 - 152
cis-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	70 - 125
cis-1,3-Dichloropropene	50.0	52.1		ug/Kg		104	64 - 127
Dibromochloromethane	50.0	55.2		ug/Kg		110	68 - 125
Dibromomethane	50.0	45.1		ug/Kg		90	70 - 120
Dichlorodifluoromethane	50.0	43.8		ug/Kg		88	40 - 159
Ethylbenzene	50.0	51.3		ug/Kg		103	70 - 123
Hexachlorobutadiene	50.0	59.1		ug/Kg		118	51 - 150
Isopropylbenzene	50.0	50.2		ug/Kg		100	70 - 126
Methyl tert-butyl ether	50.0	41.6		ug/Kg		83	55 - 123
Methylene Chloride	50.0	43.5		ug/Kg		87	69 - 125
Naphthalene	50.0	34.4		ug/Kg		69	53 - 144
n-Butylbenzene	50.0	50.8		ug/Kg		102	68 - 125
N-Propylbenzene	50.0	49.5		ug/Kg		99	69 - 127
p-Isopropyltoluene	50.0	49.4		ug/Kg		99	70 - 125
sec-Butylbenzene	50.0	49.2		ug/Kg		98	70 - 123
Styrene	50.0	49.2		ug/Kg		98	70 - 120
tert-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 121
Tetrachloroethene	50.0	59.7		ug/Kg		119	70 - 128
Toluene	50.0	52.1		ug/Kg		104	70 - 125
trans-1,2-Dichloroethene	50.0	47.8		ug/Kg		96	70 - 125
trans-1,3-Dichloropropene	50.0	51.7		ug/Kg		103	62 - 128
Trichloroethene	50.0	47.9		ug/Kg		96	70 - 125
Trichlorofluoromethane	50.0	49.7		ug/Kg		99	55 - 128
Vinyl chloride	50.0	48.4		ug/Kg		97	64 - 126
Xylenes, Total	100	107		ug/Kg		107	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 120*
Toluene-d8 (Surr)	*113*		*75 - 120*

Lab Sample ID: MB 500-610776/8
Matrix: Solid
Analysis Batch: 610776

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			07/23/21 11:29	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			07/23/21 11:29	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			07/23/21 11:29	1
Benzene	<0.00050		0.0010	0.00050	mg/L			07/23/21 11:29	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			07/23/21 11:29	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			07/23/21 11:29	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			07/23/21 11:29	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			07/23/21 11:29	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			07/23/21 11:29	1

Eurofins TestAmerica, Chicago
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Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Jim McCarthy	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-91937-40987 1
Client Contact: Luke Hellermann	Phone: 608-251-2129 x1115	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: WI	Page: Page 1 of 1
Company: Strand Associates Inc.	PWSID:	Analysis Requested		Job #: 500-202157

Address: 910 West Wingra Drive	Due Date Requested:	
City: Madison	TAT Requested (days): NORMAL	
State, Zip: WI 53715	Compliance Project: ∆ Yes ∆ No	
Phone: 608-2512129(Tel)	PO #: Purchase Order not required	
Email: luke.hellermann@strand.com	WO #:	
Project Name: Cypress Cleaners W Beloit Rd 4344 003	Project #: 50006641	
Site:	SSOW#:	

500-202151 COC

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	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOC	8260B - VOC - TCLP	1010A - Ignitability	9045D 9095B (pH/Paint Filter)	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	N	N	N		
1	SB-1, 5-7'	7-9-21	10:50	G	Solid	N		X					
2	SB-1, 8-10'	7-9-21	11:00	G	Solid	N		X					
					Solid								
3	SB-2, 3-5'	7-9-21	11:15	G	Solid	N		X	X	X	X		• Cell prior to conducting tests circled
4	SB-2, 6-9'	7-9-21	11:20	G	Solid	N		X					
					Solid								
5	SB-3, 5-8'	7-9-21	11:45	G	Solid	N		X					
6	SB-3, 8-10'	7-9-21	12:00	G	Solid	N		X					
	• Please hold on analysis beyond VOCs until authorized. Thanks 7. Trip Blank				Solid								*TB added by ETA-CH 7/10/21 SH
					Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fed Ex				
Relinquished by: Jann R. McCarthy	Date/Time: 7/9/21 3:15	Company: STRAND	Received by: Stephanie Hernandez	Date/Time: 7/10/21 1115	Company: ETA-CHI		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company		
Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 2.4				

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

Lab Sample ID: MB 500-610776/8
Matrix: Solid
Analysis Batch: 610776

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			07/23/21 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 126*		*07/23/21 11:29*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*07/23/21 11:29*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*07/23/21 11:29*	*1*
Toluene-d8 (Surr)	*105*		*75 - 120*		*07/23/21 11:29*	*1*

Lab Sample ID: LCS 500-610776/5
Matrix: Solid
Analysis Batch: 610776

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0475		mg/L		95	67 - 122
Methyl Ethyl Ketone	0.0500	0.0496		mg/L		99	46 - 144
1,2-Dichloroethane	0.0500	0.0565		mg/L		113	68 - 127
Benzene	0.0500	0.0472		mg/L		94	70 - 120
Carbon tetrachloride	0.0500	0.0544		mg/L		109	59 - 133
Chlorobenzene	0.0500	0.0476		mg/L		95	70 - 120
Chloroform	0.0500	0.0508		mg/L		102	70 - 120
Tetrachloroethene	0.0500	0.0473		mg/L		95	70 - 128
Trichloroethene	0.0500	0.0438		mg/L		88	70 - 125
Vinyl chloride	0.0500	0.0507		mg/L		101	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*75 - 126*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: MB 500-611438/8
Matrix: Solid
Analysis Batch: 611438

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			07/28/21 12:48	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			07/28/21 12:48	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			07/28/21 12:48	1
Benzene	<0.00050		0.0010	0.00050	mg/L			07/28/21 12:48	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			07/28/21 12:48	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			07/28/21 12:48	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			07/28/21 12:48	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			07/28/21 12:48	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			07/28/21 12:48	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			07/28/21 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*75 - 126*		*07/28/21 12:48*	*1*

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

Lab Sample ID: MB 500-611438/8
Matrix: Solid
Analysis Batch: 611438

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		72 - 124		07/28/21 12:48	1
Dibromofluoromethane (Surr)	97		75 - 120		07/28/21 12:48	1
Toluene-d8 (Surr)	104		75 - 120		07/28/21 12:48	1

Lab Sample ID: LCS 500-611438/5
Matrix: Solid
Analysis Batch: 611438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0473		mg/L		95	67 - 122
Methyl Ethyl Ketone	0.0500	0.0382		mg/L		76	46 - 144
1,2-Dichloroethane	0.0500	0.0529		mg/L		106	68 - 127
Benzene	0.0500	0.0473		mg/L		95	70 - 120
Carbon tetrachloride	0.0500	0.0550		mg/L		110	59 - 133
Chlorobenzene	0.0500	0.0465		mg/L		93	70 - 120
Chloroform	0.0500	0.0497		mg/L		99	70 - 120
Tetrachloroethene	0.0500	0.0464		mg/L		93	70 - 128
Trichloroethene	0.0500	0.0451		mg/L		90	70 - 125
Vinyl chloride	0.0500	0.0412		mg/L		82	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		75 - 126
4-Bromofluorobenzene (Surr)	121		72 - 124
Dibromofluoromethane (Surr)	98		75 - 120
Toluene-d8 (Surr)	104		75 - 120

Lab Sample ID: LB 500-610775/1-A
Matrix: Solid
Analysis Batch: 610776

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			07/23/21 12:21	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			07/23/21 12:21	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			07/23/21 12:21	20
Benzene	<0.010		0.020	0.010	mg/L			07/23/21 12:21	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			07/23/21 12:21	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			07/23/21 12:21	20
Chloroform	<0.020		0.040	0.020	mg/L			07/23/21 12:21	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			07/23/21 12:21	20
Trichloroethene	<0.010		0.020	0.010	mg/L			07/23/21 12:21	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			07/23/21 12:21	20

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		75 - 126		07/23/21 12:21	20
4-Bromofluorobenzene (Surr)	105		72 - 124		07/23/21 12:21	20
Dibromofluoromethane (Surr)	99		75 - 120		07/23/21 12:21	20
Toluene-d8 (Surr)	109		75 - 120		07/23/21 12:21	20

Method: 9045C - pH

Lab Sample ID: 500-202151-3 DU
Matrix: Solid
Analysis Batch: 611097

Client Sample ID: SB-2, 3-5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.2	HF		8.2		SU				0	

Method: 9095B - Paint Filter

Lab Sample ID: 500-202151-3 DU
Matrix: Solid
Analysis Batch: 611117

Client Sample ID: SB-2, 3-5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Free Liquid	Pass			Pass		No Unit				NC	

Lab Chronicle

Client: Strand Associates, Inc.
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Job ID: 500-202151-1

Client Sample ID: SB-1, 5-7'
Date Collected: 07/09/21 10:50
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609323	07/14/21 09:59	LWN	TAL CHI

Client Sample ID: SB-1, 5-7'
Date Collected: 07/09/21 10:50
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-1
Matrix: Solid
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 10:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	610129	07/20/21 17:21	JDD	TAL CHI

Client Sample ID: SB-1, 8-10'
Date Collected: 07/09/21 11:00
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609323	07/14/21 09:59	LWN	TAL CHI

Client Sample ID: SB-1, 8-10'
Date Collected: 07/09/21 11:00
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-2
Matrix: Solid
Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	610129	07/20/21 17:47	JDD	TAL CHI

Client Sample ID: SB-2, 3-5'
Date Collected: 07/09/21 11:15
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			610775	07/22/21 16:54	EA	TAL CHI
TCLP	Analysis	8260B		20	611438	07/28/21 19:26	PMF	TAL CHI
Total/NA	Analysis	1010A		1	611762		MS	TAL CHI
					(Start)	07/28/21 13:57		
					(End)	07/28/21 15:09		
Total/NA	Analysis	9045C		1	611097		SMO	TAL CHI
					(Start)	07/26/21 15:17		
					(End)	07/26/21 15:20		
Total/NA	Analysis	9095B		1	611117		TMS	TAL CHI
					(Start)	07/26/21 13:38		
					(End)	07/26/21 13:43		
Total/NA	Analysis	Moisture		1	609323	07/14/21 09:59	LWN	TAL CHI

Lab Chronicle

Client: Strand Associates, Inc.
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Job ID: 500-202151-1

Client Sample ID: SB-2, 3-5'
Date Collected: 07/09/21 11:15
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-3
Matrix: Solid
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 11:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	610129	07/20/21 18:12	JDD	TAL CHI

Client Sample ID: SB-2, 6-9'
Date Collected: 07/09/21 11:20
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609323	07/14/21 09:59	LWN	TAL CHI

Client Sample ID: SB-2, 6-9'
Date Collected: 07/09/21 11:20
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-4
Matrix: Solid
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 11:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	610129	07/20/21 18:37	JDD	TAL CHI

Client Sample ID: SB-3, 5-8'
Date Collected: 07/09/21 11:45
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609323	07/14/21 09:59	LWN	TAL CHI

Client Sample ID: SB-3, 5-8'
Date Collected: 07/09/21 11:45
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-5
Matrix: Solid
Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 11:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	610129	07/20/21 19:01	JDD	TAL CHI

Client Sample ID: SB-3, 8-10'
Date Collected: 07/09/21 12:00
Date Received: 07/10/21 11:15

Lab Sample ID: 500-202151-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	609323	07/14/21 09:59	LWN	TAL CHI

Lab Chronicle

Client: Strand Associates, Inc.
Job ID: 500-202151-1
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Client Sample ID: SB-3, 8-10'
Lab Sample ID: 500-202151-6
Date Collected: 07/09/21 12:00
Matrix: Solid
Date Received: 07/10/21 11:15
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	610361	07/21/21 12:19	STW	TAL CHI

Client Sample ID: Trip Blank
Lab Sample ID: 500-202151-7
Date Collected: 07/09/21 00:00
Matrix: Solid
Date Received: 07/10/21 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			608761	07/09/21 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	610361	07/21/21 12:44	STW	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Strand Associates, Inc.
Job ID: 500-202151-1
Project/Site: Cypress Cleaners W. Beloit Rd 4344-003

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21