

September 13, 2022

Wisconsin Department of Natural Resources 2984 Shawano Avenue Green Bay, Wisconsin 54313

Attention: Ms. Josie Schultz Phone: 920.662.5424

Email: <u>Josie.Schultz@wisconsin.gov</u>

Re: Supplemental Vapor Intrusion Investigation and System Decommissioning Work

Plan Technical Review

Smoke-Out Cleaners

1631 Brookfield Avenue, Unit D-4

Howard, Wisconsin BRRTS #02-05-552214

Terracon Project No. 58187103

Dear Ms. Schultz:

On behalf of Smoke-Out Cleaners, Terracon Consultants, Inc. (Terracon) is submitting the attached Form 4400-237 for technical review of the enclosed Supplemental Vapor Intrusion Investigation and System Decommissioning Work Plan. An electronic copy of this document will be uploaded to the RR Program Submittal Portal. The \$700 review fee is being sent separately along with the confirmation of the report upload.

Sincerely,

Terracon

Scott A. Hodgson, P.G.

Scott D. Hodgson

Senior Project Manager

SAH/EAB:sah/N:\Projects\2018\58187103\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\WP Tech review Cover letter.docx

Enclosures: Form 4400-237

Technical Review Fee Check (\$700)

Supplemental Vapor Investigation and System Decommissioning Work Plan

Copies to: Mark Woppert-Smoke-Out Cleaners, Ltd

Don Gallo-Gallo Law, LLC Chris Dockry-Team Bay, LLC



Terracon Consultants, Inc. 9856 South 57th Street Franklin, Wisconsin 53132
P [414] 423 0255 F [414] 423 0566 terracon.com

State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 1 of 6

Notice: Use this form to request a written response (on agency letterhead) from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

- "Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.
- "Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.
- "Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.
- "Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This from should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an off-site liability exemption or clarification for Property that has been or is perceived to be contaminated by one
 or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site
 Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the Lender Liability Exemption, s 292.21, Wis. Stats., if no response or review by DNR is requested. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an exemption to develop on a historic fill site or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- Request for closure for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

- 1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
- 2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
- 3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
- 4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Form 4400-237 (R 12/18)

Page 2 of 6

| Section 1. Contact and Recip | ient Information | | | | |
|--|--|-------------------|---|-----------------------|-----------------|
| Requester Information | | | | | |
| This is the person requesting tech specialized agreement and is idea | nnical assistance or a post-contified as the requester in So | closure ection | e modification review, that his or her liability b 7. DNR will address its response letter to this | e clarifi s persor | ed or a n. |
| Last Name | First | MI | Organization/ Business Name | | |
| Woppert | Mark | | Smoke-Out Cleaners Ltd | | |
| Mailing Address | | | City | State | ZIP Code |
| 535 Half Mile Road | | | Verona | WI | 53593 |
| Phone # (include area code) | Fax # (include area code) | | Email | | - |
| (608) 438-1746 | | | mark.woppert@smoke-out.net | | |
| The requester listed above: (selection) | ct all that apply) | | | | |
| Is currently the owner | | [| Is considering selling the Property | | |
| Is renting or leasing the Pro | perty | [| Is considering acquiring the Property | | |
| Is a lender with a mortgage | e interest in the Property | | | | |
| Other Explain the status of | f the Property with respect to | o the s | annlicant | | |
| Other. Explain the status of | the rioperty with respect to | Julea | ррпсан. | | |
| | | | | | |
| | | | | | |
| Contact Information (to be c | ontacted with questions | about | this request) | ct if san | ne as requester |
| Contact Last Name | First | MI | Organization/ Business Name | | |
| Woppert | Mark | | Smoke-Out Cleaners Ltd | | |
| Mailing Address | * | • | City | State | ZIP Code |
| 535 Half Mile Road | | | Verona | WI | 53593 |
| Phone # (include area code) | Fax # (include area code) | | Email | | • |
| (608) 438-1746 | | | mark.woppert@smoke-out.net | | |
| Environmental Consultant | | | | | |
| Contact Last Name | First | MI | Organization/ Business Name | | |
| Hodgson | Scott | Α | Terracon Consultants, Inc. | 1- | 1=== - |
| Mailing Address | | | City | | ZIP Code |
| 9856 South 57th Street | 1= | | Franklin | WI | 53132 |
| Phone # (include area code) | Fax # (include area code) | | Email | | |
| (414) 209-7640 | | | Scott.Hodgson@terracon.com | | |
| Attorney (if applicable) Contact Last Name | First | MI | Organization/ Business Name | | |
| | | | | | |
| Gallo Mailing Address | Donald | P | Gallo Law, LLC City | State | ZIP Code |
| · · | | | | | |
| 1386 State Road 83 Phone # (include area code) | Fax # (include area code) | | Hartford Email | WI | 53027 |
| , | rax # (include alea code) | | | | |
| (414) 507-6350 | t from vocator) | | DonGalloLaw@outlook.com | | |
| Property Owner (if different Contact Last Name | First | MI | Organization/ Business Name | | |
| Tenor | David | | Howard Self Storage | | |
| Mailing Address | 24114 | Ь | City | State | ZIP Code |
| 1651 Brookfield Avenue | | | Green Bay | WI | 54313 |
| Phone # (include area code) | Fax # (include area code) | | Email | **1 | 1 37313 |
| (920) 437-1184 | (1111 2 1330) | | howardselfstorage@gmail.com | | |

Page 3 of 6

Form 4400-237 (R 12/18)

| Property Name | | | FID No. (if known) | | |
|---|---|--|---|--|--|
| Smoke-Out Cleaners Ltd | | | , | | |
| BRRTS No. (if known) | Parcel Identification Number | | | | |
| 0205552214 | | | | | |
| Street Address | J17780-20 City | | State ZIP Code | | |
| | | | | | |
| 1631 Brookfield Drive, Unit D-4 County Municipality where the Property is I | Howard | Property is com | WI 54313 uposed of: Property Size Acres | | |
| Brown City City Town Village of Ho | | Single tax parcel | Multiple tax parcels 16 | | |
| Is a response needed by a specific date? (e.g., Property closir plan accordingly. | ng date) Note: Most | requests are com | pleted within 60 days. Please | | |
| No ○ Yes | | | | | |
| Date requested by: | | | | | |
| Reason: | | | | | |
| | | | | | |
| | | | | | |
| 2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary | ary Party Liability Ex | kemption (VPLE) p | rogram? | | |
| No. Include the fee that is required for your request in | Section 3, 4 or 5. | | | | |
| Yes. Do not include a separate fee. This request will be | billed separately thi | rough the VPLE Pr | ogram. | | |
| Fill out the information in Section 3, 4 or 5 which correspond | onds with the type | of request: | | | |
| Section 3. Technical Assistance or Post-Closure Modifi | | • | | | |
| | | | | | |
| Section 4. Liability Clarification; or Section 5. Specialize | ed Agreement. | | | | |
| Section 4. Liability Clarification; or Section 5. Specialize Section 3. Request for Technical Assistance or Post-Clos | | | | | |
| | ure Modification | /I DNR Use] | | | |
| Section 3. Request for Technical Assistance or Post-Clos Select the type of technical assistance requested: [Numbers in No Further Action Letter (NFA) (Immediate Actions) - | ure Modification brackets are for W NR 708.09, [183] | - Include a fee of | \$350. Use for a written response are for a one-time spill event. | | |
| Section 3. Request for Technical Assistance or Post-Clos Select the type of technical assistance requested: [Numbers in | ure Modification brackets are for W NR 708.09, [183] us substance occur | - Include a fee of s. Generally, these | \$350. Use for a written response are for a one-time spill event. | | |
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Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

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Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

| Section 5. Request for a Specialized Agreement |
|--|
| Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: doi.org/ |
| Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654] |
| ❖ Include a fee of \$700, and the information listed below: |
| (1) Phase I and II Environmental Site Assessment Reports, |
| (2) a copy of the Property deed with the correct legal description. |
| Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666] |
| Include a fee of \$700, and the information listed below: |
| (1) Phase I and II Environmental Site Assessment Reports, |
| (2) a copy of the Property deed with the correct legal description. |
| Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630] |
| Include a fee of \$1400, and the information listed below: |
| (1) a draft schedule for remediation; and, |
| (2) the name, mailing address, phone and email for each party to the agreement. |
| Section 6. Other Information Submitted Identify all materials that are included with this request. |
| Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form |
| and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk. |
| Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information. |
| Phase I Environmental Site Assessment Report - Date: |
| Phase II Environmental Site Assessment Report - Date: |
| Legal Description of Property (required for all liability requests and specialized agreements) |
| Map of the Property (required for all liability requests and specialized agreements) |
| Analytical results of the following sampled media: Select all that apply and include date of collection. |
| ☐ Groundwater ☐ Soil ☐ Sediment ☐ Other medium - Describe: |
| Date of Collection: 08/04/2022 |
| A copy of the closure letter and submittal materials |
| ☐ Draft tax cancellation agreement |
| ☐ Draft agreement for assignment of tax foreclosure judgment |
| Other report(s) or information - Describe: Supplemental Vapor Investigation and System Decommissioning Work Plan |
| For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code? |
| Yes - Date (if known): |
| ○ No |
| Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at: dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf . |
| Section 7. Certification by the Person who completed this form |
| I am the person submitting this request (requester) |
| ☐ I prepared this request for: Mark Woppert/Chris Dockry |
| Requester Name |

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

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| | 9/13/22 | | |
|------------------------------|--------------------------------------|--|--|
| Signature | Date Signed | | |
| Senior Project Manager, P.G. | (414) 209-7640 | | |
| Title | Telephone Number (include area code) | | |
| 1 4 0 4 1 | | | |

Scott D. Hodgson

Form 4400-237 (R 12/18)

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Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a <u>DNR regional brownfields specialist</u> with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf.

DNR NORTHERN REGION

Attn: RR Program Assistant Department of Natural Resources 223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION

Attn: RR Program Assistant Department of Natural Resources 2984 Shawano Avenue Green Bay WI 54313

DNR SOUTH CENTRAL REGION

Attn: RR Program Assistant Department of Natural Resources 3911 Fish Hatchery Road Fitchburg WI 53711

DNR SOUTHEAST REGION

Attn: RR Program Assistant Department of Natural Resources 2300 North Martin Luther King Drive Milwaukee WI 53212

DNR WEST CENTRAL REGION

Attn: RR Program Assistant Department of Natural Resources 1300 Clairemont Ave. Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

| | DNR Use Only | | | | | | |
|---------------|---------------------|-------|---------------------------------------|--|--|--|--|
| Date Received | Date Assigned | | BRRTS Activity Code | BRRTS No. (if used) | | | |
| DNR Reviewer | | Comme | ents | | | | |
| Fee Enclosed? | Fee Amount | | Date Additional Information Requested | Date Requested for DNR Response Letter | | | |
| ◯ Yes ◯ No | \$ | | | | | | |
| Date Approved | Final Determination | | | | | | |



Remediation and Redevelopment Program Wisconsin Department of Natural Resources 2984 Shawano Avenue Green Bay, Wisconsin 54313

Attention: Ms. Josie Schultz Telephone: 920.662.5178

E-mail: Josie.Schultz@wisconsin.gov

RE: Supplemental Vapor Investigation and System Decommissioning Work Plan

Smoke-Out Cleaners 1631 Brookfield Avenue, Unit D-4 Howard, Wisconsin ("Property") BRRTS #02-05-552214 Terracon Project No. 58187103

Dear Ms. Schultz:

On behalf of Smoke-Out Cleaners (Smoke-Out), Terracon Consultants, Inc. (Terracon) has prepared this Supplemental Vapor Intrusion Investigation Work Plan (SVIIWP) for the above-referenced project (see the attached Figure 1) in general conformance with Wisconsin Administrative Code (WAC), Chapter NR 716. A brief project background, proposed scope of services, and tentative schedule are provided in the following sections.

Also on behalf of Smoke-Out, Terracon requests Wisconsin Department of Natural Resources (WDNR) review and comment regarding this SVIIWP. A completed "Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request" (WDNR form 4400-237) is included. The associated fee (\$700) will be submitted separately along with the verification of WDNR receipt of the electronic copy of this SVIIWP.

1.0 BACKGROUND

1.1 Previous Investigations

A Preliminary Site Assessment (PSA) was completed at the site by Giles Engineering Associates (Giles) in August 2008. The PSA included two interior soil borings (HP-1 and HP-2) near the dry cleaning machine (DCM) and one exterior hand boring (GP-1) near the rear (west) service door (see the attached Figure 2). The PSA identified chlorinated volatile organic compounds (CVOCs) in both soil and groundwater. As a result, a Notification of Release was submitted to the WDNR on August 21, 2008. The WDNR issued a Responsible Party (RP) letter on August 29, 2008, that



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named Mark Woppert of Smoke-Out as the RP and required a site investigation be performed to determine the magnitude and extent of contamination.

Giles performed the subsequent site investigation during multiple phases from 2008 through 2017. Giles advanced a total of 12 additional direct-push soil borings from July 2011 through March 2017, to investigate the nature and extent of soil and groundwater contamination. Nine shallow, small-diameter prepacked observation wells (MW-1 through MW-9) and one piezometer (PZ-1) were installed. Four observation wells (MW-1 through MW-4) were installed in the building's interior. A total of eight sub-slab vapor sampling points (VP-1 through VP-8) were installed during the course of the site investigation, including five within the Smoke-Out space, and three in the south adjacent Badger Scale space. Soil, sub-slab vapor, and groundwater samples were collected and analyzed for volatile organic compounds (VOC). Giles also collected groundwater samples from the four potable wells that serve the occupied buildings in the business park. The site investigation results indicated that soil and groundwater had been impacted above applicable standards by CVOCs, and that indoor air may be impacted based on sub-slab vapor results that exceeded small commercial vapor risk screening levels (VRSLs). The site investigation indicated that shallow soils were primarily fine to medium-grained sand with varying amounts of silt to depths of approximately 10-12 feet below grade. The sand is underlain by clay, silt, and silty clay to the terminus of the deepest boring at approximately 30 feet below grade. Groundwater at the site is shallow, typically ranging from approximately 2.5 to 4.5 feet below grade, but seasonally may be as shallow as 1.5 feet below grade in some parts of the site (see attached Table 1). Giles showed shallow groundwater flow generally to the east.

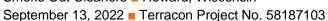
The site investigation results were documented in Giles' *Site Investigation Report* dated August 31, 2017. The soil, groundwater, and vapor sampling locations are shown on Figure 2. Soil, groundwater, and sub-slab vapor samples were collected and analyzed for VOC.

Specifically, the soil to groundwater pathway residual contaminant level (RCL) for soil was exceeded for one or more CVOCs including cis-1,2-dichloroethene (cis-DCE), methylene chloride, PCE, and trichloroethene (TCE) at interior borings HP-1, HP-2, MW-2, MW-3, and MW-4, and exterior boring GP-1. The highest concentration detected in soil was 2,500 micrograms per kilogram (µg/kg) PCE at 2 to 3 feet below grade at interior soil boring MW-3, located near the DCM.

During the groundwater sampling event conducted in March 2017, the CVOCs cis-DCE, PCE, TCE, and vinyl chloride (VC) were detected at concentrations above their respective WAC, Chapter NR 140 Enforcement Standard (ES) at one or more interior observation wells, including MW-1, MW-3, and MW-4 (see attached Table 2).

The sub-slab vapor sampling results indicated that PCE and/or TCE were detected at concentrations above their respective small commercial VRSLs at sub-slab vapor monitoring

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points VP-1, VP-4, VP-5, and VP-8 located within the Smoke-Out space, and at VP-2 and VP-7 located within the south adjoining Badger Scale space.

Based on review of the initial *Site Investigation Report*, the WDNR requested an additional round of sub-slab vapor sampling in conjunction with indoor ambient air sampling. The field work was performed on October 25, 2017. Two, 8-hour indoor ambient air samples were collected. One was from the office area of Smoke-Out (IA-1) and the other from the office area of Badger Scale to the south. The results were documented in Giles' *Site Investigation Report Addendum*, dated December 6, 2017.

The results indicated that PCE concentrations in indoor ambient air sample IA-1 was above the WDNR small commercial vapor action limit (VAL). The sub-slab vapor sampling results confirmed that PCE and/or TCE concentrations remained above their respective small commercial VRSLs at sub-slab vapor monitoring points VP-1, VP-4, VP-5, and VP-8 located within the Smoke-Out space, and at VP-2 and VP-7 located within the south adjoining Badger Scale space.

The October 2017 sampling and December 2017 reporting were Giles' final activities at the site. No work was completed during 2018 as the site information was being reviewed by the WDNR and competitive bids were being sought by the WDNR for site remediation. Ultimately, Terracon was selected to oversee site remediation activities in 2018, and the WDNR requested supplemental investigation prior to the start of remedial activities. The SSI was initiated in accordance with Terracon's December 4, 2018, *Supplemental Site Investigation Work Plan*.

On March 19, 2019, Terracon supervised Horizon Construction and Exploration, LLC during the advancing of soil borings GP-4 and PZ-2. The borings were advanced using a drill rig capable of collecting soil samples using direct-push methods and turning hollow-stem augers. Soil boring GP-4 was advanced inside the Smoke-Out facility north of observation well MW-2, and boring PZ-2 was advanced outside of the facility northeast of monitoring well MW-2. One unsaturated soil sample was collected from 1-foot below ground surface (bgs) in each boring for analysis of VOCs. VOCs were not detected at concentrations above the analytical limit of detection (LOD) in the two soil samples submitted for laboratory analysis. The apparent source area of CVOCimpacted soil (predominantly PCE) is located in the shallow soil beneath the building near the DCM. PCE, cis-DCE, and methylene chloride were detected at concentrations which exceed their respective soil to groundwater pathway RCLs. The area includes the south half of the Smoke-Out Cleaners space and north part of the Badger Scale space. This area encompasses hand probes HP-1 and HP-2, observation wells MW-1 through MW-4, and soil boring GP-1. The highest PCE concentration was detected 2 to 3 feet below floor grade at well MW-3 near the DCM at a concentration of 2,500 µg/kg. The impacted area is primarily beneath the Smoke-Out and Badger Scale tenant spaces and is approximately 50 feet wide (north-south) by 60 feet (west-east).

Smoke Out Cleaners

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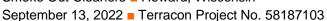
PCE and TCE concentrations in sub-slab vapor points beneath both the Smoke-out Cleaners and Badger Scale spaces exceed the small commercial and large commercial/industrial VRSLs. Sub-slab vapor points VP-1, VP-4, VP-5, and VP-8 are located in the Smoke-Out Cleaners tenant space, while vapor points VP-2 and VP-7 are located within the Badger Scale tenant space. The highest PCE vapor concentration detected in October 2017 (the most recent sampling event) was 564,000 micrograms per cubic meter (µg/m³). The ellipse-shaped area which exceeds the large commercial/industrial VRSLs beneath the building's interior is approximately 80 feet (north-south) by 60 feet (west-east). Although PCE is used at the site and would contribute to indoor air PCE concentrations, the shallow PCE-contaminated groundwater also provides a source to potentially complete the sub-slab to indoor air pathway. The sub-slab vapor source should be addressed to eliminate or interrupt that potential pathway. The estimated extent of the sub-slab vapor exceedances as of October 2017 along with historical sub-slab results are shown on Figure 3.

Based on information from Giles' report, PCE and TCE were detected in indoor air samples collected from indoor air sample point IA-1. PCE was detected at a concentration exceeding its large commercial VAL. TCE was detected at a concentration below its strictest VAL (residential). At indoor air monitoring point IA-2, PCE was detected below its strictest VAL (residential) and TCE was detected below its LOD.

On March 27, 2019, Terracon personnel collected groundwater samples from the 10 observation wells and two piezometers located on the site. After groundwater conditions stabilized, groundwater samples were collected in laboratory-supplied sample containers, placed on ice, and submitted under chain-of-custody (COC) control to Pace for the laboratory analysis of VOCs. Samples from observation wells MW-1, MW-2, MW-3, MW-4, and MW-7 were also analyzed for the geochemical indicator parameters methane/ethane/ethene (MEE), total organic carbon (TOC), and dissolved iron for use in evaluating aquifer characteristics (see attached Table 3). PCE and its degradation daughter compounds, TCE, cis-DCE, trans-1,2-dichloroethene (trans-DCE), and VC were detected at concentrations above their NR 140, WAC, Preventive Action Limit (PAL) and/or ES. Interior monitoring wells MW-3 and MW-4 exhibited PCE, TCE, cis-DCE, and VC concentrations that exceed their respective ESs. Trans-DCE was detected in groundwater from MW-3 and MW-4; however, the concentrations were below PALs. Groundwater from MW-1 contained PCE, TCE, and VC at concentrations above their respective ESs, and cis-DCE at a concentration above its PAL. Although concentrations remain above the ES in the three interior wells, PCE and TCE levels have generally declined from historical highs while cis-DCE and VC concentrations have increased. Groundwater from piezometers PZ-1 and PZ-2 did not contain VOCs at concentrations above LODs.

The dissolved-phase CVOC plume originates near the DCM, coinciding with the area with the highest concentrations of CVOCs in soil in the area near observation well MW-3. The CVOC contaminant plume lies entirely beneath the building in the vicinity of the DCM, and encompasses wells MW-1, MW-3, and MW-4. The contaminant plume extends southward beneath the adjacent

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Badger Scale space. At each observation well within the contaminant plume, one or more CVOCs including PCE, TCE, cis-DCE, and VC exceeded their respective ESs in the March 2019 groundwater sampling event.

Groundwater at the site is present at depths ranging from approximately 0.60 to 2 feet bgs in the sands, with flow variably to the north, northeast, or east. VOCs have not been detected in piezometers PZ-1 and PZ-2 at concentrations above their LOD, defining the vertical extent of groundwater contamination.

The dissolved-phase CVOC plume at concentrations above its ES was delineated and estimated to be 40 feet long (north-south) and 45 feet wide (west-east). Historical analytical groundwater results are summarized in the attached Table 2.

Terracon prepared a *Supplemental Site Investigation and Remedial Action Plan Report*, dated January 9, 2020, to address soil, groundwater, and vapor concerns. VOCs were not detected at concentrations above the analytical LODs in the two soil samples submitted for laboratory analysis. Six VOCs were detected at concentrations above their LODs in the groundwater samples collected on March 28, 2019. PCE and its degradation daughter compounds, TCE, cis-DCE, trans-DCE, and VC were detected at concentrations above their PALs and/or ESs. Interior monitoring wells MW-3 and MW-4 exhibited PCE, TCE, cis-DCE, and VC concentrations that exceed their respective ESs. Groundwater from piezometers PZ-1 and PZ-2 did not contain VOCs at concentrations above LODs.

Based on the results of the remedial action options evaluation, a remedial action plan (RAP) was developed to address the identified impacted soil, groundwater, and sub-slab vapor and facilitate a path towards case closure. The recommended RAP included installation of a sub-slab depressurization system (SSDS), in-situ amendment injection in the contaminant source area to stimulate enhanced reductive dechlorination (ERD), followed by quarterly groundwater monitoring to demonstrate remedy effectiveness.

1.2 Remedial Actions

The proposed remedial actions described in the RAP were implemented in June 2020 following receipt of the injection approval in correspondence from WDNR on March 17, 2020. The actions included:

- Baseline groundwater monitoring (June 9, 2020);
- Initial installation of the SSDS with two drop points (June 9, 2020);
- Injection of a total of approximately 1,224 gallons of amendments (Regenesis products 3-D Microemulsion [3DMe][®], Sulfidated Micro Zero Valent Iron [S-MicroZVI], and Bio-Dechlor Inoculum Plus [BDI Plus®]) and water distributed into 12 injection borings (June 10-11, 2020);

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- Post-injection sampling of total organic carbon from selected interior groundwater observation wells (June 11, 2020);
- Installation of 15 vacuum monitoring points, completion/startup of the SSDS, and initial pressure extension field (vacuum) testing (July 14, 2020); and
- Subsequent post-injection vacuum, gas, and groundwater monitoring.

The initial post-injection TOC indicated good distribution of the amendment in the target area. Vacuum monitoring indicated SSDS influence over the area of concern during high groundwater conditions, but a smaller area of influence during low groundwater conditions. Gas monitoring (VOCs, methane, carbon dioxide [CO₂], and oxygen [O2]) at the south drop point stack indicated decreasing VOCs as measured by a photoionization detector (PID) from 59.8 parts per million volume (ppmv) in September 2020 to <1 ppmv in June 2021 before increasing slightly to 8 ppmv in September 2021.

1.3 Post-Injection Groundwater Monitoring

There have been six post-injection groundwater monitoring events performed from July 2020 through September 2021. The attached Table 2 presents the historical groundwater analytic test results. Monitoring well MW-3, which is nearest the former DCM location (see the attached map) and should be considered "the source area", had the highest overall concentrations historically. However, as of September 2021, most of the CVOCs have been degraded and only vinyl chloride remains at 0.55 micrograms per liter (μ g/L), just above its ES of 0.2 μ g/L. CVOCs have also been degraded in the other three interior monitoring wells (MW-1, MW-2, and MW-4) and during the most recent sampling event (September 2021) only vinyl chloride remained above its ES at MW-1 (1.1 μ g/L) and MW-2 (0.40 μ g/L). In September 2021, there was no detection of CVOCs above their LOD in monitoring well MW-4. In addition to vinyl chloride only low concentrations of cis-DCE or trans-DCE (0.95 to 1.3 μ g/L) were detected in monitoring wells MW-1 through MW-3 in September 2021.

Terracon monitored total organic carbon (TOC) at critical monitoring points during pre-injection baseline monitoring (June 9, 2020), immediately after injection (June 11, 2020), and in post-injection monitoring events as a measure of when the injected amendment is spent. Attached is the groundwater geochemical results table (Table 3), which presents historical geochemical field and lab parameter results. The typical pattern is to see approximately 5 milligrams per liter (mg/L) TOC prior to injection, a spike after injection, and gradual decrease over time in post-injection monitoring events. The amendment is generally considered spent when post-injection TOC falls to below 20 mg/L, even though that is still above pre-injection values. At monitoring well MW-3, TOC initially increased to 690 mg/L but has been below 20 mg/L for the last four sampling rounds (December 2020 and March, June, and September 2021) without rebound of CVOC concentrations.

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1.4 Remedial Action Documentation Report

Terracon prepared a *Remedial Action Documentation Report* (RADR) dated December 16, 2021, which documented the remedial actions, subsequent post-injection groundwater monitoring results, and statements regarding emerging contaminants including per and polyfluoroalkyl substances (PFAS) and 1,4-dioxane. The RADR was submitted with a completed Form 4400-237 and fee for technical review and written comment by the WDNR. The WDNR provided comment in correspondence dated February 8, 2022, indicating the need for additional information pertaining to PFAS before they could determine whether PFAS sampling was necessary, the need for additional information regarding the deep groundwater to determine if the groundwater investigation was complete, and the need for additional vapor intrusion investigation to obtain data required in recently published WDNR guidance.

Terracon prepared a response dated June 10, 2022, which provided additional PFAS scoping information; data and information regarding the site geology, potable well construction, and piezometer information; and which agreed to additional vapor intrusion investigation to come into compliance with recent WDNR guidance. In an email response dated June 27, 2022, WDNR agreed that PFAS was not necessary based on the additional information provided. In a further email response dated June 30, 2022, WDNR stated:

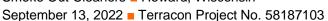
"Based on current information and recent justification provided, it's difficult to determine that vertical extent of (groundwater) contamination is defined at this time. One concern is that piezometers have not been sampled since December 2020, and the injection may have pushed contamination downward. Prior to submitting a workplan for additional investigation, we recommend sampling piezometers at a minimum to show vertical extent hasn't been affected by the injection."

2.0 PIEZOMETER SAMPLING AND GROUNDWATER SCOPING

Because Terracon needed to mobilize to the site to inspect the sanitary cleanout and floor drain prior to sampling (see Section 5.3), Smoke-Out decided to sample the piezometers at the same time. The inspection and piezometer sampling were performed on August 4, 2022.

Prior to purging, static water levels were measured to the nearest 0.01 foot at each monitoring well in the well nests (MW-8/PZ-1 and MW-10/PZ-2). Historical groundwater elevations are presented in the attached Table 1 and are shown on the attached groundwater hydrographs (Figures 4 and 5). The groundwater elevations on August 4, 2022, represent historical low or near historical low elevations at each well. The vertical gradient at each well nest was calculated using the bottom well screen method (Δ groundwater elevations/ Δ bottom screen elevations) in each well nest. The results indicated a downward vertical gradient of 0.0056 foot per foot (ft/ft) or 0.56% at monitoring well nest MW-8/PZ-1 and 0.019 ft/ft or 1.9% at monitoring well nest MW-10/PZ-2.

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Due to overall lower groundwater elevations, there has been a downward vertical gradient present at the MW-10/PZ-2 well nest since June 30, 2021. The downward vertical gradient at the MW-10/PZ-2 well nest on August 4, 2022, represents an historical high downward vertical gradient.

The two piezometers were purged and sampled using low-flow sampling methods whereby purging was considered complete when parameter measurements (pH, temperature, dissolved oxygen [DO], oxidation-reduction potential [ORP], and specific conductance) were within 10% for three consecutive readings taken at least 5 minutes apart indicating stabilization. Samples were collected into laboratory-supplied containers after stabilization was reached. The samples were placed on ice in a cooler and shipped under chain-of-custody (COC) protocols to a Wisconsincertified laboratory for analysis of VOCs by United States Environmental Protection Agency (USEPA) Method 8260B.

The results indicated no detection of VOCs above the laboratory LOD in either piezometer. The results are summarized in the attached Table 2. The laboratory analytic test reports, COC record, and groundwater sampling field sheets are also attached.

The no detect of VOCs above the LOD in both piezometers on August 4, 2022, is significant because there has been a downward vertical gradient present at that location for more than a year with the greatest recorded downward vertical gradient present on August 4 such that the no detect of VOCs above the LOD occurred under worst-case scenario conditions. Therefore, the August 4, 2022, piezometer results in conjunction with information presented in Terracon's June 10, 2022, Response to WDNR RADR Comments including the stratigraphy (sand over clay limiting downward plume movement), typical upward vertical gradient, potable well construction and depth, potable well sampling results (no detect even prior to remediation), relatively young age of the release, overall low to moderate contaminant mass prior to remediation, and destruction of that contaminant mass since injection, indicate that there is no reason to pursue additional deep groundwater investigation.

In regards to post-injection groundwater monitoring, based on the monitoring data through September 2021, the amendment was already spent in the source area at monitoring well MW-3 as of December 2020. Thus, 1 year of quarterly monitoring has already been completed after the amendment was "spent" in the source area. Since WDNR requires 2 years of monitoring after amendments are spent, only one more year of monitoring is needed. Therefore, Smoke-Out proposes to collect two more rounds of post-injection groundwater samples (approximately January 2023 and December 2023). If the results are similar to or decreased from the September 2021 results, closure should be appropriate from the groundwater perspective. If the results indicate increasing trends, additional future monitoring will likely be necessary.

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3.0 SYSTEM DECOMMISSIONING

Based on the results of the injection and post-injection groundwater monitoring summarized above, Terracon recommends decommissioning the sub-slab vapor depressurization system in preparation for potential regulatory site closure. In accordance with WDNR guidance document RR-800 *Addressing Vapor Intrusion at Remediation Sites in Wisconsin* (January 2018), Appendix F-Decommissioning Guidelines, the SSDS will be shut down and sub-slab conditions allowed to equilibrate for 2 to 4 weeks prior to the first decommissioning sampling event. As proposed in Terracon's January 9, 2020, *Supplemental Site Investigation and Remedial Action Plan Report,* Terracon will collect 30-minute vapor samples from sub-slab vapor monitoring points VP-4, VP-5, VP-7, and VP-8. Leak testing will be performed at each vapor point prior to sampling. Samples will be collected in 6-Liter Summa Canisters and submitted under Chain-of-Custody (COC) protocols to a Wisconsin-certified lab (Pace Analytical) for analysis of dry-cleaner related VOCs (PCE, TCE, cis-DCE, trans-DCE, and vinyl chloride [VC]) by EPA Method TO-15.

If the results indicate the VRSLs continue to be exceeded, the system will be restarted. If there are no VRSL exceedances, the system will remain off and two additional sub-slab vapor sampling events will be performed. In accordance with RR-800, the second decommissioning sampling event will be performed 2 to 6 months after system shutdown and the third will be performed within a year of system shutdown. Two of the system decommissioning sampling events will be performed during the heating season and one event during the non-heating season to evaluate conditions and verify the system can remain off permanently. Each verification vapor sampling event will be conducted as described above for the initial vapor monitoring event.

The results from each sampling event will be submitted to the WDNR. If the data from the three system decommissioning sample events is favorable and the WDNR concurs that the system is no longer needed to interrupt the vapor migration pathway, Terracon will remove the system. A system decommissioning report will be prepared and submitted to the WDNR which will document the removal.

4.0 VAPOR INTRUSION SCOPING

In WDNR's February 8, 2022, Conditional Approval of the Remedial Action Documentation Report, which provided a response to Terracon's December 16, 2021, Remedial Action Documentation Report, comments regarding additional vapor intrusion investigation included:

"In the attached email sent to Scott Hodgson on March 4, 2021, DNR stated that additional vapor sampling is required at the site, including a sanitary sewer investigation, indoor air sampling at the adjacent Badger Scale tenant space to the south, and potentially sub-slab sampling beneath the adjacent Diamond Builders tenant space to the north."

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That email included the following comments:

- 1. "Verify through pressure field extension testing data (if the SSDS is to remain running) that the existing VMS captures VP-8 (PCE/TCE >> VRSL) up to VP-3 (PCE/TCE < VRSLs).
- 2. Additional indoor air sampling at the Badger Scale unit immediately to the south is needed due to TCE > VRSL. A second event should be collected to supplement the previous IA event performed by Giles in 10/2017. If the intent remains to shut down the VMS, DNR suggests the IA sampling at Badger Scale wait to be combined with the decommissioning sampling. The intent being to verify no exposure is occurring after interim & RA.
- 3. The adjacent building to the east is less than 100 ft from the soil source. It is unclear if a VI investigation is needed at this location with the operating VMS and injection performed. We need more information about the business in that location and sanitary lateral information for further consideration. If post-injection soil data is collected in addition to sub-slab vapor data, this should be further considered when evaluating whether a VI investigation is needed at the adjacent building.
- 4. The sanitary sewer preferential pathway should be investigated since this is a former active dry cleaner. If the septic includes a drain field, the drain field should also be investigated if found to be impacted. If the septic is a holding tank, we still need to consider vapor migration into occupied spaces from the sewer, if found to be impacted. This would include a vapor grab sample from the sanitary clean-out.
- 5. Please review Appendix F of RR-800, decommissioning guidelines for a sub-slab depressurization system (SSDS): collect at least three rounds of sub-slab samples (2-4 weeks post shut-down; 2-6 months & 1 year with at least two events during the heating season).
- 6. DNR will need to review at least 8 rounds of quarterly post-injection groundwater monitoring data prior to considering site closure before all injection compounds have been spent.
- 7. Submit a work plan describing how these items will be addressed."

Items 1 through 4 are discussed below. Item 5 was addressed in Section 3.0 and Item 6 was discussed in Section 2.0 above. This work plan (Section 5.0) addresses Item 7.

Item 1

The SSDS was designed to capture the sub-slab vapor field where there were VRSL exceedances encompassing vapor point VP-8 to the north and MW-4/VP-7 to the south. Pressure field extension (vacuum) testing verified that the SSDS did capture those areas, but did not extend north to vapor point VP-3 or south to VP-6. If the SSDS was to remain running, it is unclear what WDNR means by "verify pressure field extension testing data that the existing VMS captures VP-8 (PCE/TCE >> VRSL) up to VP-3 (PCE/TCE < VRSLs)." It is unclear how close to VP-3 the area of vacuum influence needs to extend or why. At this time, based on the groundwater monitoring results, Terracon recommends decommissioning the system. As a conservative measure, vapor monitoring points VP-3 and VP-6 will be resampled to verify that there are no VRSL (see Section 5.1) exceedances after system shutdown. If the results indicate VRSL exceedances at either of these locations, the SSDS will be evaluated, modified if necessary to capture those areas, re-

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started, and the pressure (vacuum) field re-tested to verify influence over the area of concern.

Item 2

Because there were pre-remedial sub-slab VRSL and indoor ambient air VAL exceedances for large commercial buildings in the enclosed area near vapor monitoring point VP-7 (see the attached Table 4), within the Badger Scale space, adjacent south of Smoke-Out Cleaners, post-SSDS confirmation indoor ambient air samples will be necessary to verify VAL exceedances do not remain (see Section 5.2).

Item 3

Current general requirements for vapor intrusion investigation include assessment of structures within 100 feet of the margins of soil or ground contamination. The building to the east of Smoke-Out (1651 Brookfield Avenue) is approximately 110 feet from the Smoke-Out building and more than 135 feet from the original soil source area and groundwater plume edge. Further, there are no underground utilities that connect the buildings as the sanitary sewer and potable water systems for each building are separate. Therefore, based on distance between the buildings, lack of migration pathways, and contaminant mass removal by the remedial actions, a vapor intrusion investigation of the building east of the Smoke-Out building is not necessary.

Item 4

Vapor intrusion and utility investigation procedures and regulatory requirements have evolved rapidly since the vapor intrusion investigation was initially performed at this site. The WDNR recently released the guidance document *RR-649 Guidance for Documenting Human-Made Preferential Pathways Including Utility Corridors (June 2021)* to provide information on assessing vapor migration associated with utilities such as sanitary sewer lines by collecting vapor samples from sanitary lateral cleanouts (or other points of entry such as floor drains) and sanitary sewer manholes. These criteria will be applied to this site to bring the site vapor investigation into compliance with the recent guidance. In this case, current vapor intrusion guidance indicates 2 to 3 three rounds of sampling are required for vapor intrusion investigations for sub-slab, indoor air, and utility samples with at least one round collected during the winter assessment period season.

The sanitary sewer system at the site consists of sanitary laterals that lead from each lease space in the building to a holding tank on the west side of the building. The holding tank is periodically pumped out and the sewage treated elsewhere. A sanitary lateral cleanout is present in the floor of the northern Smoke-out space boiler room west of the bathrooms. There is also a similar cleanout near the north wall of the northern Smoke-Out space. The cleanout allows direct access to the sanitary lateral by removing the 4-inch diameter cap. In addition, each bay (north and south) of the Smoke-out space has a floor drain. The floor drain in the south bay is closest to the former DCM source area and therefore is of most interest for vapor intrusion investigation. Section 5.3 presents the proposed sampling plan for evaluating vapor migration associated with the sewer system.

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5.0 SUPPLEMENTAL VAPOR INTRUSION INVESTIGATION WORK PLAN

The additional vapor intrusion investigation sampling proposed below will be performed in conjunction with the SSDS decommissioning sampling described in Section 3.0. Based on the results of the initial event, Terracon may recommend that the number of sampling points be reduced or, if necessary, additional sampling points added for future rounds. Up to three sampling events will be performed, if necessary.

5.1 Sub-Slab Vapor Sampling

Terracon proposes to sample sub-slab vapor monitoring points VP-3 and VP-6 in the Smoke-Out Cleaners space in conjunction with system decommissioning sampling (Section 3.0) to verify that there are no VRSL exceedances. Prior to sampling, the integrity of each sub-slab vapor monitoring point will be tested by performing either a helium shroud or water dam leak test. The helium shroud leak test will be conducted by placing a shroud over the sample point and introducing helium into the shroud air space. Air will be drawn through a tube connected to the sample point and tested for the presence of helium. If no helium is detected, sampling will proceed. If helium is detected, the sub-slab point will be resealed and then retested. An alternative qualitative leak test method, a water dam leak test, may also be performed in some circumstances, which consists of pouring distilled water around the vapor pin and using a PID to pull air from beneath the sub-slab. The water level in the pool is qualitatively measured as air is purged from beneath the sub-slab. Over a 15-20-minute time period, if the water level remains constant, the point is considered properly sealed.

Following leak test completion, sub-slab vapor samples will be collected by connecting each sample point to a Summa canister with dedicated tubing and opening the valve on the canister. Each sub-slab vapor sample will be collected over a 30-minute period in a laboratory-prepared 6-liter Summa canister with a flow regulator calibrated for 30-minute collection. The sub-slab vapor sample/Summa canister will be submitted under Chain-of-Custody (COC) protocol to Pace Analytical for analysis of dry-cleaner related VOCs (PCE, TCE, cis-DCE, trans-DCE, and VC) by EPA Method TO-15.

5.2 Badger Scale Indoor Air Sampling

Terracon proposes to collect an ambient indoor air sample from the same approximate location as Giles sample IA-2 (October 2017) was collected in the space near vapor monitoring point VP-7. Prior to sampling the space will be inspected for other potential sources of CVOCs. The sample will be collected using a laboratory-prepared 6-liter Summa canister with a flow regulator calibrated for 8-hour sample collection. The Summa canister will be placed at least 3 feet above the floor in the breathing zone. After sample collection, the Summa canister will be submitted

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under COC protocol to Pace Analytical for analysis of dry-cleaner related VOCs (PCE, TCE, cis-DCE, trans-DCE, and VC) by EPA Method TO-15.

5.3 Floor Drain and Sanitary Sewer Cleanout Vapor Sampling

Prior to sampling Terracon proposed inspecting the sanitary sewer cleanout in the Smoke-Out boiler room and the south floor drain to determine conditions, construction, and how best to sample. Because WDNR requested collecting groundwater samples from the piezometers prior to writing this work plan, Terracon mobilized to the site on August 4, 2022, to inspect the sanitary sewer cleanout and floor drain in conjunction with the piezometer sampling.

On August 4, 2022, Terracon met facility maintenance personnel (Jesse) at Smoke-Out Cleaners who removed the grate on the floor drains (both south and north) and removed the 4-inch diameter threaded caps from the sanitary cleanouts (both the boiler room and north wall) to allow inspection. The south floor drain was completely plugged with sediment and will need to be cleaned out prior to sampling. The north floor drain had sediment in it but was not plugged. It appeared that a 3-inch diameter polyvinyl chloride (PVC) pipe was connected to the bottom of the drain basin. Jesse believed that there was a p-trap below the visible drain pipe and that the south drain likely connects to the sanitary lateral running under the boiler room to the north and the north floor drain connects to the lateral along the north wall. The sanitary cleanouts both allowed direct access to the sanitary lateral beneath them. They appeared to be locations where toilets were intended but were never installed. A photo log of the inspection is attached.

Terracon will sample the Smoke-Out Cleaners south floor drain and the sanitary sewer cleanout beneath the boiler room in accordance with WDNR's guidance document RR-649 Guidance for Documenting Human-Made Preferential Pathways Including Utility Corridors (June 2021). Up to three sampling events will be performed in conjunction with system decommissioning sampling.

Prior to sampling the south floor drain, a plumber will clean the sediment out from the drain basin and drain pipe to allow access. At the time of sampling, Terracon will remove the cover from the south floor drain and remove any liquid from the trap per RR-649. Sample tubing will be inserted into the piping past the trap and will be connected to a plug modified with a valved sample port that will be inserted into the 3-inch diameter drain pipe at the point where the drain pipe meets the basin. After sealing, the system will be allowed to equilibrate for at least an hour. After equilibrating, the valve will be opened and at least three tubing volumes of air will be purged after which a grab sample will be collected into a 1-liter Summa canister (no flow controller). The Summa canister will be submitted under COC protocol to Pace Analytical for analysis of drycleaner related VOCs (PCE, TCE, cis-DCE, trans-DCE, and VC) by EPA Method TO-15.

At the boiler room sanitary lateral cleanout location, the cleanout cap will be removed and replaced with a temporary cap that contains a valved port to connect sample tubing. The sample

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tubing end will be inserted into a collar that will keep it centered within the sanitary lateral. The collared end of the tubing will be inserted several feet into the sanitary lateral toward the holding tank and attached to the underside of the modified cleanout cap. The system will be allowed to equilibrate for at least an hour. After equilibrating, at least three tubing volumes of air will be purged and then a grab sample will be collected into a 1-liter Summa canister (no flow controller). The Summa canister will be submitted under COC protocol to Pace Analytical for analysis of drycleaner related VOCs (PCE, TCE, cis-DCE, trans-DCE, and VC) by EPA Method TO-15.

6.0 REPORTING

Following each vapor sampling event, Terracon will prepare and submit a brief letter report with updated tables and the laboratory analytic test report. Full documentation of the vapor sampling events and results will be included in the future Groundwater Monitoring and Remediation Report. Terracon will prepare an SSDS Decommissioning Report documenting the dismantling/removal of the system upon completion of the removal.

7.0 ANTICIPATED SCHEDULE

Terracon proposes to initiate the additional vapor investigation and system decommissioning sampling following WDNR approval of this work plan and system shut down. The initial sampling event will be performed in December 2022 after the start of the vapor intrusion winter assessment period and in conjunction with post-injection groundwater sampling event #7. This schedule may be amended depending upon results of the initial vapor and groundwater sampling event in January 2023 and/or subsequent events. Specifically, the proposed schedule is as follows:

| TASK | ANTICPATED SCHEDULE | ANTICIPATED COMPLETION DATE* |
|---|--|------------------------------|
| WDNR Approval of this Work Plan/Authorization to Proceed | Within 60 days of receipt | November 8, 2022 |
| System Shutdown | Within 21 days of the December 1 start of the winter assessment period | December 21, 2022 |
| Vapor Investigation & System Decommissioning Sub-Slab and Indoor Air Sampling (Round 1) and Post-Injection Groundwater Sampling Event #7 (full monitoring well network) | Within 28 days following system shut- down | January 18, 2023 |
| Submit Results to WDNR (Tables and Lab Reports) | Within 10 days following receipt of laboratory results | February 10, 2023 |
| Continued on next page | | |

Smoke Out Cleaners ■ Howard, Wisconsin





| TASK | ANTICPATED SCHEDULE | ANTICIPATED COMPLETION DATE* | |
|---------------------------------|--------------------------------------|------------------------------|--|
| Vapor Investigation and/or | | | |
| System Decommissioning Sub- | At least 2 months and no more than 6 | July 10, 2023 | |
| Slab and Indoor Air Sampling | months following system shutdown | July 10, 2023 | |
| (Round 2) | | | |
| Submit Results to WDNR (Tables | Within 10 days following receipt of | August 3, 2023 | |
| and Lab Reports) | laboratory results | August 3, 2023 | |
| Vapor Investigation and/or | | | |
| System Decommissioning Sub- | Approximately 1 year after system | December 21, 2023 | |
| Slab and Indoor Air Sampling | shutdown | | |
| (Round 3) and Post-Injection | Silutuowii | | |
| Groundwater Sampling Event #8 | | | |
| Submit Results to WDNR (Tables | Within 10 days following receipt of | January 15, 2024 | |
| and Lab Reports) | laboratory results | January 15, 2024 | |
| Preparation of the Supplemental | | | |
| Vapor Intrusion Investigation | 60 days following resoint of the | | |
| Report (as part of the planned | 60 days following receipt of the | March 2024 | |
| Groundwater Monitoring and | laboratory results | | |
| Remediation Report) | | | |

^{*}Anticipated completion dates are contingent upon WDNR and client review time, and the schedules of Terracon, laboratory, and subcontractors.

8.0 GENERAL COMMENTS

The analysis and opinions expressed in this SSIIWP are based upon data obtained from the previous assessments and laboratory chemical analyses at the indicated locations or from other information discussed in this SVIIWP. This SVIIWP does not reflect variations in subsurface stratigraphy, hydrogeology, and contaminant distribution that may occur across the site. Actual subsurface conditions may vary and may not become evident without further assessment.

This SVIIWP has been prepared in accordance with generally accepted environmental engineering practices. No warranties, express or implied are intended or made.

Smoke Out Cleaners ■ Howard, Wisconsin

September 13, 2022 Terracon Project No. 58187103



If you have questions or require additional information, please do not hesitate to contact our office.

Sincerely,

Tierracon

Scott A. Hodgson, P.G.

Scott A. Hodgson

Senior Project Manager

Edmund A. Buc, P.E.

E. Salkine

Environmental Department Manager

Attachments: Certification Page

Figure 1: Site Location Map

Figure 2: Site Map

Figure 3: Vapor Sampling Points

Figure 4: Groundwater Hydrographs - Observation Wells

Figure 5: Groundwater Hydrographs - Well Nests Table 1: Groundwater Elevation Summary Table

Table 2: Groundwater Analytic Test Results Summary-VOCs

Table 3: Geochemical Parameter Analytical Results and Field Measurements Summary

Table 4: Vapor Analytical Test Results Summary: Indoor Air

Piezometer Laboratory Analytic Test Report and Field Sampling Sheets

Inspection Photographic Log

SAH/EAB:sah/\P58WFS01\data\Projects\2018\58187103\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\58187103.Add VI Work Plan.docx

Copy to: Mark Woppert, Smoke-Out Cleaners

Chris Dockry, Agent for Smoke-Out Cleaners

Don Gallo, Gallo Law, LLC

File

Smoke Out Cleaners - Howard, Wisconsin

September 13, 2022 Terracon Project No. 58187103



9.0 **CERTIFICATIONS**

I, Scott A. Hodgson, P.G., hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Scott D. Hodgson

PG-1229

Date 9/13/22

Signature and P.G. number

Senior Project Geologist

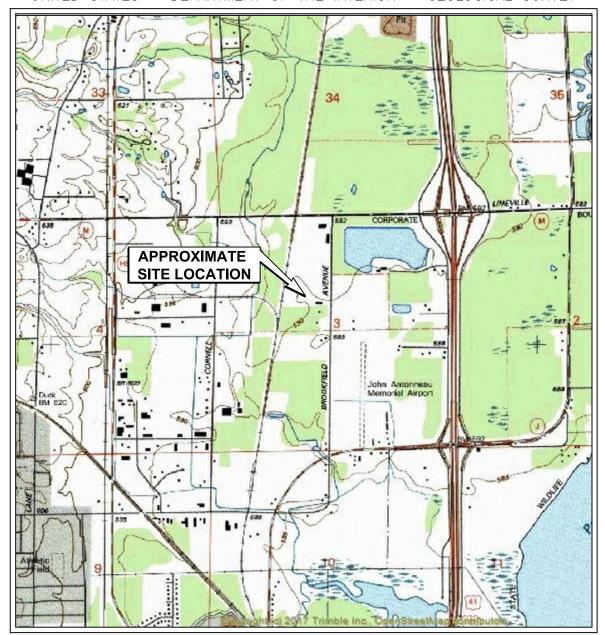
I, Edmund A. Buc, P.E., hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance. With all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

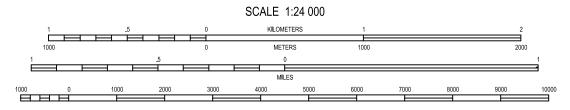
Signature and P.E. number

Senior Project Engineer

Title

UNITED STATES - DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY





CONTOUR INTERVAL 10 FEET NATIONAL GEODETIC VERTICAL DATUM OF 1929

GREEN BAY WEST QUADRANGLE BROWN COUNTY ~ WISCONSIN 1992

7.5 MINUTE SERIES (TOPOGRAPHIC)

DIAGRAM IS FOR GENERAL LOCATION ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

| Project Mngr: SAH | Project No. 58187103 |
|-----------------------|----------------------|
| Drawn By: JLM (41) | Scale: AS SHOWN |
| Checked By: EPK | File No. 58187103C1 |
| Approved By: BRS | Date: 4/2019 |

| Terra Consulting Engineer | CON rs and Scientists |
|---------------------------|--------------------------|
| 9856 SOUTH 57th STREET | FRANKLIN, WI 53132 |
| DH (414) 422 0255 | EAV (414) 402 DECC |

| SITE LOCATION MAP | | | |
|--------------------|--|--|--|
| | | | |
| SMOKE-OUT CLEANERS | | | |

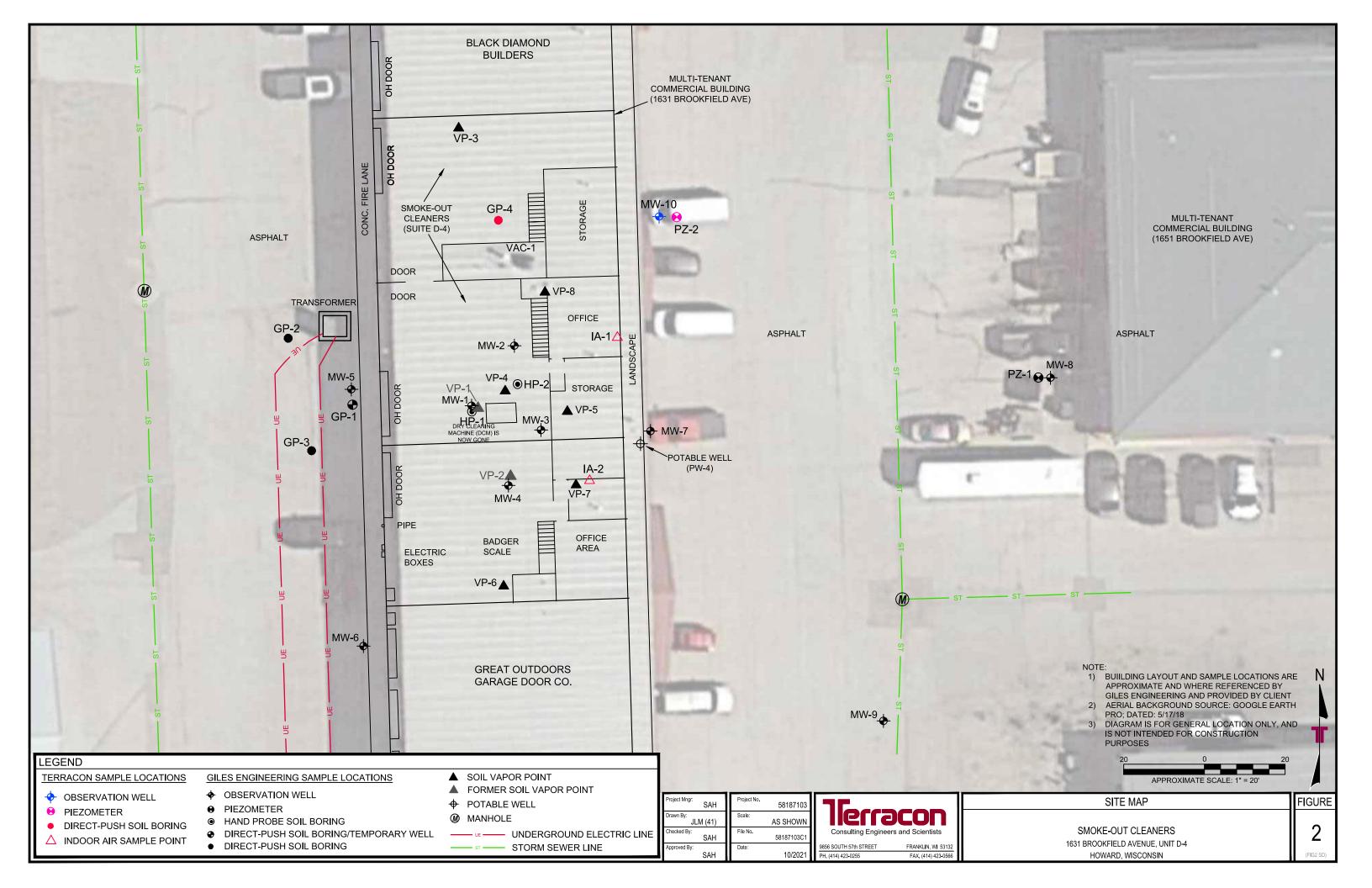
SMOKE-OUT CLEANERS

1631 BROOKFIELD AVENUE, UNIT D-4

HOWARD, WISCONSIN

FIGURE

1



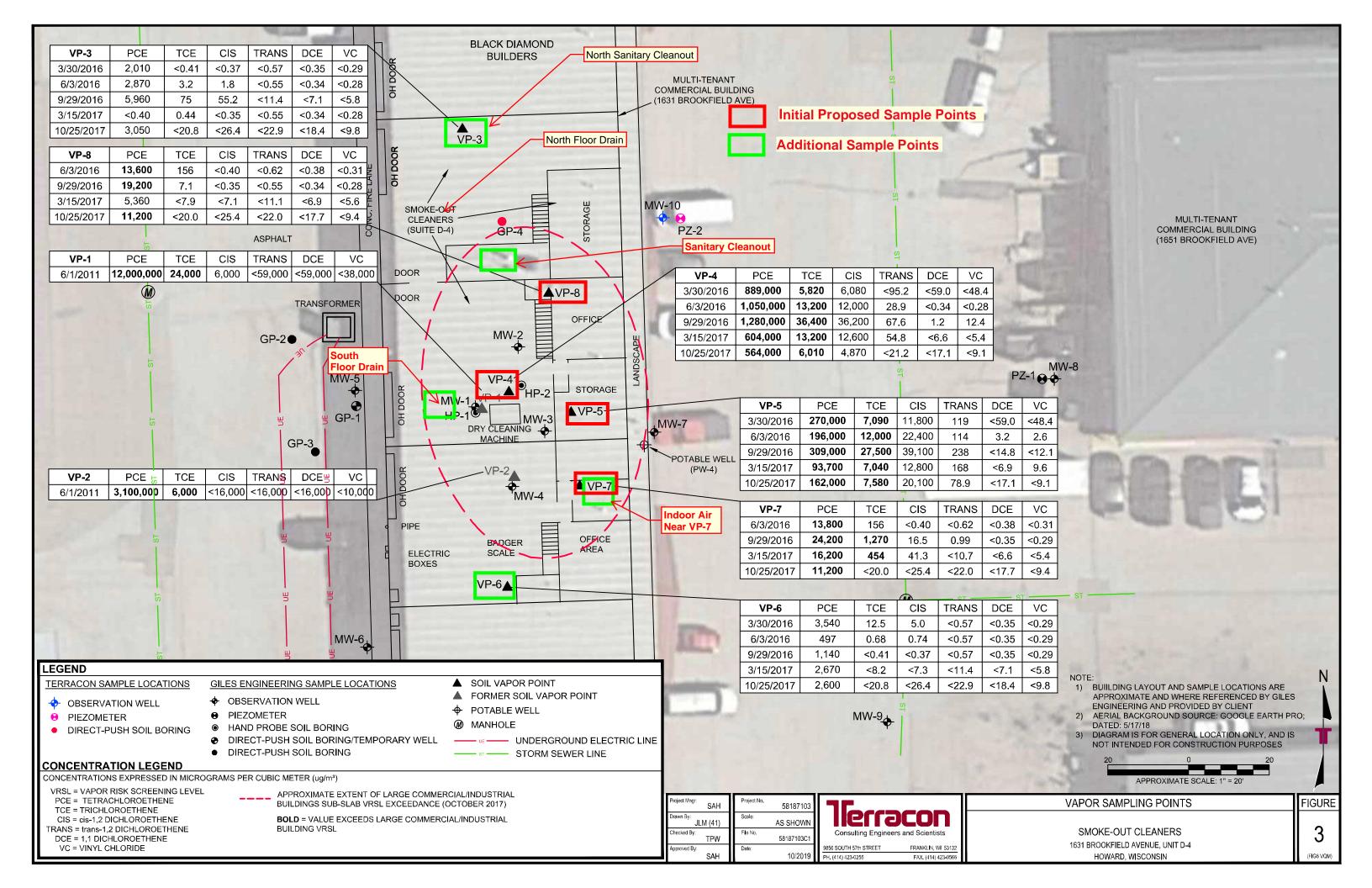


FIGURE 4
Groundwater Hydrographs - Observation Wells

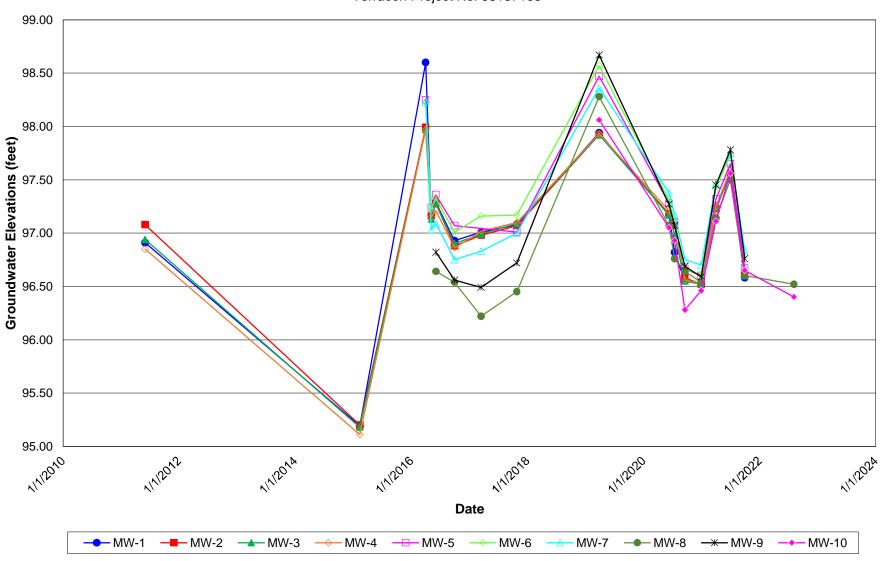
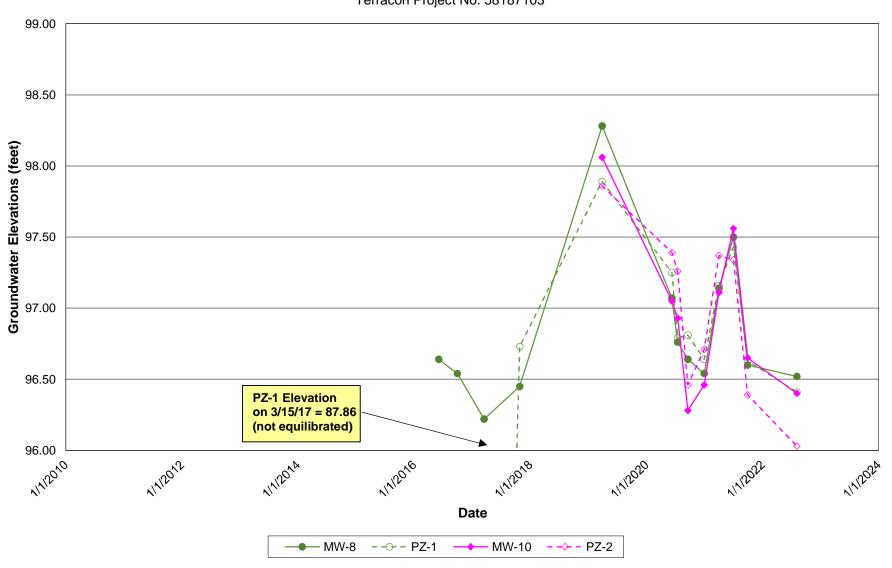


FIGURE 5
Groundwater Hydrographs - Well Nests



| Well | TOC* Elevation (ft) | Ground Surface Elevation | Well Depth (ft) | Screened Interval | Date | Depth to Groundwater from TOC (ft) | Groundwater Elevation (ft) |
|---------|---------------------------|--------------------------------|--------------------|-------------------|----------------------|--|-------------------------------|
| MW-1 | 99.92 | 100.07 | 7.00 | 93.07 - 98.07 | 06/01/11 | 3.01 | 96.91 |
| | | | | | 02/10/15 | 4.73 | 95.19 |
| | | | | | 03/31/16 | 1.32 | 98.60 |
| | | | | | 05/06/16 | 2.76 | 97.16 |
| | | | | | 06/02/16 | 2.63 | 97.29 |
| | | | | | 09/28/16 | 2.99 | 96.93 |
| | | | | | 03/15/17 | 2.91 | 97.01 |
| | | | | | 10/25/17 | 2.84 | 97.08 |
| | | | | | 03/27/19 | 1.98 | 97.94 |
| | | | | | 06/09/20 | 2.75 | 97.17 |
| | | | | | 07/14/20 | 3.10 | 96.82 |
| | | | | | 09/17/20 | 3.37 | 96.55 |
| | | | | | 12/29/20 | 3.40 | 96.52 |
| | | | | | 03/31/21 | 2.68 | 97.24 |
| | | | | | 06/30/21 | 2.36 | 97.56 |
| | | | | | 09/28/21 | 3.34 | 96.58 |
| MW-2 | 100.04 | 100.13 | 7.00 | 93.13 - 98.13 | 06/01/11 | 2.96 | 97.08 |
| | 100.01 | 100.10 | 7.00 | 00.10 | 02/10/15 | 4.84 | 95.20 |
| | | | | | 03/31/16 | 2.05 | 97.99 |
| | | | | | 05/06/16 | 2.88 | 97.16 |
| | | | | | 06/02/16 | 2.76 | 97.28 |
| | | | | | 09/29/16 | 3.16 | 96.88 |
| | | | | | 03/15/17 | 3.06 | 96.98 |
| | | | | | 10/25/17 | 2.97 | 97.07 |
| | | | | | 03/27/19 | 2.12 | 97.92 |
| | | | | | 06/09/20 | 2.86 | 97.18 |
| | | | | | 07/14/20 | 2.97 | 97.07 |
| | | | | | 09/17/20 | 3.46 | 96.58 |
| | | | | | 12/29/20 | 3.52 | 96.52 |
| | | | | | 03/31/21 | 2.81 | 97.23 |
| | | | | | 06/30/21 | 2.48 | 97.56 |
| | | | | | 09/28/21 | 3.44 | 96.60 |
| BANA/ O | 00.04 | 100.10 | 7.00 | 93.10 - 98.10 | | | |
| MW-3 | 99.94 | 100.10 | 7.00 | 93.10 - 98.10 | 06/01/11 | 3.00 | 96.94 |
| | | | | | 02/10/15 | 4.76 1.97 | 95.18 |
| | | | | | 03/31/16 | | 97.97 |
| | | | | | 05/06/16 | 2.81 | 97.13 |
| | | | | | 06/02/16 | 2.66 | 97.28 |
| | | | | | 09/28/16 | 3.04 | 96.90 |
| | | | | | 03/15/17 10/25/17 | 2.95 2.85 | 96.99 97.09 |
| | | | | | 03/27/19 | | 97.09 |
| | | | | | | 2.02 | 97.92 |
| | | | | | 06/09/20 07/14/20 | 2.77 | 96.98 |
| | | | | | 09/17/20 | 2.96 | |
| | | | | | 12/29/20 | 3.39 3.42 | 96.55 96.52 |
| | | | | | | | |
| | | | | | 03/31/21 | 2.70 | 97.24 |
| | | | | | 06/30/21 | 2.39 | 97.55 |

| Well | TOC* Elevation (ft) | Ground Surface Elevation | Well Depth (ft) | Screene | ed Interval | Date | Depth to Groundwater from TOC (ft) | Groundwater Elevation (ft) |
|--------|---------------------------|--------------------------------|--------------------|-----------------|-------------|----------------------|--|-------------------------------|
| MW-4 | 99.94 | 100.11 | 7.00 | 93.11 | - 98.11 | 06/01/11 | 3.09 | 96.85 |
| 10.00 | 33.34 | 100.11 | 7.00 | 33.11 | 30.11 | 02/10/15 | 4.83 | 95.11 |
| | | | | | | 03/31/16 | 1.97 | 97.97 |
| | | | | | | 05/06/16 | 2.79 | 97.15 |
| | | | | | | 06/03/16 | 2.73 | 97.21 |
| | | | | | | 09/29/16 | 3.08 | 96.86 |
| | | | | | | 03/15/17 | 2.92 | 97.02 |
| | | | | | | 10/25/17 | 2.84 | 97.10 |
| | | | | | | 03/27/19 | 2.01 | 97.93 |
| | | | | | | 06/09/20 | 2.73 | 97.21 |
| | | | | | | 07/14/20 | 2.84 | 97.10 |
| | | | | | | 09/17/20 | 3.38 | 96.56 |
| | | | | | | 12/29/20 | 3.41 | 96.53 |
| | | | | | | 03/31/21 | 2.69 | 97.25 |
| | | | | | | 06/30/21 | 2.35 | 97.59 |
| | | | | | | 09/28/21 | 3.33 | 96.61 |
| MW-5 | 99.57 | 99.73 | 6.00 | 93.73 | - 98.73 | 03/31/16 | 1.32 | 98.25 |
| | | | | | | 05/06/16 | 2.33 | 97.24 |
| | | | | | | 06/02/16 | 2.21 | 97.36 |
| | | | | | | 09/28/16 | 2.50 | 97.07 |
| | | | | | | 10/25/17 | 2.56 | 97.01 |
| | <u>99.70</u> | <u>99.82</u> | Resurveyed | <u> 3/28/19</u> | | 03/27/19 | 1.23 | 98.47 |
| | | | | | | 06/09/20 | 2.42 | 97.28 |
| | | | | | | 07/14/20 | 2.60 | 97.10 |
| | | | | | | 09/17/20 | 3.04 | 96.66 |
| | | | | | | 12/29/20 | 3.10 | 96.60 |
| | | | | | | 03/31/21 | 2.38 | 97.32 |
| | | | | | | 06/30/21 | 2.05 | 97.65 |
| | | | | | | 09/28/21 | 3.03 | 96.67 |
| MW-6 | 99.59 | 99.73 | 6.50 | 93.73 | - 98.23 | 03/31/16 | 1.36 | 98.23 |
| | | | | | | 05/06/16 | 2.37 | 97.22 |
| | | | | | | 06/02/16 | 2.26 | 97.33 |
| | | | | | | 09/28/16 | 2.58 | 97.01 |
| | | | | | | 03/14/17 | 2.43 2.42 | 97.16 97.17 |
| | 00.90 | 00.07 | Poorinioro | 1 2/20/10 | | 10/25/17 | | |
| | <u>99.89</u> | <u>99.97</u> | Resurveyed | 1 3/20/19 | | 03/27/19 | 1.32 | 98.57 |
| | | | | | | 06/09/20 07/14/20 | 2.58 2.79 | 97.31 97.10 |
| | | | | | | 09/17/20 | 3.23 | 96.66 |
| | | | | | | 12/29/20 | 3.28 | 96.61 |
| | | | | | | 03/31/21 | 2.46 | 97.43 |
| | | | | | | 06/30/21 | 2.16 | 97.73 |
| | | | | | | 09/28/21 | 3.10 | 96.79 |
| MW-7 | 99.69 | 99.81 | 6.50 | 93.31 | - 98.31 | 03/31/16 | 1.46 | 98.23 |
| l | | | 3.55 | | - 5.5 . | 05/06/16 | 2.66 | 97.03 |
| MW-7 | | | | | | 06/03/16 | 2.60 | 97.09 |
| (cont) | | | | | | 09/28/16 | 2.94 | 96.75 |

| Well | TOC* Elevation (ft) | Ground Surface Elevation | Well Depth (ft) | Screened Interval | Date | Depth to Groundwater from TOC (ft) | Groundwater Elevation (ft) |
|-------|---------------------------|--------------------------------|--------------------|-------------------|----------|--|-------------------------------|
| | | | | | 03/14/17 | 2.86 | 96.83 |
| | | | | | 10/25/17 | 2.69 | 97.00 |
| | <u>100.02</u> | <u>100.10</u> | Resurveyed | d 3/28/19 | 03/27/19 | 1.66 | 98.36 |
| | | | | | 06/09/20 | 2.64 | 97.38 |
| | | | | | 07/14/20 | 2.85 | 97.17 |
| | | | | | 09/17/20 | 3.27 | 96.75 |
| | | | | | 12/29/20 | 3.32 | 96.70 |
| | | | | | 03/31/21 | 2.56 | 97.46 |
| | | | | | 06/30/21 | 2.27 | 97.75 |
| | | | | | 09/28/21 | 3.18 | 96.84 |
| MW-8 | 99.24 | 99.43 | 6.50 | 92.93 - 97.93 | 06/03/16 | 2.60 | 96.64 |
| | | | | | 09/28/16 | 2.70 | 96.54 |
| | | | | | 03/14/17 | 3.02 | 96.22 |
| | | | | | 10/25/17 | 2.79 | 96.45 |
| | <u>99.52</u> | <u>99.62</u> | Resurveyed | d 3/28/19 | 03/27/19 | 1.24 | 98.28 |
| | | | | | 06/09/20 | 2.45 | 97.07 |
| | | | | | 07/14/20 | 2.76 | 96.76 |
| | | | | | 09/17/20 | 2.88 | 96.64 |
| | | | | | 12/29/20 | 2.98 | 96.54 |
| | | | | | 03/31/21 | 2.38 | 97.14 |
| | | | | | 06/30/21 | 2.02 | 97.50 |
| | | | | | 09/28/21 | 2.92 | 96.60 |
| | | | | | 08/04/22 | 3.00 | 96.52 |
| MW-9 | 98.88 | 99.11 | 6.50 | 92.61 - 97.61 | 06/03/16 | 2.06 | 96.82 |
| | | | | | 09/28/16 | 2.32 | 96.56 |
| | | | | | 03/14/17 | 2.39 | 96.49 |
| | | | | | 10/25/17 | 2.16 | 96.72 |
| | <u>99.29</u> | <u>99.32</u> | Resurveyed | 1 3/28/19 | 03/27/19 | 0.62 | 98.67 |
| | | | | | 06/09/20 | 2.02 | 97.27 |
| | | | | | 07/14/20 | 2.22 | 97.07 |
| | | | | | 09/17/20 | 2.60 | 96.69 |
| | | | | | 12/29/20 | 2.70 | 96.59 |
| | | | | | 03/31/21 | 1.84 | 97.45 |
| | | | | | 06/30/21 | 1.51 | 97.78 |
| | | | | | 09/28/21 | 2.53 | 96.76 |
| MW-10 | 99.52 | 100.04 | 6.50 | 93.54 - 98.54 | 03/27/19 | 1.46 | 98.06 |
| | | | | | 06/09/20 | 2.47 | 97.05 |
| | | | | | 07/14/20 | 2.59 | 96.93 |
| | | | | | 09/17/20 | 3.24 | 96.28 |
| | | | | | 12/29/20 | 3.06 | 96.46 |
| | | | | | 03/31/21 | 2.41 | 97.11 |
| | | | | | 06/30/21 | 1.96 | 97.56 |
| | | | | | 09/28/21 | 2.87 | 96.65 |
| | | | | | 08/04/22 | 3.12 | 96.40 |
| | 1 | i | I | | | | |
| PZ-1 | 99.47 | 99.57 | 26.31 | 73.26 - 78.26 | 03/15/17 | 11.61 | 87.86 |

Smoke-Out Cleaners Howard, Wisconsin Terracon Project No. 58187103

| Well | TOC* Elevation (ft) | Ground Surface Elevation | Well Depth (ft) | Screened Interval | Date | Depth to Groundwater from TOC (ft) | Groundwater Elevation (ft) |
|------|---------------------------|--------------------------------|--------------------|-------------------|----------|--|-------------------------------|
| | <u>99.66</u> | <u>99.70</u> | Resurveyed | d 3/28/19 | 03/27/19 | 1.77 | 97.89 |
| | | | | | 06/09/20 | 2.41 | 97.25 |
| | | | | | 07/14/20 | 2.87 | 96.79 |
| | | | | | 09/17/20 | 2.85 | 96.81 |
| | | | | | 12/29/20 | 3.02 | 96.64 |
| | | | | | 03/31/21 | 2.50 | 97.16 |
| | | | | | 06/30/21 | 2.23 | 97.43 |
| | | | | | 09/28/21 | 3.03 | 96.63 |
| | | | | | 08/04/22 | 3.25 | 96.41 |
| PZ-2 | 99.65 | 100.05 | 26.00 | 74.05 - 79.05 | 03/27/19 | 1.79 | 97.86 |
| | | | | | 06/09/20 | 2.26 | 97.39 |
| | | | | | 07/14/20 | 2.39 | 97.26 |
| | | | | | 09/17/20 | 3.19 | 96.46 |
| | | | | | 12/29/20 | 2.94 | 96.71 |
| | | | | | 03/31/21 | 2.28 | 97.37 |
| | | | | | 06/30/21 | 2.31 | 97.34 |
| | | | | | 09/28/21 | 3.26 | 96.39 |
| | | | | | 08/04/22 | 3.62 | 96.03 |

Note:

- *TOC: Top of Well Casing
- 1) All elevations were recorded in feet and referenced to an arbitrary 100 foot local benchmark, which is the top of concrete at north side of overhead door to Smoke-Out unit (west side of the building).
- 2) Elevations for 2016 and 2017 were measured by Giles Engineering, Inc. Elevations from March 2019 were measured by Terracon Consultants, Inc.
- 3) Observation wells MW-5 through MW-9 and piezometer PZ-1 were resurveyed on March 28, 2019, while MW-10 and PZ-2 were surveyed for the first time following construction on that date.

TABLE 2 Groundwater Analytic Test Results Summary-VOCs

Smoke-Out Cleaners Howard, Wisconsin Terracon Project No. 58187103

| | | | | | Vols | ntile Organi | c Compoun | ds (VOCs - | ua/L) | | | |
|-----------|---|----------------------------|--------------------------|-------------------------------------|--------------------------------------|----------------------|---------------------------|----------------|---------------------|------------------------|-------------------|----------------------------|
| Sample ID | Sample Date | Tetrachloroethene (PCE) | Trichloroethene (TCE) | cis-1,2-Dichloroethene (cis-DCE) | thene E) | Vinyl chloride (VC) | 1,1-Dichloroethene (DCE) | Chloroform | Chloromethane | 1,2,4-Trimethylbenzene | 9 | Total Xylene |
| | | Tetrac (PCE) | ichlc CE) | s-1,2 is-D(| trans-1,2- Dichloroe (trans-DC |) () | 1-Dic CE) | loro | loro | 2,4-T | Toluene | otal) |
| | 1 | | | | | | | | | | | |
| | /AC, PAL ¹ NAC, ES ² | <u>0.5</u> 5 | <u>0.5</u> 5 | <u>7</u> 70 | 20 100 | 0.02 0.2 | <u>0.7</u> 7 | <u>0.6</u> | <u>3</u> | 96 480 | 160 800 | <u>400</u> 2,000 |
| GP-1 | 08/07/08 | <0.50 | <0.20 | <0.50 | < 0.50 | <0.20 | < 0.50 | <0.20 | 0.80 | <0.20 | < 0.50 | <0.50 |
| MW-1 | 06/02/11 | 270 | 22.0 | 220 | 5.0 | 4.9 | <0.50 | <0.20 | <0.30 | <0.20 | <0.5 | <0.50 |
| | 03/31/16 06/02/16 | 3.9 8.3 | 5.4 7.0 | 89.0 79.2 | 2.2 2.1 | 17.0 12.7 | <0.24 <0.41 | <2.5 <2.5 | <0.50 <u>5.3</u> | <0.50 <0.50 | <0.50 <0.50 | <1.5 <1.5 |
| | 09/28/16 | 5.3 | 5.3 | 40.6 | <0.26 | 4.5 | <0.41 | <2.5 | < 0.50 | <0.50 | <0.50 | <1.5 |
| | 03/15/17 | 12.4 | 5.0 | 96.7 | 2.2 | 17.7 | <0.41 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 03/27/19 06/09/20 | 16.9 2.3 | 6.2 3.7 | 67.9 60.8 | 1.7 2.1 | 11.0 19.8 | <0.24 0.27 | <1.3 <1.3 | <2.2 <2.2 | <0.84 <0.84 | <0.17 <0.27 | <0.73 <0.73 |
| | 07/14/20 | <u>3.5</u> | 0.29 J | 1.5 | <0.46 | 39.7 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | < 0.73 |
| | 09/17/20 12/29/20 | <u>1.5</u> 0.88 | <0.26 <0.26 | 1.2 2.3 | <0.46 <0.46 | 15.4 3.5 | <0.24 <0.24 | <1.3 <1.3 | <2.2 <2.2 | <0.84 <0.84 | 0.50 0.53 | <0.73 <0.73 |
| | 03/31/21 | <u>0.71</u> | < 0.51 | 0.84 | < 0.93 | 1.4 | <0.24 | <1.3 | <2.2 | <0.84 | 0.85 | < 0.73 |
| | 06/30/21 09/28/21 | <0.41 <0.41 | <0.32 <0.32 | 1.5 1.5 | <0.53 <0.53 | 2.4 1.2 | <0.58 <0.58 | <1.2 <1.2 | <1.6 <1.6 | 1.7 <0.95 | 2.0 6.7 | <1.05 <1.05 |
| BD1 | 09/28/21 | <0.41 | <0.32 | 0.95 | <0.53 | 1.1 | <0.58 | <1.2 | <1.6 | <0.95 | 7.2 | <1.05 |
| MW-2 | 06/02/11 | <u>4.8</u> | 0.23 | 1.8 | <0.50 | <0.20 | < 0.50 | <0.20 | < 0.30 | <0.20 | <0.50 | 1.5 |
| | 03/31/16 | <0.50 | 0.49 | 4.8 | <0.26 | <0.18 | <0.24 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 06/02/16 09/29/16 | <u>0.67</u> <0.50 | <0.33 | 2.5 1.6 | <0.26 <0.26 | <0.18 | <0.41 | <2.5 <2.5 | <0.50 <0.50 | <0.50 <0.50 | <0.50 <0.50 | <1.5 <1.5 |
| | 03/15/17 | <u>1.3</u> | 0.35 | 3.7 | <0.26 | <0.18 | <0.41 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 03/27/19 06/09/20 | 3.7 0.72 | <u>1.1</u> 0.40 | 3.5 1.6 | <1.1 <0.46 | <0.17 <0.17 | <0.24 <0.24 | <1.3 <1.3 | <2.2 <2.2 | <0.84 <0.84 | <0.17 <0.27 | <0.73 <0.73 |
| | 07/14/20 | < 0.33 | <0.26 | 1,4 | <0.46 | 1.2 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | < 0.73 |
| | 09/17/20 12/29/20 | <0.33 <0.33 | <0.26 0.26 | 1.3 1.4 | <0.46 <0.46 | 0.76 0.51 | <0.24 <0.24 | <1.3 <1.3 | <2.2 <2.2 | <0.84 <0.84 | <0.27 <0.27 | <0.73 <0.73 |
| BD2 | 12/29/20 | <0.33 | <0.26 | 1.2 | <0.46 | 0.40 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | <0.73 |
| MW-3 | 06/02/11 | 14,000 | 120 | 140 | 3.5 | 1.0 | <0.50 | 0.29 | < 0.30 | 0.52 | 0.94 | 1.7 |
| | 03/31/16 | <u>2.0</u> | <u>3.2</u> | 286 | 7.4 | 4.8 | <0.24 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 06/02/16 09/28/16 | 50.3 5.5 | 37.9 5.9 | 405 336 | 9.4 | 6.7 7.0 | <2.1 <1.6 | <12.5 <10.0 | <u>11.3</u> <2.0 | <2.5 <2.0 | <2.5 <2.0 | <7.5 <6.0 |
| | 03/15/17 | 3.9 | 6.3 | 556 | 14.7 | 11.4 | <1.6 | <10.0 | <2.0 | <2.0 | <2.0 | <6.0 |
| | 03/27/19 | 13.8 | 5.2 | 188 | 3.7 | 45.5 | <0.61 | <3.2 | <5.5 | <2.1 | < 0.43 | <1.85 |
| BD1 | 06/09/20 07/14/20 | <u>1.4</u> 13.1 | 7.3 14.0 | 141 427 | 3.8 8.6 | 91.6 118 | <0.61 0.59 J | <3.2 <1.3 | 6.4 <2.2 | <2.1 <0.84 | <0.67 <0.27 | <1.85 <0.73 |
| | 07/14/20 | 16.0 | 18.1 | 340 | 9.1 | 103 | <0.61 | <3.2 | <5.5 | <2.1 | < 0.67 | <1.85 |
| | 09/17/20 12/29/20 | <0.82 <0.82 | <0.64 <0.64 | 117 25.7 | 4.7 2.6 | 62 16.4 | <0.68 <0.68 | <3.2 <3.2 | <5.5 <2.2 | <2.1 <2.1 | <0.67 <0.27 | <1.85 <1.85 |
| BD1 | 03/31/21 | < 0.33 | <u>0.76</u> | <u>59.9</u> | 2.0 | 27.2 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | < 0.73 |
| | 03/31/21 06/30/21 | <0.33 <0.41 | 0.54 1.3 | 66.4 41.2 | 2.3 1.7 | 30.6 20.8 | <0.24 <0.58 | <1.3 <1.2 | <2.2 <1.6 | <0.84 <0.45 | <0.27 <0.29 | <0.73 <1.05 |
| BD1 | 06/30/21 | < 0.41 | <u>1.1</u> | <u>38.2</u> | 1.6 | 18.0 | <0.58 | <1.2 | <1.6 | < 0.45 | <0.29 | <1.05 |
| | 09/28/21 | <0.41 | <0.32 | <0.47 | 1.3 | 0.55 | <0.58 | <1.2 | <1.6 | <0.45 | <0.29 | <1.05 |
| MW-4 | 06/02/11 03/31/16 | 25.0 9.8 | 23.0 18.7 | 16.0 83.2 | 0.60 3.5 | 0.30 1.4 | 0.65 <u>0.98</u> | <0.20 <2.65 | <0.30 <0.50 | <0.20 <0.50 | <0.50 <0.50 | <0.50 <1.5 |
| | 06/03/16 | 11.6 | 24.1 | 65.3 | 3.0 | 1.0 | <u>0.96</u> <u>1.1</u> | <2.65 | 12.7 | <0.50 | <0.50 | <1.5 |
| | 09/29/16 | 9.1 | 19.2 | 49.8 | <0.26 | 1.0 | 0.84 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 03/15/17 03/28/19 | 19.3 21.2 | 17.4 10.1 | 82.5 88.9 | 2.1 1.1 | 0.78 <0.17 | 0.91 0.41 | <2.5 <1.3 | <0.50 <2.2 | <0.50 <0.84 | <0.50 <0.17 | <1.5 <0.73 |
| | 06/09/20 | 5.1 | 5.5 | 69.9 | 1.7 | <0.17 | 0.41 | <1.3 | <2.2 | <0.84 | <0.17 | <0.73 |
| BD1 | 06/09/20 07/14/20 | <u>4.6</u> <0.33 | 5.2 <0.26 | 64.9 12.3 | 1.5 0.96 J | <0.17 17.2 | 0.59 <0.24 | <1.3 <1.3 | <2.2 <2.2 | <0.84 <0.84 | <0.27 <0.27 | <0.73 <0.73 |
| | 09/17/20 | < 0.33 | < 0.26 | 3.3 | < 0.46 | 2.4 | < 0.24 | <1.3 | <2.2 | < 0.84 | 0.73 | 0.57 |
| BD1 | 09/17/20 12/29/20 | <0.33 <0.33 | <0.26 <0.26 | 3.7 0.83 | <0.46 <0.46 | 2.6 <0.17 | <0.24 <0.24 | <1.3 <1.3 | <2.2 <2.2 | <0.84 <0.84 | 0.31 1.6 | 0.47 1.27 |
| | 03/31/21 | < 0.33 | <0.26 | 0.85 | < 0.46 | 0.71 | <0.24 | <1.3 | <2.2 | <0.84 | 0.79 | 0.57 |
| | 06/30/21 09/28/21 | <0.41 <0.41 | <0.32 <0.32 | 0.66 <0.47 | <0.53 <0.53 | <0.17 <0.17 | <0.58 <0.58 | <1.6 <1.2 | <1.6 <1.6 | 1.7 <0.45 | 0.69 3.3 | <1.05 <1.05 |
| MW-5 | 03/31/16 | <0.50 | <0.33 | <0.26 | <0.26 | <0.17 | <0.41 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 06/02/16 | <0.50 | <0.33 | <0.26 | <0.26 | <0.18 | <0.41 | <2.5 | 3.2 | <0.50 | <0.50 | <1.5 |
| | 09/28/16 | <0.50 | <0.33 | <0.26 | <0.26 | <0.18 | <0.41 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 03/14/17 03/28/19 | <0.50 <0.33 | <0.33 <0.26 | <0.26 <0.27 | <0.26 <1.1 | <0.18 <0.17 | <0.41 <0.24 | <2.5 <1.3 | <0.50 <2.2 | <0.50 <0.84 | <0.50 0.71 | <1.5 <0.73 |
| | 12/28/20 | <0.33 | <0.26 | <0.27 | <1.1 | <0.17 | <0.24 | <1.3 | <2.2 | <0.84 | 0.71 | <0.73 |

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TABLE 2 Groundwater Analytic Test Results Summary-VOCs

Smoke-Out Cleaners Howard, Wisconsin Terracon Project No. 58187103

| | | | | | Vola | itile Organi | c Compoun | ds (VOCs - | μg/L) | | | |
|--------------|----------------------|----------------------------|--------------------------|-------------------------------------|---|------------------------|-----------------------------|--------------|---------------|------------------------|----------------|----------------|
| Sample ID | Sample Date | Tetrachloroethene (PCE) | Trichloroethene (TCE) | cis-1,2-Dichloroethene (cis-DCE) | trans-1,2- Dichloroethene (trans-DCE) | Vinyl chloride (VC) | 1,1-Dichloroethene (DCE) | Chloroform | Chloromethane | 1,2,4-Trimethylbenzene | Toluene | Total Xylene |
| NR 140 W | AC, PAL ¹ | <u>0.5</u> | 0.5 | 7 | 20 | 0.02 | 0.7 | 0.6 | <u>3</u> | 96 | 160 | 400 |
| | VAC, ES ² | 5 | 5 | - 70 | 100 | 0.2 | 7 | 6 | 30 | 480 | 800 | 2,000 |
| MW-6 | 03/31/16 | <0.50 | < 0.33 | <0.26 | <0.26 | <0.18 | <0.41 | <2.5 | < 0.50 | <0.50 | <0.50 | <1.5 |
| 10100 | 06/02/16 | <0.50 | <0.33 | <0.26 | <0.26 | <0.18 | <0.41 | <2.5 | 3.8 | <0.50 | <0.50 | <1.5 |
| | 09/28/16 | <0.50 | <0.33 | <0.26 | <0.26 | <0.18 | <0.41 | <2.5 | < 0.50 | <0.50 | <0.50 | <1.5 |
| | 03/14/17 | <0.50 | < 0.33 | <0.26 | <0.26 | <0.18 | < 0.41 | <2.5 | < 0.50 | < 0.50 | <0.50 | <1.5 |
| | 03/28/19 | < 0.33 | < 0.26 | <0.27 | <1.1 | < 0.17 | <0.24 | <1.3 | <2.2 | <0.84 | 0.74 | < 0.73 |
| | 12/28/20 | < 0.33 | <0.26 | <0.27 | <1.1 | <0.17 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | < 0.73 |
| MW-7 | 03/31/16 | 24.2 | <u>2.8</u> | 0.94 | < 0.26 | < 0.18 | < 0.24 | <2.5 | < 0.50 | < 0.50 | < 0.50 | <1.5 |
| | 06/03/16 | 9.8 | <u>1.1</u> | 0.51 | < 0.26 | <0.18 | < 0.41 | <2.5 | <u>4.7</u> | < 0.50 | < 0.50 | <1.5 |
| | 09/28/16 | 117 | 14.3 | <u>13.8</u> | < 0.26 | <0.18 | < 0.41 | <2.5 | < 0.50 | < 0.50 | < 0.50 | <1.5 |
| | 03/14/17 | <u>0.85</u> | < 0.33 | < 0.26 | < 0.26 | <0.18 | < 0.41 | <2.5 | < 0.50 | < 0.50 | < 0.50 | <1.5 |
| | 03/28/19 | < 0.33 | <0.26 | < 0.27 | <1.1 | < 0.17 | < 0.24 | <1.3 | <2.2 | <0.84 | <0.17 | < 0.73 |
| BD-2 | 03/28/19 | < 0.33 | <0.26 | <0.27 | <1.1 | <0.17 | <0.24 | <1.3 | <2.2 | <0.84 | <0.17 | <0.73 |
| | 12/28/20 | <0.33 | <0.26 | <0.27 | <1.1 | <0.17 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | <0.73 |
| MW-8 | 06/03/16 | < 0.50 | < 0.33 | < 0.26 | < 0.26 | <0.18 | < 0.41 | <2.5 | < 0.50 | < 0.50 | < 0.50 | <1.5 |
| | 09/28/16 | < 0.50 | < 0.33 | <0.26 | <0.26 | <0.18 | <0.41 | <2.5 | < 0.50 | < 0.50 | < 0.50 | <1.5 |
| | 03/14/17 | <0.50 | <0.33 | <0.26 | <0.26 | <0.18 | <0.41 | <2.5 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 03/28/19 12/29/20 | <0.33 <0.33 | <0.26 <0.26 | <0.27 <0.27 | <1.1 <1.1 | <0.17 <0.17 | <0.24 <0.24 | <1.3 <1.3 | <2.2 <2.2 | <0.84 <0.84 | 0.74 <0.27 | <0.73 <0.73 |
| NAVA / O | | | | | | | | | | | | |
| MW-9 | 06/03/16 09/28/16 | < 0.50 | <0.33 | <0.26 | <0.26 | <0.18 | <0.41 | <2.5 | <u>8.1</u> | < 0.50 | < 0.50 | <1.5 |
| | 03/14/17 | <0.50 <0.50 | <0.33 <0.33 | <0.26 <0.26 | <0.26 <0.26 | <0.18 | <0.41 <0.41 | <2.5 <2.5 | <5.0 <0.50 | <0.50 <0.50 | <0.50 <0.50 | <1.5 <1.5 |
| | 03/28/19 | < 0.33 | <0.26 | <0.27 | <1.1 | <0.17 | <0.41 | <1.3 | <2.2 | <0.84 | 0.79 | <0.73 |
| | 12/29/20 | < 0.33 | <0.26 | <0.27 | <1.1 | <0.17 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | <0.73 |
| MW-10 | 03/28/19 | < 0.33 | < 0.26 | < 0.27 | <1.1 | < 0.17 | < 0.24 | <1.3 | <2.2 | <0.84 | < 0.17 | < 0.73 |
| | 12/28/20 | < 0.33 | <0.26 | <0.27 | <1.1 | < 0.17 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | < 0.73 |
| PZ-1 | 03/15/17 | < 0.50 | < 0.33 | < 0.26 | < 0.26 | <0.18 | < 0.41 | <2.5 | < 0.50 | < 0.50 | < 0.50 | <1.5 |
| | 03/28/19 | < 0.33 | < 0.26 | < 0.27 | <1.1 | < 0.17 | < 0.24 | <1.3 | <2.2 | <0.84 | 0.66 | < 0.73 |
| | 12/28/20 | < 0.33 | <0.26 | <0.27 | <1.1 | < 0.17 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | < 0.73 |
| | 08/04/22 | <0.41 | < 0.32 | < 0.47 | <0.53 | <0.17 | <0.58 | <1.2 | <1.6 | < 0.45 | <0.29 | <1.05 |
| PZ-2 | 03/28/19 | < 0.33 | <0.26 | <0.27 | <1.1 | <0.17 | <0.24 | <1.3 | <2.2 | <0.84 | 0.30 | < 0.73 |
| BD-1 | 03/28/19 | < 0.33 | <0.26 | <0.27 | <1.1 | <0.17 | <0.24 | <1.3 | <2.2 | <0.84 | 0.28 | < 0.73 |
| | 12/28/20 08/04/22 | <0.33 <0.41 | <0.26 <0.32 | <0.27 <0.47 | <1.1 <0.53 | <0.17 <0.17 | <0.24 <0.58 | <1.3 <1.2 | <2.2 <1.6 | <0.84 <0.45 | <0.27 <0.29 | <0.73 <1.05 |
| D\\/ 4 | | | | | | | | | | | | |
| PW-1 PW-2 | 03/15/17 03/15/17 | <0.50 <0.50 | < 0.33 | <0.26 | <0.26 | <0.18 <0.18 | <0.41 <0.41 | <1.3 | <2.5 | < 0.50 | < 0.50 | <1.5 |
| PW-3 | 03/15/17 | < 0.50 | <0.33 <0.33 | <0.26 <0.26 | <0.26 <0.26 | <0.18 | <0.41 | <1.3 <1.3 | <2.5 <2.5 | <0.50 <0.50 | <0.50 <0.50 | <1.5 <1.5 |
| PW-4 | 03/15/17 | <0.50 | < 0.33 | <0.26 | <0.26 | <0.18 | <0.41 | <1.3 | <2.5 | <0.50 | <0.50 | <1.5 |
| | 12/29/20 | < 0.33 | <0.26 | <0.27 | <1.1 | <0.17 | <0.24 | <1.3 | <2.2 | <0.84 | <0.27 | < 0.73 |
| | | | • | • | • | | • | • | • | • | • | |

Notes:

¹NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, February 2017

²NR 140, WAC, Enforcement Standard (ES), Register, February 2017

Results expressed in micrograms per liter (ug/L)

BD = Blind Duplicate

Only compounds detected by the laboratory are included on the table.

Samples from 2008 through 2017 were collected by Giles Engineering, Inc. Samples from March 2019 onward were collected by Terracon Choloethene (6.8 µg/L in MW-3), Benzene (0.57 µg/L in MW-1 and 0.80 µg/L in MW-4), and Ethylbenenze (0.35 µg/L in MW-1

and 0.36 µg/L in MW-4) were first detected in the September 17,2020 sampling event

XX.XX Exceeds NR 140 PAL
XX.XX Exceeds NR 140 ES

< X.XX Analyte not detected above its laboratory limit of detection

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TABLE 3 **Geochemical Parameter Analytical Results and Field Measurements Summary**

Smoke-Out Cleaners Howard, Wisconsin Terracon Project No. 58187103

| No. Conductive tolindicative of Septide Septide | | | | Fie | ld Paramet | ers | | Laboratory Parameters | | | | | | |
|---|-----------|-------------|------------------|--------|------------------------------------|--|----------------------------|-----------------------------------|----------------|--------------------------------|---------------------------|---------------|---------------|----------------|
| Conductive Infiniciative of | Sample ID | Sample Date | Temperature (°C) | Hd | Specific Conductance (mS/cm) | Oxidation Reduction Potential (ORP, mV) | Dissolved Oxygen (mg/L) | Total Organic Carbon (mg/L) | Sulfate (mg/L) | Manganese, Dissolved (µg/L) | lron, Dissolved ¦ug/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) |
| MW-1 027719 18.81 7.52 041 23.4 0.91 4.5 NA NA 500 40.58 3.1 1 00.0920 19.63 7.38 522 09.0 2.43 5.5 NA 40.7 761 1.720 4.72 3.2 NA 1.70 0.001 1.00 NM NM NM NM NM 2.60 0.2 0.3 1.4 0.00 1.00 NM NM NM NM NM NM NM NM 0.00 1.00 1.00 NM | | | | 5~nH~9 | | | | | ∠BG | | | Present | Present | >BG |
| | | | | · | | | | | | | | | | |
| | MVV-1 | | | | | | | | | | | | | 1,070 711 |
| MW-2 | | | | | | | | | | | | | | NA |
| Page | | | | | | | | | | | | | | 321 |
| 12/29/20 | | | | | | | | | | | | | | 2,580 |
| | | | 19.99 | | | | | | | | NA | | | NA |
| MW-2 | | | | | | | | | | | | | | 3,420 |
| MW-2 | | | | | | | | | | | | | | 4,000 |
| | | | | | | | | | | | | | | 4,340 |
| | MW-2 | | | | | | | | | | | | | 52.8 |
| MW-4 | | | | | | | | | | | | | | 18.8 NA |
| 99/17/20 | | | | | | | | | | | | | | 64.1 |
| 12/29/20 | | | | | | | | | | | | | | 1,140 |
| MW-3 | | | | | | | | | | | | | | 2,330 |
| | MW-3 | | | | | | | | | | | | | 1,830 |
| MV-4 | | 06/09/20 | | 7.17 | | | | | 49.6 | 739 | | | 6.9 | 887 |
| 09/17/20 | | | NM | | NM | NM | NM | | | | | | | NA |
| 12/29/20 | | | | | | | | | | | | | | 2,160 |
| | | | | | | | | | | | | | | 1,660 |
| | | | | | | | | | | | | | | 1,860 |
| MW-4 | | | | | | | | | | | | | | 2,520 |
| MW-4 | | | | | | | | | | | | | | 2,730 982 |
| BD1 | MMM 4 | | | | | | | | | | | | | 15.9 |
| BD1 06/09/20 19.12 7.14 942 82.9 0.55 3.8 108 16.7 <29.6 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 | 10100-4 | | | | | | | | | | | | | 14.0 |
| No. No. | BD1 | | | | | | | | | | | | | 16.7 |
| MV-5 | | | | | | | | | | | | | | NA |
| 12/29/20 | | 07/14/20 | 16.73 | 6.22 | 2,501 | -54.0 | 2.37 | | 13.2 | 5,540.0 | 160,000 | 15.2 | 16.6 | 1,820 |
| MW-5 | | 09/17/20 | 21.30 | 6.91 | 3,252 | -157.0 | 1.33 | 1,430 | 2.3 J | 3,980 | 333,000 | 19.6 | | 213 |
| 06/30/21 22.30 7.62 1,660 -198.8 4.75 181 NA NA 135 7.0 7.7 5 09/28/21 21.68 6.55 0.995 -252.1 5.12 83 NA NA 29,100 5.0 3.2 4 MW-5 03/28/19 5.16 7.30 465 59.1 0.52 NA | | | | | | | | | | | | | | NA |
| MW-5 | | | | | • | | | | | | | | | 4,590 |
| MW-5 03/28/19 5.16 7.30 465 59.1 0.52 NA NA <td></td> <td>5,430</td> | | | | | | | | | | | | | | 5,430 |
| MW-6 | MMM E | | | | | | | | | | | | | 4,470 |
| MW-6 03/28/19 4.39 7.18 416 59.7 0.68 NA NA <td>C-VVIVI</td> <td></td> <td>NA NA</td> | C-VVIVI | | | | | | | | | | | | | NA NA |
| MW-7 12/29/20 5.81 7.87 148 -224.1 4.86 NA NA NA NA NA MW-7 03/28/19 5.16 8.15 1,536 142.6 11.71 0.26 NA NA 236 <0.58 | MW-6 | | | | | | | | | | | | | NA |
| MW-7 03/28/19 5.16 8.15 1,536 142.6 11.71 0.26 NA NA 236 <0.58 <0.52 12/29/20 6.40 7.91 493 -219.1 7.39 1.50 NA NA 1,430 <1.2 | | | | | | | | | | | | | | NA |
| MW-8 03/28/19 5.75 7.57 879 65.4 6.52 NA NA <td>MW-7</td> <td></td> <td><1.4</td> | MW-7 | | | | | | | | | | | | | <1.4 |
| MW-8 03/28/19 5.75 7.57 879 65.4 6.52 NA NA NA NA NA 12/29/20 6.07 7.51 186 -273.8 2.20 NA | ÷ | | | | | | | | | | | | | 0.7 |
| MW-9 03/28/19 4.18 7.62 645 77.9 2.10 NA NA <td>MW-8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NA</td> <td></td> <td></td> <td></td> <td>NA</td> | MW-8 | | | | | | | | | NA | | | | NA |
| MW-10 03/28/19 3.89 8.12 1,539 130.1 9.39 NA | | 12/29/20 | | | | | | | | | | | | NA |
| MW-10 03/28/19 3.89 8.12 1,539 130.1 9.39 NA | MW-9 | | | | | | | | | | | | | NA |
| PZ-1 03/28/19 5.17 7.76 781 69.4 3.13 NA NA <td></td> <td>NA</td> | | | | | | | | | | | | | | NA |
| PZ-1 03/28/19 5.17 7.76 781 69.4 3.13 NA | MW-10 | | | | | | | | | | | | | NA |
| 12/29/20 7.77 7.13 77 -203.3 4.81 NA | PZ-1 | | | | | | | | | | | | | NA |
| 08/04/22 16.78 7.62 NM -182.3 0.15 NA NA <td></td> <td>NA</td> | | | | | | | | | | | | | | NA |
| PZ-2 03/28/19 8.50 7.93 775 56.7 5.00 NA | | | | | | | | | | | | | | NA |
| 12/29/20 10.91 7.13 223 -277.9 1.93 NA NA NA NA NA NA NA | D7 2 | | | | | | | | | | | | | NA |
| | PZ-Z | | | | | | | | | | | | | NA NA |
| I 08/04/22 I 18:37 7:57 NM -142.1 0.28 NA NA NA NA NA NA NA | | 08/04/22 | 18.37 | 7.13 | NM | -277.9 -142.1 | 0.28 | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA | NA |

Notes:

BG = Background; MW-9 represents background concentrations and values

°C = Celsius

mV = Millivolts

ug/L = Micrograms per liter mg/L = Milligrams per liter

ms/cm = Millisiemens per centimeter

NM = Not Measured or Anomalous Reading

NA = Not Analyzed

58187103_Smoke Out Tables.xlsx - GW_GeoChem Page 1 of 1

TABLE 4 Vapor Analytical Test Results Summary: Indoor Air

Smoke-Out Cleaners Howard, Wisconsin Terracon Project No. 58187103

| | | | | Chl | orinated Vola | atile Organic | Compounds | (CVOCs - µg | /m³) |
|----------------------------|--|--|---------------------------------|-------------------------|-----------------------|----------------------------------|--|--------------------------|---------------------|
| Vapor Sampling Point | Location | Sample Type | Sample Date | Tetrachloroethene (PCE) | Trichloroethene (TCE) | cis-1,2-Dichloroethene (cis-DCE) | trans-1,2-Dichloroethene (trans- DCE) | 1,1-Dichloroethene (DCE) | Vinyl Chloride (VC) |
| IA - 1 | Smoke-Out Office | Small Commercial Ambient Air 8-hour | 10/25/17 | 3,990 | 1.1 | <0.49 | <0.42 | <0.34 | <0.18 |
| IA - 2 | Badger Scale Office | Small Commercial Ambient Air 8-hour | 10/25/17 | 21.8 | <0.39 | <0.49 | <0.42 | <0.34 | <0.18 |
| | | Residential Indo | or Air VAL ¹ (µg/m3) | <u>42</u> | <u>2.1</u> | NE | <u>42</u> | <u>210</u> | <u>1.7</u> |
| | Small Commercial Building Indoor Air VAL1 (µg/m3 | | | | | NE | 180 | 880 | 28 |
| | Large Commercial | /Industrial Building Indo | or Air VAL ¹ (µg/m3) | 180 | 8.8 | NE | 180 | 880 | 28 |

Notes:

Results expressed in micrograms per cubic meter (ug/m³)

VAL = Vapor Action Limit

CVOCs = Chlorinated Volatile Organic Compounds

< = Not detected at or above the limit of detection (LOD)

NE = Standard not established, not calculated or not analyzed

Underline values indicate exceedance of applicable residential VALs (indoor)

Italic values indicate exceedance of applicable small commercial VALs (indoor)

Bold values indicate exceedance of applicable Large commercial building VALs (indoor)

58187103_Smoke Out Tables.xlsx - Indoor Air



(920)469-2436



August 17, 2022

Scott A. Hodgson Terracon, Inc. 9856 S. 57th Street Franklin, WI 53132

RE: Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Dear Scott Hodgson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

• Pace Analytical Services - Green Bay

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

Sincerely,

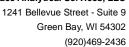
Dan Milewsky dan.milewsky@pacelabs.com (920)469-2436

Jan Mileny

Project Manager

Enclosures







CERTIFICATIONS

Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0

(920)469-2436



SAMPLE SUMMARY

Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|----------------|--------|----------------|----------------|
| 40249327001 | PZ-1 | Water | 08/04/22 11:35 | 08/04/22 12:04 |
| 40249327002 | PZ-2 | Water | 08/04/22 10:50 | 08/04/22 12:04 |
| 40249327003 | BD-1 | Water | 08/04/22 00:00 | 08/04/22 12:04 |
| 40249327004 | HCI TRIP BLANK | Water | 08/04/22 00:00 | 08/04/22 12:04 |

(920)469-2436



SAMPLE ANALYTE COUNT

Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|----------------|----------|----------|----------------------|------------|
| 40249327001 | PZ-1 | EPA 8260 | SMT | 64 | PASI-G |
| 40249327002 | PZ-2 | EPA 8260 | SMT | 64 | PASI-G |
| 40249327003 | BD-1 | EPA 8260 | SMT | 64 | PASI-G |
| 40249327004 | HCI TRIP BLANK | EPA 8260 | SMT | 64 | PASI-G |

PASI-G = Pace Analytical Services - Green Bay



241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Method: EPA 8260 Description: 8260 MSV

Client: Terracon, Inc. - Franklin

Date: August 17, 2022

General Information:

4 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

Sample: PZ-1 Lab ID: 40249327001 Collected: 08/04/22 11:35 Received: 08/04/22 12:04 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|------------|---------------|---------------|------|----|----------|----------------|------------|------|
| 8260 MSV | Analytical | Method: EPA | A 8260 | | | | | | |
| | Pace Anal | tical Service | es - Green Ba | y | | | | | |
| Benzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/06/22 03:02 | 71-43-2 | |
| Bromobenzene | <0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/06/22 03:02 | | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 08/06/22 03:02 | | |
| Bromodichloromethane | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 08/06/22 03:02 | | |
| Bromoform | <3.8 | ug/L | 5.0 | 3.8 | 1 | | 08/06/22 03:02 | | |
| Bromomethane | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 08/06/22 03:02 | | |
| n-Butylbenzene | <0.86 | ug/L | 1.0 | 0.86 | 1 | | 08/06/22 03:02 | | |
| sec-Butylbenzene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 08/06/22 03:02 | | |
| tert-Butylbenzene | <0.59 | ug/L | 1.0 | 0.59 | 1 | | 08/06/22 03:02 | | |
| Carbon tetrachloride | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 08/06/22 03:02 | | |
| Chlorobenzene | <0.86 | ug/L | 1.0 | 0.86 | 1 | | 08/06/22 03:02 | | |
| Chloroethane | <1.4 | ug/L | 5.0 | 1.4 | 1 | | 08/06/22 03:02 | | |
| Chloroform | <1.2 | ug/L ug/L | 5.0 | 1.4 | 1 | | 08/06/22 03:02 | | |
| Chloromethane | <1.6 | ug/L ug/L | 5.0 5.0 | 1.6 | 1 | | 08/06/22 03:02 | | |
| 2-Chlorotoluene | <0.89 | _ | 5.0 | 0.89 | 1 | | 08/06/22 03:02 | | |
| | <0.89 | ug/L | 5.0 5.0 | 0.89 | 1 | | 08/06/22 03:02 | | |
| 4-Chlorotoluene | | ug/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 08/06/22 03:02 | | |
| Dibromochloromethane | <2.6 | ug/L | 5.0 | 2.6 | 1 | | 08/06/22 03:02 | _ | |
| 1,2-Dibromoethane (EDB) | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 08/06/22 03:02 | | |
| Dibromomethane | <0.99 | ug/L | 5.0 | 0.99 | 1 | | 08/06/22 03:02 | | |
| 1,2-Dichlorobenzene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 08/06/22 03:02 | | |
| 1,3-Dichlorobenzene | <0.35 | ug/L | 1.0 | 0.35 | 1 | | 08/06/22 03:02 | | |
| 1,4-Dichlorobenzene | <0.89 | ug/L | 1.0 | 0.89 | 1 | | 08/06/22 03:02 | | |
| Dichlorodifluoromethane | <0.46 | ug/L | 5.0 | 0.46 | 1 | | 08/06/22 03:02 | | |
| 1,1-Dichloroethane | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/06/22 03:02 | | |
| 1,2-Dichloroethane | <0.29 | ug/L | 1.0 | 0.29 | 1 | | 08/06/22 03:02 | | |
| 1,1-Dichloroethene | <0.58 | ug/L | 1.0 | 0.58 | 1 | | 08/06/22 03:02 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.47 | ug/L | 1.0 | 0.47 | 1 | | 08/06/22 03:02 | | |
| trans-1,2-Dichloroethene | <0.53 | ug/L | 1.0 | 0.53 | 1 | | 08/06/22 03:02 | 156-60-5 | |
| 1,2-Dichloropropane | <0.45 | ug/L | 1.0 | 0.45 | 1 | | 08/06/22 03:02 | 78-87-5 | |
| 1,3-Dichloropropane | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/06/22 03:02 | 142-28-9 | |
| 2,2-Dichloropropane | <4.2 | ug/L | 5.0 | 4.2 | 1 | | 08/06/22 03:02 | 594-20-7 | |
| 1,1-Dichloropropene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 08/06/22 03:02 | 563-58-6 | |
| cis-1,3-Dichloropropene | < 0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/06/22 03:02 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <3.5 | ug/L | 5.0 | 3.5 | 1 | | 08/06/22 03:02 | 10061-02-6 | |
| Diisopropyl ether | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 08/06/22 03:02 | 108-20-3 | |
| Ethylbenzene | < 0.33 | ug/L | 1.0 | 0.33 | 1 | | 08/06/22 03:02 | | |
| Hexachloro-1,3-butadiene | <2.7 | ug/L | 5.0 | 2.7 | 1 | | 08/06/22 03:02 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <1.0 | ug/L | 5.0 | 1.0 | 1 | | 08/06/22 03:02 | 98-82-8 | |
| p-Isopropyltoluene | <1.0 | ug/L | 5.0 | 1.0 | 1 | | 08/06/22 03:02 | 99-87-6 | |
| Methylene Chloride | <0.32 | ug/L | 5.0 | 0.32 | 1 | | 08/06/22 03:02 | 75-09-2 | |
| Methyl-tert-butyl ether | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 08/06/22 03:02 | 1634-04-4 | |
| Naphthalene | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 08/06/22 03:02 | | |
| n-Propylbenzene | <0.35 | ug/L | 1.0 | 0.35 | 1 | | 08/06/22 03:02 | | |
| Styrene | <0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/06/22 03:02 | | |



Project: 58187103 SMOKE OUT CLEANERS

Date: 08/17/2022 09:35 AM

| Parameters | Pace Project No.: 40249327 | | | | | | | | | |
|---|----------------------------|------------|------------------|------------|------------|---------|--------------|-----------------|--------------|------|
| Analytical Method: EPA 8260 Pace Analytical Services - Green Bay 1.1,1,2-Tetrachloroethane | Sample: PZ-1 | Lab ID: | 40249327001 | Collecte | d: 08/04/2 | 2 11:35 | Received: 08 | 3/04/22 12:04 M | atrix: Water | |
| Pace Analytical Services - Green Bay | Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 1,1,1,2-Tetrachioroethane | 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| 1,1,2,2-Etrachloroethane | | Pace Ana | lytical Services | - Green Ba | y | | | | | |
| 1,1,2,2-Etrachloroethane | 1.1.1.2-Tetrachloroethane | <0.36 | ua/L | 1.0 | 0.36 | 1 | | 08/06/22 03:02 | 630-20-6 | |
| Tetrachloroethene | | | • | | | | | | | |
| Toluene | | | ū | | | | | | | |
| 1,2,3-Trichlorobenzene | | | - | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | | | | |
| 1.1.1-Trichloroethane | • • | | | | | | | | | |
| 1.1.2 Trichloroethane <0.34 | | | • | | | | | | | |
| Trichloroethene | | | ū | | | | | | | |
| Trichlorofluoromentame <0.42 vg/L 1.0 0.42 vg/L 1 08/06/22 03:02 75-69-4 1,2,3-Trinchloropropane <0.56 vg/L | | | - | | | | | | | |
| 1.2.3-Tritchloropropane | | | • | | | | | | | |
| 1,2,4-Trimethylbenzene | | | - | | | | | | | |
| 1,3,5-Trimethylbenzene | | | • | | | | | | | |
| Vinyl chloride <0.170 ug/L 1.0 0.17 1 1 08/06/22 03:02 75-01-4 75-01-4 m&p-Yylene <0.70 ug/L 2.0 0.70 1 1 08/06/22 03:02 75-01-4 79-01-23-1 o-Xylene <0.35 ug/L 1.0 0.35 1 08/06/22 03:02 95-47-6 95-47-6 Surrogates 3 3 70-130 1 08/06/22 03:02 203:02 299-69-1 400-04-4 1,2-Dichlorobenzene-04 (S) 97 % 70-130 1 08/06/22 03:02 203:02 2037-26-5 209-69-1 Sample: PZ-2 Lab ID: 40249327002 Collected: 08/04/22 10:50 Received: 08/04/22 10:20 Molected: 08/04/22 10:20 M | · · | | - | | | | | | | |
| m&p-Xylene | • | | - | | | | | | | |
| c-Xylene <0.35 Surrogates ug/L 1.0 0.35 I 1 08/06/22 03:02 95-47-6 95-47-6 Surrogates 4-Bromofluorobenzene (S) 100 % 70-130 I 1 08/06/22 03:02 20:02 2199-69-1 460-00-4 1,2-Dichlorobenzene-d4 (S) 97 % 70-130 I 1 08/06/22 03:02 20:02 2199-69-1 2199-69-1 Toluene-d8 (S) 103 % 70-130 I 1 08/06/22 03:02 20:02 | • | | • | | | | | | | |
| ## Surrogates 4-Bromofilurobenzene (S) 100 % 70-130 1 08/06/22 03:02 460-00-4 1,2-Dichlorobenzene-d4 (S) 97 % 70-130 1 08/06/22 03:02 2937-26-5 Toluene-d8 (S) 103 % 70-130 1 08/06/22 03:02 2037-26-5 Sample: PZ-2 Lab ID: 40249327002 Collected: 08/04/22 10:50 Received: 08/04/22 12:04 Matrix: Water | | | - | | | | | | | |
| 4-Bromofituorobenzene (S) 100 % 70-130 1 08/06/22 03:02 460-00-4 1,2-Dichlorobenzene-d4 (S) 97 % 70-130 1 08/06/22 03:02 2199-69-1 Toluene-d8 (S) 103 % 70-130 1 08/06/22 03:02 2037-26-5 Sample: PZ-2 Lab ID: 40249327002 Collected: 08/04/22 10:50 Received: 08/04/22 12:04 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual 8260 MSV Analytical Method: EPA 8260 Pace Analytical Services - Green Bay Benzene <0.30 ug/L 1.0 0.30 1 08/06/22 03:22 71-43-2 Bromobenzene <0.36 ug/L 1.0 0.36 1 08/06/22 03:22 108-86-1 Bromochloromethane <0.36 ug/L 1.0 0.36 1 08/06/22 03:22 75-27-4 Bromofitoromethane <0.36 ug/L 1.0 0.36 1 08/06/22 03:22 75-27-4 Bromoform <3.8 ug/L 5.0 3.8 1 08/06/22 03:22 75-25-2 Bromomethane <1.2 ug/L 5.0 1.2 1 08/06/22 03:22 75-25-2 Bromomethane <1.2 ug/L 5.0 1.2 1 08/06/22 03:22 75-25-2 Bromomethane <0.042 ug/L 1.0 0.86 1 08/06/22 03:22 75-25-2 Bromomethane <0.042 ug/L 1.0 0.86 1 08/06/22 03:22 75-25-2 Bromomethane <0.042 ug/L 1.0 0.86 1 08/06/22 03:22 75-38-8 Bromotheromethane <0.042 ug/L 1.0 0.86 1 08/06/22 03:22 75-38-8 Bromotheromethane <0.042 ug/L 1.0 0.86 1 08/06/22 03:22 108-81-8 Bromotheromethane <0.042 ug/L 1.0 0.36 1 08/06/22 03:22 108-90-7 Bromotheromethane <0.042 ug/L 1.0 0.36 1 08/06/22 03:22 108-90-7 Bromotheromethane <0.042 ug/L 1.0 0.36 1 08/06/22 03:22 108-90-7 Bromotheromethane <0.042 ug/L 1.0 0.36 1 08/06/22 03:22 108-90-7 Bromotheromethane <0.042 ug/L 1.0 0.37 1 08/06/22 03:22 108-90-7 Bromotheromethane <0.044 ug/L 1.0 0.37 1 08/06/22 03:22 108-90-7 Bromotheromethane <0.045 ug/L 1.0 0.86 1 08/06/22 03:22 108-90-7 Bromotheromethane <0.047 ug/L 1.0 0.86 1 08/06/22 03:22 108-90-7 Bromotheromethane <0.048 ug/L 5.0 1.4 1 08/06/22 03:22 57-00-3 Bromotheromethane <0.049 ug/L 5.0 1.2 1 08/06/22 03:22 57-00-3 Bromotheromethane <0.049 ug/L 5.0 1.2 1 08/06/22 03:22 57-00-3 Bromotheromethane <0.049 ug/L 5.0 1.2 1 08/06/22 03:22 57-00-3 Bromotheromethane <0.049 ug/L 5.0 1.2 1 08/06/22 03:22 57-00-3 Bromotheromethane <0.049 ug/L 5.0 1.2 1 08/06/22 03:22 57-00-3 | • | 40.00 | ug/L | 1.0 | 0.00 | | | 00/00/22 00:02 | 00 11 0 | |
| 1,2-Dichlorobenzene-d4 (S) 97 % 70-130 1 08/06/22 03:02 2199-69-1 Toluene-d8 (S) 103 % 70-130 1 08/06/22 03:02 2037-26-5 Sample: PZ-2 Lab ID: 40249327002 Collected: 08/04/22 10:50 Received: 08/04/22 12:04 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual 8260 MSV Analytical Services - Green Bay Benzene <0.30 ug/L 1.0 0.30 1 08/06/22 03:22 71-43-2 Bromobenzene <0.36 ug/L 1.0 0.36 1 08/06/22 03:22 74-97-5 Bromodichloromethane <0.42 ug/L 1.0 0.42 1 08/06/22 03:22 75-27-4 Bromodichloromethane <0.43.8 ug/L 5.0 3.8 1 08/06/22 03:22 75-27-4 Bromoform <3.8 ug/L 5.0 3.8 1 08/06/22 03:22 75-25-2 Bromomethane <1.2 ug/L 5.0 1.2 1 08/06/22 03:22 74-89-5 n-Butylbenzene <0.46 ug/L 1.0 0.42 1 08/06/22 03:22 74-89-8 n-Butylbenzene <0.86 ug/L 1.0 0.42 1 08/06/22 03:22 74-89-8 n-Butylbenzene <0.42 ug/L 1.0 0.42 1 08/06/22 03:22 74-89-8 n-Butylbenzene <0.45 ug/L 1.0 0.42 1 08/06/22 03:22 74-89-8 n-Butylbenzene <0.40 ug/L 1.0 0.42 1 08/06/22 03:22 74-89-8 n-Butylbenzene <0.40 ug/L 1.0 0.42 1 08/06/22 03:22 74-89-8 n-Butylbenzene <0.40 ug/L 1.0 0.42 1 08/06/22 03:22 74-89-8 n-Butylbenzene <0.40 ug/L 1.0 0.59 1 08/06/22 03:22 108-90-7 Chlorobenzene <0.86 ug/L 1.0 0.59 1 08/06/22 03:22 108-90-7 Chlorobenzene <0.86 ug/L 1.0 0.86 1 08/06/22 03:22 75-25-6 Chlorobenzene <0.86 ug/L 1.0 0.86 1 08/06/22 03:22 75-00-3 Chlorotoluene <1.4 ug/L 5.0 1.4 1 08/06/22 03:22 75-00-3 Chlorotoluene <0.89 ug/L 5.0 1.6 1 08/06/22 03:22 75-00-3 Chlorotoluene <0.89 ug/L 5.0 1.6 1 08/06/22 03:22 75-00-3 | • | 100 | % | 70-130 | | 1 | | 08/06/22 03:02 | 460-00-4 | |
| Toluene-d8 (S) | | 97 | | 70-130 | | 1 | | 08/06/22 03:02 | 2199-69-1 | |
| Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual | | 103 | | 70-130 | | 1 | | 08/06/22 03:02 | 2037-26-5 | |
| Benzene | Sample: PZ-2 | Lab ID: | 40249327002 | Collecte | d: 08/04/2 | 2 10:50 | Received: 08 | 3/04/22 12:04 M | atrix: Water | |
| Benzene | Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| Benzene | 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| Bromobenzene <0.36 ug/L 1.0 0.36 1 08/06/22 03:22 108-86-1 Bromochloromethane <0.36 | | Pace Ana | lytical Services | - Green Ba | у | | | | | |
| Bromobenzene <0.36 ug/L 1.0 0.36 1 08/06/22 03:22 108-86-1 Bromochloromethane <0.36 | Benzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/06/22 03:22 | 71-43-2 | |
| Bromochloromethane <0.36 ug/L 5.0 0.36 1 08/06/22 03:22 74-97-5 Bromodichloromethane <0.42 | Bromobenzene | <0.36 | • | 1.0 | 0.36 | | | 08/06/22 03:22 | 108-86-1 | |
| Bromodichloromethane <0.42 ug/L 1.0 0.42 1 08/06/22 03:22 75-27-4 Bromoform <3.8 | Bromochloromethane | < 0.36 | • | | | | | | | |
| Bromoform <3.8 ug/L 5.0 3.8 1 08/06/22 03:22 75-25-2 Bromomethane <1.2 | Bromodichloromethane | | - | | | | | | | |
| Bromomethane <1.2 ug/L 5.0 1.2 1 08/06/22 03:22 74-83-9 n-Butylbenzene <0.86 | Bromoform | <3.8 | | 5.0 | 3.8 | 1 | | | | |
| n-Butylbenzene <0.86 ug/L 1.0 0.86 1 08/06/22 03:22 104-51-8 sec-Butylbenzene <0.42 | | | | | | 1 | | | | |
| sec-Butylbenzene <0.42 ug/L 1.0 0.42 1 08/06/22 03:22 135-98-8 tert-Butylbenzene <0.59 ug/L 1.0 0.59 1 08/06/22 03:22 98-06-6 Carbon tetrachloride <0.37 ug/L 1.0 0.37 1 08/06/22 03:22 56-23-5 Chlorobenzene <0.86 ug/L 1.0 0.86 1 08/06/22 03:22 108-90-7 Chlorotethane <1.4 ug/L 5.0 1.4 1 08/06/22 03:22 75-00-3 Chloromethane <1.6 ug/L 5.0 1.2 1 08/06/22 03:22 74-87-3 2-Chlorotoluene <0.89 ug/L 5.0 0.89 1 08/06/22 03:22 95-49-8 | | | - | | | | | | | |
| tert-Butylbenzene <0.59 ug/L 1.0 0.59 1 08/06/22 03:22 98-06-6 Carbon tetrachloride <0.37 | • | | - | | | | | | | |
| Carbon tetrachloride <0.37 ug/L 1.0 0.37 1 08/06/22 03:22 56-23-5 Chlorobenzene <0.86 | • | | | | | | | | | |
| Chlorobenzene <0.86 ug/L 1.0 0.86 1 08/06/22 03:22 108-90-7 Chloroethane <1.4 | | | | | | | | | | |
| Chloroethane <1.4 ug/L 5.0 1.4 1 08/06/22 03:22 75-00-3 Chloroform <1.2 ug/L 5.0 1.2 1 08/06/22 03:22 67-66-3 Chloromethane <1.6 ug/L 5.0 1.6 1 08/06/22 03:22 74-87-3 2-Chlorotoluene <0.89 ug/L 5.0 0.89 1 08/06/22 03:22 95-49-8 | | | ū | | | | | | | |
| Chloroform <1.2 ug/L 5.0 1.2 1 08/06/22 03:22 67-66-3 Chloromethane <1.6 ug/L 5.0 1.6 1 08/06/22 03:22 74-87-3 2-Chlorotoluene <0.89 ug/L 5.0 0.89 1 08/06/22 03:22 95-49-8 | | | - | | | | | | | |
| Chloromethane <1.6 ug/L 5.0 1.6 1 08/06/22 03:22 74-87-3 2-Chlorotoluene <0.89 | | | - | | | | | | | |
| 2-Chlorotoluene <0.89 ug/L 5.0 0.89 1 08/06/22 03:22 95-49-8 | | | · · | | | | | | | |
| | | | - | | | | | | | |
| | 4-Chlorotoluene | <0.89 | ug/L | 5.0 | 0.89 | 1 | | | | |



Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

Sample: PZ-2 Lab ID: 40249327002 Collected: 08/04/22 10:50 Received: 08/04/22 12:04 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
|-----------------------------|----------------|----------------|---------------|------|----|----------|----------------|----------|-----|
| 8260 MSV | Analytical | Method: EPA | A 8260 | | | | | | |
| | Pace Anal | ytical Service | es - Green Ba | y | | | | | |
| 1,2-Dibromo-3-chloropropane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 08/06/22 03:22 | 96-12-8 | |
| Dibromochloromethane | <2.6 | ug/L | 5.0 | 2.6 | 1 | | 08/06/22 03:22 | | |
| 1,2-Dibromoethane (EDB) | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 08/06/22 03:22 | | |
| Dibromomethane | < 0.99 | ug/L | 5.0 | 0.99 | 1 | | 08/06/22 03:22 | | |
| 1,2-Dichlorobenzene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 08/06/22 03:22 | | |
| 1,3-Dichlorobenzene | <0.35 | ug/L | 1.0 | 0.35 | 1 | | 08/06/22 03:22 | | |
| 1,4-Dichlorobenzene | < 0.89 | ug/L | 1.0 | 0.89 | 1 | | 08/06/22 03:22 | | |
| Dichlorodifluoromethane | <0.46 | ug/L | 5.0 | 0.46 | 1 | | 08/06/22 03:22 | | |
| 1,1-Dichloroethane | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/06/22 03:22 | | |
| 1,2-Dichloroethane | <0.29 | ug/L | 1.0 | 0.29 | 1 | | 08/06/22 03:22 | | |
| 1,1-Dichloroethene | <0.58 | ug/L | 1.0 | 0.58 | 1 | | 08/06/22 03:22 | | |
| cis-1,2-Dichloroethene | <0.47 | ug/L | 1.0 | 0.47 | 1 | | 08/06/22 03:22 | | |
| rans-1,2-Dichloroethene | <0.47 <0.53 | ug/L ug/L | 1.0 | 0.47 | 1 | | 08/06/22 03:22 | | |
| 1,2-Dichloropropane | <0.45 | - | 1.0 | 0.33 | 1 | | 08/06/22 03:22 | | |
| • • | <0.30 | ug/L | 1.0 | 0.43 | 1 | | 08/06/22 03:22 | | |
| 1,3-Dichloropropane | | ug/L | | | 1 | | | | |
| 2,2-Dichloropropane | <4.2 | ug/L | 5.0 | 4.2 | | | 08/06/22 03:22 | | |
| ,1-Dichloropropene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 08/06/22 03:22 | | |
| sis-1,3-Dichloropropene | <0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/06/22 03:22 | | |
| rans-1,3-Dichloropropene | <3.5 | ug/L | 5.0 | 3.5 | 1 | | 08/06/22 03:22 | | |
| Diisopropyl ether | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 08/06/22 03:22 | | |
| thylbenzene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 08/06/22 03:22 | | |
| Hexachloro-1,3-butadiene | <2.7 | ug/L | 5.0 | 2.7 | 1 | | 08/06/22 03:22 | | |
| sopropylbenzene (Cumene) | <1.0 | ug/L | 5.0 | 1.0 | 1 | | 08/06/22 03:22 | | |
| -Isopropyltoluene | <1.0 | ug/L | 5.0 | 1.0 | 1 | | 08/06/22 03:22 | | |
| Methylene Chloride | <0.32 | ug/L | 5.0 | 0.32 | 1 | | 08/06/22 03:22 | | |
| Methyl-tert-butyl ether | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 08/06/22 03:22 | | |
| Naphthalene | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 08/06/22 03:22 | 91-20-3 | |
| n-Propylbenzene | <0.35 | ug/L | 1.0 | 0.35 | 1 | | 08/06/22 03:22 | 103-65-1 | |
| Styrene | <0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/06/22 03:22 | 100-42-5 | |
| ,1,1,2-Tetrachloroethane | <0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/06/22 03:22 | 630-20-6 | |
| ,1,2,2-Tetrachloroethane | <0.38 | ug/L | 1.0 | 0.38 | 1 | | 08/06/22 03:22 | 79-34-5 | |
| Tetrachloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 08/06/22 03:22 | 127-18-4 | |
| Toluene | <0.29 | ug/L | 1.0 | 0.29 | 1 | | 08/06/22 03:22 | 108-88-3 | |
| ,2,3-Trichlorobenzene | <1.0 | ug/L | 5.0 | 1.0 | 1 | | 08/06/22 03:22 | 87-61-6 | |
| ,2,4-Trichlorobenzene | < 0.95 | ug/L | 5.0 | 0.95 | 1 | | 08/06/22 03:22 | 120-82-1 | |
| ,1,1-Trichloroethane | < 0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/06/22 03:22 | 71-55-6 | |
| ,1,2-Trichloroethane | < 0.34 | ug/L | 5.0 | 0.34 | 1 | | 08/06/22 03:22 | 79-00-5 | |
| richloroethene | < 0.32 | ug/L | 1.0 | 0.32 | 1 | | 08/06/22 03:22 | 79-01-6 | |
| richlorofluoromethane | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 08/06/22 03:22 | 75-69-4 | |
| ,2,3-Trichloropropane | <0.56 | ug/L | 5.0 | 0.56 | 1 | | 08/06/22 03:22 | | |
| I,2,4-Trimethylbenzene | <0.45 | ug/L | 1.0 | 0.45 | 1 | | 08/06/22 03:22 | | |
| ,3,5-Trimethylbenzene | <0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/06/22 03:22 | | |
| /inyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 08/06/22 03:22 | | |
| m&p-Xylene | <0.70 | ug/L | 2.0 | 0.70 | 1 | | 08/06/22 03:22 | | |
| o-Xylene | <0.35 | ug/L | 1.0 | 0.75 | 1 | | 08/06/22 03:22 | | |



Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

| Sample: PZ-2 | Lab ID: | 40249327002 | Collected: | 08/04/22 | 2 10:50 | Received: 08 | 3/04/22 12:04 M | atrix: Water | |
|-----------------------------|------------|------------------|-------------|----------|---------|--------------|-----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Ana | lytical Services | - Green Bay | | | | | | |
| Surrogates | | | • | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | | 1 | | 08/06/22 03:22 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 96 | % | 70-130 | | 1 | | 08/06/22 03:22 | | |
| Toluene-d8 (S) | 104 | % | 70-130 | | 1 | | 08/06/22 03:22 | | |
| | | ,, | 70 700 | | • | | 00,00,== 00:== | 200. 200 | |
| Sample: BD-1 | Lab ID: | 40249327003 | Collected: | 08/04/22 | 2 00:00 | Received: 08 | 3/04/22 12:04 M | atrix: Water | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Ana | lytical Services | - Green Bay | | | | | | |
| Benzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/06/22 03:41 | 71-43-2 | |
| Bromobenzene | <0.36 | ug/L ug/L | 1.0 | 0.36 | 1 | | 08/06/22 03:41 | | |
| Bromochloromethane | <0.36 | ug/L ug/L | 5.0 | 0.36 | 1 | | 08/06/22 03:41 | | |
| Bromodichloromethane | <0.42 | ug/L ug/L | 1.0 | 0.30 | 1 | | 08/06/22 03:41 | | |
| Bromoform | <3.8 | ug/L ug/L | 5.0 | 3.8 | 1 | | 08/06/22 03:41 | | |
| Bromomethane | <1.2 | ug/L ug/L | 5.0 | 1.2 | 1 | | 08/06/22 03:41 | | |
| n-Butylbenzene | <0.86 | ug/L ug/L | 1.0 | 0.86 | 1 | | 08/06/22 03:41 | | |
| sec-Butylbenzene | <0.42 | ug/L ug/L | 1.0 | 0.42 | 1 | | 08/06/22 03:41 | | |
| tert-Butylbenzene | <0.59 | ug/L | 1.0 | 0.59 | 1 | | 08/06/22 03:41 | | |
| Carbon tetrachloride | <0.37 | ug/L | 1.0 | 0.33 | 1 | | 08/06/22 03:41 | | |
| Chlorobenzene | < 0.86 | ug/L | 1.0 | 0.86 | 1 | | 08/06/22 03:41 | | |
| Chloroethane | <1.4 | ug/L | 5.0 | 1.4 | 1 | | 08/06/22 03:41 | | |
| Chloroform | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 08/06/22 03:41 | | |
| Chloromethane | <1.6 | ug/L | 5.0 | 1.6 | 1 | | 08/06/22 03:41 | | |
| 2-Chlorotoluene | <0.89 | ug/L | 5.0 | 0.89 | 1 | | 08/06/22 03:41 | | |
| 4-Chlorotoluene | <0.89 | ug/L | 5.0 | 0.89 | 1 | | 08/06/22 03:41 | | |
| 1,2-Dibromo-3-chloropropane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 08/06/22 03:41 | | |
| Dibromochloromethane | <2.6 | ug/L | 5.0 | 2.6 | 1 | | 08/06/22 03:41 | | |
| 1,2-Dibromoethane (EDB) | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 08/06/22 03:41 | | |
| Dibromomethane | < 0.99 | ug/L | 5.0 | 0.99 | 1 | | 08/06/22 03:41 | | |
| 1,2-Dichlorobenzene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 08/06/22 03:41 | | |
| 1,3-Dichlorobenzene | <0.35 | ug/L | 1.0 | 0.35 | 1 | | 08/06/22 03:41 | | |
| 1,4-Dichlorobenzene | <0.89 | ug/L | 1.0 | 0.89 | 1 | | 08/06/22 03:41 | | |
| Dichlorodifluoromethane | <0.46 | ug/L | 5.0 | 0.46 | 1 | | 08/06/22 03:41 | | |
| 1,1-Dichloroethane | <0.30 | ug/L ug/L | 1.0 | 0.40 | 1 | | 08/06/22 03:41 | | |
| 1,2-Dichloroethane | <0.29 | ug/L | 1.0 | 0.29 | 1 | | 08/06/22 03:41 | | |
| 1,1-Dichloroethene | <0.58 | ug/L | 1.0 | 0.58 | 1 | | 08/06/22 03:41 | | |
| cis-1,2-Dichloroethene | <0.47 | ug/L ug/L | 1.0 | 0.30 | 1 | | 08/06/22 03:41 | | |
| trans-1,2-Dichloroethene | < 0.53 | ug/L ug/L | 1.0 | 0.53 | 1 | | 08/06/22 03:41 | | |
| 1,2-Dichloropropane | <0.45 | ug/L | 1.0 | 0.35 | 1 | | 08/06/22 03:41 | | |
| 1,3-Dichloropropane | <0.30 | ug/L ug/L | 1.0 | 0.43 | 1 | | 08/06/22 03:41 | | |
| 2,2-Dichloropropane | <4.2 | ug/L ug/L | 5.0 | 4.2 | 1 | | 08/06/22 03:41 | | |



Project: 58187103 SMOKE OUT CLEANERS

40249327

Date: 08/17/2022 09:35 AM

Pace Project No.: Sample: BD-1 Collected: 08/04/22 00:00 Received: 08/04/22 12:04 Lab ID: 40249327003 Matrix: Water LOQ DF **Parameters** Results Units LOD Prepared CAS No. Analyzed Qual Analytical Method: EPA 8260 8260 MSV Pace Analytical Services - Green Bay 1,1-Dichloropropene <0.41 ug/L 1.0 0.41 08/06/22 03:41 563-58-6 1 cis-1,3-Dichloropropene < 0.36 ug/L 1.0 0.36 1 08/06/22 03:41 10061-01-5 trans-1,3-Dichloropropene <3.5 ug/L 5.0 3.5 1 08/06/22 03:41 10061-02-6 Diisopropyl ether <1.1 ug/L 5.0 1.1 1 08/06/22 03:41 108-20-3 Ethylbenzene < 0.33 ug/L 1.0 0.33 1 08/06/22 03:41 100-41-4 08/06/22 03:41 87-68-3 Hexachloro-1,3-butadiene <2.7 ug/L 5.0 2.7 1 08/06/22 03:41 98-82-8 Isopropylbenzene (Cumene) <1.0 ug/L 5.0 1.0 1 08/06/22 03:41 99-87-6 p-Isopropyltoluene <1.0 ug/L 5.0 1.0 1 08/06/22 03:41 75-09-2 Methylene Chloride < 0.32 ug/L 5.0 0.321 Methyl-tert-butyl ether <1.1 ug/L 5.0 1.1 1 08/06/22 03:41 1634-04-4 Naphthalene ug/L 5.0 1.1 08/06/22 03:41 91-20-3 <1.1 1 08/06/22 03:41 103-65-1 0.35 n-Propylbenzene < 0.35 ug/L 1.0 Styrene < 0.36 ug/L 1.0 0.36 1 08/06/22 03:41 100-42-5 1,1,1,2-Tetrachloroethane < 0.36 ug/L 1.0 0.36 1 08/06/22 03:41 630-20-6 1,1,2,2-Tetrachloroethane < 0.38 ug/L 1.0 0.38 1 08/06/22 03:41 79-34-5 Tetrachloroethene ug/L 08/06/22 03:41 127-18-4 < 0.41 1.0 0.41 1 <0.29 ug/L 0.29 08/06/22 03:41 108-88-3 Toluene 1.0 1 1,2,3-Trichlorobenzene ug/L 5.0 08/06/22 03:41 87-61-6 <1.0 1.0 1 1,2,4-Trichlorobenzene < 0.95 5.0 0.95 08/06/22 03:41 120-82-1 ug/L 1 1,1,1-Trichloroethane < 0.30 ug/L 1.0 0.30 1 08/06/22 03:41 71-55-6 1,1,2-Trichloroethane < 0.34 ug/L 5.0 0.34 1 08/06/22 03:41 79-00-5 Trichloroethene <0.32 0.32 08/06/22 03:41 79-01-6 ug/L 1.0 1 Trichlorofluoromethane < 0.42 ug/L 1.0 0.42 1 08/06/22 03:41 75-69-4 0.56 08/06/22 03:41 96-18-4 1,2,3-Trichloropropane < 0.56 ug/L 5.0 1 1,2,4-Trimethylbenzene < 0.45 ug/L 1.0 0.45 1 08/06/22 03:41 95-63-6 1,3,5-Trimethylbenzene < 0.36 ug/L 1.0 0.36 08/06/22 03:41 108-67-8 1 < 0.17 08/06/22 03:41 75-01-4 Vinyl chloride ug/L 1.0 0.17 1 m&p-Xylene <0.70 2 0 0.70 08/06/22 03:41 179601-23-1 ug/L 1 o-Xylene < 0.35 0.35 08/06/22 03:41 95-47-6 ug/L 1.0 1 Surrogates 70-130 4-Bromofluorobenzene (S) 98 % 1 08/06/22 03:41 460-00-4 1.2-Dichlorobenzene-d4 (S) 97 % 70-130 1 08/06/22 03:41 2199-69-1 Toluene-d8 (S) 103 % 70-130 08/06/22 03:41 2037-26-5 Sample: HCI TRIP BLANK Lab ID: 40249327004 Collected: 08/04/22 00:00 Received: 08/04/22 12:04 Matrix: Water **Parameters** Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual 8260 MSV Analytical Method: EPA 8260 Pace Analytical Services - Green Bay Benzene < 0.30 0.30 ug/L 10 1 08/05/22 22:47 71-43-2 < 0.36 ug/L Bromobenzene 1.0 0.36 1 08/05/22 22:47 108-86-1 Bromochloromethane < 0.36 ug/L 5.0 0.36 1 08/05/22 22:47 74-97-5



Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

Sample: HCI TRIP BLANK Lab ID: 40249327004 Collected: 08/04/22 00:00 Received: 08/04/22 12:04 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|------------|----------------|---------------|------|----|----------|----------------|------------|------|
| 8260 MSV | Analytical | Method: EPA | A 8260 | | | | | | |
| | Pace Anal | ytical Service | es - Green Ba | y | | | | | |
| Bromodichloromethane | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 08/05/22 22:47 | 75-27-4 | |
| Bromoform | <3.8 | ug/L | 5.0 | 3.8 | 1 | | 08/05/22 22:47 | | |
| Bromomethane | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 08/05/22 22:47 | | |
| n-Butylbenzene | <0.86 | ug/L | 1.0 | 0.86 | 1 | | 08/05/22 22:47 | | |
| sec-Butylbenzene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 08/05/22 22:47 | | |
| tert-Butylbenzene | <0.59 | ug/L | 1.0 | 0.59 | 1 | | 08/05/22 22:47 | | |
| Carbon tetrachloride | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 08/05/22 22:47 | | |
| Chlorobenzene | <0.86 | ug/L | 1.0 | 0.86 | 1 | | 08/05/22 22:47 | | |
| Chloroethane | <1.4 | ug/L | 5.0 | 1.4 | 1 | | 08/05/22 22:47 | | |
| Chloroform | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 08/05/22 22:47 | | |
| Chloromethane | <1.6 | ug/L | 5.0 | 1.6 | 1 | | 08/05/22 22:47 | | |
| 2-Chlorotoluene | <0.89 | ug/L ug/L | 5.0 5.0 | 0.89 | 1 | | 08/05/22 22:47 | | |
| 4-Chlorotoluene | <0.89 | ug/L ug/L | 5.0 | 0.89 | 1 | | 08/05/22 22:47 | | |
| 1,2-Dibromo-3-chloropropane | <2.4 | ug/L ug/L | 5.0 | 2.4 | 1 | | 08/05/22 22:47 | | |
| Dibromochloromethane | <2.6 | _ | 5.0 | 2.4 | 1 | | 08/05/22 22:47 | | |
| | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 08/05/22 22:47 | | |
| 1,2-Dibromoethane (EDB) Dibromomethane | | ug/L | | | | | | | |
| | <0.99 | ug/L | 5.0 | 0.99 | 1 | | 08/05/22 22:47 | | |
| 1,2-Dichlorobenzene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 08/05/22 22:47 | | |
| 1,3-Dichlorobenzene | <0.35 | ug/L | 1.0 | 0.35 | 1 | | 08/05/22 22:47 | - | |
| 1,4-Dichlorobenzene | <0.89 | ug/L | 1.0 | 0.89 | 1 | | 08/05/22 22:47 | | |
| Dichlorodifluoromethane | <0.46 | ug/L | 5.0 | 0.46 | 1 | | 08/05/22 22:47 | | |
| 1,1-Dichloroethane | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/05/22 22:47 | | |
| 1,2-Dichloroethane | <0.29 | ug/L | 1.0 | 0.29 | 1 | | 08/05/22 22:47 | | |
| 1,1-Dichloroethene | <0.58 | ug/L | 1.0 | 0.58 | 1 | | 08/05/22 22:47 | | |
| cis-1,2-Dichloroethene | <0.47 | ug/L | 1.0 | 0.47 | 1 | | 08/05/22 22:47 | | |
| trans-1,2-Dichloroethene | <0.53 | ug/L | 1.0 | 0.53 | 1 | | 08/05/22 22:47 | | |
| 1,2-Dichloropropane | <0.45 | ug/L | 1.0 | 0.45 | 1 | | 08/05/22 22:47 | 78-87-5 | |
| 1,3-Dichloropropane | < 0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/05/22 22:47 | | |
| 2,2-Dichloropropane | <4.2 | ug/L | 5.0 | 4.2 | 1 | | 08/05/22 22:47 | 594-20-7 | |
| 1,1-Dichloropropene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 08/05/22 22:47 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/05/22 22:47 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <3.5 | ug/L | 5.0 | 3.5 | 1 | | 08/05/22 22:47 | 10061-02-6 | |
| Diisopropyl ether | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 08/05/22 22:47 | | |
| Ethylbenzene | < 0.33 | ug/L | 1.0 | 0.33 | 1 | | 08/05/22 22:47 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.7 | ug/L | 5.0 | 2.7 | 1 | | 08/05/22 22:47 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <1.0 | ug/L | 5.0 | 1.0 | 1 | | 08/05/22 22:47 | 98-82-8 | |
| p-Isopropyltoluene | <1.0 | ug/L | 5.0 | 1.0 | 1 | | 08/05/22 22:47 | | |
| Methylene Chloride | <0.32 | ug/L | 5.0 | 0.32 | 1 | | 08/05/22 22:47 | 75-09-2 | |
| Methyl-tert-butyl ether | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 08/05/22 22:47 | 1634-04-4 | |
| Naphthalene | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 08/05/22 22:47 | | |
| n-Propylbenzene | <0.35 | ug/L | 1.0 | 0.35 | 1 | | 08/05/22 22:47 | | |
| Styrene | <0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/05/22 22:47 | | |
| 1,1,1,2-Tetrachloroethane | <0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/05/22 22:47 | | |
| 1,1,2,2-Tetrachloroethane | <0.38 | ug/L | 1.0 | 0.38 | 1 | | 08/05/22 22:47 | | |
| Tetrachloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 08/05/22 22:47 | | |



Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

| Sample: HCI TRIP BLANK | Lab ID: | 40249327004 | Collecte | d: 08/04/22 | 2 00:00 | Received: 08 | /04/22 12:04 Ma | atrix: Water | |
|----------------------------|------------|-----------------|------------|-------------|---------|--------------|-----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical | Method: EPA 8 | 260 | | | | | | |
| | Pace Anal | ytical Services | - Green Ba | у | | | | | |
| Toluene | <0.29 | ug/L | 1.0 | 0.29 | 1 | | 08/05/22 22:47 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <1.0 | ug/L | 5.0 | 1.0 | 1 | | 08/05/22 22:47 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 08/05/22 22:47 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 08/05/22 22:47 | 71-55-6 | |
| 1,1,2-Trichloroethane | < 0.34 | ug/L | 5.0 | 0.34 | 1 | | 08/05/22 22:47 | 79-00-5 | |
| Trichloroethene | <0.32 | ug/L | 1.0 | 0.32 | 1 | | 08/05/22 22:47 | 79-01-6 | |
| Trichlorofluoromethane | < 0.42 | ug/L | 1.0 | 0.42 | 1 | | 08/05/22 22:47 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.56 | ug/L | 5.0 | 0.56 | 1 | | 08/05/22 22:47 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.45 | ug/L | 1.0 | 0.45 | 1 | | 08/05/22 22:47 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | < 0.36 | ug/L | 1.0 | 0.36 | 1 | | 08/05/22 22:47 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 08/05/22 22:47 | 75-01-4 | |
| m&p-Xylene | <0.70 | ug/L | 2.0 | 0.70 | 1 | | 08/05/22 22:47 | 179601-23-1 | |
| o-Xylene | < 0.35 | ug/L | 1.0 | 0.35 | 1 | | 08/05/22 22:47 | 95-47-6 | |
| Surrogates | | • | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 08/05/22 22:47 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 96 | % | 70-130 | | 1 | | 08/05/22 22:47 | 2199-69-1 | |
| Toluene-d8 (S) | 107 | % | 70-130 | | 1 | | 08/05/22 22:47 | 2037-26-5 | |



Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

QC Batch: 422735 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40249327001, 40249327002, 40249327003, 40249327004

METHOD BLANK: 2434882 Matrix: Water
Associated Lab Samples: 40249327001, 40249327002, 40249327003, 40249327004

| | | Blank | Reporting | | |
|-----------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1,1,1,2-Tetrachloroethane | ug/L | <0.36 | 1.0 | 08/05/22 17:32 | |
| 1,1,1-Trichloroethane | ug/L | < 0.30 | 1.0 | 08/05/22 17:32 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.38 | 1.0 | 08/05/22 17:32 | |
| 1,1,2-Trichloroethane | ug/L | < 0.34 | 5.0 | 08/05/22 17:32 | |
| 1,1-Dichloroethane | ug/L | < 0.30 | 1.0 | 08/05/22 17:32 | |
| 1,1-Dichloroethene | ug/L | <0.58 | 1.0 | 08/05/22 17:32 | |
| 1,1-Dichloropropene | ug/L | < 0.41 | 1.0 | 08/05/22 17:32 | |
| 1,2,3-Trichlorobenzene | ug/L | <1.0 | 5.0 | 08/05/22 17:32 | |
| 1,2,3-Trichloropropane | ug/L | < 0.56 | 5.0 | 08/05/22 17:32 | |
| 1,2,4-Trichlorobenzene | ug/L | < 0.95 | 5.0 | 08/05/22 17:32 | |
| 1,2,4-Trimethylbenzene | ug/L | < 0.45 | 1.0 | 08/05/22 17:32 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.4 | 5.0 | 08/05/22 17:32 | |
| 1,2-Dibromoethane (EDB) | ug/L | < 0.31 | 1.0 | 08/05/22 17:32 | |
| 1,2-Dichlorobenzene | ug/L | < 0.33 | 1.0 | 08/05/22 17:32 | |
| 1,2-Dichloroethane | ug/L | < 0.29 | 1.0 | 08/05/22 17:32 | |
| 1,2-Dichloropropane | ug/L | < 0.45 | 1.0 | 08/05/22 17:32 | |
| 1,3,5-Trimethylbenzene | ug/L | < 0.36 | 1.0 | 08/05/22 17:32 | |
| 1,3-Dichlorobenzene | ug/L | < 0.35 | 1.0 | 08/05/22 17:32 | |
| 1,3-Dichloropropane | ug/L | < 0.30 | 1.0 | 08/05/22 17:32 | |
| 1,4-Dichlorobenzene | ug/L | <0.89 | 1.0 | 08/05/22 17:32 | |
| 2,2-Dichloropropane | ug/L | <4.2 | 5.0 | 08/05/22 17:32 | |
| 2-Chlorotoluene | ug/L | <0.89 | 5.0 | 08/05/22 17:32 | |
| 4-Chlorotoluene | ug/L | <0.89 | 5.0 | 08/05/22 17:32 | |
| Benzene | ug/L | < 0.30 | 1.0 | 08/05/22 17:32 | |
| Bromobenzene | ug/L | < 0.36 | 1.0 | 08/05/22 17:32 | |
| Bromochloromethane | ug/L | < 0.36 | 5.0 | 08/05/22 17:32 | |
| Bromodichloromethane | ug/L | < 0.42 | 1.0 | 08/05/22 17:32 | |
| Bromoform | ug/L | <3.8 | 5.0 | 08/05/22 17:32 | |
| Bromomethane | ug/L | <1.2 | 5.0 | 08/05/22 17:32 | |
| Carbon tetrachloride | ug/L | < 0.37 | 1.0 | 08/05/22 17:32 | |
| Chlorobenzene | ug/L | <0.86 | 1.0 | 08/05/22 17:32 | |
| Chloroethane | ug/L | <1.4 | 5.0 | 08/05/22 17:32 | |
| Chloroform | ug/L | <1.2 | 5.0 | 08/05/22 17:32 | |
| Chloromethane | ug/L | <1.6 | 5.0 | 08/05/22 17:32 | |
| cis-1,2-Dichloroethene | ug/L | < 0.47 | 1.0 | 08/05/22 17:32 | |
| cis-1,3-Dichloropropene | ug/L | < 0.36 | 1.0 | 08/05/22 17:32 | |
| Dibromochloromethane | ug/L | <2.6 | 5.0 | 08/05/22 17:32 | |
| Dibromomethane | ug/L | < 0.99 | 5.0 | 08/05/22 17:32 | |
| Dichlorodifluoromethane | ug/L | < 0.46 | 5.0 | 08/05/22 17:32 | |
| Diisopropyl ether | ug/L | <1.1 | 5.0 | 08/05/22 17:32 | |

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



Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

METHOD BLANK: 2434882 Matrix: Water
Associated Lab Samples: 40249327001, 40249327002, 40249327003, 40249327004

| | | Blank | Reporting | | |
|----------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| Ethylbenzene | ug/L | <0.33 | 1.0 | 08/05/22 17:32 | |
| Hexachloro-1,3-butadiene | ug/L | <2.7 | 5.0 | 08/05/22 17:32 | |
| Isopropylbenzene (Cumene) | ug/L | <1.0 | 5.0 | 08/05/22 17:32 | |
| m&p-Xylene | ug/L | < 0.70 | 2.0 | 08/05/22 17:32 | |
| Methyl-tert-butyl ether | ug/L | <1.1 | 5.0 | 08/05/22 17:32 | |
| Methylene Chloride | ug/L | < 0.32 | 5.0 | 08/05/22 17:32 | |
| n-Butylbenzene | ug/L | <0.86 | 1.0 | 08/05/22 17:32 | |
| n-Propylbenzene | ug/L | < 0.35 | 1.0 | 08/05/22 17:32 | |
| Naphthalene | ug/L | <1.1 | 5.0 | 08/05/22 17:32 | |
| o-Xylene | ug/L | < 0.35 | 1.0 | 08/05/22 17:32 | |
| p-Isopropyltoluene | ug/L | <1.0 | 5.0 | 08/05/22 17:32 | |
| sec-Butylbenzene | ug/L | < 0.42 | 1.0 | 08/05/22 17:32 | |
| Styrene | ug/L | < 0.36 | 1.0 | 08/05/22 17:32 | |
| ert-Butylbenzene | ug/L | < 0.59 | 1.0 | 08/05/22 17:32 | |
| Tetrachloroethene | ug/L | < 0.41 | 1.0 | 08/05/22 17:32 | |
| Toluene | ug/L | < 0.29 | 1.0 | 08/05/22 17:32 | |
| rans-1,2-Dichloroethene | ug/L | < 0.53 | 1.0 | 08/05/22 17:32 | |
| rans-1,3-Dichloropropene | ug/L | <3.5 | 5.0 | 08/05/22 17:32 | |
| Trichloroethene | ug/L | < 0.32 | 1.0 | 08/05/22 17:32 | |
| Trichlorofluoromethane | ug/L | < 0.42 | 1.0 | 08/05/22 17:32 | |
| Vinyl chloride | ug/L | < 0.17 | 1.0 | 08/05/22 17:32 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 99 | 70-130 | 08/05/22 17:32 | |
| 4-Bromofluorobenzene (S) | % | 103 | 70-130 | 08/05/22 17:32 | |
| Toluene-d8 (S) | % | 105 | 70-130 | 08/05/22 17:32 | |

| LABORATORY CONTROL SAMPLE: | 2434883 | | | | | |
|-----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,1,1-Trichloroethane | ug/L | 50 | 52.9 | 106 | 70-134 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 45.3 | 91 | 69-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 50.1 | 100 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 49.5 | 99 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 54.2 | 108 | 74-131 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 48.6 | 97 | 68-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 42.1 | 84 | 64-137 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 49.1 | 98 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 48.0 | 96 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 50.8 | 102 | 70-137 | |
| 1,2-Dichloropropane | ug/L | 50 | 47.7 | 95 | 80-121 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 50.5 | 101 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 47.8 | 96 | 70-130 | |
| Benzene | ug/L | 50 | 50.4 | 101 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 49.3 | 99 | 70-130 | |
| Bromoform | ug/L | 50 | 50.2 | 100 | 70-130 | |

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



Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

| LABORATORY CONTROL SAMPLE: | 2434883 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| Bromomethane | ug/L | 50 | 31.6 | 63 | 21-147 | |
| Carbon tetrachloride | ug/L | 50 | 55.9 | 112 | 80-146 | |
| Chlorobenzene | ug/L | 50 | 52.1 | 104 | 70-130 | |
| nloroethane | ug/L | 50 | 50.6 | 101 | 52-165 | |
| hloroform | ug/L | 50 | 54.2 | 108 | 80-123 | |
| hloromethane | ug/L | 50 | 48.5 | 97 | 51-122 | |
| s-1,2-Dichloroethene | ug/L | 50 | 49.4 | 99 | 70-130 | |
| s-1,3-Dichloropropene | ug/L | 50 | 49.2 | 98 | 70-130 | |
| ibromochloromethane | ug/L | 50 | 50.5 | 101 | 70-130 | |
| chlorodifluoromethane | ug/L | 50 | 38.1 | 76 | 25-121 | |
| hylbenzene | ug/L | 50 | 52.0 | 104 | 80-120 | |
| opropylbenzene (Cumene) | ug/L | 50 | 51.0 | 102 | 70-130 | |
| &p-Xylene | ug/L | 100 | 99.9 | 100 | 70-130 | |
| ethyl-tert-butyl ether | ug/L | 50 | 51.1 | 102 | 70-130 | |
| ethylene Chloride | ug/L | 50 | 53.9 | 108 | 70-130 | |
| Xylene | ug/L | 50 | 49.9 | 100 | 70-130 | |
| tyrene | ug/L | 50 | 52.7 | 105 | 70-130 | |
| etrachloroethene | ug/L | 50 | 48.4 | 97 | 70-130 | |
| oluene | ug/L | 50 | 51.2 | 102 | 80-120 | |
| ans-1,2-Dichloroethene | ug/L | 50 | 52.5 | 105 | 70-130 | |
| ans-1,3-Dichloropropene | ug/L | 50 | 49.2 | 98 | 70-130 | |
| richloroethene | ug/L | 50 | 50.5 | 101 | 70-130 | |
| richlorofluoromethane | ug/L | 50 | 52.7 | 105 | 65-160 | |
| nyl chloride | ug/L | 50 | 52.6 | 105 | 63-134 | |
| 2-Dichlorobenzene-d4 (S) | % | | | 96 | 70-130 | |
| Bromofluorobenzene (S) | % | | | 100 | 70-130 | |
| oluene-d8 (S) | % | | | 103 | 70-130 | |

| MATRIX SPIKE & MATRIX SF | PIKE DUPL | ICATE: 2434 | 884 MS | MSD | 2434885 | | | | | | | |
|---------------------------------|-----------|-------------|-----------|-------|---------|--------|-------|-------|--------|-----|-----|------|
| | | 40249315002 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| 1,1,1-Trichloroethane | ug/L | <0.30 | 50 | 50 | 55.2 | 53.2 | 110 | 106 | 70-134 | 4 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | < 0.38 | 50 | 50 | 46.4 | 44.7 | 93 | 89 | 61-135 | 4 | 20 | |
| 1,1,2-Trichloroethane | ug/L | < 0.34 | 50 | 50 | 52.6 | 53.3 | 105 | 107 | 70-130 | 1 | 20 | |
| 1,1-Dichloroethane | ug/L | < 0.30 | 50 | 50 | 51.5 | 51.0 | 103 | 102 | 70-130 | 1 | 20 | |
| 1,1-Dichloroethene | ug/L | < 0.58 | 50 | 50 | 54.8 | 56.0 | 110 | 112 | 71-130 | 2 | 20 | |
| 1,2,4-Trichlorobenzene | ug/L | < 0.95 | 50 | 50 | 49.6 | 49.5 | 99 | 99 | 68-131 | 0 | 20 | |
| 1,2-Dibromo-3- chloropropane | ug/L | <2.4 | 50 | 50 | 46.3 | 44.1 | 93 | 88 | 51-141 | 5 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/L | < 0.31 | 50 | 50 | 50.9 | 50.0 | 102 | 100 | 70-130 | 2 | 20 | |
| 1,2-Dichlorobenzene | ug/L | < 0.33 | 50 | 50 | 49.3 | 49.7 | 99 | 99 | 70-130 | 1 | 20 | |
| 1,2-Dichloroethane | ug/L | < 0.29 | 50 | 50 | 52.6 | 52.9 | 105 | 106 | 70-137 | 0 | 20 | |
| 1,2-Dichloropropane | ug/L | < 0.45 | 50 | 50 | 50.9 | 47.9 | 102 | 96 | 80-121 | 6 | 20 | |
| 1,3-Dichlorobenzene | ug/L | < 0.35 | 50 | 50 | 53.8 | 52.2 | 108 | 104 | 70-130 | 3 | 20 | |

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



Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

| MATRIX SPIKE & MATRIX SP | IKE DUPL | ICATE: 2434 | | MOD | 2434885 | | | | | | | |
|----------------------------|----------|-------------|-------------|--------------|---------|--------|-------|-------|--------|-----|-----|-----|
| | | 40249315002 | MS Spike | MSD Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qua |
| 1,4-Dichlorobenzene | ug/L | <0.89 | 50 | 50 | 50.0 | 50.4 | 100 | 101 | 70-130 | 1 | 20 | |
| Benzene | ug/L | < 0.30 | 50 | 50 | 52.4 | 51.4 | 105 | 103 | 70-130 | 2 | 20 | |
| Bromodichloromethane | ug/L | < 0.42 | 50 | 50 | 51.7 | 51.3 | 103 | 103 | 70-130 | 1 | 20 | |
| Bromoform | ug/L | <3.8 | 50 | 50 | 53.0 | 53.3 | 106 | 107 | 70-133 | 1 | 20 | |
| Bromomethane | ug/L | <1.2 | 50 | 50 | 39.4 | 40.6 | 79 | 81 | 21-149 | 3 | 22 | |
| Carbon tetrachloride | ug/L | < 0.37 | 50 | 50 | 58.9 | 57.8 | 118 | 116 | 80-146 | 2 | 20 | |
| Chlorobenzene | ug/L | <0.86 | 50 | 50 | 53.4 | 53.6 | 107 | 107 | 70-130 | 0 | 20 | |
| Chloroethane | ug/L | <1.4 | 50 | 50 | 52.6 | 51.6 | 105 | 103 | 52-165 | 2 | 20 | |
| Chloroform | ug/L | <1.2 | 50 | 50 | 57.3 | 55.7 | 115 | 111 | 80-123 | 3 | 20 | |
| Chloromethane | ug/L | <1.6 | 50 | 50 | 45.9 | 44.8 | 92 | 90 | 42-125 | 2 | 20 | |
| cis-1,2-Dichloroethene | ug/L | < 0.47 | 50 | 50 | 51.9 | 51.8 | 104 | 104 | 70-130 | 0 | 20 | |
| sis-1,3-Dichloropropene | ug/L | < 0.36 | 50 | 50 | 53.5 | 52.8 | 107 | 106 | 70-130 | 1 | 20 | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 51.2 | 51.9 | 102 | 104 | 70-130 | 1 | 20 | |
| Dichlorodifluoromethane | ug/L | < 0.46 | 50 | 50 | 36.1 | 36.8 | 72 | 74 | 25-121 | 2 | 20 | |
| Ethylbenzene | ug/L | < 0.33 | 50 | 50 | 53.9 | 54.5 | 108 | 109 | 80-121 | 1 | 20 | |
| sopropylbenzene Cumene) | ug/L | <1.0 | 50 | 50 | 53.7 | 52.9 | 107 | 106 | 70-130 | 2 | 20 | |
| m&p-Xylene | ug/L | < 0.70 | 100 | 100 | 105 | 104 | 105 | 104 | 70-130 | 2 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.1 | 50 | 50 | 53.1 | 53.5 | 106 | 107 | 70-130 | 1 | 20 | |
| Methylene Chloride | ug/L | < 0.32 | 50 | 50 | 55.9 | 54.2 | 112 | 108 | 70-130 | 3 | 20 | |
| o-Xylene | ug/L | < 0.35 | 50 | 50 | 50.6 | 51.7 | 101 | 103 | 70-130 | 2 | 20 | |
| Styrene | ug/L | < 0.36 | 50 | 50 | 55.6 | 54.6 | 111 | 109 | 70-132 | 2 | 20 | |
| Tetrachloroethene | ug/L | < 0.41 | 50 | 50 | 48.8 | 49.1 | 98 | 98 | 70-130 | 1 | 20 | |
| Toluene | ug/L | <0.29 | 50 | 50 | 52.8 | 53.3 | 106 | 107 | 80-120 | 1 | 20 | |
| rans-1,2-Dichloroethene | ug/L | < 0.53 | 50 | 50 | 52.3 | 53.2 | 105 | 106 | 70-130 | 2 | 20 | |
| rans-1,3-Dichloropropene | ug/L | <3.5 | 50 | 50 | 52.4 | 53.8 | 105 | 108 | 70-130 | 3 | 20 | |
| Frichloroethene | ug/L | < 0.32 | 50 | 50 | 51.6 | 51.0 | 103 | 102 | 70-130 | 1 | 20 | |
| Trichlorofluoromethane | ug/L | < 0.42 | 50 | 50 | 53.8 | 53.8 | 108 | 108 | 65-160 | 0 | 20 | |
| √inyl chloride | ug/L | <0.17 | 50 | 50 | 51.1 | 49.2 | 102 | 98 | 60-137 | 4 | 20 | |
| I,2-Dichlorobenzene-d4 (S) | % | | | | | | 95 | 94 | 70-130 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 100 | 97 | 70-130 | | | |
| Foluene-d8 (S) | % | | | | | | 105 | 103 | 70-130 | | | |

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



QUALIFIERS

Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

Date: 08/17/2022 09:35 AM

(920)469-2436



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58187103 SMOKE OUT CLEANERS

Pace Project No.: 40249327

Date: 08/17/2022 09:35 AM

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|-----------------|----------|-------------------|---------------------|
| 40249327001 | PZ-1 | EPA 8260 | 422735 | | |
| 40249327002 | PZ-2 | EPA 8260 | 422735 | | |
| 40249327003 | BD-1 | EPA 8260 | 422735 | | |
| 40249327004 | HCI TRIP BLANK | EPA 8260 | 422735 | | |

| Pace Analytical* | CHAIN | OF-CU | STODY A | Analytic | cal Req | uest Do | cumei | nt | 280 c | | LAB U | SE ONLY- Affi | | der/Login Lab MTJL Log-in | Select - Albert Saber Calendaria | | |
|---|--------------------------------|----------------|--|---|---|----------------------------|---|--------------|--|--|--|--|--|-------------------------------|---|--|--|
| Company: | Chain- | of-Custody | is a LEGAL D | | T - Complet | e all releve | nt fields | | 20/20/20/20 20/20/20/20 | en de la companya de La companya de la co | granista de la composición dela composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición de la c | | San School Lake (ADA) | 13 (1-3) | San San San Sales S | 40249777 | |
| 10 Talm | | | | | | | | | 10 A | la serie e S | | ACE SELECTION SELECTION | in a the control of | | | AB USE ONLY | |
| Address: 9856 S 57** | St Fra | ntlm u | | | | | | | 769AS | 13 | Conta | iner Preserva | tive Type | 30000 garden | Lab Proje | ct Manager: | |
| | radasm | | Email To: | Satt | Hod | 9500 | | | | | | | | | | sodium hydroxide, (5) zinc acetate, bic acid, (B) ammonium sulfate, | |
| Copy To: Ryan JO | 115a | | Site Collec | tion Info/A | ddress: C | , | | | | | | ide, (D) TSP, (L | J) Unpreser | ved, (O) Other _ | | _ • | |
| Customer Project Name/Number: | | | State: | County/Ci | | me Zone Co | | | | | | Analyse | 5 | | | eytine: Ample Receipt Checklist: | |
| Smoke out Clemos/ | 5818710 Site/Facility ID | | wI/1 | toward | |] PT [] MT ce Monitori | | []EI | 10000 | | 32 (54) | | 100 | | | dy Seals Present/Intact Y N NA | |
| Phone: Email: | Site/Facility IL |) #; | | | [] Yes | ce Monitori [] No | ingr | | | | Section 1 | | | 1 10 2 | Colle | ctor Signature Present Y N NA | |
| Collected By (print): Pyw Jamson | Purchase Ord | er#: | | | DW PWS DW Locat | | | | | | | | | | Corre | ct Bottles YN NA | |
| Collected By (signature): | Turnaround D | ate Requir | red: | | 1 | ely Packed | on Ice: | | Andre S | | Proper Maryes | | | | VOA - | Bes Received on Ice | |
| Ment | | day | -57b | , | Yes | [] No | | | | | | a region | | | USDA : Sampl | Regulated Soils Y N NA es in Holding Time Y N NA | |
| Sample Disposal: [Dispose as appropriate [] Return [] Archive: | 1 | [] 3 Day | [] Next Da [] 4 Day arges Apply) | • | [] Yes | red (if appli | icable): | | 7.00 | | | | | | Resid Cl St Sample pH St | al Chlorine Present AN NA rips: PH Acceptable Y N NA rips: de Present Y N NA | |
| * Matrix Codes (Insert in Matrix bo Product (P), Soil/Solid (SL), Oil (O | | _ | · " | , | • | • | • | | | 120 | | | eko esi Ke eko esi Ka | | Lead | Acetate Strips: | |
| Customer Sample ID | Matrix * | Comp / Grab | 1 | ted (or ite Start) Time | Compo | osite End | Res Cl | # of Ctns | | | ÷ | | | | Lab | ample # / Comments: | |
| P2-1 | 660 | 6 | 84122 | 1135 | | 111110 | | | A STATE OF THE STA | Z | 4244 | | 100000 | and a processor of the second | 6 | O | |
| p2-2 | | | | 1050 | | | | | la 1982 | X | 200 | | 111 - 221 | 2000 | C | DZ. | |
| BD-1 | | | | - | | | | | | X | | | 0 MM | William Co. | | 703 | |
| Hel Trip Blank | <u> </u> | 7 | 1 7 | | | | | <u> </u> | | X | 80- | Arcing . | 78 1 4 4 4 5 | | (| 204 | |
| | | <u> </u> | | | ļ | ļ | ļ | <u> </u> | | - | | | 95° | 4.3 | alle soldier de | | |
| · | | | | <u> </u> | | | | - | 20 Sec. | | 40.5 | | 10.75% | | 100000000000000000000000000000000000000 | | |
| | | | - | · · | - | | <u> </u> | ╂ | Secretary Secretary | - | alle se asc Mala, con | | 100000 | | \$100 miles 100 miles | | |
| | | | 1 | | <u> </u> | | | | Million as | - | | | | 200.00 | 0.05 (1.55) 98 (1.55) 98 (1.55) | | |
| | | | 1 | | | | | | 400 and | | 30.65 | | | | Appendix and a | | |
| Customer Remarks / Special Condit | tions / Possible | Hazards: | Type of Ice | ≥ Used: | Wet . | Blue Di | ry No | one | AN ON Walio Sa | SHC | RT HOLE | S PRESENT (| <72 hours) | 1 N Y | I/A | Lab Sample Temperature Info: | |
| | | | Packing M | aterial Use | ed: | | | | | Lab | Tracking | #: 2 | 825 | 029 | | Temp Blank Received: N NA Therm ID#: Cooler 1 Temp Upon Receipt: 40C | |
| | | | Radchem s | sample(s): | screened (< | 500 cpm): | Y N | I NA | 4 4 | Sam | ples rece FEDEX | THE RESERVE OF THE PROPERTY OF | ient Co | ourier Pac | e Courier | Cooler 1 Therm Corr. Factor: 720C Cooler 1 Corrected Temp: 3180C | |
| Relinquished by/Company: (Signatu | ure) | | te/Time: | 204 | Received b | y/Company | y: (Signat | ure) | , etc. 10 . 49r | 1 | Date/Tin | ne: /20 | 4 | MTJL LAB US | | Comments: | |
| | | 18 | 14/22 | · | 1111 | orak | 111 | | نبن | | 814 | 122 | Table | e #; num: | and the second second second | | |
| Relipquished by/Company: (Signatu | ure) | Dat | te/Time: | | Received b | oy/Company | y: (Signat | ure) | ré) Date/Time: Template: Prelogin: | | | | | olate: | Trip Blank Received: Y N NA HCL MeOH TSP Other | | |
| Relinquished by/Company: (Signatu | ure) | Dat | te/Time: | /Time: Received by/Company: (Signature) | | Date/Time: PM: | | | | PM: | | | Non Conformance(s): Page: Page 19 of YES / NO of: | | | | |

DC#_Title: ENV-FRM-GBAY-0035 v02_Sample Preservation Receipt Form

Effective Date: 8/3/2022

| C | lier | nt Na | ime: | 16 | 77 | <u>ac</u> | <u> </u> |) | en ch | necked | and r | noted l | | | Pro | Pres ject □N | # | ation | ı Re | ceip | t Fo | rm 27 | | | - | | | | Initia | when | | Date/ | |
|-------------------|------------|-----------------|-----------|---------------|---------------------|---|----------------|----------|---|--|----------|---------------------------|---|--------------|---------------|--------------------|--------------|--|--|-----------------|----------------|--|-----------------------------|--------------|---|--------------|-------------------|-------------|-------------------|-------------|----------------------------------|------------------|------------------------|
| | ΛII \ | coma | 11619 11 | | y pres | oci vali | UII III | ave be | :CII CI | | | of pH | | | ,, | | | 1 | #ID of | prese | rvatio | n (if pl | H adju | sted): | | | | | | oleted: | | Time: | |
| | | | | ******** | ass | | | | | L | Plast | | | | | ~~~~~ | als | | | [| | ars | | G | enera | | ils (>6mm) | 0H ≤2 | VaOH+Zn Act pH ≥9 | H ≥12 | 1 ≤2 | after adjusted | Volume (mL) |
| Pace Lab# | AG1U | BG1U | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | BP1U | врзи | BP3B | BP3N | BP3S | VG9A | DG9T | VG9U | V G9H | VG9M | VG9D | JGFU | JG9U | WGFU | WPFU | SP5T | ZPLC | N S | VOA Vials | H2SO4 pH ≤2 | NaOH+Z | NaOH pH ≥12 | HNO3 pH <2 | pH after | (1112) |
| 001 | | | | | | | | | | | ļ | | | | | | 3 | e assessment | | 10000 | | WINTER THE | | | 2.4457.34 | | 1 | | | | | | 2.5 / 5 / 10 |
| 002 | E. | 10.55 | 14 | 15.00 | apeds: | | | | | G Grant | | | 2000 | 3050 | 1000 | | 3 | of deposits in | 2,000 | 4 (1446) 93-994 | can through | | | | A CANADA | 6801 600 | | | 10.00 | 2000 | 1984 CP6 | | 2.5/5/10 |
| 003 | 100000 | dr.a.a.a | 2875006 | Sauces | 1000000 | | | 10000 | | | | S SERVICE | i Astan | i Alegela | 105704 | 1 Sign 200 | 3 | 14:445 | | | i de Niko | -407 (355) | les etc. | 2223,3 | b sadruba | 97.0053 | 473 pa-se | | 196918061 | | | | 2.5 / 5 / 10 |
| 004 | | 70 P.M | DOM: 16 | | 16. 54 | | | | | | | | of solutions | 14.00 | | 40.4 | 2 | 4 (7 till) 40 st | | alignye (Perse | ree in the | 100 TO 10 | ui, je | ACTIVITY OF | - 2544/190 | | | P.P.S. | 12.50 | 1.00 | 100 D-087 100 400-03 (* 2006) | | 2.5/5/10 2.5/5/10 |
| 005 006 | | | _ | 1 (6 No. 10 | - Garagia | | | | | a mana | GI (NG) | 356.55 | 5667.0 | 1 4 5 4 5 | i Jack | 1 N N S | | | 1544 | | 37, 37 | 12 0 25 | 13/19/ | 409.5 | 10000 | 863423 | Philips. | History | 10000 | li soniti | | | 2.5/5/10 |
| 007 | 214623 | 7,331,664 | 100000000 | atres, at | 100000 | -8-812 | | | 1.25 | | | obrog cyl | | 1626.6 | is and any to | 42.51.0 | November | h Edgianku | 3.6% | in Britain in 1 | AF-SHIPS I | 383 35 7469 | \$100 SA(\$1.5) | Sec. 2-1-195 | | 100.00 | | ACCOMME. | | 104000000 | 310204040 | | 2.5 / 5 / 10 |
| 008 | 1331 | | | | 30.50 | | 1000 | 1000 | | | 87401984 | 0.0000 | -7300 | 47.000 | W. Ship | 10.518 | | | | | | 3466 | 363 | 103 30 v | | 0.750 | 44.0 | | | (38.33) | | | 2.5/5/10 |
| 009 | | 124.61.169 | | AC 8007-91000 | WES-1111 | | ###C500012 | | | $\overline{}$ | | | 100000000 | | 1 1000 | 12.000,000 | 41,0000000 | A 1000 1000 | o porten | | - Agent war go | *************************************** | | | 100000000000000000000000000000000000000 | | | | | | | | 2.5 / 5 / 10 |
| 010 | N/A | | | i i i | | | | ALC:N | 100 | | | | | 100 | | 2.16度 | 370g s | | Condition Significant Conditions | id to the | | LANCES. | San S | | 504414 | | of page | | les. | 5.21.2 | 4900E | 34), 41, 611 | 2.5/5/10 |
| 011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 012 | Ligi | | 9135 | 1111 | 77.5 | 19-19-11 | | | n ne de | 1 TO 10 10 15 | 15000 | of otherwise Countries | registalist | thougasters | Lua | | Jakka | 35,494 | B. Ballet | Ma. | AUG | | Abolica Silvada National | 300 IF 100 | ****** | ***** | 4427-869 | Augent | | 13,675616 | | W-MORE | 2.5/5/10 |
| 013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 014 | | | 1,7100.00 | | 10 10 10 | | | arretas. | 0.00000 | | | diction of | Sales Sa Sales Sales Sa Sales Sales | ing to | | ale.jii | | | illed a | 1.14.3 | | | 6 (665) (1 2 (7 (8) | | 30000 | | | | 1111111 | 108 11 8 | 13111 | 0.000000 | 2.5 / 5 / 10 |
| 015 | | | | | | | LQ. | | / | | | | TANKS NAVI BOOK | | | | | | | | | | | | <u> </u> | | normal succession | | | | | | 2.5 / 5 / 10 |
| 016 | | | | | | | D | 14/ | 2 | 4 1 | VK | | 7.204 | | | A SHORE | A. 1 | | 9.5% | | | 4.4 | | | | | | | | | | | 2.5/5/10 |
| 017 | 721 251000 | Topodosia const | | | 1 2 1 2 2 3 3 4 1 1 | 1 1000000000000000000000000000000000000 | , seriousis | | | The state of the s | <u> </u> | | | | | Burbania yasasa | Por Care C | VIII VIII VIII VIII VIII VIII VIII VII | | 400000 | | | What for the | 12453494 | 130000000000000000000000000000000000000 | | | | Walter Street | option to | | | 2.5 / 5 / 10 |
| 018 | | | MONE | | | | | | | | | | | | A4 (A 5 | 100 A | Sept. Chill. | 350 | 1 fallen | in the co | Hilling | 4500 | | | | | | | | | | | 2.5/5/10 |
| 019 | * 24.55 | 525.00 | 4.3397 | | 1640-1610 | nekani | dises | 15781181 | i asta | I Backe | | | 0.00 | | LT NO. | | 84,854 | 1 12 1 2 | 1 2830 | | NO. | | 564.00 | 2.57634 | regissival. | - Grande | | 8.6516 | activi Vita | 1 Dellester | -yadayad | | 25/5/10 |
| 020 | 1023 | Thurston, | | Van Grand | | | | | S S Sheets | See The Section | | silve e | e di asserso | a digital di | and the same | | gy hours | # 1 T | | E. 300 | | 100110500 | \$100,000 to 0.00 | | H.C. | 200 | e de la laci | 2,43,5 | ALC: NOTE: | Sections. | | et reprise entre | 2.5/5740 |
| Excep | otions | s to pr | eserva | ation c | check: | <u></u> VOA | <u>, </u> goli | form, | TOC, | TOX, | TOH, | O&G, | WI D | RO, F | henol | ics, O | ther:_ | | | _Head | dspace | e in V | DA Via | als (>6 | 3mm) : | | | | | | s look i | n heads | space column |
| AG1U | | | _ | | | | | | 21U | | | tic un | | | | | 39A | | nL cle | | | | | 1 | 3FU | | | • | unpres | | | | |
| BG1U AG1H | | | _ | | ICI | | | 1 - | 23U 23B | | | astic ı astic I | | | | | 39T 39U | | nL am nL clea | | | | | | | 9 oz 4 oz | | | unpres | 3 | | | |
| AG4S | | | | | | O 4 | | | 23N | | | astic I | | | | | 39H | | nL cle | | | | | | | | | | unpres | 6 | | | |
| AG4U | | | | | | | | В | 238 | 250 | mL pla | astic I | H2SO | 4 | | 4 | 9M | | nL cle | | | Н | | | P5T | | | | Na Th | iosulfa | ite | | 1 |
| AG5U | | | | | | | | | | | | | | | | V | 39D | 40 m | nL cle | ar vial | DI | | | | PLC SN | ziplo | c bag | | | | | | |
| AG2S | | | | | | | | | | | | | | | | | | | | | | | | L, | N | <u> </u> | | | | | | | |
| BG3U | 250 | mL c | iear (| giass | unpr | es | |] | | | | | | | | | | | | | | | | | | | | | | | | Page | e <u>1</u> of <u>2</u> |

DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR

Effective Date: 5/16/2022

Sample Condition Upon Receipt Form (SCUR)

| | | | | Project #: | ПОЩ. | 100100 |
|--|----------------|-------------|-----------|--------------------|--------------------|-----------------------------------|
| Client Name: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | | | MOH: 4 | 40249327 |
| Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee | Ει | JPS | ΓW | altco | | |
| Client Pace Other: | | | | | 40249327 | |
| Tracking #: | | | | | 10243327 | |
| Custody Seal on Cooler/Box Present: ☐ yes 又 | no S | Seals | intact: | yes no | | · |
| Custody Seal on Samples Present: yes 🔀 no |) 5 | Seals | intact: | yes no | | |
| Packing Material: | Bags | | None | Other | | |
| | | f Ice: ' | Wet) | Blue Dry None | X Samples o | |
| Cooler Temperature Uncorr: 4 /Corr: 3 | <u>.8</u> | | | | 1 | Person examining contents: |
| Temp Blank Present: yes no | E | Biolog | gical T | issue is Frozen: | ☐ yes ☐ no | Date: 8/4/22 Initials: NV |
| Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry to | ce. | · | · ———— | | | Labeled By Initials: SKW |
| Chain of Custody Present: | ⊠ Yes [| □No | □n/a | 1. + CC 8 | /4/22 NX | |
| Chain of Custody Filled Out: | □Yes [| X No | □n/a | 2. billing, | | 84/221 |
| Chain of Custody Relinquished: | ⊘ Yes [| □No | □N/A | 3. | | |
| Sampler Name & Signature on COC: | Yes [| □No | □N/A | 4. | | |
| Samples Arrived within Hold Time: | XYes [| □No | | 5. | | |
| - VOA Samples frozen upon receipt | □Yes [| □No | | Date/Time: | | |
| Short Hold Time Analysis (<72hr): | ∃Yes | ĭNo | | 6. | | |
| Rush Turn Around Time Requested: | □Yes Ì | XINo | - | 7. | • | |
| Sufficient Volume: | | | | 8. | | |
| For Analysis: Mayes □No MS/MSD: □ | ∃Yes ၨ | No | □n/a | | | |
| Correct Containers Used: | X Yes [| □No | | 9. | | |
| -Pace Containers Used: | XYes [| □No | □n/a | | | |
| '-Pace IR Containers Used: | ∃Yes [| □No | ™N/A | | | |
| Containers Intact: | Yes [| □No | | 10. | | |
| Filtered volume received for Dissolved tests | ∃Yes [| □No | .⊠N/A | 11. | | |
| Sample Labels match COC: | ∃Yes [| X No | □N/A | 12. No dates 0 | or times | |
| -Includes date/time/ID/Analysis Matrix: | N | | | | | 3/4/22 NX |
| Trip Blank Present: | X Yes [| □No | □n/a | 13. | | THECTY |
| Trip Blank Custody Seals Present | Yes [| □No | □n/a | | | |
| Pace Trip Blank Lot # (if purchased): 486 | | | | | | |
| Client Notification/ Resolution: Person Contacted: | | | 5.5 | | checked, see attac | hed form for additional comments |
| Comments/ Resolution: | | | Date/ | I ime: | | |
| | | | | | | |
| | | | | | |) |
| | | | | | | |
| PM Review is documented electronically in LIMs. | By rel | easin | g the | project, the PM ac | knowledges the | ey have reviewed the sample logir |
| | | | | • | | Page Zof 2 |

Qualtrax ID: 41292

TERRACON GROUND WATER SAMPLING INFORMATION SHEET PROJECT NO. 58187/03 moke out Geares PROJECT NAME: PROJECT WI Cu wo LOCATION: **SAMPLE POINT** SAMPLE POINT: P2-1 **DESCRIPTION: CASING DIAMETER: WELL DEPTH:** DEPTH TO GROUND WATER (FT): 3.00 DATE: 8/4/22 10/0 TIME SAMPLING METHOD: Low 200 ml/min Flow FLOW RATE: ~ TOTAL PURGED: ~ 2941

SAMPLE TIME:

| TIME | WATER LEVEL | TEMP.(° C) | рН | (ng/cm) | ORP (Ad/) | DO (mg/L) |
|------|----------------|-------------|------|---------|-------------|--------------|
| 1109 | - | 17.27 | 8-07 | 0.106 | -123.2 | 2.73 |
| 105 | | 16.08 | 7.67 | 0.069 | ~161,7 | 0.19 |
| 110 | | 16.79 | 7.63 | 0.065 | -178.1 | 6.16 |
| 1115 | | 14.77 | 7.63 | 0.061 | ~179.9 | 0.17 |
| 1120 | | 16.77 | 7.62 | 0-659 | -180.5 | 0.12 |
| 1125 | | 16.76 | 7.62 | 0.057 | - 181.5 | 0.17 |
| 1130 | 7 | 16.78 | 7,62 | 0-056 | -182.3 | 0.15 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | DDOR: YES NO ANALYSES: Unc |
|---|---|
| SLIGHTLY TURBID CEAR | NOT NOTED |
| CLEANING PERFORMED IN FIELD: Alconox and METHOD PERFORMED | Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING |
| COMMENTS: | |
| no lower level while | Sampling due to Casing Size |
| SAMPLED BY: | DATE: 8/4/22 |
| REVIEWED BY: Scott D. Hodgson | DATE: 8/4/22 |

TERRACON GROUND WATER SAMPLING INFORMATION SHEET

| PROJECT NAME: Smoke | - out Cleaners | PROJECT NO. <\alpha/2/03 |
|--|------------------------------|-----------------------------|
| PROJECT | WI | 3010113 |
| SAMPLE POINT: \$ P2-2 CASING DIAMETER: | SAMPLE POINT DESCRIPTION: | |
| WELL DEPTH: 36.1 | | |
| DATE: 8/4/22 TIME | 1010 | DEPTH TO GROUND WATER |
| SAMPLING METHOD: Low | Flaw | FLOW RATE: ~ 200 m//min |
| SAMPLE TIME: (050 | | TOTAL PURGED: 12 2 gar |

| TIME | WATER LEVEL | TEMP.(° ∠) | рН | COND. | ORP (NV) | DO (19/4) |
|------|----------------|-------------|------|-------|----------|-----------|
| 1017 | 4.41 | 18.90 | 7.63 | 1.245 | -147.0 | 1.34 |
| 1022 | 5.47 | 18.56 | 7.58 | 1.201 | -144.2 | 0.57 |
| 1027 | 6-54 | 18.44 | 7.56 | 1.154 | -142.8 | 0.25 |
| 1032 | 7.37 | 18.46 | 7.56 | 1-140 | 144 1425 | 0.22 |
| 1037 | 8.30 | 18.41 | 7.56 | 1.136 | -142.0 | 0.23 |
| 1042 | 9.21 | 18.40 | 7.57 | 1.133 | -141.9 | 0.25 |
| 1047 | 10.15 | 18.37 | 7.57 | 1.130 | -142.1 | 0.28 |
| | | | | | | |
| | | | | | | |
| | | | | | | 1 |
| | | | | | | |

| SAMPLE APPEARANCE: VERY TURBID TURBII | D ODOR: YES ANALYSES: (|
|---------------------------------------|--|
| SLIGHTLY TURBID C | NOT NOTED OC |
| CLEANING PERFORMED IN FIELD: Alcon | ox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING |
| COMMENTS: | |
| SAMPLED BY: | DATE: O / / |
| REVIEWED | 9/4/22 |
| BY: Scott D. Hodgson | DATE: 8/4/22 |

Smoke-Out Cleaners - Howard, Wisconsin

Terracon Project No. 58187103 Date Photos Taken: August 4, 2022





Photo #1 South floor drain plugged with sediment.



Photo #3 Approximate 4-inch diameter sanitary cleanout in the boiler room in the north part of Smoke-Out Cleaners.



Photo #5 View of north floor drain looking south-southeast with south floor drain (through center door) and enclosed boiler room with the sanitary cleanout in upper left.



Photo #2 North floor drain.



Photo #4 View of north floor drain looking northeast to the sanitary cleanout along the north wall (where person is).



Photo #6 View from outside the north garage door looking southeast showing the north floor drain inside and the holding tank access box outside.